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PATENTS  
NOTICES

Adjudicated Patents

(D. C. N. J.) Mojonnier Patent No. 2,169,054, for a liquid treating apparatus. Claims 5 to 12 *Held* invalid. *Mojonnier Bros. Co., Inc. v. Tolan Machinery Co., Inc.*, 129 F. Supp. 731; 105 USPQ 109.

(D. C. N. J.) Mojonnier Patent No. 2,179,949, for a liquid treating plant, *Held* invalid. *Id*.

(D. C. N. Y.) Grenier and Dormeyer Patent No. 2,580,762, for a protective closure. Claim 1 *Held* valid and infringed. *Protective Closures Co., Inc., et al. v. Clover Industries, Inc.*, 129 F. Supp. 941, 104 USPQ 378.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,414,477, L. A. Meacham, Indicating apparatus, decided May 27, 1955, claims 1, 2, 3, 4, 7, 10, and 11.

Pat. 2,520,153, E. J. Lawson, G. M. Fohlen, and A. Addelston, N-(Diarylmethyl)-tertiary-aminoalkanamides and their preparation, decided July 31, 1953, claims 2 and 7.

Pat. 2,611,318, G. A. Wahlmark, Pumps, decided Mar. 31, 1955, claim 8.

Pat. 2,623,892, D. Cleverdon, J. J. P. Staudinger, D. Faulkner, and J. N. Milne, Tri-Alkyl tin mono-alkoxides, decided Mar. 9, 1955, claim 2.

Pat. 2,631,414, A. A. Muehling, Honing tool with gauge, decided Mar. 30, 1955, claims 1, 2, 3, 4, 5, and 6.

Pat. 2,658,166, W. A. Depp, Multicathode glow discharge device, decided June 13, 1955, claim 1.

Disclaimer

2,422,654.—*Edmond Bruce*, Red Bank, N. J. TIME MEASURING SYSTEM. Patent dated June 24, 1947. Disclaimer filed June 6, 1955, by the assignee, *Bell Telephone Laboratories, Incorporated*.

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, and 7 of said patent.

Decisions of the Commissioner of Patents

The 1954 Edition of the Decisions of the Commissioner of Patents has been published. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Price: Buckram bound \$2.00

Patents Available for Licensing or Sale

2,709,022. Paint Can Cover. David F. Fatke, 136 Ackerman St., Rochester, N. Y.

2,689,529. Submersible Pump-Motor. The General Electric Company will grant nonexclusive licenses under this patent upon reasonable terms to domestic pump manufacturers. Applications for license may be addressed to the General Electric Company, Component Products Division, 1635 Broadway, Fort Wayne, Ind.

2,519,986. Baby Food Formula Container. Allan E. Trout, Route 3, Box 127, Turlock, Calif.

The following three patents are offered by Edward L. Clarke, 722 Eynon St., Scranton 4, Pa.

2,518,755. Lever for Screw Drivers (Attachable To Provide Extra Leverage To Start an Over-Tightened Screw).

2,650,661. Combination Storm Window and Screen.

2,665,174. Multiunit Scaffold.

New Applications Received During May 1955		Issue	
Patents	7,253	Patents	517—No. 2,712,131 to No. 2,712,647, incl.
Plants	7	Designs	36—No. 175,062 to No. 175,097, incl.
Reissues	16	Plants	2—No. 1,404 to No. 1,405, incl.
Designs	555	Reissues	3—No. 24,032 to No. 24,034, incl.
Total	7,831	Total	558

# CONDITION OF PATENT APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding Designs)	220,623
Total number of pending Design applications	6,896
Total number of applications awaiting action (excluding Designs)	137,812
Total number of Design applications awaiting action	2,978
Date of oldest new application	May 27, 1954
Date of oldest amended application	Aug 6, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 69, 70.
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.

## DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION

(Roman numerals in parentheses indicate Examining Group)

	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage	10-7-54	3-9-54
2. (III) HERRMANN, D., Fishing; Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-8-54	6-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions	8-31-54	11-3-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths	9-14-54	10-29-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knot-ter; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates	10-15-54	2-23-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g., Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes	8-4-54	1-12-54
7. (IV) OONSALVES, J. E., Optics, Photographic Apparatus	9-13-54	11-6-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	8-3-54	3-1-54
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines	10-18-54	12-14-53
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids	1-7-54	5-27-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls	9-20-54	10-12-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g., Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning	10-1-54	12-9-53
14. (III) MANIAN, J. C., Metal Working (part), e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes	11-5-54	1-4-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	10-19-54	3-5-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders	9-10-54	9-17-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding	10-20-54	2-25-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes	9-2-54	9-11-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	8-18-54	1-15-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks, Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking	11-12-54	3-24-54
21. (III) MADER, R. C., Textiles	10-8-54	1-25-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling	11-29-54	2-4-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education	5-27-54	8-7-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing	11-22-54	8-10-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus	9-1-54	12-4-53
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g., Miscellaneous Electric Control Mechanism	11-1-54	6-1-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-2-54	4-7-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes	10-5-54	4-8-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles, Package and Article Carriers	9-13-54	2-1-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidists; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing	11-24-54	12-23-53

## DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION

(Roman numerals in parentheses indicate Examining Group)

	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils, Carbon Chemistry (part), e. g., Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons	7-28-54	1-12-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers	11-1-54	4-21-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	9-7-54	12-10-53
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements	9-2-54	11-16-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles	11-8-54	2-15-54
36. (V) McFADYEN, A. D., Measuring and Testing	11-15-54	6-11-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating	6-25-54	1-26-54
38. (I) MARTELSTEIN, N., Carbon Chemistry (part), e. g., Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols	9-1-54	12-2-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows)	12-24-54	1-28-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	12-2-54	4-1-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds	6-1-54	9-11-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors	9-27-54	3-10-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus)	9-3-54	10-5-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances	10-13-54	6-3-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles	11-29-54	5-10-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers	6-11-54	8-6-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	9-28-54	4-23-54
50. (I) BENDEL, W. G., Carbon Chemistry (part), e. g., Synthetic Resins, Natural or Synthetic Rubber	10-18-54	3-9-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music	9-22-54	3-9-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing	11-8-54	2-26-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manofolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions, Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus	10-8-54	12-8-53
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits, Ray Energy (e. g., X-Ray, Ultraviolet, Radioactive) Applications	8-11-54	12-18-53
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids, Centrifugal Bowl Separators, Comminutors	5-26-54	12-30-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification	11-1-54	3-2-54
57. (III) MILLER, A. B., Cutting and Punching, Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings, Nut and Bolt Locks; Jewelry, Pipe Joints or Couplings	1-14-55	5-4-54
58. (III) DOWELL, E. F., Rolls and Rollers, Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons	9-15-54	10-1-53
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-2-54	2-2-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus, Railway Mail Delivery	12-1-54	5-27-54
62. (IV) SHAPIRO, A., Games, Toys, Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination	10-12-54	3-1-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g., Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g., Pigments, Fillers, Driers, and Organic Compositions	8-30-54	8-11-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions	9-10-54	11-19-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics	8-5-54	12-28-53
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products, Ornamentation; Paper Making	10-4-54	3-29-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers, Electric Meters; Sound Recording; Conductors; Insulators	8-26-54	10-23-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes, Torpedoes, Radar, Sonar; Automatic Pilots; Antennas; Actinide Series (e. g., Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers	6-9-54	8-18-53
DESIGNS, [A—BREHM, G. L., Industrial Arts	10-8-54	10-28-54
[B—GRAY, M. A., Household, Personal and Fine Arts	10-25-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during July 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents ..... Numbers 2,122,394 to 2,125,262, inclusive



## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

PALMER V. McLAMORE ET AL.

No. 6071. Decided March 30, 1955

[— F.2d — : — USPQ —]

#### INTERFERENCE—PRIORITY OF INVENTION—RADIO NAVIGATION SYSTEM.

The decision of the Board of Interference Examiners awarding priority of invention of certain counts to a radio navigation system to appellee on the ground that appellant's application failed to properly support a certain limitation is reversed.

APPEAL from the Patent Office. Interference No. 85,129.

REVERSED.

Reginald V. Craddock (Henry S. Huff and John W. McLaren of counsel) for Palmer.

Floyd M. Harris (J. L. Whittaker of counsel) for McLamore, Minneman and Dunn.

Before O'CONNELL, Acting Chief Judge, and JOHNSON, WORLEY, and COLE, Associate Judges

O'CONNELL, Acting Chief Judge, delivered the opinion of the court:

This is an appeal from a decision of the Board of Patent Interferences of the United States Patent Office granting priority of invention of the subject matter of the interference to the junior party, McLamore, Minneman, and Dunn, hereinafter referred to as McLamore. Three counts, Nos. 1, 5, and 6, corresponding to claims 1, 5, and 6 of the McLamore patent, were before the Board in the interference, the interference having been dissolved by the Primary Examiner as to all other counts. Only counts 1 and 5 are involved here, no appeal having been taken as to count 6.

The application of appellant Palmer, the senior party, No. 633,473, was filed December 7, 1945. The McLamore application, No. 745,028, was filed April 30, 1947. The real parties in interest are the Radio Corporation of America, assignee of McLamore; and Sperry Gyroscope Company, Inc., assignee of Palmer. As stated by the Board:

This interference relates to the Loran receivers, particularly to an arrangement utilizing sinusoidal waves as a time measuring standard for enabling the operator thereof to exhibit the separation of received pulses in time units upon a dial or dials.

Count 1, which presents the same question as count 5, and relates to radio navigation systems, is illustrative and reads as follows:

1. In a radio system wherein periodically recurring A pulses and B pulses are received from pairs of ground stations and wherein a deflecting wave of fixed timing and a like deflecting wave of adjustable timing are to be produced for deflecting the cathode ray of a cathode ray tube indicator, said A pulses having the same repetition period being different for each pair of ground stations, means including an oscillator followed by a chain of frequency dividers for producing a square wave having the same repetition period as that of the A and B pulses received from a particular pair of ground stations, the half cycle of said square wave that occurs during the occurrence of a B pulse being identified as the slave period, means for obtaining from said last means a continuous sine wave signal having a fixed phase with respect to said slave period for any of said ground station repetition rates, phase shifter through which said sine wave signal is passed to obtain a phase-shifted wave, means for converting said phase-shifted wave to short-duration timing pulses, means for selecting a desired one of said timing pulses, and means for producing said adjustable deflecting wave in response to the occurrence of said selected pulse whereby said adjustable deflecting wave may be shifted to a

desired position along a time axis by selecting a desired timing pulse and by shifting the phase of the selected timing pulse by said phase shifter.

The interference relates specifically to certain improvements in "Loran" navigation radio receivers, a consideration of which is helpful in resolving the issues presented in this case.

As disclosed by the record and briefs, "Loran" is a system of "long range navigation" from which the name was derived and which was developed during World War II. It is now widely used for navigation purposes on ships and planes. Many different methods of determining one's position on a map or chart are used or are conceivable. In sight navigation, for instance, a line of bearing is taken to two or more known landmarks. These lines of bearing are transferred to a chart of the area, and the navigator's position is located at the intersection of the lines. Likewise, if the distances to two known landmarks were known, one might plot a circle from each landmark with the radius of the circle equal to the distance from the landmark. The navigator then is at a point where one circle cuts or touches the other circle.

The "Loran" system is basically one of distance measurement by which two curves are found, the navigator being located at the intersection of the curves. The distance measurement is based upon the fact that radio waves travel at a known speed—the speed of light—and if one could measure the time taken for a radio wave to arrive from a known transmitter, he would know his distance from that transmitter. However, the difficulty arises in trying to find the precise time at which the radio wave started from the transmitter. The difficulties involved in trying to synchronize timing apparatus with such precision is manifest.

The difficulty is solved by having two transmitters, separated at some distance from each other. One station, called the master station, sends one radio pulse, and the other, called the slave station, sends out a pulse which originates a known interval of time after the first. The navigator seeking to find his location measures the difference in time between the arrival of the master pulse and the arrival of the slave pulse. By comparing this difference with the known difference between the pulses at origin, he may find out how much the slave pulse has gained on the master pulse, or how much it has lost. Once he has found this interval, he can by simple mathematics calculate how much closer he is to one station than to the other.

Rather than measuring distance directly, a difference in distance is measured. However, the effect is the same; once the navigator knows how much further he is from one point than another, he can plot a curve, hyperbolic in form, on which every point is an equal distance further from point A than from point B. Then by taking a different pair of stations, the navigator through the same process may obtain another hyperbolic curve, representing the difference in distance he is from the second pair of stations. The navigator will be located at the intersection of these two curves. However, in actual practice, the navigator measures only the time difference between pulses for each pair

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of stations, and then refers to charts upon which the curves corresponding to the total time differences have been plotted, thus eliminating much calculation at the point of navigation.

It is clear from the foregoing discussion that the essential operation in Loran navigation is the precise measurement of the elapsed time between the reception of the master pulse and the slave pulse. Since radio waves travel at the speed of light, it is equally clear that the time differences will be extremely minute. It is said that these time differences are measured accurately to one microsecond—a millionth part of a second. The subject matter of the present interference relates particularly to means for accurately measuring this time difference, and for allowing the measurement to be read directly from dials without recourse to correction tables or multiple readings.

The system used for this precise measurement is electronic, and involves principally a visual presentation of the pulses upon the screen of a cathode ray tube. The cathode ray is caused to make horizontal sweeps, the frequency of these sweeps being adjustable within certain limits by the operator. The signals from the master and slave shore stations are then impressed upon this cathode ray, causing a vertical displacement, a "blip." It will be seen, that if there are exactly the same number of cathode ray sweeps per second as there are pulses per second, then the pulse will be displayed at exactly the same spot on the cathode ray screen; that is, the "blip" will appear to stand still. On the other hand, if the sweep rate and the pulse rate are not exactly synchronized, the pulses will not appear at the same spot at each sweep, but will appear to "move along" the trace.

It is this fact that makes possible the identification of the particular pair of master and slave stations desired. Each pair operates at a different repetition rate, but upon the same radio wave. For example, one pair of stations will send out a master pulse and a slave pulse every 40,000 microseconds, 25 of each kind of pulse a second. Another pair of stations might send out a pair of pulses every 39,900 microseconds, slightly more than 25 pulses a second. Thus it is clear that if a cathode ray makes a complete horizontal sweep every 40,000 microseconds, the pulses from the pair of stations with that repetition rate will appear at exactly the same spot on the trace on the cathode ray tube. On the other hand, the pulses with a repetition rate of 39,900 microseconds will appear at a slightly different spot on each sweep; that is, the pulses from this second pair of stations will appear to "move along" the trace.

In taking Loran readings, the operator sets the sweep rate of his receiver to equal precisely that of one pair of stations, and then by electronic means to be discussed later he measures the time difference between the master station pulse and the slave station pulse thus identified. Next he changes the sweep rate of the receiver to coincide with that of another pair of stations, and again measures the time difference between pulses. From the information thus obtained, the operator can find on special Loran charts two intersecting lines on both of which he must be located; hence he must be located at the intersection of the lines, and his problem is solved.

The particular problem to which both of the parties to be interference directed themselves is that of pro-

viding a means whereby the Loran operator could determine the time difference by reading figures directly from dials mechanically connected to electronic markers to be placed under the pulses from each "blip," where the time difference between the markers was adjustable and known. It appears that in the prior art it was necessary for the operator in effect to measure the distance between the pulses by counting the number of evenly spaced lines appearing on the face of the cathode ray tube between the two pulses. The possibilities of error inherent in this method are manifest.

If the repetition rate for each pair of stations were the same, there would have been no difficulty in providing direct reading apparatus. However, since the rates are different, the prior art methods made a reading for one pair of stations represent a different time interval than that of an identical numerical reading from another pair of stations. In that case it would be necessary to resort to correction tables to obtain the correct absolute time difference.

In so far as we are concerned in this interference, we may limit our discussion to what is known as the "expanded sweep." That is, the cathode ray trace does not represent the entire repetition period, but only the portions of it upon which the two pulses occur. Loran transmissions are so designed that the master pulse occurs during the first half of the repetition period and the slave pulse occurs during the second half of the repetition period. In the expanded sweep, the cathode ray is caused to make one sweep during that portion of the first half of the repetition period in which the master pulse occurs. It is caused to make another sweep in that portion of the second half of the period in which the slave pulse appears. The second sweep is adjustable so that two pulses can be made to coincide upon the face of the cathode ray tube. It is apparent that the time difference between the start of the first sweep and the start of the second sweep will be equal to the time difference between the master and slave pulses.

In the instant interference, appellee McLamore, from whose patent the counts were copied, moved to dissolve the interference on the ground that Palmer could not make the counts. The Primary Examiner denied this motion. The Board of Patent Interferences reversed the Examiner, upon original argument and upon rehearing, and Palmer has appealed from that decision. Thus the sole question before us is the sufficiency of the Palmer application to support the counts.

The only portion of the counts over which there is controversy is that which reads as follows in count 1:

Both parties illustrate a continuous sine wave signal obtained as required by the count. The only question is whether this sine wave has a "fixed phase" with respect to the slave period, defined as the second half of the repetition period, for any ground station repetition rate.

The Primary Examiner held that this relationship was sufficiently present in Palmer's disclosure for Palmer to make the count, stating:

This terminology is also considered readable upon Palmer Figure 7, wherein oscillator 201, divider 202, and filter 216 applies a sine wave signal to the phase shifter 219. It will



be noted that since oscillator 201 is connected to both square wave generator 211 and the input to phase shifter 219 there will be fixed phase relationship with respect to the entire repetition period, which includes that portion of the repetition period which the count defines as being the "slave period." It is considered important to note that the sine wave has a fixed phase with respect to the entire repetition period, and, therefore, with respect to a part thereof defined as the "slave period." [Italics quoted.]

The Board of Patent Interferences found that Palmer did not in terms disclose the "fixed phase" relation, and that for him to make the count, such relation must be inherent or necessary in his system. The Board studied his disclosure, and then concluded:

We are of the opinion that there is insufficient evidence of record to determine with any degree of satisfaction what part if any is played by the sine wave phase relation to the beginning of the slave period in the accuracy or directness of reading of the Palmer device, and therefore there is no sound basis to say that it is a necessary feature of the device. We see nothing in any of the explanations offered by either party from which such a conclusion may be properly drawn, although it must be admitted that the disclosure does not preclude such a possibility as an actuality.

The hypertechnical and complex nature of the subject matter of this interference makes it difficult to define the issues without reference to the schematic drawings and specifications of the parties. It is deemed inexpedient to reproduce these documents here, however, in view of the fact that there are more than 350 elements depicted by McLamore and more than 200 illustrated by Palmer. Insofar as possible we shall endeavor, therefore, to describe the apparatus in broad terms, although we are well aware of the dangers inherent in oversimplification.

As mentioned hereinbefore this interference relates particularly to the problem of producing a pair of "expanded sweep" pulses the recurrence rate of which may be varied to exactly coincide with a multitude of Loran station repetition rates, and to the problem of measuring the time interval between such pulses in units which are independent of a change in repetition rate.

In making comparative measurement which is to have any meaning, not only must the units of measurement be the same, but the end points of the factors to be measured must have the same relation, or be correctible to the same relation, to the measuring stick. Let us take for a specific example the measurement of the length of two pieces of paper. The zero point of the ruler or yardstick is aligned with one end of the first piece of paper and a notation is made of the place on the ruler where the other end touches. In measuring the second piece of paper, the zero point, or some reference point, such as the one inch mark, which is a known distance from the zero point, must be aligned with one end of the second piece of paper, otherwise the two measurements will not be comparable.

Speaking in terms of the interference count, the ruler must be in "fixed phase" with one end of each paper; one of the gradations of the ruler must be aligned with an end of each piece of paper to be measured. Similarly, one might measure from an equivalent spot on each piece of paper, e. g., the mid-points or from any reference point whose distance from the end point is known, e. g., a line on each paper which is known to be 5 inches from the end. In all cases, the accuracy of the measurements depends on how nearly a line on the ruler was aligned ("in phase") with the reference points on each paper.

Inasmuch as the only question before us is whether the counts read upon the Palmer disclosure, we do not need to enter into a detailed discussion of the

McLamore patent. We will content ourselves with stating that the party McLamore chose the mid-point of the repetition period as the place he would start all measurements, placing the master pulse at the beginning of the repetition period for all measurements. Then McLamore chose as his "ruler," one in which each of the gradations was exactly half the difference between adjacent Loran repetition periods. Thus, when the receiver is changed from one repetition rate to another, the mid-point is always aligned in "fixed phase" with one of the gradations of the ruler, since as the repetition period is shortened by two units, the mid-point is shifted exactly one unit to the left. More specifically, we are told that Loran repetition periods differ by exact multiples of 100 microseconds. McLamore therefore chose as his measuring unit a sine wave having a repetition period of exactly 50 microseconds. Thus the mid-point of the repetition period, or beginning of the "slave period," always would be in fixed phase with the sine wave for any repetition period.

We note here that the measurements obtained by the McLamore apparatus would not give directly the total time between the reception of the master pulse and the slave pulse for different repetition periods. McLamore does not state exactly how this adjustment for a total time reading is made, but the amount of the adjustment would be a known quantity, and several methods are conceivable for making it. We need not, however, concern ourselves here with that aspect of the problem.

In the Palmer apparatus, a somewhat different solution is adopted. In Palmer the reference point, from which all measurements are started, is not in terms pointed out in the specification, and, due to the peculiar nature of the apparatus, at first blush would appear to be the first expanded sweep pulse. The measuring sine wave is clearly and necessarily in "fixed phase" with the sweep pulse, because that pulse is derived directly from the sine wave.

Thus in the Palmer apparatus certain elements are set into operation at the start of the repetition period. After a given delay the device is ready to generate an expanded sweep. The first sine wave pulse which occurs after the set is in this condition will trigger the expanded sweep. Consequently, by the necessary construction of the Palmer apparatus, the first expanded sweep will be in fixed phase with the measuring sine wave. The same is true with respect to the second expanded sweep, when zero phase shift has been applied to the sine wave. The start of the slave period sets into operation certain elements, which after a given delay are in a condition to generate an expanded sweep. The next sine wave pulse triggers the second expanded sweep apparatus. When no phase shift has been applied to the measuring sine wave, it is obvious that the first expanded sweep and the second expanded sweep must be in fixed phase with the sine wave and with each other. However, is the first sweep pulse the real zero point or "time reference point" as contended by appellee? We think not, at least not in the same sense as we have used that term in McLamore, for reasons to be discussed later.

Palmer's Figure 7 is the only figure which specifically relates to Loran receivers. We have carefully studied the Palmer specification, and we are convinced that in the device illustrated in Figure 7 and described in

the specification not only is the measuring sine wave in fixed phase with the first expanded sweep pulse and the second expanded sweep pulse (absent any applied phase shift), but that it is also in fixed phase with the slave period, as required by the counts. As pointed out by the Primary Examiner, the square wave generator which starts the repetition period and the slave period, is triggered by a pulse derived from the same source as the sine wave. To speak in terms of the specification, the square wave generator 211 is triggered in response to a pulse from frequency divider 203, which is coincident with a pulse from frequency divider 202. However, the pulse from frequency divider 202 is the measuring sine wave pulse. Hence, the square wave generator, which produces the "slave period," is triggered by a pulse that is simultaneous with a pulse from the measuring sine wave. From this we logically conclude that the sine wave signal in Palmer's Figure 7 would have a fixed phase with respect to the slave period, as required by the counts.

The Board of Patent Interferences dismissed this reasoning by postulating unknown phase shifts in the frequency dividing chain resulting from a change from one Loran station to another. It adopted this postulate in spite of Palmer's statement in the specification that the transient delay circuit 207 "eliminates timing irregularity introduced by the frequency dividing circuits." In addition to these explicit statements by Palmer, it seems to us that a fair reading of the description of Figure 7 would lead one to assume that there were no undescribed phase shifts of any significance.

In any event, the word "fixed" is a word of relative meaning. It can have many shades of meaning, from absolutely unchangeable to relatively unchangeable. Thus a scientific law is "fixed" and unchangeable; a fixture in property law is "fixed" though capable of being moved; and a man's habits may be "fixed" though subject to minor deviations. It has been said that words in an interference count are to be given the broadest interpretation possible. However, we do not need to avail ourselves of this principle here. We may look to appellee's disclosure and give to the word "fixed" the same meaning it must have there. We find that "fixed" there is subject to any phase shifts that may occur in the frequency dividing chain, which we assume are minor. Thus the word "fixed" as applied to the McLamore apparatus can only mean fixed within the limits of any variation introduced by the frequency dividing chain. Looking to Palmer's Figure 7, we see that the sine wave is clearly in fixed phase with the slave period, in that sense of the word "fixed," since the slave period is derived from the sine wave by an almost identical series of frequency dividers. We conclude that the counts read in terms upon Palmer's Figure 7. The main contention of appellee McLamore is, however, that even if the count can be read in terms on the Palmer specification, such disclosure is merely incidental, and that incidental disclosure is insufficient to support the counts. In support of this last conclusion McLamore cites *Gray Telephone Pay Station Co. v. Baird Mfg. Co.*, 174 Fed. 417, and *Brill v. Third Ave. R. Co.*, 103 Fed. 289, as holding that claims are not anticipated merely because they read in terms on prior art, and cites *Minton v. Thomas*, 18 CCPA (Patents) 1153, 48 F.2d 425, 9 USPQ 251, as indicating that the same rule should apply to interference cases.

In our view of the case, it is unnecessary to determine whether appellee's statement of the law is correct, for it is our opinion that there is sufficient disclosure in the Palmer application for us to conclude that he is entitled to the invention defined by the counts. We have carefully studied the Palmer specification, and are convinced that his inventive concept basically included the particular embodiment defined by the counts, whether or not he fully recognized the significance of the particular relationship in controversy here at the time he filed his application.

We are struck by the basic similarity, after all the technical verbiage is taken away, between the operation of the McLamore device and the Palmer device. If Palmer's Figure 7 were constructed without selectors 212 and 214, then the positive-going wave from the square wave generator would trigger the first expanded sweep, and we would have essentially the same apparatus as that of McLamore. In such a case, the fixed index marker, or time reference pulse, whichever it may be called, would be generated by the square wave in both. The delayed pulse or variable index marker timing circuit would be started by the second half of the square wave in both. Delay is introduced by somewhat different means in both, but the particular means are not essential. Both, however, use a pulse derived from a phase-shifted sine wave to finally generate the expanded sweep wave occurring in the slave period.

For purposes of exposition we have considered Palmer's device without selectors 212 and 214. We must consider what effect these selectors have upon the apparatus. We are convinced that by use of these selectors Palmer has merely increased the precision of his measurement. Palmer clearly states that this is one of the objects of his invention. In the McLamore apparatus the variable index marker is derived from the 20,000 cycle sine wave, and thus has the precision of that wave. The fixed index marker is derived from a 50 cycle pulse, and has only the accuracy of that pulse. Thus the measurement obtained from McLamore will only have the accuracy or precision associated with the lower frequency pulse. In Palmer, however, the lower frequency waves are used merely to set up the conditions for choosing the higher frequency pulse, and consequently it has the precision of the higher frequency wave. In Palmer, any phase shift which occurs in the frequency dividing chain is automatically compensated for by a counter-balancing shift in the first sweep pulse. Palmer's primary purpose, however, was the production of a direct reading apparatus and this he would have accomplished without the increased precision introduced by the utilization of the higher frequency sine wave to select both sweep circuits.

It is the peculiar character of this additional advantage secured by the Palmer apparatus which enables appellee to argue that the fixed phase relationship is not an essential feature of appellant's structure. McLamore suggests that if the high frequency sine wave of the count be shifted continuously outside of the frequency divider chain, then the sine wave would continually vary in phase with respect to the slave period, but that the accuracy of Palmer's measurement would not be affected. This seems to be clearly a modification that has no basis in either disclosure to justify it. We are convinced that in actual practice of the two inventions there would be no greater phase shift with respect to the slave period in Palmer than



there would be in McLamore; the only difference is, that in Palmer any such phase shift would not affect the validity of the measurement. We do not feel that Palmer's skill in refining his invention should handicap him in an interference. Furthermore, it is not evident that McLamore's criticism would necessarily be true in all embodiments of the Palmer device, e. g., if the phase shifters were not mechanically connected so that the measuring sine wave could be shifted relative to the other waves.

It is also pertinent to note here that McLamore states that the time measured by Palmer is between the first expanded sweep pulse and the second expanded sweep pulse, and therefore that Palmer's time reference point is the first sweep pulse, while the McLamore time measurement is from the start of the slave period. We are of the opinion that this discussion and McLamore sheets 1 and 2 which seek to interpret the Palmer device are erroneous and misleading. These sheets and graphs seem to indicate that the time loss in shifting from one repetition rate to another occurs in Palmer between the beginning of each half of the square wave and the associated sweep pulse. The graphs show that the wave which "turns off" selectors 212 and 228, "loses counts"—that is, that the length of the wave out of 212 and 228 varies according to the number of counts lost. This is incorrect, for although the wave from 204 does lose counts, it does not lose them during the time selectors 212 and 228 are active, due to the action of transient delay circuit 207. The time loss occurs between the sweep pulse and the end of the associated half-period. To state the same thing in other language, the two sweep pulses occur a con-

stant time period after the start of their respective half-periods (absent applied phase shift). Thus, the Palmer apparatus does not directly measure the total time interval between the two pulses for different repetition periods. At zero phase shift there will not be a constant time interval between the two pulses for every repetition period, but the time will vary by one half the difference of the repetition periods. This is the same characteristic we have noted in the McLamore apparatus.

We also note that Palmer's timing measurement is unchangeably linked, not to the first sweep pulse, but to the start of the slave period. It is the start of the slave period which sets Palmer's timing apparatus into operation, and Palmer gives clear indication that at zero phase shift there is a constant time between the start of the slave period and the selection of the pulse. The Palmer apparatus cannot measure any and all times between the first and second pulses. When zero phase shift is applied, the second sweep is at a spot determined by the start of the slave period.

We are of the opinion that the Palmer application contains sufficient disclosure to support the portion of the counts relating to a fixed phase relationship between the sine wave and the slave period, and since no other limitations are in controversy, it follows that the decision of the Board of Patent Interferences must be and hereby is reversed.

#### REVERSED.

GARRETT, Chief Judge, did not participate in the hearing or decision of this case because of illness.

WORLEY, J., dissents.

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,133,642; 2,133,645, 2,133,646, 2,133,648, G. W. Pierce, Electrical system; 2,133,643, same, Electrical system and apparatus; 2,266,070, same, Electromechanical vibrator apparatus, filed Apr. 2, 1954, D. C. Mass. (Boston), Doc. 54/260-W. *George Washington Pierce v. Hewlett-Packard Co. et al.* Judgment of dismissal as to claims 51, 52, 54, 55, 56 and 68 inclusive of Patent No. 2,133,642; said claims held invalid Oct. 22, 1954. Same, appeal filed Oct. 28, 1954, C. C. A., 1st Cir., Doc. 4902, *George Washington Pierce v. Hewlett-Packard Co. et al.* Judgment of District Court affirmed (notice Apr. 14, 1955).

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2,133,645. (See 2,133,642.)

2,133,646. (See 2,133,642.)

2,133,648. (See 2,133,642.)

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2,663,952. (See Re. 23,895.)

2,665,870, F. A. de Wless, Adjustable bracket structure, filed May 6, 1955, D. C. N. J. (Newark), Doc. 428/55, *Milton Fletcher v. Swing-O-Lite, Inc.*

2,679,281, J. F. Paulucci, Method and means for securing cans together, filed May 6, 1955, D. C., N. D. Ill. (Chicago), Doc. 55678, *Chun King Sales, Inc. et al. v. Hung K. Tom et al.*

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*Awning Corp. of America v. Kool-Vent Metal Awning Corp. of Missouri et al.* Patent claims held not infringed Feb. 14, 1955. Judgment dismissing complaint and counterclaim Mar. 18, 1955. (Little Rock), Doc. LR-2960, *McGraw Electric Co. v. Central Transformer Corp.* (Re. 23,987 added to complaint on May 6, 1955.)

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696 O. G.—2

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Des. 172,594, R. A. Guichard, Adjustable stand, filed Sept. 18, 1954, D. C., N. D. Ill. (Chicago), Doc. 54c1360, *Empire Works, Inc. v. Mancor Co.* On stipulation; cause dismissed with prejudice Feb. 10, 1955.

## REISSUES

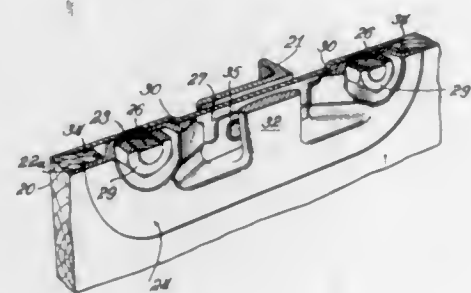
JULY 5, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

24,032

### LADING TIE ANCHORING MEANS AND APPLICATION

Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Original No. 2,660,130, dated November 24, 1953, Serial No. 260,430, December 7, 1951. Application for reissue December 10, 1954, Serial No. 474,637  
11 Claims. (Cl. 105—369)



1. A lading tie anchor comprising a substantially flat metallic retainer plate provided with longitudinally spaced, intimately secured, forwardly presented studs; means whereby the plate is intimately secured to the metal posts of a railroad car superstructure; a metallic face plate matching and coextensive with the retainer plate and provided at opposite sides of its vertical median portion and spaced therefrom with partially severed portions and the partially severed metal dished rearwardly toward the retainer plate, the integral portion of the face plate intermediate said spaced apart rearwardly dished portions constituting a wide tie element holding bar, the face plate on its rear side and intermediate the dished portions and the perimeter of the plate having retainer plate contacting surfaces for maintaining a spaced relation between the plates and to enclose the tie element receiving cavity above and beneath said dished surfaces, and means whereby the two plates are secured together.

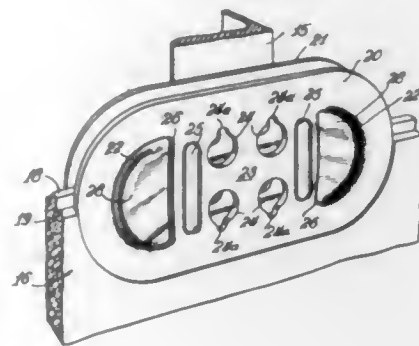
24,033

### LADING TIE ANCHOR

Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Original No. 2,675,766, dated April 20, 1954, Serial No. 282,807, April 17, 1952. Application for reissue December 10, 1954, Serial No. 474,638  
9 Claims. (Cl. 105—369)

1. A lading tie anchor adapted to be countersunk in the lining of a railroad house car consisting of a metallic elongated unit composed of a rear or retaining portion adapted to be intimately secured to the metal post of the car superstructure and having forwardly sloping walls adjacent opposite ends, an outer or face plate portion of width and length similar to that of the rear or retaining portion and provided with cut-outs adjacent opposite ends registering with the forwardly sloping walls of the rear portion, said cut-outs being spaced to provide a tie-holding bar-like portion therebetween, and a circumscribing

enclosing rib intermediate the rear and face portions at a distance removed from the perimeters of said portions

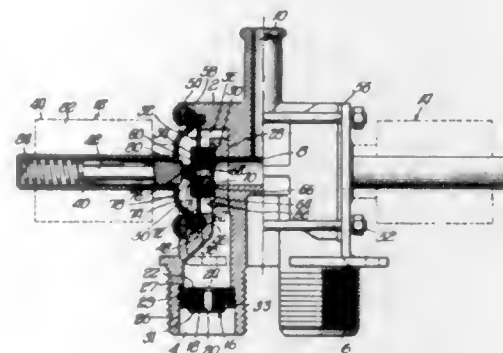


so as to provide a continuous perimetrical groove between the retaining plate and said face plate and to enclose the spacing between the main body parts of the rear and face portions and provide a tie receiving passage between the plate portions accessible through said cut-outs.

24,034

### FLOW CONTROL VALVE

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware  
Original No. 2,644,476, dated July 7, 1953, Serial No. 167,283, June 10, 1950. Application for reissue February 15, 1955, Serial No. 488,444  
8 Claims. (Cl. 137—88)



1. A mixing valve comprising a valve body having a mixing chamber, inlet means for delivering liquids having different temperature characteristics to said mixing chamber, outlet means for said mixing chamber, and an automatic flow control device for each of said inlets, each of said devices comprising a member of resilient material seated in an inlet in engaging relation with the inner wall thereof, said devices having a substantially centrally disposed orifice therethrough whereby liquid from each of said inlets is delivered to said mixing chamber in substantially equal amounts in equal intervals of time.

## PLANT PATENTS

GRANTED JULY 5, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,404

### ROSE PLANT

Josephine D. Brownell, Little Compton, R. I.  
Application October 5, 1954, Serial No. 460,524

1 Claim. (Cl. 47—61)

A new and distinct variety of roseplant, substantially as shown and described characterized by its color, fragrance, form and color and its Wichuraiana traits.

1,405

### ROSE PLANT

Josephine D. Brownell, Little Compton, R. I.  
Application October 8, 1954, Serial No. 461,299  
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant substantially as shown and described, characterized by its unique color, form, arrangement, bloom cluster, habit of growth and resistance to moderate sub-zero temperatures and to blackspot.



# PATENTS

GRANTED JULY 5, 1955

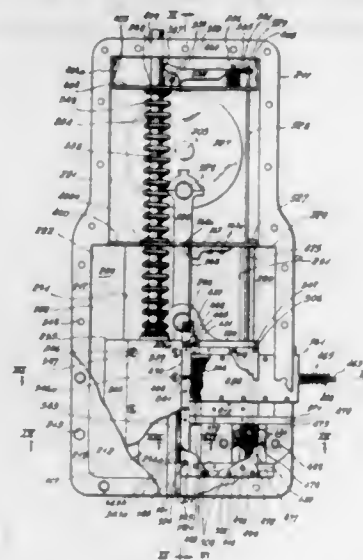
## GENERAL AND MECHANICAL

2,712,131

### NAILMAKING MACHINE

José María Bolaño, Buenos Aires, Argentina  
Original application July 12, 1951, Serial No. 236,301,  
now Patent No. 2,673,979, dated April 6, 1954. Di-  
vided and this application December 30, 1953, Serial  
No. 401,360

6 Claims. (Cl. 1—27)



1. A nailmaking and nailing machine adapted to form nails from sheet-metal blanks and to drive the formed nails out under hammer action, said machine comprising a slide structure, a guide block including guide means for guiding said slide structure, said slide structure being reciprocally mounted in said guide block, a magazine for nail blanks including an inner end, secured in and carried by said slide structure, a blank receiving channel extending in said slide structure parallel to the direction of reciprocation thereof and having an open side facing the inner end of said magazine, a blank feeder tongue, a fixed support outside and independent of said slide structure, said tongue having one end fixed to said support and a free end extending into said blank receiving channel on one side of said magazine, a die holding channel forming a continuation of said blank receiving channel and extending in coplanar relationship therewith on the side of said magazine remote from said feeder tongue, a die block in said slide structure and defining a die slot having an outer end coplanar with said die holding channel, and an inner end, ram means mounted in said slide structure opposite the inner end of said die slot and on the same side of said die holding channel as said magazine, a hammer bar guide channel extending through said slide structure in parallel spaced relationship to said blank receiving and die holding channels on the side thereof remote from said magazine and having a hammer guide portion extending adjacent said inner end of said die slot, hammer means mounted for reciprocation in said hammer bar guide channel and including a hammer head located in said hammer guide portion, slide actuating means for said slide structure, a fixed surface located in independent spaced relationship to said slide structure and on the same side thereof as said feeder tongue, compressible resilient means extending between said fixed surface and said hammer means, latch and trip means operatively associated with said hammer means and said slide structure to latch said hammer means in retracted position when the slide structure reaches a first position

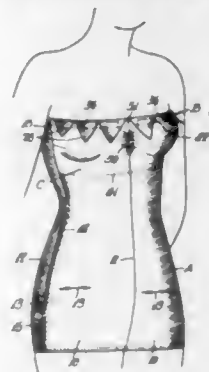
and to trip said hammer means when the slide structure reaches a second position, and toggle type actuating means for said ram means.

2,712,132

### STRAPLESS BATHING SUIT

Boris W. Mosen and Adolph Mosen, New York, N. Y.  
Application June 26, 1950, Serial No. 170,349

4 Claims. (Cl. 2—67)



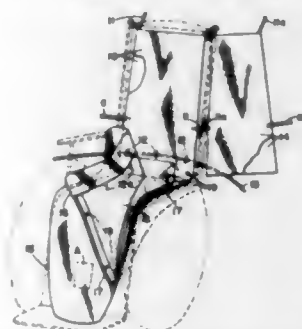
2. A strapless bathing suit construction of the skirted or skirtless type having breast portions and comprising a plurality of vertical elasticized main front and rear fabric panels joined to form side edges of said panels having lateral stretch qualities and a top suspension construction having separated heavy elastic bands extending across the top of the breast portions, said main front fabric panels having upper suspensions which extend downwardly in front of the upper periphery of the front of the bathing suit and inner tubular elasticized fabric sections connected to said main front fabric panels, said tubular structure receiving said heavy elastic bands, said heavy elastic bands terminating at a position on the top of the breast portions substantially removed from the middle of the front central axis of the garment so that the adjacent inside ends of said heavy elastic bands will be substantially spaced from one another and said heavy elastic bands also terminating at the sides of the garment at a position substantially spaced from the side edges of the garment and stitching extending through said elastic bands around their upper and lower edges and end portion, said stitching extending through said vertical elasticized main front fabric panels.

2,712,133

### WHEEL CHAIR ROBE

Lillye Mehlinger Coleman, New York, N. Y.  
Application September 22, 1953, Serial No. 381,640

1 Claim. (Cl. 2—69)



A wheel chair robe comprising a full length back having leg, seat and body portions and an overlapping, overlapping, overlapping.

JULY 5, 1955

GENERAL AND MECHANICAL

13

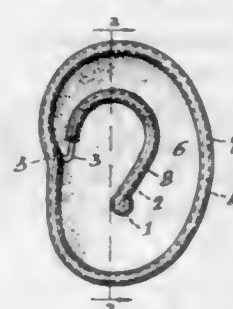
removable, upper protective front portion, said front portion conforming substantially to the outline of said back body portion, and means for securing said portions together at the edges thereof; a protective front lap portion connected to a portion of the back along the sides thereof and extending over the leg and seat portions of the robe, said lap portion and upper front portion partially overlapping each other substantially at the waist line of the robe when in protective position, the lap portion being detachable along its side edges and forming an envelope with the back portion when attached thereto; the front, lap, seat and back portions having plural wall structures forming pockets for the reception of padding; an interliner detachably secured within said envelope; a belt supported by said back portion and adapted to tie together said upper front portion, lap portion and back portion substantially at the waistline.

2,712,134

### EAR MUFFS

Armand Cyr, Ville St.-Laurent, Quebec, Canada  
Application March 19, 1953, Serial No. 343,477

4 Claims. (Cl. 2—209)



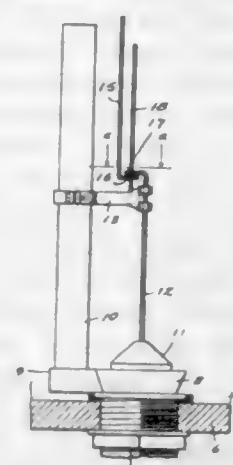
1. An ear muff comprising a wire bent to form an inverted substantially U-shaped open loop providing two spaced ends, the wire being continued from one of said ends and surrounding the first loop to form a second loop terminating at and attached to the last named end, the second loop being spaced peripherally from the first loop, and lying in a plane angular to that of the first loop, and a piece of fabric of the general configuration of said second loop extending across and secured to the second loop.

2,712,135

### FLUSH TANK VALVE GUIDE

Carrol R. Boyce, Wautoma, Wis.  
Application September 21, 1953, Serial No. 381,211

4 Claims. (Cl. 4—57)



1. A flush valve guide for use with a flush tank including a valve seat, an overflow pipe extending upwardly from and laterally offset relatively to the valve seat, and a guide secured to and supported by the overflow pipe above the valve seat, comprising a flush valve normally seating in the valve seat, a valve stem secured to and extending upwardly from the flush valve slidably through said guide, said stem having an upper end terminating in a laterally offset eye disposed above the guide, a connect-

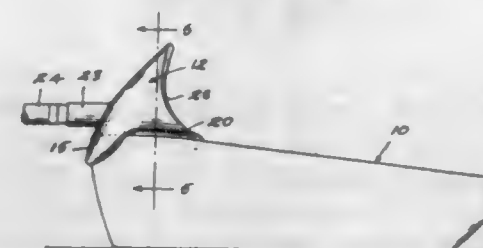
ing link having a lower end terminating in a laterally offset eye disposed beneath the valve stem eye and above the valve stem guide, and a guide rod fixed to and extending upwardly from the valve stem guide loosely through said connecting link eye and the valve stem eye for causing the connecting link eye to engage under the valve stem eye for lifting the valve stem and valve when the connecting link is raised.

2,712,136

### VENTILATOR ATTACHMENT FOR BED PANS

Sylvanus Carl Ring, Olney, Ill.  
Application May 1, 1952, Serial No. 285,519

1 Claim. (Cl. 4—112)



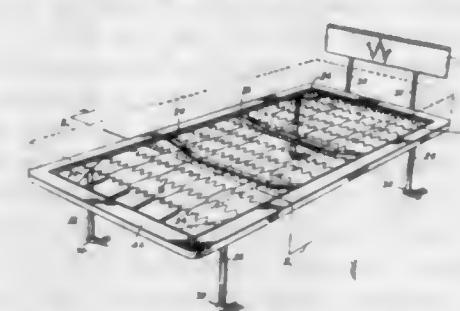
A ventilator attachment for a bed pan, comprising a dome-shaped body having a concave inner edge conforming in configuration to the human anatomy for snug engagement with the body of the user, an outwardly extending flange about the exterior of said body having an inclined channel thereon for engagement with the lip of a bed pan, a depending lip on the outer side of said body encircling the outer edge of said bed pan, an integrally formed substantially U-shaped channel formed interiorly in said body, the legs of the channel having an opening in the concave edge of said body, the bight of said channel communicating with an opening in said body, and a nipple communicating with said opening and extending exteriorly of said body.

2,712,137

### BED

Maurice W. Hunter, Des Moines, Iowa  
Application July 20, 1953, Serial No. 368,915

5 Claims. (Cl. 5—131)



5. A bed, comprising, a rectangular frame member, a web plate secured diagonally across each corner of said frame, spring means on said frame, a tubular horizontal support member secured diagonally across each corner of said frame on said web plates, a head board, a pair of L-shaped rods each having a vertical and a horizontal portion; said vertical portions being rotatably journaled in said head board in spaced relationship, and the horizontal portion of each rod being selectively slidable in either end of one of said tubular support members, and means for supporting said frame.

2,712,138

### SHORT RAIL FOR BEDS

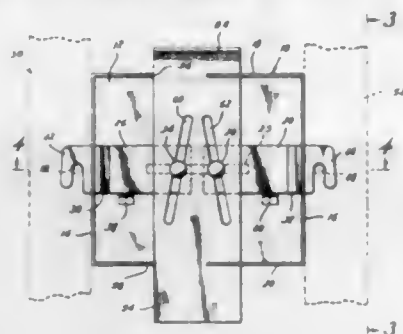
Earl M. Bogar, Jr., Houston, Tex.  
Application December 22, 1952, Serial No. 327,344

4 Claims. (Cl. 5—287)

4. A short rail for beds comprising a tray-like body of generally rectangular shape having a bottom wall and

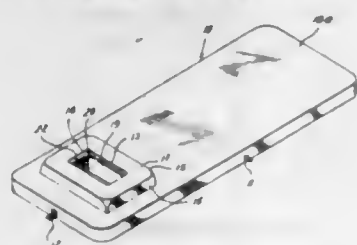


substantially vertical end walls, each of said end walls having a slot therethrough, oppositely movable horizontally disposed arms extending through the slots and slideably carried on the body, each of said arms having a hook portion thereon exteriorly of the body, an operating member mounted on the body for vertical move-



ment thereon and having elongated, longitudinally converging slots therethrough, and means on said arms positioned in slideable engagement with said member in said converging slots to cause said arms to move inwardly of the body upon vertical movement of said member in one direction and outwardly of the body upon vertical movement of said member in the other direction.

**2,712,139**  
**UNDERWATER VIEWING DEVICE**  
Ernest L. Kelly, Houston, Tex.  
Application January 5, 1953, Serial No. 329,627  
5 Claims. (Cl. 9—21)

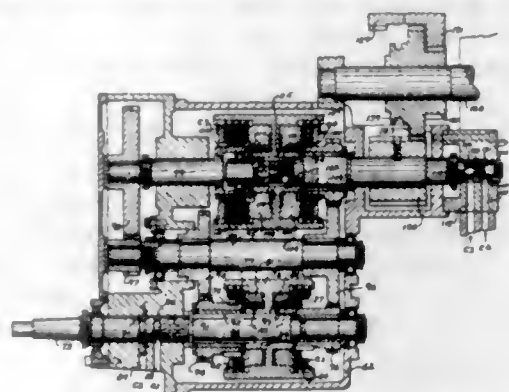


1. An underwater viewing device, comprising, a hollow inflatable casing constructed of flexible material, said casing being shaped when inflated to form a generally flat elongated buoyant platform having upper and lower walls, a viewing well extending downwardly through said platform adjacent one end thereof, said well having a peripheral wall sealed at its ends to the upper and lower walls of said platform, a generally tubular window frame removably mounted in said well, said frame being constructed of relatively rigid material and shaped to fit snugly in said well, a transparent window mounted in said frame and having its periphery sealed with said frame, laterally extending flange means on said frame, recesses in said peripheral wall adapted to receive said flange means to lock said frame in the well, and an upwardly extending collar member constructed of flexible resilient material mounted on the upper wall of said platform surrounding the upper end of said well and adapted to exclude from said well water flowing over the surface of said upper wall.

**2,712,140**  
**MACHINE TOOL WITH TAP SPINDLE DRIVE AND FEED MEANS**  
Myron S. Curtis and Harry Schoepe, Cleveland, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio  
Application December 2, 1950, Serial No. 198,776  
7 Claims. (Cl. 10—139)

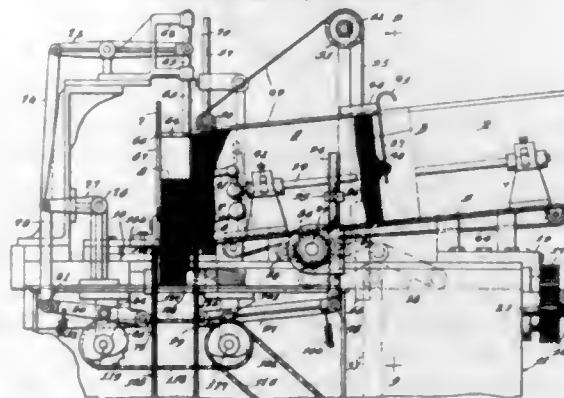
1. In a machine tool having a work spindle, means for rotating said work spindle at different speeds and in opposite directions, a slide, means operatively interconnecting said slide and said spindle for moving said slide at different feeding rates comprising a feed drive shaft

operatively connected to said spindle, a driven shaft, a plurality of drive trains between said feed drive shaft and said driven shaft, the said drive trains including readily removable gears adapted to provide rotation of said driven shaft either in the same direction as that of



the work spindle or in the reverse direction with respect thereto, and individual clutches for selectively connecting the said drive trains with said driven shaft, whereby said slide may be given a feeding movement of desired direction and speed regardless of the direction of rotation of the spindle.

**2,712,141**  
**MACHINE FOR GLUING BOOKS**  
Henry Sieb, Hammond, Ind.  
Application June 5, 1950, Serial No. 166,106  
5 Claims. (Cl. 11—1)

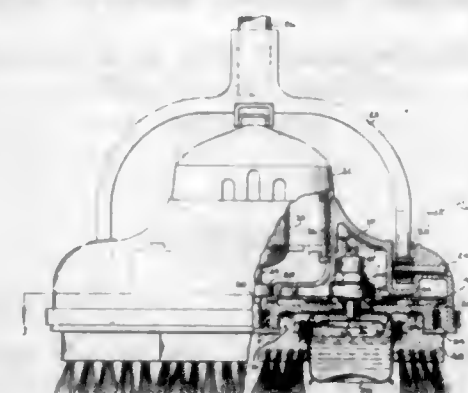


1. In a book handling machine, a stationary support provided with a table and having therein, along one edge of the table, a groove that is a little wider than the thickness of a book to be handled; guides, spaced apart a distance equal to the length of a book and arranged at right angles to the groove, rising from the table; feed mechanism to move books standing on edge on the table between the said guides step by step across the table to the groove; a shoe mounted on the support beside the groove at the level of and movable into and out of the groove to engage the side of a book in the groove and compress it; means to operate the shoe in such time relation to said feed mechanism that it performs a compressing stroke between feeding steps of the latter mechanism; a device movable beside and in the direction of the length of the groove having thereon elements that project across the grooves; and means to drive said device in such time relation with the movements of the shoe that each said element arrives in book-engaging position while the said feed mechanism is stationary and the said shoe is clear of the groove.

**2,712,142**  
**FLOOR WAXING AND POLISHING MACHINE**  
Ernest J. Newcomer, York, Pa.  
Application November 27, 1950, Serial No. 197,727  
1 Claim. (Cl. 15—50)

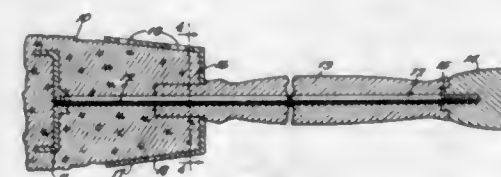
In a waxing machine, a plurality of centrally bearinged brush carriers rotatably supported by a housing in which a motor having a vertical drive shaft is supported, each

of said carriers frictionally engaging at least one other carrier and at least one of said carriers frictionally engaging a pulley mounted on one end of the vertically positioned motor shaft, all of said carriers being rotatably driven, a brush removably affixed to each of said carriers, wax cans having peripheral dispensing openings therein within centrally disposed void spaces in said brushes, spring means urging said wax cans toward said brush



carriers, cams secured to said brush carriers and adapted to rotate therewith, reciprocating plungers extending through the central bearings of said carriers and bearing upon said cans, the reciprocating plungers having transverse pins secured thereto which engage said cams rotated by the carriers, and means for preventing rotation of said plungers, whereby rotation of the said brushes and their cams causes the plungers and wax cans to reciprocate.

**2,712,143**  
**SPONGE CLEANER AND WRINGER**  
Joseph Palma, Jr., Berwyn, and James G. Knapp, Lombard, Ill., assignors, by mesne assignments, to American-Marietta Company, Chicago, Ill., a corporation of Illinois  
Application July 31, 1951, Serial No. 239,582  
2 Claims. (Cl. 15—119)

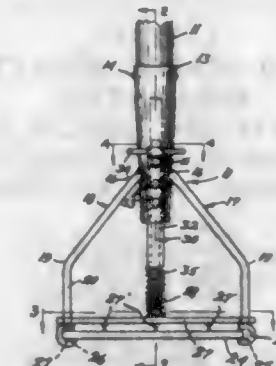


2. A sponge cleaner and wringer, comprising a sponge, a generally frusto-conically shaped wringer providing an end wall at the smaller diameter thereof and receiving the rear portion of said sponge and being substantially filled thereby at least during the wringing of the sponge, the side walls of said wringer being perforated, a handle support for said sponge having a portion thereof slidably mounted in the end wall of said wringer, a retainer plate embedded in the forward portion of said sponge, a rod secured to said retainer plate and being slidably carried by said handle, and means for moving said rod to compress said sponge, said retainer plate and said wringer being movable with respect to each other to effect a compression of said sponge by movement of either said wringer or said rod.

**2,712,144**  
**MANUALLY RELEASABLE MOP HEAD HAVING RESILIENTLY BIASED CLAMPING BARS**  
Frank Dunn, Spokane, Wash.  
Application October 11, 1954, Serial No. 461,327  
4 Claims. (Cl. 15—151)

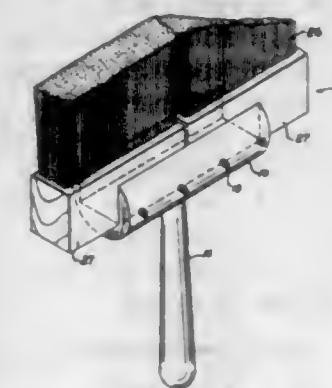
3. In a mop holder having a handle supporting a pair of diametrically opposed downwardly extending diverging frame members; an outer clamp bar extending between said frame members and pivotally connected to the lower end of one frame member for movement in a plane at right angles to the axis of said handle;

the other frame member being provided with a confining recess; the free end of said outer clamp bar having a protuberance for cooperating with said recess to releasably secure said free end to the lower end of the recessed frame member; a resiliently biased inner clamp bar



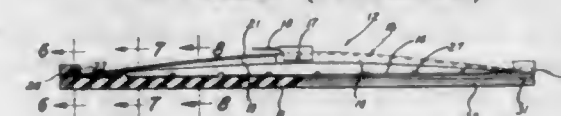
mounted for free reciprocation on said frame members toward and away from said outer clamp bar in parallel relation; and guide means fixed relative to said inner clamp bar and operably associated with said handle to guide said reciprocal movements.

**2,712,145**  
**BRUSH HAVING DETACHABLE SECTIONS**  
Frank Kames, Detroit, Mich.  
Application November 1, 1950, Serial No. 193,482  
1 Claim. (Cl. 15—202)



A plasterer's brush comprising in combination, an elongated holder comprising a horizontally elongated body member formed with a deep slot extending downwardly from the top thereof, said slot further extending for the full length of the body member, the said walls of the slot being straight and parallel to each other, the bottom of the slot being flat and perpendicular to said side walls, a pair of brushes having horizontally elongated heads of rectangular cross section and bristles extending from the top thereof, the major portions of the brush heads slidably fitting in said slot, the overall length of the brush heads being greater than the length of the holder so that the ends of the brush heads project beyond the respective ends of the holder, set screws extending transversely through one side of the holder for engagement with the adjacent sides of the respective brush heads to secure the latter in any longitudinally adjusted position in the holder, and a handle secured at its upper end to the bottom portion of the holder.

**2,712,146**  
**WINDSHIELD WIPER**  
Ralph H. Wise, Wayne, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application June 20, 1951, Serial No. 232,584  
13 Claims. (Cl. 15—245)

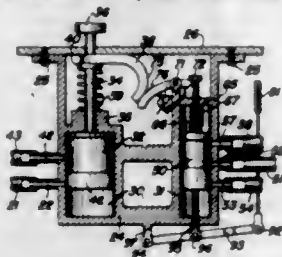


1. A wiper for curved surfaces comprising a longitudinal flexible backing strip, and an elongated blade of elastic



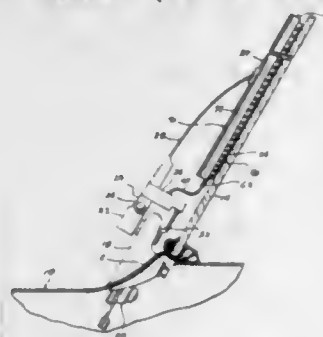
material having interlocking connections to said backing strip at a pair of longitudinally spaced points with said elastic blade between said spaced points being stretched longitudinally to a length greater than its free length.

**2,712,147**  
**WINDSHIELD WIPING AND CLEANING APPARATUS**  
Milo H. Olin, Perry, N. Y.  
Application July 25, 1950, Serial No. 175,739  
10 Claims. (Cl. 15-250.4)



1. The combination in an automotive vehicle of wiper means for wiping the windshield of the vehicle, means for applying a cleaning liquid to the windshield, a source of supply of said cleaning liquid, means for conducting said liquid from said source of supply to said applying means, movable control means controlling actuation of said wiper means, means constantly urging said control means to a position in which said wiper means is inoperative, a valve movably disposed in said conducting means for controlling flow of cleaning liquid to said applying means, means constantly urging said valve to closed position, a single slidable control member reciprocally mounted in the vehicle, and means operatively connecting said control member to both said control means and to said valve to move said control means to a position to render said wiper means operative and to open said valve upon sliding movement of said control member in one direction.

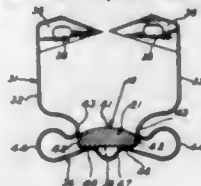
**2,712,148**  
**WINDSHIELD WIPER**  
Lucius M. Cheshire, Hillsboro, N. C.  
Application March 6, 1953, Serial No. 340,765  
3 Claims. (Cl. 15-254)



1. In a windshield wiper, a stationary casing adapted to be mounted upon a vehicle adjacent a windshield of said vehicle; oscillating drive means in said casing; a blade assembly support arm mounted upon the casing and operatively connected to said means for oscillation of said arm through an arcuate path; a secondary casing affixed to said arm for oscillation through an arcuate path therewith; a gear segment rigidly secured to said stationary main casing; a stub shaft journaled in said secondary casing; motion-translating means in the secondary casing extending between the gear segment and said stub shaft, and arranged to impart substantially continuous, unidirectional, rotary movement to the stub shaft on oscillation of the secondary casing through its arcuate path, said second casing traversing the segment during its travel; a blade assembly carried by said arm to oscillate therewith; and a flexible shaft rotated by and extending from said stub shaft, said blade assembly including a rotary blade

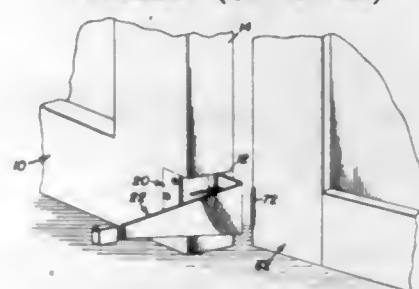
element having a spiralling rib formation thereon secured to the flexible shaft to rotate therewith and having wiping contact with the surface of the windshield.

**2,712,149**  
**DOOR CHECK**  
William J. Harms, Belleville, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application December 8, 1951, Serial No. 260,622  
4 Claims. (Cl. 16-85)



1. A generally rectangular one piece steel checking member for holding a vehicle door in open position and yieldably checking its opening movement, comprising an inwardly dished base portion formed with a pair of spaced inwardly projecting rib portions, generally parallel leg portions extending integrally from opposite ends of said base portion, looped retaining portions extending inwardly from intermediate portions of said parallel leg portions and projecting toward each other and each inclined toward said base portion, and separate co-planar end flanges extending toward each other from the inner ends of said leg portions, said flanges having transversely elongated slots therein to provide an adjustable mounting for said checking member.

**2,712,150**  
**DOOR STOP**  
Fred O. Hodges, Loma Linda, Calif.  
Application January 28, 1952, Serial No. 268,579  
7 Claims. (Cl. 16-86)

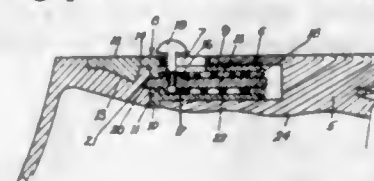


3. For use with a door construction including a door frame having a door mounted therein for swinging movement, one edge of said door being hinged for pivotal movement only, a combined door stop and buffer attachment comprising a hinge plate secured to said door, a member pivotally secured to said hinge plate for movement from a position overlying a free edge of said door opposite from said one edge to a position normal thereto, and a striker plate carried by said door frame for engagement with said member for pivoting same to said overlying position, said member including a flange and an integral arm, a free edge of said flange being hingedly secured to said hinge plate, a free end of said arm having mounted thereon a resilient stop element.

**2,712,151**  
**DETACHABLE HANDLE FOR A UTENSIL**  
Adolph Becht, Erie, Pa.  
Application October 22, 1951, Serial No. 252,487  
3 Claims. (Cl. 16-114)

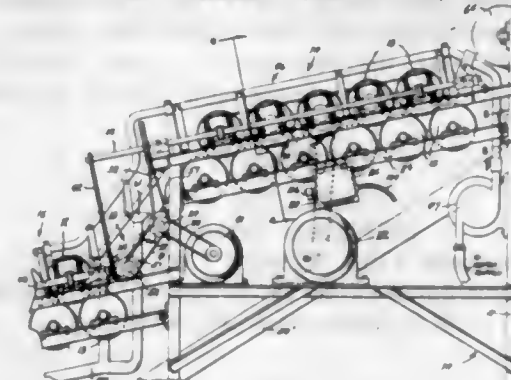
1. In combination, a lug on a cooking utensil having an open top having a transverse cutaway portion forming a transversely extending groove in the top of said lug extending across said lug from edge to edge thereof, said groove terminating at one edge thereof in an up-

wardly and transversely extending portion, a handle having the lower portion of one end thereof cut away to nest said lug on said utensil, said handle having a downwardly extending portion received in said groove and



engaging said upwardly and transversely extending portion, one surface of said cutaway portion on said handle engaging the end of said lug, and means to hold said handle in place on said utensil.

**2,712,152**  
**SHRIMP-PEELING AND CLEANING DEVICE**  
Robert J. Samanie, Houma, La.  
Application July 21, 1952, Serial No. 299,995  
17 Claims. (Cl. 17-2)

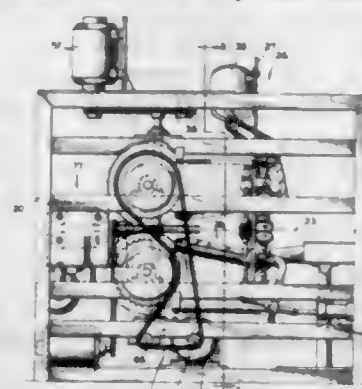


1. A shrimp-peeling and cleaning device comprising a frame, a plurality of tiers of rollers, said tiers being disposed in end-to-end spaced relation with respect to each other and supported on said frame, each of said tiers comprising a first set of rollers disposed in side-by-side relation with respect to each other and mounted on said frame for rotary movement about a transverse axis, and a second set of rollers positioned above and in staggered contacting relation with respect to said first set and mounted for rotary movement about a second transverse axis and for axial reciprocatory movement therealong to thereby loosen the shrimp hulls and heads from the shrimp meat, means operatively connected to said plurality of tiers for effecting the rotary and reciprocatory movements of the rollers of said second set, and means disposed intermediate the spaced ends of said tiers and supported on said frame for separating the shrimp meat from the loosened hulls and heads, said last-named means comprising a high speed roller, and a bucket adjacent said roller for the reception of the lighter heads and hulls thrown outwardly by said high speed roller.

**2,712,153**  
**APPARATUS FOR SECTIONING AND BONING FISH**  
Ralph M. Berglund, Bellingham, Wash., assignor to Pacific Laboratories, Inc., Bellingham, Wash., a corporation of Washington  
Application September 12, 1951, Serial No. 246,287  
18 Claims. (Cl. 17-4)

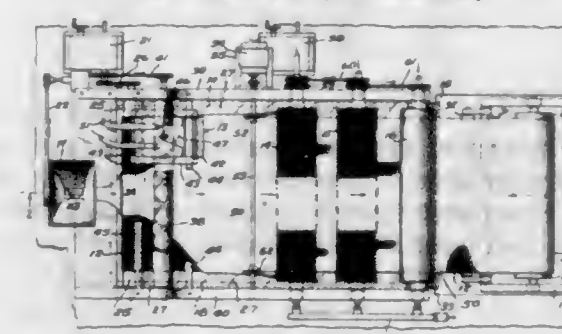
15. Apparatus for sectioning and boning fish comprising a frame, a plurality of cutting members mounted in said frame radially of a linear path, a plurality of elongated feed members mounted in said frame and arranged radially of said path with outfeed ends thereof adjacent said cutting members, said feed members being pivotally mounted relative to said path adjacent their infeed ends, means linking said feed members whereby they pivot in unison, a rotary coring tool mounted in said frame in alignment with said path adjacent the out-

feed side of said cutting members, and backbone extracting mechanism mounted in said frame in alignment with the outfeed end of said coring tool, said extracting mechanism including elongated endless feed elements disposed on opposite sides of said path, means for driving said feed elements whereby the inner flights there-



of travel in the feed direction, backbone engaging teeth extending outwardly from said feed elements in non-meshing relationship, one of said feed elements being pivotally mounted relative to said path adjacent its outfeed end, and means resiliently urging the infeed end of said pivotally mounted feed element inwardly toward said path.

**2,712,154**  
**APPARATUS FOR CONTINUOUS PRODUCTION OF ARTIFICIAL SPONGE CLOTH**  
Curt A. J. Lindquist, Norrkoping, Sweden, assignor to Aktiebolaget Celloplast, Norrkoping, Sweden, a corporation of Sweden  
Application April 23, 1952, Serial No. 283,869  
10 Claims. (Cl. 18-15)



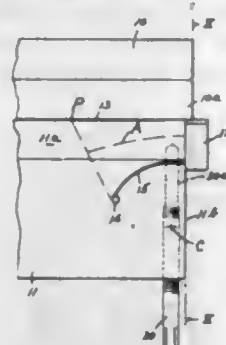
1. An apparatus for producing a continuous sheet of absorbing material comprising an endless belt, means to drive the belt, extruding means for depositing a stream of material on to the belt which is substantially narrower than the belt, a transversely reciprocatory spreader disposed over the belt immediately in front of the extruding means and having its leading end spaced from the belt by the thickness of the sheet to be produced, means for reciprocating the spreader, a coagulating bath, means for guiding the belt through the bath, a roller having an annularly grooved surface disposed transversely over the belt between the extruding means and the bath and spaced with the bottoms of the grooves substantially the thickness of the sheet from the belt, and means to rotate the roller in the direction of movement of the belt at a peripheral speed exceeding the speed of the belt.

**2,712,155**  
**BEAD CONTROL APPARATUS FOR SHEET EXTRUDERS**  
Seddon C. Nelson, Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware  
Application August 31, 1953, Serial No. 377,384  
10 Claims. (Cl. 18-15)

1. An extrusion nozzle assembly for forming sheet-like material comprising a relatively fixed nozzle blade, an adjustable nozzle blade secured in close spaced rela-



tion to said fixed blade and forming an extrusion slot therebetween, walls defining a kerf adjacent the terminus of said adjustable blade, and means for flexing the



terminal end of said blade on one side of said kerf with respect to the body of the blade on the other side of said kerf.

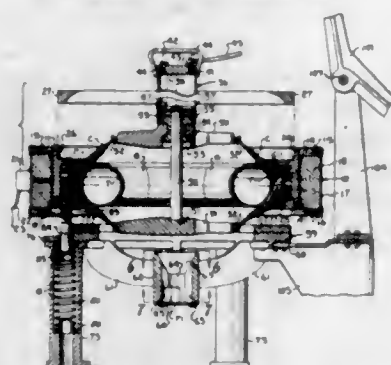
2,712,156

#### TIRE RETREADING APPARATUS

Harris E. Potter, Zeb Mattox, and James Ormand Mattox, Charlotte, N. C., assignors, by direct and mesne assignments, to Precision Recapping Equipment Company, a corporation of Georgia

Application October 11, 1952, Serial No. 314,366

1 Claim. (Cl. 18-18)



In a tire recapping apparatus having a base upon which an annular mold matrix provided with an annular shoulder on the lower end thereof is adapted to be positioned, the base of said machine also having an annular portion thereon of slightly less external diameter than the inner diameter of said shoulder and a clamping member disposed above said base adapted to be lowered to clamp the matrix against said base; the combination of a plurality of vertically movable circularly arranged lifting plungers carried by said base, the outer surfaces of said plungers being collectively concentric with the annular portion on the base and collectively arranged in such circular relationship as to engage the inner periphery of the annular shoulder on the matrix, and spring means normally urging said plungers upwardly to where the upper ends thereof are spaced substantially above the base for normally supporting said matrix in spaced relation above the base whereby the annular shoulder on the matrix is maintained concentric with the annular portion on the base as it engages the outer surfaces of the upper portions of the plungers so that, as the clamping member is lowered, the annular shoulder will be concentrically guided so as to concentrically encircle the periphery of the annular portion of the base.

2,712,157

#### METHOD AND APPARATUS FOR FORMING CORRUGATED TUBING

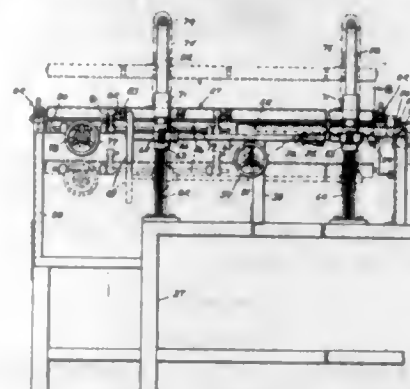
Paul C. Holte, Weymouth, Mass., assignor to Berns Manufacturing Corporation, Boston, Mass., a corporation of Massachusetts

Application May 22, 1952, Serial No. 289,318

12 Claims. (Cl. 18-19)

2. In apparatus for use in forming corrugated rubber tubing, a mandrel to support a length of crude rubber

tubing, a pair of vises, each to seal an end of said tubing to said mandrel, means to introduce air under pressure to the inner surface of said tubing, die sections to be closed around the supported tubing and including portions equally spaced relative to the axis of said mandrel and annularly engaging said tubing to restrict its expansion



when said tubing is subjected to inflating pressures thereby to partially form pleats in the tubing intermediate said portions, and one of said vises being axially slidable, when said die sections are open, towards the other vise thereby to compress said tubing to complete said pleats.

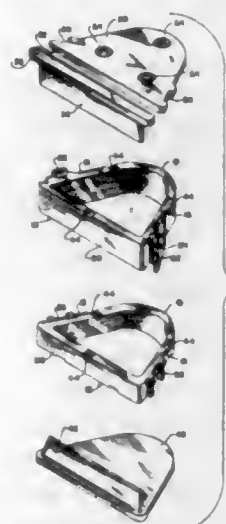
2,712,158

#### DENTAL FLASK

Honorato Villa, Mexico City, Mexico

Application January 6, 1954, Serial No. 402,457

8 Claims. (Cl. 18-33)



1. A dental flask unit comprising in combination interfitting flask sections each having opposed side walls connected by another wall, top and bottom cover plates therefor, and filler block means insertable within and across said flask sections between the opposed side walls thereof and adjacent said connecting wall prior to molding within said sections a denture invested in cast plaster, said filler block means being removable therefrom after said plaster cast has hardened to provide a space within said flask sections adjacent said connecting wall of each and extending entirely across said sections between said opposed side walls thereof and into which space said plaster cast may be moved relative to said side walls of said sections to separate the cast quickly from said flask sections.

2,712,159

#### METHOD AND DEVICE FOR MANUFACTURING ARTICLES OF LATEX RUBBER MATERIAL PROVIDED WITH OPENINGS

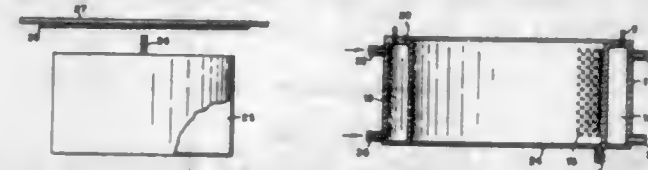
Jacob ter Marsch, The Hague, Netherlands

Application December 28, 1950, Serial No. 203,176

6 Claims. (Cl. 18-42)

3. Molding apparatus for the manufacture of a thin perforated rubber article, comprising a substantially cylindrical inner mold section, a cooperating substantially

cylindrical outer mold section, studs provided on at least one of said mold sections, said studs being sufficiently long to make intimate contact with the other mold section upon closure of the two sections, and the closed



mold sections forming a cavity therebetween and between the studs making intimate contact with the opposite mold section, means for introducing rubber latex into said cavity and means for evacuating air therefrom.

2,712,160

#### METHOD OF MAKING INDIVIDUAL BOWLING BALL GRIPS

Walter L. Sterczek, Chicago, Ill.

Application February 21, 1951, Serial No. 212,076

1 Claim. (Cl. 18-55.05)



The hereindescribed method of making an individual bowling ball grip which includes, forming a body having a spherical contour conforming to the curvature of a bowling ball, forming at least two cavities in the body to receive the thumb and at least one finger of the individual for whom the grip is to be made, introducing a flowable, shape retaining substance into the cavities, introducing the thumb and at least one finger of the individual into the flowable, shape retaining substance to form an impression thereof in said substance, removing the thumb and finger or fingers, pouring a low melting point material in the impressions to produce a cast of the thumb and finger or fingers, introducing the cast thus formed into a mold, filling the mold with ball forming material, forming a ball in the mold about the cast, melting the cast to leave cavities in the ball conforming to the size and shape of the thumb and fingers of which the cast was made and finishing the ball.

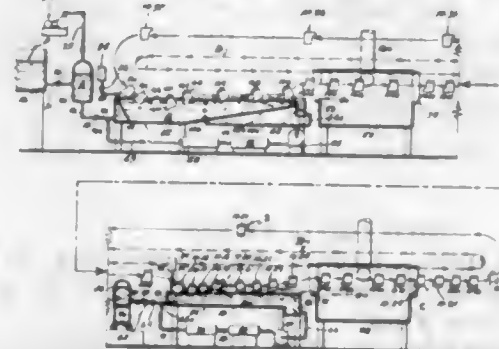
2,712,161

#### METHOD OF FORMING DIPPED ARTICLES

Frank J. Moss, Sunland, Calif., assignor to Rena Bell Hardman, West Los Angeles, Calif.

Application August 10, 1951, Serial No. 241,218

5 Claims. (Cl. 18-58.7)



1. The method of continuously forming hollow one-piece articles that comprises: moving a mandrel longitudinally through a bath of heat curable resinous dispersion to dip said mandrel to the desired depth; withdrawing said mandrel from said bath at a rate of such magnitude as to deposit a film of said dispersion of the desired thickness on said mandrel; subjecting said man-

drel and film deposited thereon to an elevated temperature to form a dried skin on the exterior surface of said film substantially as said film is removed from said bath, said skin having sufficient tensile strength to maintain the dispersion forming said film in a relatively fixed position relative to said mandrel until said film solidifies due to said elevated temperature; continuously circulating said bath at a rate substantially the same as the rate of longitudinal movement of said mandrels to minimize disturbance of said film as said mandrel is withdrawn from said bath; subjecting said film and mandrel to sufficient heat to further cure said film; and stripping said cured film from said mandrel.

2,712,162

#### FIBER CONVEYER AND CLEANER

Ray C. Young and Ralph A. Rusca, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

Application July 24, 1951, Serial No. 238,364

1 Claim. (Cl. 19-78)

(Granted under Title 35, U. S. Code (1952), sec. 266)



A conveyor for transporting staple textile fibers comprising an endless flexible strip bearing a series of substantially rigid and upwardly extending projections, which projections have a diameter of about  $\frac{3}{4}$  inch, have an upper surface area not sufficiently large to undesirably restrict the passage of trash therebetween, project about  $\frac{3}{8}$  inch above the strip to support substantially all of the fibers above the surface of the strip, project at an angle of about  $80^\circ$  to the surface of the strip at a slant away from the direction in which the strip moves to avoid entanglement of the fibers between them, and are spaced about  $\frac{1}{4}$  inch apart to allow non-fibrous material to fall between them.

2,712,163

#### COMBING MACHINE

Carlo Schleifer, Milan, Italy

Application May 25, 1954, Serial No. 432,190

Claims priority, application Italy May 28, 1953

8 Claims. (Cl. 19-116)



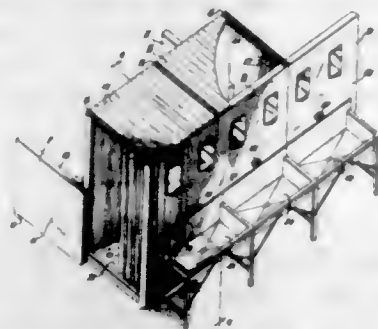
1. In a combing machine of the type specified, detaching roller driving mechanism comprising a driving shaft and a control shaft, cam means on the driving shaft, cam means on the control shaft, a notched wheel coupled for rotation with said detaching roller, a rocking pawl actuated from said first named cam means for rotating said wheel, a stop lever actuated from said second named cam means for stopping the wheel, and connecting means between the lever and pawl controlling the engagement between the wheel and pawl.



# 2,712,164 SHIPPING CRATE FOR LATRINE FIXTURES CONVERTIBLE INTO COMPLEMENTARY LATRINE STRUCTURE

Frederick T. Sheffield, Alexandria, Va., assignor to Wm. H. Singleton Co., Inc., Arlington, Va., a corporation of Virginia

Application February 3, 1953, Serial No. 334,852  
5 Claims. (Cl. 20-2)

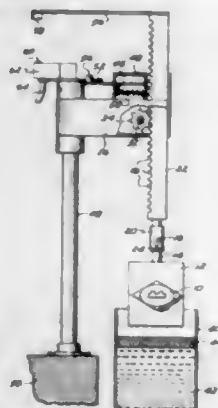


1. In a demountable shipping crate for latrine fixtures convertible into latrine structure complementary to said fixtures, the components of which crate comprise an intact intermediate section consisting of congruent, spaced opposite side panels, a top panel and a bottom panel bridging said side panels and secured thereto, a single unit end panel closing one end of said intermediate section, an end panel closing the opposite end of said intermediate section transversely divided into two end sections of the same size and shape, said side panels, single unit end panel and said end sections each comprising a peripheral frame on the outside consisting of top, bottom and side members, said frame members being of rectangular cross-section, said frames being sheathed on their inner sides, the side frame members at one side of each of said end sections being coextensive in width with the face which they overlie of the adjacent side frame member of the adjacent side panel, said single unit end panel and said end sections being detachably secured to said intermediate section by bolts through registering bolt holes in said end panel and end sections and in said adjacent side frame members of the side panels, the transversely corresponding bolt holes in each of said end sections being equally spaced from the bottoms of the respective sections, and pattern of spacing being identical in each section and being identical with the pattern of spacing of the bolt holes in the lower half of the single unit end panel.

# 2,712,165 MOLD BAKING METHODS

Walter H. Dunn, San Diego, and Conrad C. Wissman, Whittier, Calif., assignors to Solar Aircraft Company, San Diego, Calif., a corporation of California

Application November 28, 1951, Serial No. 258,680  
4 Claims. (Cl. 22-192)



1. A method of baking an uncured shell mold attached to a pattern and formed of a thermal setting plastic and a refractory filler, said method comprising the steps of submerging said uncured shell mold and pattern in a bath of molten metal which is at least substantially free of the influence of external pressure other than atmospheric

pressure, maintaining the mold and pattern in the bath for a period during which said mold is directly subjected to the hydrostatic pressure of said bath sufficient to conform said mold to said pattern and heated to set the plastic thereof, withdrawing the mold and pattern from the bath and removing the resulting baked shell mold from the pattern.

# 2,712,166 METHOD OF MAKING BRONZE BACKED, CAST BABBITT LINED BEARINGS

James B. Mohler, New Castle, Pa., assignor to Johnson Bronze Company, New Castle, Pa., a corporation of Pennsylvania

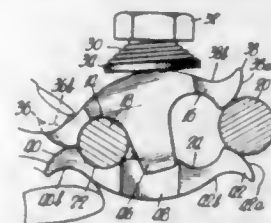
No Drawing. Application April 12, 1954,  
Serial No. 422,663  
6 Claims. (Cl. 22-204)

1. The method of making bronze backed, cast babbitt lined bearings, which comprises electrodepositing a thin barrier layer of metal of the group consisting of nickel, cobalt and iron on a bronze backing, and casting molten lead base, tin-containing Babbitt metal on said barrier layer to form a bearing lining.

# 2,712,167 PARALLEL CABLE CLAMP

Albert Edward Blanchard, New Hyde Park, N. Y., assignor to Burndy Engineering Co. Inc., a corporation of New York

Application March 7, 1951, Serial No. 214,379  
1 Claim. (Cl. 24-81)



A connector for securing a plurality of cables, comprising a pair of complementary clamping members, each having a pair of opposing seat portions to accommodate the cables to be positioned therein; a bolt positioned centrally of the clamping members and extending through one member into the other member for securing the members together with an elongated recess for the bolt in the one member to permit said member to be tilted with respect to the other member, one of said clamping members having integrally extending arm portions on the two end faces longitudinally positioned with respect to the seat portions, the other of said clamping members having recesses for receiving said arm portions on the corresponding two end faces for keeping the two clamping members in aligned position when the clamping members are open for receiving the cables, and a spiral spring having a flat supporting section positioned between the head of the bolt and the adjacent clamping member for urging the said clamping member towards the other clamping member.

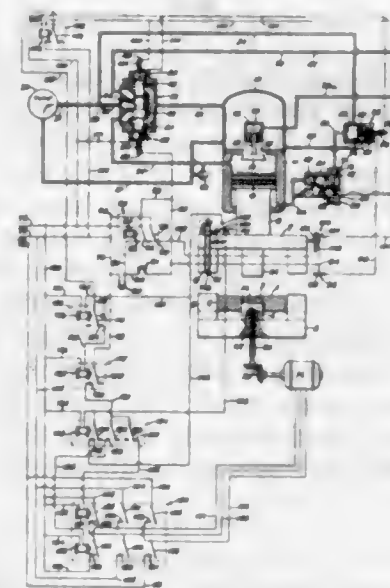
# 2,712,168 MOLDING PRESS

Frederick J. Kenline, Buffalo, N. Y., assignor to Lake Erie Engineering Corporation, Buffalo, N. Y., a corporation of New York

Application May 24, 1952, Serial No. 289,741  
13 Claims. (Cl. 25-45)

1. In a molding press having a mold and a top plunger and a bottom plunger cooperating with said mold and forming a top and a bottom respectively therefor, and dimensional stops moving with said plungers for controlling the minimum spacing therebetween, said press having an operating cycle including a mold filling phase during which the mold is filled with material, a pressing

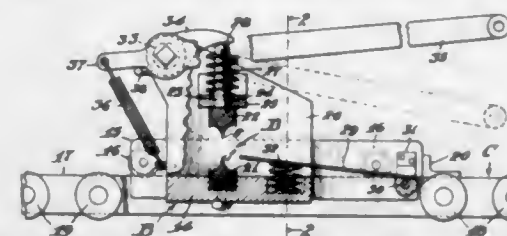
phase during which at least one of said plungers moves relative to the other to compress the material and a press opening phase during which said plungers move away from each other; the combination therewith of means for automatically adjusting the depth of fill of the mold, which comprises an electrical control system responsive to the spacing of said dimensional stops at the end of the pressing phase in one operating cycle for adjusting the relative position of said bottom plunger with respect to said mold during the mold filling phase of the next succeeding operating cycle, said electrical control system comprising electromotivated means including a reversible motor, a reversing line starter for said reversible motor and having a decrease winding and an increase winding one side of each of which is connected to an electrical supply line, a control relay having a pair of



normally closed contacts in circuit with the other side of said decrease winding and a pair of normally open contacts in circuit with the other side of said increase winding, timer means arranged to connect that contact of each of said pairs thereof remote from the respective winding with another electrical supply line for a predetermined period of time during the press opening phase of one operating cycle whereby a closed circuit is established through one of said windings, and normally open switch means arranged in the energization circuit of said control relay and responsive to the spacing of said dimensional stops at the end of the pressing phase of said one operating cycle for controlling the energization of said control relay so as to permit, during the press opening phase of said one operating cycle, energization of said decrease winding when said switch means remain open and energization of said increase winding when said switch means are closed.

# 2,712,169 MACHINE FOR SEVERING A RIBBON OF PLASTERBOARD TO FORM PLASTERBOARD PANELS AND FINISHING THE ENDS OF THE PANELS

George A. Buttress, Los Angeles, Calif.  
Application August 3, 1951, Serial No. 240,241  
6 Claims. (Cl. 25-107)



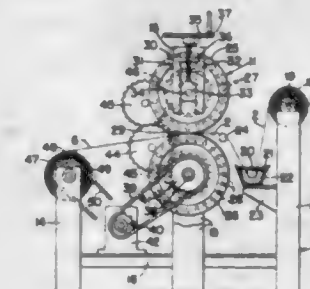
6. In a machine for severing a ribbon of plasterboard of the type embodying a layer of plaster interposed between and covered by paper facing sheets to form plasterboard panels in finishing the ends of the panels at a stage in the manufacture thereof when the plaster layer is soft

and wet and the facing sheets are moist, a pair of superimposed die members having opposed blades formed with pinch-off edges and convex molding and paper pressing faces on opposite sides of said blades, and paper rupturing blades on opposite sides of said die members at the base of said curved faces with the edges of the rupturing blades on one of the die members aligned with the edges of the rupturing blades on the other die member, and means for actuating one of said die members relative to the other.

# 2,712,170 TREATMENT OF TEXTILE FABRICS

John K. Phillips, Peninsula, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

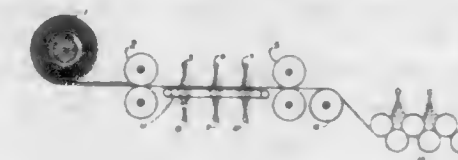
Application September 6, 1952, Serial No. 308,223  
10 Claims. (Cl. 26-1)



1. In the treatment of fabric having a multiplicity of interstices in the weave, the process of steam blasting the fabric to reduce the gauge and lower the porosity thereof which comprises the steps of saturating the yarns of which the fabric is formed with a liquid which volatilizes at a temperature lower than that at which a deleterious effect is produced upon the yarns themselves, whereby the liquid is dispersed between the component filaments of each of the yarns in the fabric in order to saturate the same; passing the saturated fabric between confining structures which are spaced apart to a predetermined gauge and which are heated to a temperature in excess of the boiling point of the liquid saturant, whereby the liquid in the individual yarns of the fabric is volatilized substantially instantaneously; and constraining the fabric between said spaced-apart confining structures in a direction normal to the plane of the fabric concomitantly with the heating step, whereby the volatilization of the liquid in the yarns exerts a vapor pressure within the yarns of the fabric which spreads the filaments in the yarns causing them to substantially fill the interstices in the weave of the fabric.

# 2,712,171 METHOD OF MANUFACTURING WOOL FELT

Manfred Turner Hoffman, Newburyport, Mass.  
Application May 26, 1952, Serial No. 290,038  
3 Claims. (Cl. 28-72.3)



1. The method of producing wool felt comprising the steps of condensing a batt consisting of a plurality of superimposed webs of wool fibers, of feeding said condensed but substantially unhardened batt successively through a plurality of zones wherein pressure and rubbing action are simultaneously applied to said batt, of subjecting said batt to the joint action of water, steam

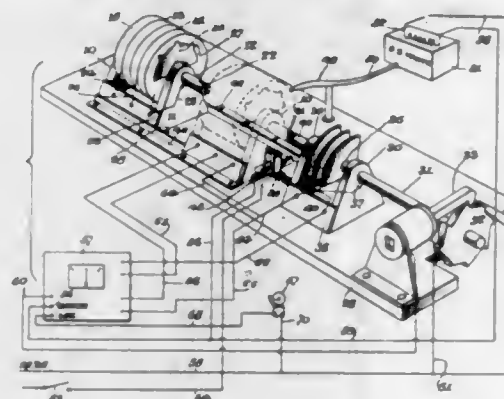


and a cleaning fluid while in transition between said plurality of zones to effect simultaneously hardening, fulling and cleaning of said batt when fed through said plurality of zones, and of continuing to feed said batt successively through said plurality of zones until said batt is converted into a substantially clean and uniform length of felt.

2,712,172

# METHOD AND APPARATUS FOR MAKING VARIABLE CAPACITORS

Jack E. Bayha, South Ozone Park, N. Y., assignor to Emerson Radio and Phonograph Corporation, New York, N. Y., a corporation of New York  
Application August 24, 1953, Serial No. 376,180  
9 Claims. (Cl. 29-25.41)

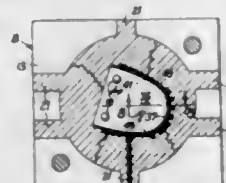


1. The method of manufacturing ganged variable capacitors having ceramic dielectric with capacitive areas printed thereon, which comprises, printing at least one of the ganged capacitors with radially extending conductive areas projecting beyond the normal outlines thereof, electrically comparing the capacity of said one capacitor with the capacity of other capacitors of the gang, and abrading away said projections until the compared capacities have a desired relationship.

2,712,173

# METHOD OF MAKING FINGER RINGS

Clifford W. Denner, Jennings, Mo.  
Application May 6, 1954, Serial No. 428,065  
4 Claims. (Cl. 29-160.6)



3. The method of rebuilding a wedding band into a different style ring comprising the steps of turning the band to make it of uniform cross section throughout its extent, forming a master mold having a cavity therein, a portion of the periphery of the cavity being of U-shape and having a form corresponding to said style, inserting a core in the mold having an integral ridge around its rim with the ridge spaced from said portion of the periphery of the cavity, the cross section of the ridge corresponding to the cross section of the turned band, casting a wax pattern in the mold cavity around the core, said pattern having an inside groove corresponding to the ridge, forming an investment mold around the wax pattern, melting the wax from the investment mold, casting a U-shaped metal shell in the investment mold, said shell incorporating said style and having a groove on the inside corresponding to the ridge, splitting the turned band and bending it to U-shape corresponding to the shape of the shell, fitting the band in the groove in the shell and bonding it to the shell in the groove, and bending the resultant shell-band assembly to ring shape and bonding its ends together.

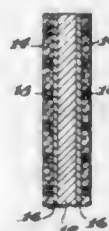
2,712,174

# METHOD OF MAKING A PROTECTED METAL ARTICLE

Dean S. Hubbell, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania

Original application September 9, 1950, Serial No. 184,059, now Patent No. 2,668,348, dated February 9, 1954. Divided and this application October 9, 1951, Serial No. 250,426

3 Claims. (Cl. 29-473.1)



1. The method of making a protected metal sheet for building purposes which consists in applying to the surface of a laminable fibrous web a plurality of uniformly spaced, individual droplets of a liquid, high-strength saturant; then simultaneously applying heat and pressure to opposite sides of said web thereby driving said saturant through the entire thickness of said web to form individual spots of high-strength saturant binding the fibers of said web against delamination, while maintaining the spacing of said individual spots so that the combined areas of said spots constitute only a small fraction of the total area of said web; and then adhesively affixing the spot saturated web to a metal sheet by a metal adhesive.

2,712,175

# PROCESS OF BRAZING WITH COPPER-BASE ALLOY

Louis E. Stark, Grand Island, N. Y., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application April 21, 1952,

Serial No. 283,515

2 Claims. (Cl. 29-504)

1. In the process of brazing by depositing a copper base alloy on a metallic article, the step which consists in melting in an inert shielding atmosphere an alloy containing 25% to 35% manganese; 1.0% to 10% aluminum; 0.1% to 2% silicon; the remainder copper and incidental impurities.

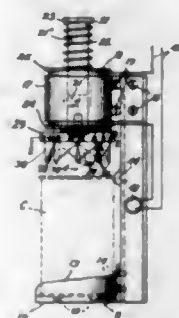
2,712,176

# CAN OPENER

Kenneth F. Miller and George Delaney, Palouse, Wash.; said Miller assignor to said Delaney

Application September 3, 1954, Serial No. 454,021

6 Claims. (Cl. 30-4)



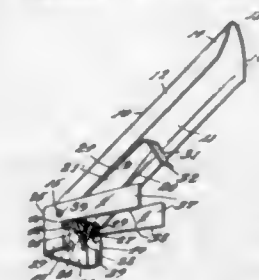
1. A can opener comprising a vertically reciprocal solenoid actuable normally raised plunger angular in cross section; an angular sleeve reciprocally containing said plunger for precluding axial rotation thereof and having an outstanding flange at its lower end; a solenoid coil encircling said sleeve for actuating said plunger; a horizontally disposed annular disc carried by said plunger at its lower end; said disc having an annular groove in its lower face for receiving the tangs of cutting blades

and a number of apertures vertically disposed in said disc within said groove; depending fingers carried by said flange and commensurate in number with said apertures and axially aligned therewith for movement therethrough, whereby a can lid may be ejected from said opener; a plurality of cutting blades having tangs disposed in said groove and downwardly angled cutting edges having points overlapping the adjacent edges of contiguous blades; a plurality of radially disposed set bolts threadedly extending through the peripheral face of said disc and into said groove and releasably securing the blades therein; a standard supporting said can opener; and a can supporting base for positioning a can under said disc to be opened by said blades upon actuation of said solenoid.

2,712,177

# CAN OPENERS

David M. Bauer, Norristown, Pa.  
Application November 12, 1953, Serial No. 391,515  
5 Claims. (Cl. 30-6.1)



1. A can opener comprising a can engaging member having spaced downwardly extending abutments for engagement with the side wall of the can, a lever having a flat central portion and downwardly extending side flanges, said lever being pivotally connected to said can engaging member by a horizontally disposed pivot pin extending through said side flanges, a one-piece cutter member having a forwardly disposed cutter with upwardly diverging cutter edges extending upwardly from the terminal end and with an intermediate offset portion between said edges for forcing the rim of the can outwardly to provide a spout, a flat central section, and a rearwardly disposed can vent puncturing cutter, said cutter member having a portion between said cutter and said central section extending around said pin, and fastening means connecting said central portion and said central section.

2,712,178

# SAFETY RAZOR HAVING FLEXIBLE BLADE

Arnaldo Marzio, Milan, Italy  
Application August 10, 1949, Serial No. 109,499  
1 Claim. (Cl. 30-73)

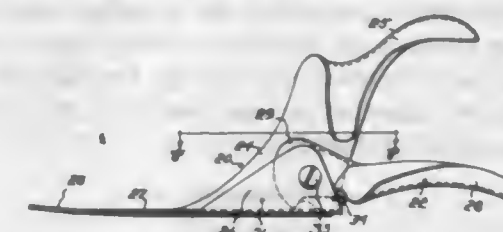


In a safety razor, in combination, a supporting plate having a continuous transversely curved main portion and an edge formed with a plurality of spaced recesses adapted to support a flexible blade with its cutting edge located in the region of said spaced recesses; and a transversely curved clamping plate superimposed on said supporting plate, said clamping plate being substantially parallel with said supporting plate for pressing the main portion of a blade against said main portion of said supporting plate, and having an edge formed with a plurality of spaced projections having tips spaced a substantial distance inwardly from said edge of said supporting plate and of said blade, thereby leaving exposed a large portion of said blade in the region of said cutting edge thereof so that at least said large portion of said blade may vibrate freely during operation.

2,712,179

# MOTION TRANSMITTING DEVICE

Glenn C. Henry, Otisfield, Maine  
Application April 30, 1954, Serial No. 426,672  
15 Claims. (Cl. 30-248)



7. In a cutting device, a first member including a blade and a handle, a second member including a second handle, a third member including a second blade, and pivot means interconnecting each member to the others, the axes of said pivot means approximately intersecting at a common point, the pivot means between said first and third members comprising a pin carried by one of them and the other member having a slot freely receiving said pin and approximately parallel to the cutting edge of its blade.

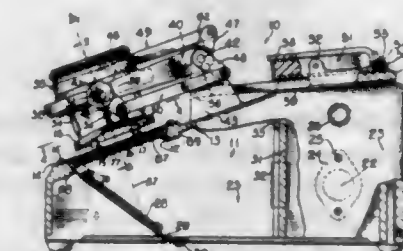
2,712,180

# MULTIFOCAL LENS MARKING DEVICE

Irving B. Lueck, Perinton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

Application September 13, 1952, Serial No. 309,423

5 Claims. (Cl. 33-174)



1. In a multifocal lens marking device having a housing with an opening in the top thereof, means for supporting a lens over the opening, a lens marking device mounted on the housing, and a source of diffused light in the housing, the combination of indicia carried at one edge of the opening, a transparent gauge plate mounted in the housing below the opening, a mirror mounted below the gauge plate in optical alignment with the light source, said gauge plate and mirror each having calibrations in optical alignment along a line perpendicular to the gauge plate, said gauge plate being movable to selectively align the calibrations on the gauge plate with the spaced indicia carried at the edge of the opening whereby a multifocal lens supported over the opening may be aligned with preselected calibrations on the gauge plate and marked with the marking device.

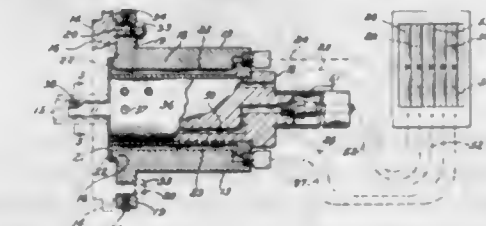
2,712,181

# PNEUMATIC CONCENTRICITY GAUGE

Raymond A. Mahlmeister, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Application May 19, 1951, Serial No. 227,138

5 Claims. (Cl. 33-181)



1. Gauging apparatus of the character described comprising a gauging spindle having a movable work con-

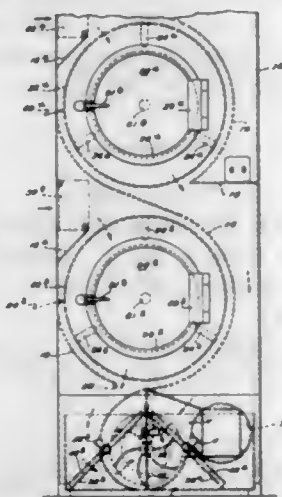


tacting finger, an air jet on said spindle controlled by said finger, indicating means operable in accordance with the amount of air flow through said jet, a spindle housing slidably guiding said spindle for axial movement therein, means for connecting the housing to a part to be gauged, means for centering the housing with respect to an annular surface on the part to be gauged and including spaced air jets positioned in the housing to discharge air against said annular surface, and indicating means controlled by said spaced air jets.

2,712,182

## DRYING MECHANISM

Joseph E. Vettori, New Bedford, Mass., assignor to Hoyt Manufacturing Corporation, Westport, Mass., a corporation of Massachusetts  
Application February 13, 1953, Serial No. 336,678  
5 Claims. (Cl. 34-82)

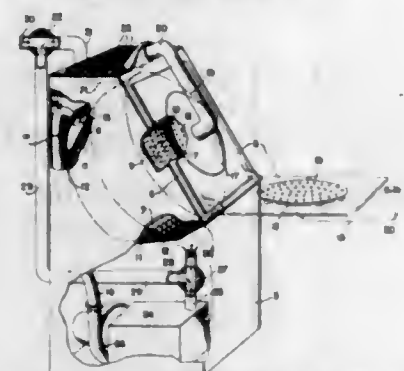


1. A clothes drier unit comprising a casing defining an interior chamber, a baffle dividing said chamber into a pair of separate compartments, a perforate tumbler drum adapted to contain clothes rotatably mounted in each compartment, an air heating unit mounted in each compartment, an air inlet leading from the outside of said casing to each heating unit, each compartment having an exhaust opening, said casing providing a lint collecting chamber, an exhaust conduit connecting each exhaust opening to said lint collecting chamber, a partition dividing said lint collecting chamber into two sub-chambers, a lint collector disposed in the outlet of each of said conduits, and a common exhaust fan adjacent the end of said partition and extending on both sides thereof for drawing air simultaneously from both of said sub-chambers and through said separate compartments.

2,712,183

## CLOTHES DRYERS

John P. Jorgenson, Wilmette, Ill.  
Application November 15, 1952, Serial No. 320,700  
9 Claims. (Cl. 34-131)

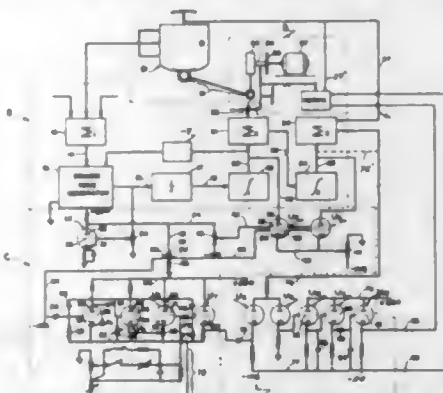


1. In a clothes dryer: a stationary casing, a perforated circular basket rotatably mounted in said casing on an axis which is at an angle of less than 90 degrees from the vertical, said basket having an open front end which faces angularly upwardly, having a rear end wall, and having a frusto-conical side wall portion connected to said rear

end wall; said casing having a relatively large front opening aligned with the open end of said basket, said casing also having an air inlet opening above and adjacent that portion of said frusto-conical wall portion of the basket which is near the rear end wall of the basket; a door normally closing said relatively large casing opening, said door having an exhaust opening therein; and means for introducing drying air into said casing through said air inlet opening, whereby said drying air flows forwardly and at an angle downwardly through said basket toward and through said exhaust opening.

2,712,184

ELECTRICAL ANALOGUE TRAINING DEVICE  
Herbert Ziebolz, Chicago, Mark E. Campbell, Park Forest, and John A. Baring, Evanston, Ill., assignors to Askania Regulator Company, a corporation of Illinois  
Application December 31, 1949, Serial No. 136,272  
16 Claims. (Cl. 35-10)

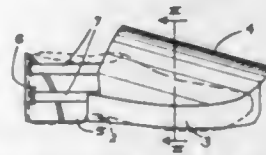


1. An apparatus for gaining training in the control of a plant comprising, in combination, a mock-up of the plant; a simulator of the dynamic operation of the plant, in respect of at least one attitude, adapted to have fed into it and be subject to the same values of current attitudes, factors and forces as the plant and functioning when so conditioned to simulate operation of the plant during a given program period, said simulator operating on a time scale accelerated with respect to the time scale of operation of the plant and of said mock-up, triggering means interconnected with said simulator to initiate operation of said simulating means to initiate a program period and to remove residual values upon termination of a program period, means obtaining from said simulating means the value of the attitude at some predetermined point of time during the program period and translating the same to a signal employable on the time scale of operation of said mock-up, and a variable drive for said mock-up including means adapted to receive and to be responsive to said signal, said variable drive operating when under the control of said signal only so to drive said mock-up as to cause the same to exhibit the same value of the attitude experienced in the simulated operation when the predetermined point of time is reached on the time scale of operation of said mock-up.

2,712,185

## SAFETY PROTECTOR FOR SHOES

Francis J. Corrigan, Kutztown, Pa.  
Application February 7, 1955, Serial No. 486,436  
5 Claims. (Cl. 36-72)



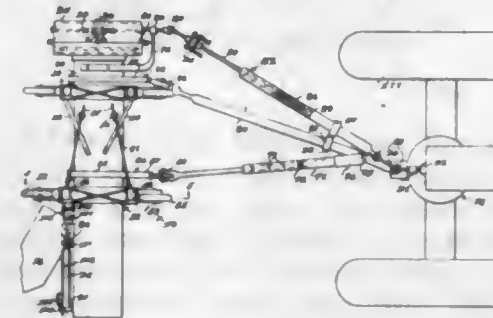
1. A safety protector for shoes, comprising a side guard of yieldable material for snugly embracing the perimeter of the sole of the shoe, said guard having horizontal grooves extending along the inner side wall

thereof, and a curved secondary guard of rigid material for overhanging the instep of the shoe and having laterally extending projections along the perimeter thereof which fit into said grooves and serve as the sole bearing means to support said secondary guard, whereby shocks from objects falling on said secondary guard will be transferred directly to said outer guard and onto the walking surface.

2,712,186

## SCREW-TYPE DITCH CUTTING AND CLEANING MACHINE

Albert Focher, Ballantine, Mont.  
Application November 13, 1951, Serial No. 255,963  
7 Claims. (Cl. 37-81)



1. A ditch cleaning and cutting machine comprising an elongated substantially cylindrical casing having a downwardly and forwardly opening slot formed in the bottom portion thereof, a driven screw conveyor and auger having a plurality of convolutions journaled in said casing and having a portion of each convolution thereof projecting downwardly from the casing through its slotted bottom, adjustable draft means pivotally connected to and extending forwardly from the casing and adapted to be coupled to a draft vehicle for pulling the ditcher behind the draft vehicle and for maintaining the casing with its longitudinal axis substantially crosswise to the longitudinal axis of the draft vehicle, articulate means forming a part of the draft means and permitting vertical endwise rocking movement of said casing relative to the draft vehicle, said casing being disposed at an incline transversely of a ditch and having a lower end thereof disposed in the bed of the ditch and an opposite upper end disposed above and to one side of the ditch, said driven screw conveyor and auger feeding toward the upper end of the casing for scraping and cutting one bank of the ditch and for conveying the material therefrom toward the upper end of the casing to discharge it through said slotted bottom adjacent the upper casing end and at one side of the ditch as the ditcher is pulled behind the draft vehicle, a cutting point fixed to and depending from the casing adjacent its first mentioned lower end and extending downwardly from the casing portion defining the trailing or rear end of said slotted bottom for cutting and cleaning a part of the ditch bed and for deflecting the cut and scraped material therefrom upwardly into the casing to be conveyed toward the upper end thereof by the screw conveyor, a colter wheel housing secured to the first mentioned casing end and having an open bottom, and a colter wheel connected to the screw conveyor and auger and rotatably disposed in the colter wheel housing and having a bottom portion depending therefrom to below said cutting point and traveling in the ditch bed for retaining the ditcher against lateral displacement relative to the ditch.

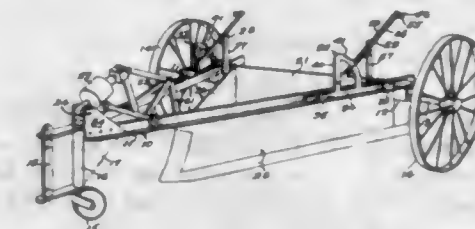
2,712,187

## LEVER AND QUADRANT RAISING AND LOWERING MECHANISM FOR DITCHING PLOW

John Winter, Fairfield, Mont.  
Application July 28, 1952, Serial No. 301,298  
4 Claims. (Cl. 37-98)

1. In combination with an implement having a frame, means for supporting said frame for movement over and

at a fixed distance above the ground and including a straight frame member, and an implement depending from said frame; a quadrant unit having a straight slide bar in engagement with said straight frame member, guide means fixed to said frame member and engaging said slide bar to guide it for longitudinal sliding movement relative to said frame member, said quadrant unit further comprising a quadrant bar fixed to said slide bar and having a notched arcuate portion concentric with a given axis on said quadrant unit, a lever pivoted to said

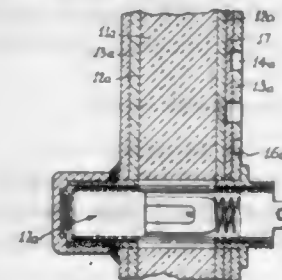


quadrant unit on said axis, a substantially vertical connecting means pivotally connected to said lever intermediate its ends and having fixed connection with said implement, and latch means carried by said lever and selectively engageable in any of said notches, said connecting means being fixed against movement longitudinally of said straight frame member whereby, when said lever is operated, it pivots about its pivot connection with said connecting member and transmits movement to said quadrant unit through the pivotal connection of said lever thereto.

2,712,188

## INSTRUMENT PANEL

Edwin A. Neugass, Port Chester, N. Y.  
Application April 13, 1953, Serial No. 348,349  
4 Claims. (Cl. 40-130)

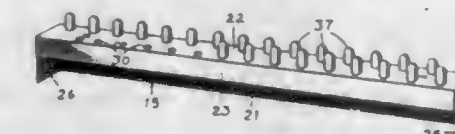


1. In a panel including a core of transparent material with a next adjacent layer of translucent material superimposed thereon and an outer layer of opaque material having at least one opening therethrough, said panel having means for admitting light to the transparent core to transilluminate the translucent layer at the opening in the opaque layer; a layer of clear, transparent material interposed between said translucent layer and said opaque outer layer so that the opening through the opaque outer layer may extend beyond the inner surface of the latter without varying the thickness of the translucent layer at the opening.

2,712,189

## PAINTING KIT

Ralph Emery Grossman, Decatur, Ill.  
Application February 12, 1954, Serial No. 410,020  
1 Claim. (Cl. 41-4)



A paint kit having an elongated paint capsule holder formed from a generally rectangular cardboard blank, said cardboard blank having on one edge thereof a first section longer than the other sections of the cardboard blank, said section forming a side wall and ends for the capsule holder, an adjacent second section having per-



forations therein forming the top of the capsule holder, a narrower third section between the perforated section which forms a side wall of the capsule holder, a fourth section of the same width as the perforated section, said section forming the bottom of the capsule holder and a marginal fifth section on the last named section for attachment to the first named section, all of said sections except the narrower section adjacent the perforated section and the marginal section having flaps on each end thereof, the blank being scored between the several sections and the end flaps on each section.

2,712,190

**IRIDESCENT MATERIAL AND PRODUCT**  
Sol Sobel, Plainfield, N. J., assignor to Rainbo-Cel, Inc.,  
Perth Amboy, N. J., a corporation of New Jersey  
Application May 29, 1953, Serial No. 358,307  
16 Claims. (Cl. 41-10)



1. An iridescent product consisting of a carrier body at least partially composed of light transmissive plastics material, having dispersed therethrough a discrete medium of iridescent material in the form of a flake, said flake being characterized as comprising a base layer of a solid material presenting an upper and a lower surface, at least one of said surfaces having thereon a minimum of two metallic films one of which is light transmissive and an interposed layer of a light transmissive plastics material therebetween, the layers and films being so arranged as to have a light transmissive layer and a light transmissive film juxtaposed on a surface of the flake, the substances of the layers, films and carrier body being so chosen that they do not become interfused during manufacture.

2,712,191

**ATTACHMENT DEVICE**  
George C. Hillenbrand, Batesville, Ind., assignor to The Batesville Casket Company, Batesville, Ind., a corporation of Indiana  
Application March 11, 1953, Serial No. 341,787  
7 Claims. (Cl. 41-12)



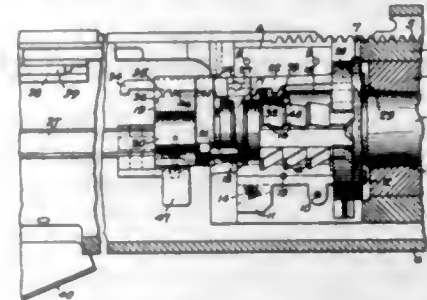
1. A crucifix adapted to be used on metal caskets, said crucifix comprising a cross having an ornamental front face and a hollow back, a rubber block mounted within the hollow back and attached thereto, a semi-circular recess in said rubber block, the recess having openings accessible at the back of the block, a semi-circular permanent magnet in said recess, said magnet having the faces of its poles exposed to the back of the block, and a tread on the back of the block adapted to augment frictional engagement between the block and the metal surface of the casket.

2,712,192

**EXTRACTION, EJECTION AND RAMMING MECHANISM**  
Paul H. Dixon and Maynard B. Wallin, Rockford, Ill., assignors to the United States of America as represented by the Secretary of the Army  
Application October 2, 1951, Serial No. 249,276  
8 Claims. (Cl. 42-25)

1. In an extraction and ejection mechanism for use in automatic guns including a receiver and a shuttle type bolt assembly reciprocable therein in response to firing of the gun, said bolt assembly consisting of a bolt body por-

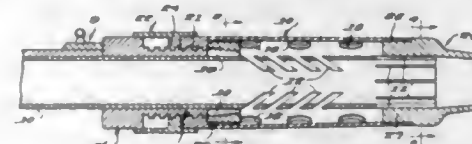
tion having a step cut detent and a bolt head portion movable relative to each other and having a locked position at maximum overall length, an extractor pivotally mounted on said bolt head portion in slidable relation thereto for extracting and ejecting a shell case, said extractor comprising a lip means at its forward end for engaging a groove in said shell case during extraction, a hook means at its rearward end for engaging said step cut de-



tent in said bolt body portion while in said locked position only, a cam intermediate said lip means and said pivotal mounting, and a cam engaging surface mounted within said receiver acting on said cam during rearward motion of said bolt assembly and extractor thereby ejecting said shell case, said extractor being provided with bevelled edges to cam up said lip portion during the forward return motion of said bolt assembly to a level sufficient to ram a new round of ammunition.

2,712,193

**SHOT GUN MUZZLE DEVICE**  
William F. Mathis, Hollywood, Calif.  
Application May 3, 1951, Serial No. 224,425  
2 Claims. (Cl. 42-79)



2. In a shot gun, a barrel, there being a plurality of slots in said barrel, a collar surrounding said barrel and provided with a neck of reduced diameter, said neck being threaded exteriorly, an annular slit portion projecting forwardly from said neck, a securing element positioned in threaded engagement with said slit portion for clamping the collar in place, a sleeve provided with a plurality of spaced openings rotatably mounted on said barrel, said sleeve having a portion threadedly engaging the threaded neck, an annular ring positioned in threaded engagement with said neck, said ring being of greater diameter than said collar and sleeve and overlapping the collar and sleeve, said ring further including a flange interposed between said collar and sleeve and threadedly engaging said neck, said slots being spaced from the end of the barrel and being surrounded by that portion of the sleeve having the openings therein.

2,712,194

**FISHING DEVICE**  
Gloacchino C. Di Stefano, Kansas City, Mo.  
Application March 17, 1952, Serial No. 277,015  
1 Claim. (Cl. 43-15)

A fishing device comprising a float member including a sphere having vertically aligned apertures therein forming an opening therethrough, a tubular shank extending through and fixed in said opening and having upper and lower ends, a coil spring extending through said shank, a plug having an aperture therethrough secured to the upper end of said shank, a wire member having a hook end, said coil spring engaging said hook end, a pair of spaced lugs attached to said shank, said coil spring extending between said lugs, said lugs having

seats, said hook end being positioned in said seats, said wire member having an intermediate coil portion of larger size than said aperture preventing said wire member from being removed through the aperture in said plug, an elongated holding member attached to the lower end of said spring and including a wire length having an offset portion engageable with the lower end of said shank to retain the holding member perpendicular to the shank when the coil spring is expanded, said holding member terminating in a convoluted portion remote from



said spring, and a fishing line extending through said aperture and through said shank and having a portion engaged between a pair of adjacent convolutions of said convoluted portion whereby said device is adjustably mounted on said fishing line and when the line is pulled downwardly, said offset portion is released from the shank and the spring will pull the line and holding member upwardly with a jerk to hook a fish on the line, said lugs preventing said spring from rotating to thus become entangled with said fishing line.

2,712,195

**FISHING LURES**  
Foy C. Belcher, Portland, Oreg.  
Application July 2, 1951, Serial No. 234,849  
1 Claim. (Cl. 43-42.5)



A fishing lure comprising an elongated body member of sheet material having a downwardly convex forward end portion provided with a rounded leading edge and curved side edges converging rearwardly into an intermediate portion, said intermediate portion being substantially flat adjacent said convex forward end and having an outwardly and upwardly flared portion leading from said flat portion and merging into a concavo-convex rear portion, the rounded leading edge and the edge of the flat part of the intermediate portion being in a single plane, said rear portion terminating in an upwardly facing semi-circular rim formed on a greater radius than said rounded leading edge and providing a deflecting surface, there being a single row of spaced apart nodules arranged in a semi-circle on the top surface of said forward end, and means on said forward end for attaching a fishing line, said deflecting surface being adapted to impart a swinging motion to said body member when the same is drawn through the water.

2,712,196

**FLY LINE TERMINAL ANCHOR**  
Wesley M. Allen, Windsor, Mo.  
Application July 15, 1954, Serial No. 443,663  
2 Claims. (Cl. 43-43.1)

1. A leader and line connection comprising a rigid wire element having a straight shank with an eye at one end

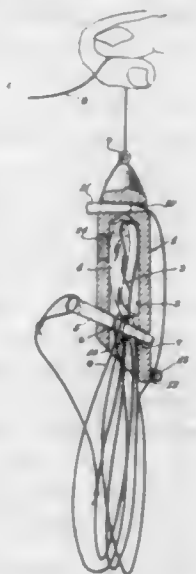
thereof, prongs projecting only from one side of the shank and in the same general direction at an angle other than 90° to the shank, said shank having a spear point at one end thereof and said line being braided and having a weak central portion, the normal diameter of the central



portion being substantially constant throughout a length thereof substantially equal to the length of the shank, said normal diameter being less than the diameter of the shank, the combined width of the shank and prongs being less than the diameter of the braided line.

2,712,197

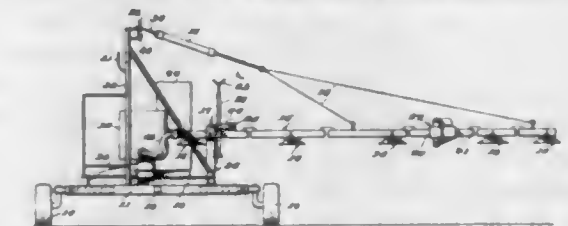
**CASTING FLOAT**  
Elmer Lewis, Eustis, Fla.  
Application September 30, 1948, Serial No. 51,880  
8 Claims. (Cl. 43-43.11)



1. In fishing tackle of the class described, a casting float, means for attaching the float to a line with the captive end of the line extending to one end of the float and the outer or hook end of the line extending from the other end of the float and a sinker attached to the said hook end of the line, said float having a transverse socket in the side thereof for reception of said sinker and said socket constituting means independent of the line and releasable by gravity, acting solely in direction transverse to an axial line intersecting the said ends of the float, for detachably holding the sinker on the hook end of the float to provide for casting of the float and sinker as a unit, and said sinker being elongated for insertion loosely in the socket.

2,712,198

**CROP DUSTING MACHINE**  
Clarence E. Smith, Sharpsville, Ind.  
Application December 8, 1952, Serial No. 324,660  
3 Claims. (Cl. 43-148)



1. In a dusting machine, a wheeled chassis frame, a dust spraying boom to extend laterally from said chassis frame for use, a U-shaped yoke straddling the inner end portion of said boom, a horizontal pivot connecting said boom with said yoke, a support on said chassis frame upon which said yoke rests, a vertical pivot connecting

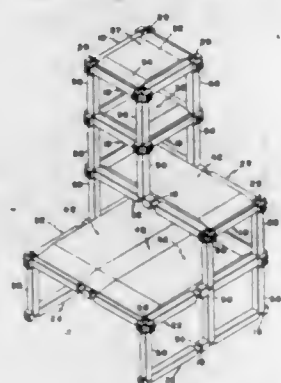


said yoke with said support, means for raising and lowering said boom about said horizontal pivot, and releasable means for normally holding said yoke against turning about said vertical pivot, said boom being swingable to a position extending longitudinally of said chassis frame, when the last mentioned means is released.

2,712,199

## TOY BUILDING BLOCKS

Henry R. Latimer, La Mesa, Calif.

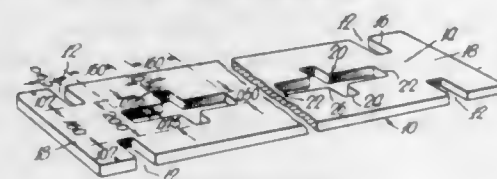
Application October 6, 1952, Serial No. 313,306  
2 Claims. (Cl. 46—25)

1. A toy structure comprising vertically elongated pillar blocks of generally square cross sectional shape, and interfitted and perpendicularly intersecting elongated horizontal beam blocks of the same width as the pillar blocks having vertically oppositely disposed pairs of transverse slots adjacent to each end thereof, the width of each slot being that of a pillar block, one slot of each pair having a depth of less than half the thickness of the block at the corresponding end constituting a shallow slot, the opposed slot of each pair having a depth equal to one-half the thickness of the block constituting a deep slot, said blocks being connected together with the deep slots of each member facing opposite the deep slots of each intersecting member, said shallow slots and a part of the walls of the deep slots of each intersecting member constituting sockets for receiving said pillar blocks.

2,712,200

## SHAPE-RETAINING INTERLOCKING TOY ELEMENT

Harry S. Dearling, New York, N. Y.

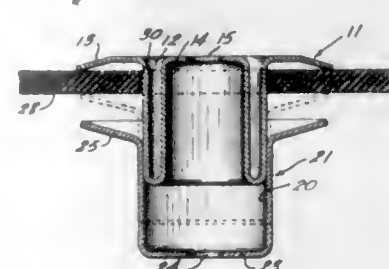
Application September 24, 1952, Serial No. 311,209  
1 Claim. (Cl. 46—28)

A substantially prismatic shaped toy element for connection to a counterpart toy element, said element having a length greater than the width and a width greater than its depth, both longitudinal ends of the element being notched from each side thereof to form a tongue at each end with a neck at the notched portion; and a pair of sets of crossed substantially rectangular shaped slots formed in the element adjacent each end, one slot in each set extending longitudinally of the element and having a length and width sufficient to accommodate the tongue of a counterpart element, the other slot extending across the width of the element and having a length and width approximately that of the neck of the inserted tongue to form a tight resilient seat therein preventing accidental separation of the two connected elements; said set of cross slots being interconnected by a passageway of such size as to produce a snap action of the neck of a counterpart element therethrough upon relative rotation of the elements by resilient compression of the contacting sur-

faces, said toy element being made of a stiffly flexible plastic material suitable for forming an interconnected toy structure and being sufficiently resilient to accommodate the neck when it is snap fitted through the passageway between slots.

2,712,201

## WHISTLE FOR PNEUMATIC TOYS

George Wintriss, Carversville, Pa., assignor to Wintriss Inc., New York, N. Y., a corporation of New York  
Application September 9, 1952, Serial No. 308,636  
5 Claims. (Cl. 46—117)

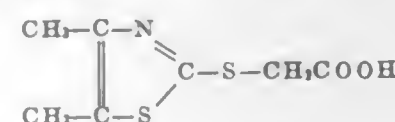
3. In a whistle assembly having front and rear flanges extending radially across outside and inside surfaces of a skin of a toy to which the whistle is connected, the improvement which comprises a center structure of one-piece construction with the front flange and having a deep annular corrugation with a substantially cylindrical outside wall throughout most of the depth of the corrugation and an inwardly extending flange projecting radially inward from the inner wall of the corrugation to a substantially circular opening through the front of the whistle, and a cylindrical portion of one-piece construction with the rear flange and having a bottom wall with an opening therethrough that comprises the rearward opening of the whistle, the inside diameter of the cylinder being substantially equal to the diameter of the outside wall of the corrugation so as to provide a press fit for the cylinder over the outside wall of the corrugation for holding the parts of the whistle in assembled relation with the flanges firmly clamped against the outside and inside surfaces of the skin.

2,712,202

## METHOD OF TREATING TREE DISEASES

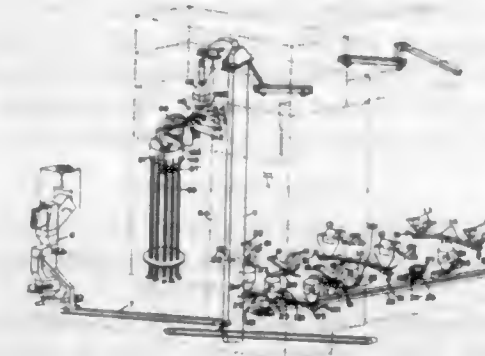
John F. Hosler, Bound Brook, N. J., and Armen Charles Tarjan, Wakefield, and Frank L. Howard, Kingston, R. I., assignors to The Board of Trustees of the University of Rhode Island, Kingston, R. I.  
Application June 8, 1954, Serial No. 435,213  
6 Claims. (Cl. 47—57.5)

1. A method for protecting trees against vascular wilt diseases which comprises subjecting a tree to the action of at least one compound which in the form of the free acid has the formula



2,712,203

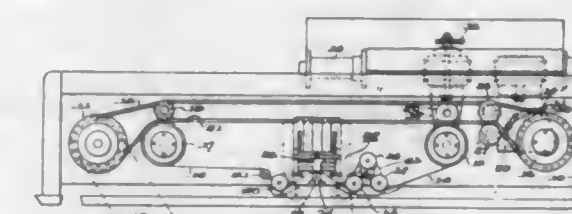
## BATCH PREPARING DEVICE

Clarence C. Green, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania  
Application May 25, 1951, Serial No. 228,324  
4 Claims. (Cl. 49—63)

1. In a device for preparing a series of individual batches of raw material in which the consecutive batches are not necessarily of the same formulation and in which the device will measure the proper amount of ingredients for a given formulation and will deliver the measured batch to the proper storage tube for that particular formulation, comprising a rotatable turntable; a plurality of tiltable buckets to contain certain essential ingredients which distinguish one batch from another, said buckets being positioned in openings in said turntable and carried thereby; a manually set cam positioned on the turntable adjacent said bucket and movable therewith to determine the other ingredients to be added to the formulation; a plurality of scales; a weigh hopper on each of said scales; a plurality of scale beams on each scale, the number of beams on each scale corresponding to the number of settings possible for the manually set cam adjacent the bucket; a series of switches positioned across the path of travel of said cam, the arrangement of switches being such that a switch is positioned above each of the possible settings for the cam; an electric circuit closed by said cam contacting said switch for selecting the proper beam on each of the plurality of scales to weigh a predetermined amount of each ingredient for the batch; a controlled feeder to supply the material to the weigh hoppers in the amount determined by the setting of the scale beam; a second manually set cam adjacent the bucket; a plurality of storage tubes for storing the batch; a chute for directing the material into the tubes, the number of storage tubes corresponding to the number of positions for said second manually set cam adjacent the bucket; a series of switches positioned across the path of travel of said second cam, the arrangement of switches being such that a switch is positioned above each of the possible settings for the cam; an electric circuit closed by said second cam for directing the chute to the storage tube selected by said second cam; a mixer positioned between the scales and the storage tubes; a surge bin positioned between the scales and the mixer for storing one batch while the mixer is mixing the preceding batch, said mixer being tiltable from a horizontal position to receive the material from the surge bin to an inclined position to deposit the material in the chute; a gate on said surge bin to control the flow of prepared batch material to the mixer; control means to prevent the opening of said gate on the surge bin until the mixer is in horizontal position; control means to prevent the mixer from discharging the mixed batch to the storage tube until the proper tube has been selected; means for imparting rotary motion to the turntable; a conveyor system for transferring the material from the weigh hoppers to the surge bin; means for discharging the measured contents of said weigh hoppers onto the conveyor system; and a chute for directing the contents of the bucket onto the conveyor system with the material discharged from the weigh hoppers.

2,712,204

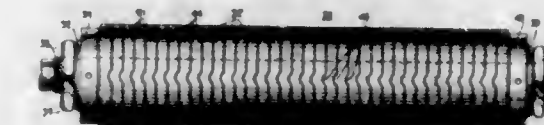
## GRINDING APPARATUS OF THE TRAVELING BELT TYPE

William D. Roberts, Pittsburgh, Pa., assignor to Ryman Engineering Company, Ellwood City, Pa., a corporation of Pennsylvania  
Application August 22, 1952, Serial No. 305,784  
3 Claims. (Cl. 51—135)

1. A surfacing machine of the sanding-belt type, comprising a pair of relatively-spaced pulleys, a looped surfacing belt supported thereby, a looped driver belt disposed against the outer face of one run of the surfacing belt, pulleys for the driver belt spaced farther apart than the surfacing belt pulleys and in partly opposed relation thereto at the remote faces of the surfacing belt pulleys, whereby one run of the driver belt is held deflected toward the other run thereof and in partly embracing relation to the surfacing belt and its pulleys, the deflected run of the driver belt being held in frictional engagement with the adjacent run of the sanding belt, with greater pressure near one end of the sanding belt loop than at the other end of said loop.

2,712,205

## ABRADING ROLL

Le Roy R. Valette, Chicago, Ill., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey  
Application June 20, 1952, Serial No. 294,572  
4 Claims. (Cl. 51—168)

1. An abrading roll comprising in combination: a series of substantially annular rigid abrading elements of substantially similar shape, and means coaxially and resiliently mounting the same in axially spaced relation, said means including a rigid shaft, a resilient sleeve interposed between said shaft and abrading elements, and resilient spacer gaskets interposed between adjacent said abrading elements, respectively, the outer diameter of said spacer gaskets being less than that of said abrading elements, the peripheral surfaces of such spaced abrading elements all being in coincidence with a single surface-of-revolution formed by moving a straight line about the axis of such roll whereby all of such peripheral surfaces are all concurrently engageable over the full width thereof by a surface to be abraded thereby, the entire peripheral surface of each of such elements being movable into engagement with the surface to be abraded, in response to rotation of said roll.

2,712,206

## RUBBING SHOE

Roy J. Champayne, Rockford, Ill.  
Application June 16, 1952, Serial No. 293,799  
12 Claims. (Cl. 51—187)

9. In a rubbing machine, the combination of, a shoe for backing a rubbing sheet, a jaw fixed to one end of said shoe, a second jaw individually mounted on said shoe for movement toward and away from said fixed jaw and co-acting therewith to form an outwardly opening clamp, a handle movable relative to said shoe, and means separately mounting said handle on said shoe and connecting the handle to said second jaw, said means comprising a



toggle connected to said movable jaw and a connection between said handle and said toggle to move the latter



from a flexed to a substantially straight over-center position to close said jaws together.

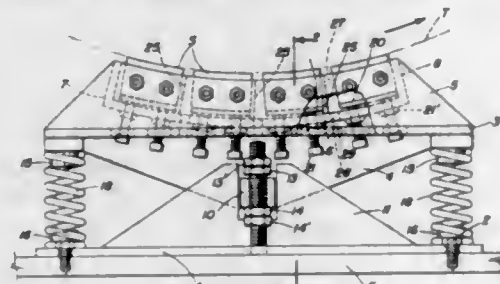
2,712,207

## TIRE DRESSING FIXTURE

Donald S. Cochran, Pottstown, Pa., assignor to Stanley G. Flagg & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application June 15, 1954, Serial No. 436,833

8 Claims. (Cl. 51-204)



8. A metal tire dressing fixture comprising a base adapted for securement to a support, stone holding means disposed above the base including a trough-like structure having its bottom curved in substantial conformity with the curvature of the tire to be dressed, a series of stones seated in said holding means in spaced relation lengthwise thereof, means for adjusting the position of each stone relative to said bottom, means for separately locking the stones against movement relative to the trough-like structure after their individual adjustment relative to the bottom thereof, means yieldingly supporting the stone holding means upon the base and biasing said holding means toward the tire axis and means for limiting movement of the stone holding means toward said axis.

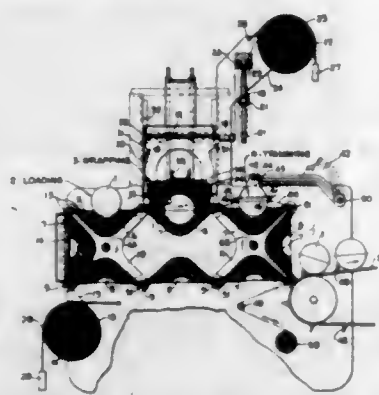
2,712,208

## METHOD AND APPARATUS FOR WRAPPING

John F. Campbell, Cuyahoga Falls, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application October 22, 1949, Serial No. 123,002

13 Claims. (Cl. 53-9)



1. The method of wrapping articles which comprises advancing a readily compressible article support along a defined path to a loading position, positioning a layer of wrapping material above said support at said loading position, placing an article on said layer at said position and advancing the article and wrapping material to a wrapping position at which a similar layer of material is positioned

over the article, applying a pressing force to the layers of said material to force the layers of material against the article and into engagement with each other to unite said layers around the periphery of the article while at the same time compressing the material of said support, relieving the pressing force, whereafter, due to the fact that the article and support are relieved of the pressing force, the article is forced upwardly so that united portions of the layers are free of said support, and then advancing cutting means against the united portions of said layers while free of said support to separate the wrapped article from the web formed by the joined layers.

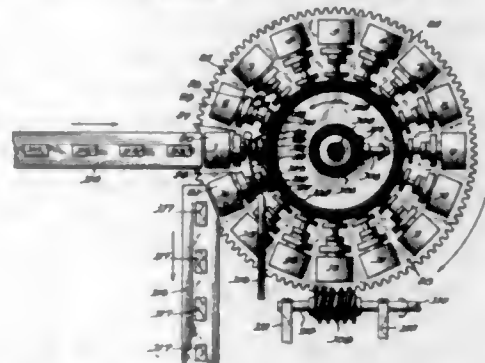
2,712,209

## PROCESS OF AND APPARATUS FOR SEALING RECEPTACLES

Carl W. Brabender, Minneapolis, Minn., assignor to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware

Application August 28, 1950, Serial No. 181,902

15 Claims. (Cl. 53-16)



1. In the packaging of goods of the class described, wherein receptacles which have been filled with amounts of the goods to be packaged are prepared for sealing by placing glue on selected receptacle portions disposed at the corresponding ends thereof and folding such portions upon each other and placing the outside of said folded portions against a backing element, the process of effecting said sealing which comprises the following steps, namely, (1) moving a prepared receptacle with its backing element through a predetermined path to impart centrifugal outwardly acting forces to the goods therein; and (2) maintaining said motion for a predetermined time to cause such centrifugal forces to operate outwardly against said folded receptacle portions so as to press said folded portions substantially throughout the entire extent thereof against said backing element until said portions are adhesively joined by the glue thereon.

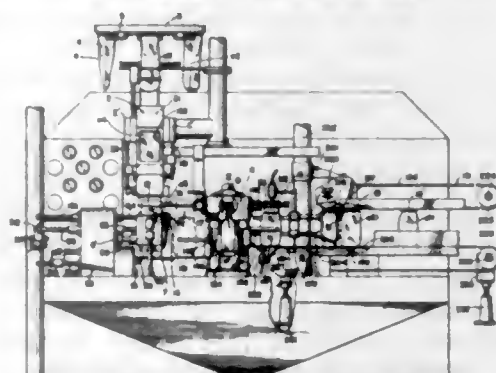
2,712,210

## MACHINE FOR CLOSING AND SEALING CELLOPHANE BAGS

Marshall W. Sawyer, Los Angeles, Calif., Herman W. Wilson, Jr., Moscow, Idaho, and Reginald G. Kenway, Los Angeles, and John S. Overholser, Venice, Calif.; said Kenway and said Overholser assignors to said Sawyer and said Wilson, Jr.

Application April 27, 1951, Serial No. 223,178

24 Claims. (Cl. 53-26)



1. In a bag closing and sealing machine: a bag receiver to receive a filled bag; a closing mechanism oper-

ative to bring opposite portions of the mouth defining wall of the bag together so as to form a closed mouth wall; rolling means adapted to roll said closed mouth wall inwardly from the edge thereof toward the filled portion of the bag so as to form a mouth closing roll; and means for applying adhesive to hold said roll, said last named means comprising a control element actuated by a bag positioned in adhesive-receiving position to enable application of adhesive to the bag, said control element normally preventing operation of said adhesive applying means.

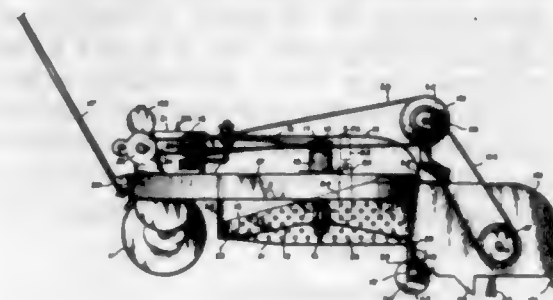
2,712,211

## COMBINATION SWEEPER AND MULCHER

Alexander Smith and Burton D. Baggs, Jr., Sanford, Fla.

Application January 12, 1953, Serial No. 330,630

1 Claim. (Cl. 55-118)



A machine for disintegrating organic matter lying on the ground comprising a lawn mower frame having a top and depending sides, a power driven blade mounted in said frame on a generally vertical axis, an open top main housing having a perforated bottom, sides and a back cooperating with the depending sides of the lawn mower frame to form a substantially complete enclosure, a pick-up unit extending forwardly from said frame and open in its rear portion to the upper portion of said enclosure in a communicating passageway spaced from the bottom of said enclosure, a rotary sweeper mounted in said pick-up unit on a horizontal axis extending transversely to the direction of the movement of the mower, said pick-up unit having a forward wall and a top wall extending to said lawn mower frame and being generally concentric with the rotary sweeper, means to rotate said sweeper so that the ground engaging portion thereof moves forwardly for cooperation with the generally concentric front and top of said pick-up unit for carrying loose vegetation through the communicating passageway into the enclosure above the rotating blade whereby the loose vegetation is comminuted by the rotating blade and the comminuted material passes through the perforations in said enclosure.

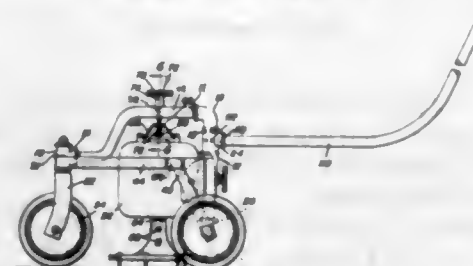
2,712,212

## ROTARY GRASS RAKE

Alfred R. Sears, Coronado, Calif.

Application May 13, 1954, Serial No. 429,666

1 Claim. (Cl. 56-27)



A rotary grass rake comprising, a frame having a pair of front and rear spaced uprights, a horizontal tubular member secured at its midsection to the lower end of the rear uprights and extending transversely thereof, an axle journaled in said tubular member, a pair of wheels secured to opposite ends of said axle, a caster wheel

carried by the front upright, a longitudinal connecting member secured at opposite ends to said uprights, a motor, screw feed means mounting said motor on said longitudinal member in underslung position between said uprights and for vertical adjustment and with its armature shaft depending therefrom vertically, a pair of opposed guide plates fixed to said motor and conformably and slidably fitting opposite sides of said rear upright for guiding the motor in its vertical adjustment, a U-shaped brace member mounted on said axle with a portion parallel to said horizontal tubular member and ends inclining upwardly and forwardly at opposite sides of the motor, a pair of horizontal straps having corresponding ends fixed to opposite sides of the front upright and diverging rearwardly with the other ends thereof fixed to said ends of the brace member, and a rotary rake head fixed on said shaft.

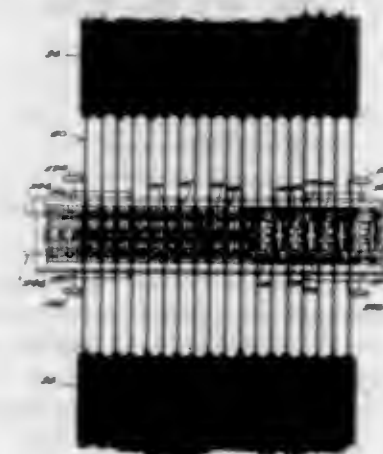
2,712,213

## ROBE FRINGING MACHINE

Kenneth W. Macdonald, Arlington, Mass., assignor, by mesne assignments, to Troy Blanket Mills, Troy, N. H., a corporation of New Hampshire

Application February 10, 1954, Serial No. 409,445

16 Claims. (Cl. 57-1)



1. In a robe fringing machine of the character described, in combination, a dividing head provided with a plurality of equally spaced dividing blades movable into engagement with the warp threads extended between robe sections to form substantially equal bunches thereof, a twisting head having a plurality of spaced teeth offset relative to the dividing blades and arranged to engage the center of each divided bunch to separate them into substantially equal half bunches upon continued movement of the dividing head, the dividing blades entering the slots between said teeth and forming with said slots a guideway on each side of a dividing blade for receiving the individual half bunches, a plurality of hollow twisting sleeves rotatably mounted in said twisting head at the end of each slot, each hollow sleeve being open on one side to receive the half bunches when the open side is aligned with its slot, each hollow sleeve having a twisting blade extended across the axis thereof toward the open side and cooperating with said dividing blade to positively guide a half bunch from each guideway into each side of said twisting blade, and means for rotating the hollow sleeves to twist the half bunches together to form the fringe.

2,712,214

## MULTI-PLY STRAND TWISTER

Leroy E. Peterson and Sidney Leonard Dart, Swarthmore, and James A. Richards, Jr., Sharon Hill, Pa., assignors to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware

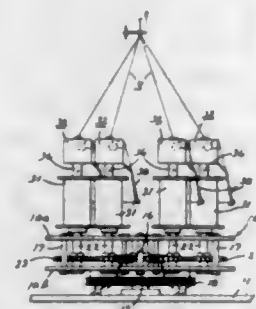
Application August 6, 1953, Serial No. 372,714

13 Claims. (Cl. 57-65)

1. In yarn-twisting apparatus having a turret, means for rotating said turret on its axis, a plurality of spindles

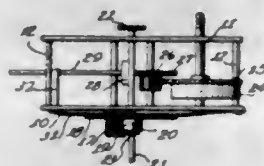


non-rotatably secured to said turret, a sleeve journaled on each of said spindles, driving means for said sleeves whereby the sleeves rotate about the axis of the spindles and revolve about the axis of the turret, a housing se-



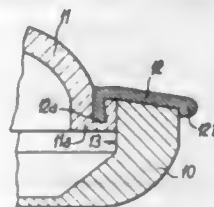
cured at the outboard terminus of each sleeve, a pair of strand pay-out rolls in said housing, and driving connections between at least one of the strand pay-out rolls and its associated spindle.

**2,712,215**  
**TWENTY-FOUR HOUR TIME SETTING**  
**ALARM MECHANISM**  
Carl T. Kukol, Pittsburgh, Pa.  
Application March 23, 1954, Serial No. 418,185  
1 Claim. (Cl. 58—22.5)



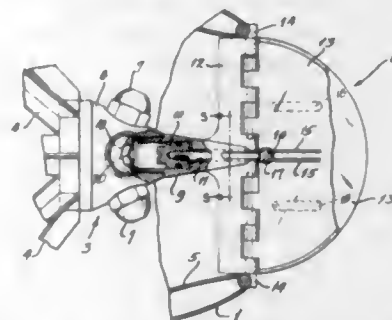
A timepiece comprising a frame embodying a first and second plate arranged in spaced parallel relation with respect to each other, a plurality of spaced parallel posts extending between said plates and secured thereto, a first shaft extending between said plates and supported thereby, a manually operable knob on an end of said shaft and said knob being arranged rearwardly of said second plate, an hour wheel adapted to be driven by the timing mechanism of the timepiece and said hour wheel being loose on said shaft and arranged contiguous to the outer surface of said first plate, a pinion gear arranged in meshing engagement with said hour wheel, a second shaft normally stationary but manually rotatable, said second shaft being rotatably supported by said plates and arranged in spaced parallel relation with respect to said first shaft, an alarm trip wheel slidably and rotatably mounted on said second shaft, said alarm trip wheel meshing with said pinion gear and said alarm trip wheel having twice as many teeth as said hour wheel, a sleeve secured to said alarm trip wheel and surrounding said second shaft, said sleeve extending outwardly from said alarm trip wheel, said sleeve being provided with a cut-out defining a cam, a pin secured to said second shaft and mounted for movement into and out of said cutout, an alarm spring arranged between said plates, a gear wheel driven by said alarm spring, a pinion arranged in engagement with said gear wheel, an escapement wheel driven by said pinion, a striking member including a lever arm actuated by said escapement wheel, said lever arm being positioned between said pair of plates, a spring member interposed between said alarm trip wheel and first plate and having a finger mounted for movement into and out of engagement with the said lever arm, a pointer secured to said second shaft, a main dial, and an alarm indicator scale for coaction with said pointer, said alarm indicator scale being divided into two twelve hour sections, the letters A. M. being arranged adjacent to one of said scale sections, and the letters P. M. being arranged adjacent to the other scale section, each of said scale sections including the numerals 1 through 12 thereon.

**2,712,216**  
**FLUIDTIGHT CASE FOR WATCHES**  
Alfred Bauer, Le Locle, Switzerland  
Application September 3, 1954, Serial No. 454,091  
Claims priority, application Switzerland March 12, 1954  
9 Claims. (Cl. 58—90)



2. A fluidtight watch case comprising an annular case body including an upper annular upstanding projection, a rim fitted over the upper edge of the projection, projecting inwardly thereof and including an inner and an outer peripheral depending flange, said outer flange engaging the outer surface of the upper projection of the body, and a glass extending over the case and including an outer peripheral flange fitted frictionally inside the upper end of the inner surface of the body and inside which the inner peripheral flange of the rim is embedded, the two flanges of the rim urging into contacting relationship the outer portion of the glass flange and the upper projection on the body.

**2,712,217**  
**MECHANISM FOR REDUCING THE DRAG OF**  
**RAM JET ENGINES**  
Elbert R. Sargent and Edwin P. Neikirk, Ferguson, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland  
Application April 28, 1950, Serial No. 158,746  
9 Claims. (Cl. 60—35.6)

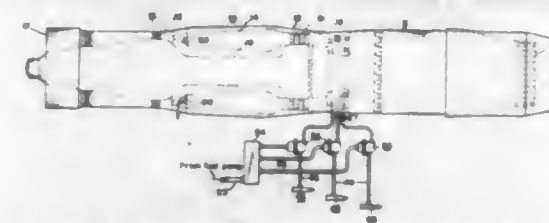


1. A ram jet engine comprising a casing having an air inlet end, a nozzle assembly mounted in said casing for receiving fuel under pressure in passageways provided therefor, a cylinder mounted on said nozzle in communication with said passageways, a piston in said cylinder, a pair of inlet doors hinged to said cylinder and normally subjected to air pressure; and means connected between said piston and doors for permitting the piston to actuate said doors to open position while fuel is being supplied to said nozzle, the closures being actuated to closed position by air pressure in the event fuel is not being supplied to said nozzle.

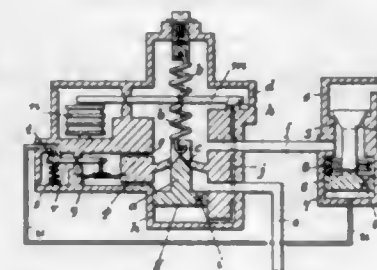
**2,712,218**  
**GAS TURBINE APPARATUS**  
John A. Ritter, Norwood, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application November 29, 1951, Serial No. 258,917  
4 Claims. (Cl. 60—39.09)

3. Fuel scavenging apparatus for removing unburned fuel from the combustion zone of an aircraft power plant carried adjacent the aircraft slip stream, comprising the combination of a fuel system for supplying fuel to the combustion zone, a dump valve device interposed in said fuel system and having a discharge communication, said device being operative to divert unburned fuel from said

combustion zone to said discharge communication upon cessation of fuel flow through said fuel system, and ejector means mounted in the air-craft slip stream and connected to said discharge communication for facilitating the withdrawal of fuel from said combustion zone by way of said dump valve device.

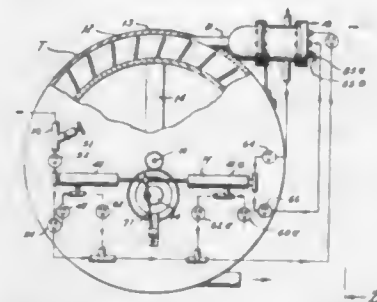


**2,712,219**  
**LIQUID FUEL CONTROL MEANS FOR AERIAL**  
**BODIES OF THE RAM-JET TYPE**  
Eugene Harold Warner, Olton, Birmingham, England, assignor to Joseph Lucas (Industries) Limited, Birmingham, England  
Application October 12, 1953, Serial No. 385,639  
Claims priority, application Great Britain October 27, 1952  
1 Claim. (Cl. 60—39.28)



A liquid fuel control means for an aerial body of the ram-jet type, comprising in combination a primary and normally closed throttle, a spring for moving said throttle to its closed position, a servo-mechanism for moving said throttle to its open position, a valve for controlling said servo-mechanism, means responsive to gas pressure for actuating said valve, a delayed action and normally closed throttle arranged in series with said primary throttle, a second spring for moving said delayed action throttle to its closed position, a second servo-mechanism for moving said delayed action throttle to its open position, a second valve for controlling said second servo-mechanism, and means responsive to a fuel pressure difference associated with said primary throttle for actuating said second valve.

**2,712,220**  
**APPARATUS FOR GENERATING POWER BY COM-**  
**BINING THE COMBUSTION OF A FUEL-AIR**  
**MIXTURE WITH STEAM**  
Austin Gallatin Boldridge, Shreveport, La.  
Application May 19, 1951, Serial No. 227,170  
5 Claims. (Cl. 60—39.59)



4. A power generating apparatus including, a housing having a firing chamber and an expansion chamber, means for injecting a fuel-air mixture into the firing chamber, means for firing said mixture and for directing the hot expanding gases of combustion into the expansion chamber, means for injecting water into the expansion chamber whereby said water is converted into steam by the hot

696 O. G.—3

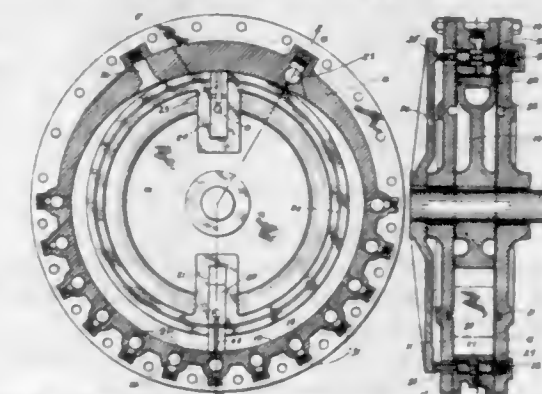
expanding gases, an injector pump assembly for controlling the injection of the combustible mixture and the injection of water into the firing chamber and the expansion chamber, respectively, said injector pump assembly including a dual pump, a fuel supply line connected with one of the pumps, an air supply line separate from said fuel supply line also connected with said first mentioned pump, a fuel discharge line extending from said first-mentioned pump, an air discharge line extending from said first-mentioned pump, a fuel-air line connected to said fuel discharge line and said air discharge line and extending to the firing chamber whereby operation of said first mentioned pump injects a fuel-air mixture into the firing chamber, a water supply line connected with the second pump, and a water injection line extending from the second pump to the expansion chamber whereby operation thereof injects water into said chamber.

**2,712,221**  
**GAS TURBINE AFTERBURNER APPARATUS**  
Walter D. Pouchot, Prospect Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application April 22, 1952, Serial No. 283,693  
4 Claims. (Cl. 60—39.71)



1. In afterburner apparatus of the class described, a combustion chamber, a plurality of fuel vaporizing units therein each including a hollow fairing having a longitudinal axis parallel to the axis of the combustion chamber, each fairing having an upstream opening for receiving gases flowing in said combustion chamber and a plurality of downstream outlets, a backplate closing each of said fairings adjacent said outlets therein, fuel emitting means mounted in each of said fairings, and evaporating surface means interposed between each of said fuel emitting means and said outlet.

**2,712,222**  
**REGENERATIVE ROTARY MOTOR**  
Leroy A. Wilson, Vero, Utah  
Application October 18, 1943, Serial No. 506,678  
11 Claims. (Cl. 60—66)



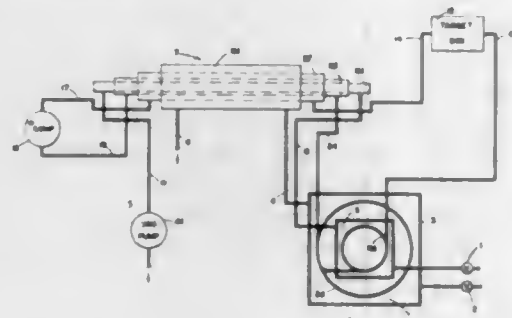
1. In a rotary motor, a rotor, a stator, a plurality of relatively small passages through said stator opening against the side of said rotor, and a duct from the periphery of said rotor to the side thereof and so disposed as to register in turn with the said passages through the said stator.

**2,712,223**  
**CYCLOTRON TARGET BOX COOLER**  
Charles D'A. Hunt, Orinda, and Hubert P. Yockey, Pasadena, Calif., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
Application March 31, 1952, Serial No. 279,704  
5 Claims. (Cl. 62—1)

1. Cyclotron target box cooling means comprising a nitrogen boiler having a liquid-tight outer chamber and



a liquid-tight inner chamber enclosed by and insulated from said outer chamber, means for admitting liquid nitrogen periodically to said chambers, vacuum means for maintaining said inner chamber at reduced pressure, means for venting said outer chamber to the atmosphere, means for cooling a flow of helium by passing it through



said outer chamber and then through said inner chamber without intermixture with the nitrogen therein, heat exchanger means for precooling said helium by means of effluent nitrogen gas from each of said chambers, and means for continuously circulating said cooled helium to said target box and back through said heat exchanger to said boiler.

#### 2,712,224 ICE TRAY

John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan  
Original application September 23, 1948, Serial No. 50,809. Divided and this application February 5, 1951, Serial No. 209,387

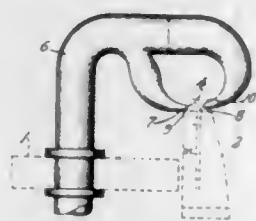
5 Claims. (Cl. 62—108.5)



2. A flexible plastic liquid freezing receptacle comprising a generally rectangular bottom and upstanding side walls terminating in rim flanging extending outwardly from said side walls continuously around the four upper marginal edges of the receptacle, said rim flanging having a depressed portion at a side thereof intermediate the ends of the flanging at such side, the sides and bottom of said depressed portion being in the form of a continuous flange with the bottom portion thereof disposed at a lower level than the adjacent portions of the rim flanging at opposite ends of said depressed portion.

#### 2,712,225 METHODS OF AND APPARATUS FOR MAKING DOUBLE FACED FLEECE KNITTED FABRICS

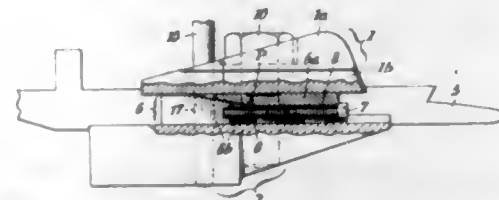
David Pelton Moore, Glen Oaks, N. Y.  
Application May 11, 1951, Serial No. 225,836  
12 Claims. (Cl. 66—9)



12. The process of making a double faced pile fabric, which comprises feeding base yarn and fiber staple into open hooks of needles while in transit, knitting said fiber and yarn to form a knitted base fabric and pile, and parting each needle held pile during the knitting operation, whereby two pile surfaces, one upon the inner and one upon the outer face of the fabric, result.

#### 2,712,226 SINKER HEADS FOR STRAIGHT KNITTING MACHINES

Joseph J. Walley, Shillington, Pa.  
Application January 6, 1954, Serial No. 402,476  
5 Claims. (Cl. 66—110)



1. A sinker head for straight knitting machines having upper and lower bar components with aligning transverse grooves in their confronting faces for sliding guidance of the sinkers between them; spaced blocks interposed between the bar components at opposite ends, each such block comprising two wedge sections which meet in a sloping plane at an acute angle to the horizontal; and means whereby the wedge sections of the individual blocks can be adjusted relatively from time to time to vary the vertical spacing of the bar components and thereby compensate for wear between the grooves of said bar components and the sinkers.

#### 2,712,227 PLATED HEEL INLAY FOR FULL-FASHIONED HOSIERY

Max R. Haensel, Easton, Pa.  
Application July 3, 1952, Serial No. 297,137  
5 Claims. (Cl. 66—182)



1. In a full-fashioned hosiery blank, a leg portion; an instep portion representing a continuation of the leg portion; reinforced portions at opposite sides of the instep portion, said leg, instep and reinforced portions all being knitted from a body yarn extending continuously through the full width of the blank, said reinforced portions including reinforcing yarn plated with the body yarn; and ornamental design portions within the reinforcing portions and formed from pattern yarn contrasting with the reinforcing yarn, said reinforcing yarn terminating at the edges of said design portions and said pattern yarn being plated with the body yarn and extending therewith through the design portions.

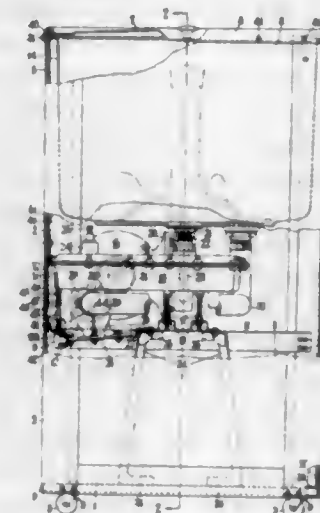
#### 2,712,228 WASHING MACHINES

Frederick Lloyd-Kessel, Gerrards Cross, England, assignor to H. Fisher (Oldham) Limited, Oldham, England

Application March 27, 1952, Serial No. 278,911  
Claims priority, application Great Britain March 30, 1951  
6 Claims. (Cl. 68—3)

1. A washing machine casing or cabinet, comprising in combination, a four-sided metal base, four uprights secured to the corners of said base and having longitudinal panel-receiving grooves in proximity to the edges thereof, horizontal bracing members secured to said uprights and adapted also to support a wash tub, motor, gearbox and ancillary equipment of the washing machine, panels for closing the sides of the casing or cabinet inserted

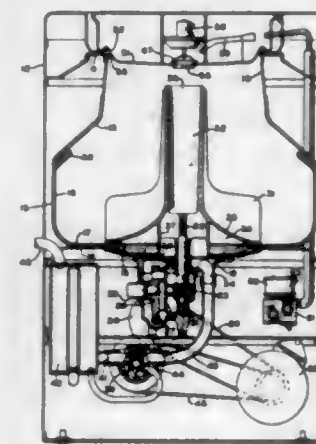
in said grooves and a removable platform secured to said horizontal bracing members and having the wash tub, a motor driven belt for carrying a fur garment with the lining against the belt and presenting the fur side to the



motor, gearbox and ancillary equipment of the washing machine attached thereto, said platform adapted also to stiffen the casing or cabinet.

2,712,229  
COLLAPSIBLE BAG WASHER AND EXTRACTOR  
John Paul Jones, South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware  
Continuation of application Serial No. 45,347, August 20, 1948. This application October 17, 1952, Serial No. 315,263

12 Claims. (Cl. 68—21)

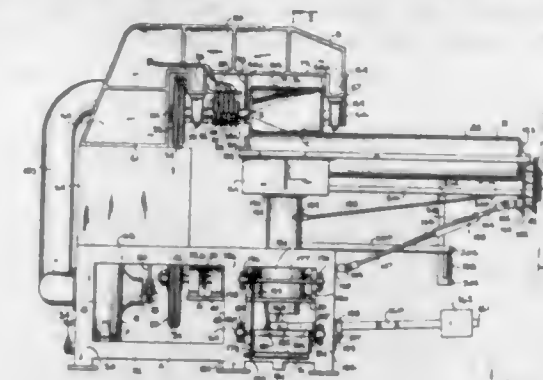


7. A collapsible bag washer and extractor for laundry comprising an air-tight and water-tight collapsible, flexible bag, an agitator oscillatory about a vertical axis within said bag, a hollow conduit coaxial with the axis of said agitator, said agitator having an imperforate central portion and said conduit communicating with the upper portion of the interior of said bag through a top opening inlet in the upper portion of said agitator adjacent the level of the washing fluid in the bag, and means to drain air, vapor and washing fluid from said hollow conduit and from under said agitator to the outside of said bag by creating a vacuum within said bag.

#### 2,712,230 MACHINE FOR PROCESSING FUR AND PILE FABRICS

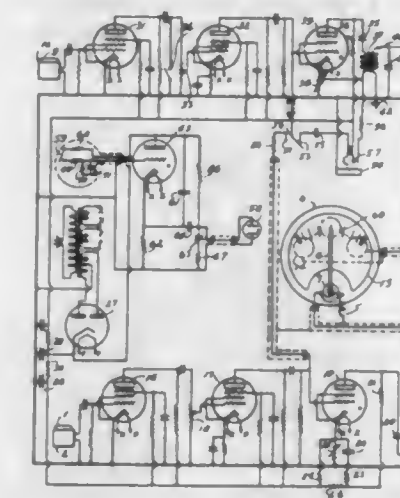
Rudolph S. Schaab, Bronxville, and John Edward Tiso, New York, N. Y.  
Application September 27, 1949, Serial No. 118,133  
4 Claims. (Cl. 69—27)

1. A fur processing machine comprising a frame, a motor driven high speed grooved ironing roller rotatably mounted in the upper part of said frame, a depending enclosure provided with an exhaust with its side walls extending down around the sides of said ironing roller with the bottom of the roller left unenclosed and free,



roller, a carrier for said belt and means to elevate and lower the carrier vertically directly under the roller.

2,712,231  
TIMING APPARATUS  
Jack L. Frolow, Atlantic City, N. J.  
Application October 24, 1949, Serial No. 123,295  
10 Claims. (Cl. 73—6)



1. Apparatus of the character described for providing a reference member in a timing device which will oscillate smoothly with a large amplitude at an exact frequency and whose positions can be compared with the timing of periodic impulses, comprising a system responsive to a single impulse to oscillate between two extreme positions a plurality of cycles smoothly, with a large amplitude and low energy losses at a natural frequency; means for converting standard periodic impulses, the natural frequency of said system having substantially an integral relation with the frequency of said standard periodic impulses, and the frequency of said standard periodic impulses being independent of said system, into electrical impulses having a frequency having a fixed relation with the frequency of said standard periodic impulses; and means for driving said system by said electrical impulses, the frequency of said electrical impulses being independent of said system.

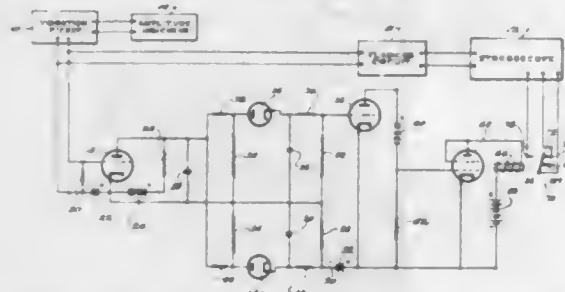
2,712,232  
BALANCING APPARATUS  
George S. Pfeiffer, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application May 10, 1951, Serial No. 225,508  
7 Claims. (Cl. 73—66)

1. In an apparatus for balancing a rotating body, a vibration pickup and flashing circuit to provide signal pulses in response to the vibrations of the body, a stroboscope coupled to the flashing circuit to illuminate the rotating body in synchronization with the signals from the vibration pickup in order to determine the phase of the vibrations in relation to the rotary position of the body, a circuit including switching means connected to the stroboscope to produce a noticeable change in the opera-



tion of the stroboscope, a control circuit connected between the pickup and the switching means to operate the switching means when the signal from the pickup passes through a maximum value, the control circuit including

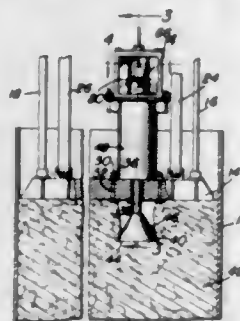


first and second signal paths, means connecting the outputs of the paths in opposition, rectifiers in the respective paths, components in the first path providing a relatively short time delay, and components in the second path providing a relatively long time delay.

2,712,233

**BALE WEIGHT INDICATOR**

Charlie J. Raynor, Rocky Mount, N. C.  
Application March 19, 1953, Serial No. 343,390  
7 Claims. (Cl. 73-141)



1. A cotton compressor comprising a container, a trampler movable into and out of said container, said trampler having an aperture therein, a plunger slidably mounted in said aperture and extending into contact with the cotton below said trampler, a spring mounted on said trampler and engaging said plunger, said spring yieldingly urging said plunger into projected relation with said trampler, a switch mounted in the path of travel of said plunger, resilient means urging said switch toward said plunger, adjustable means limiting the approach of said switch toward said plunger.

2,712,234

**WORK MEASURING APPARATUS**

Ciro Lawrence Bommarito, Medford, and Wilbur J. Harvey, North Andover, Mass., assignors to the United States of America as represented by the Secretary of the Army  
Application December 10, 1953, Serial No. 397,495  
6 Claims. (Cl. 73-141)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



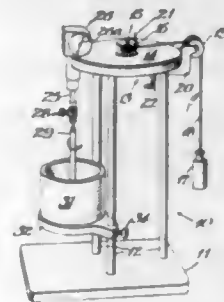
1. Apparatus for measuring the work required to pull a trailing load comprising supporting means secured to the load, means forming a guide slot extending longitudinally of the line of movement of the load and secured to said supporting means, a reciprocating member connected with the supporting means for movement longitudinally of the guide slot and adapted for connection with a source of pulling power, resilient means engaging the reciprocating member to resist movement of

the same in the direction of the pulling force, a head secured to said reciprocating member for movement therewith and having a part engaging said guide slot to prevent rotation of the head and reciprocating member, a recording stylus secured to the head and bodily movable with the head and reciprocating member, a web of recording paper adapted to be moved transversely of the line of movement of the reciprocating member and stylus, a rotary platen receiving the web of recording paper and supporting the same for contact with the stylus, supply and take-up rolls for the web of recording paper arranged upon opposite sides of the platen and receiving the web, driving connecting means between the rotary platen and take-up roll, reduction gearing connected with the rotary platen for operating the same at a relatively low speed of rotation, a ground engaging wheel connected with the load in spaced relation to said supporting means, gearing connected with the ground engaging wheel and driven thereby, and a flexible drive shaft connecting the last-named gearing and said reduction gearing so that movement of the load in one direction will effect feeding of the web of graph paper simultaneously with the movement of said reciprocating member.

2,712,235

**PAINT TESTING MACHINE**

Harold R. Harlan, San Francisco, Calif.  
Application August 25, 1952, Serial No. 306,148  
8 Claims. (Cl. 73-150)



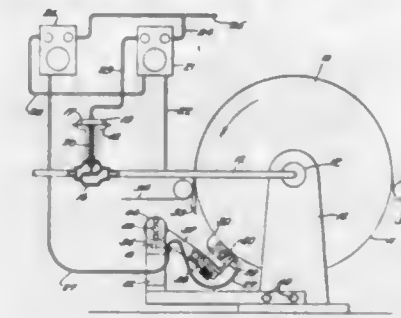
6. A testing device of the character described comprising a cylindrical vessel for holding a test liquid and providing a surface for a test film thereof above the liquid level, means for rotating said vessel, a bristled brush assembly comprising a plurality of radially arranged brushes, means including a shaft for mounting said brush assembly axially within said vessel in brushing contact with the interior surface thereof with substantially no vertical load, a lever having a fulcrum, a counterweight carrier by said lever, a scale cooperable with said counterweight, and means operatively connecting said shaft with said lever to rock the lever when said shaft is rotated, said counterweight being adjustable and cooperable with said scale to counterbalance the force tending to rotate the shaft and to indicate the degree of said force.

2,712,236

**SURFACE TEMPERATURE MEASURING DEVICES**  
Andrew E. Bennett, Hingham, and Daniel S. Brown, North Quincy, Mass., assignors to Mason-Nellan Regulator Company, Boston, Mass., a voluntary association doing business under the laws of Massachusetts  
Application February 16, 1951, Serial No. 211,336  
13 Claims. (Cl. 73-351)

1. A device for measuring the surface temperature of a moving body in connection with the drying of sheet material, comprising, a fluid filled thermal system including a bulb having a substantially flat base disposed at a selected operating position proximate to the surface of said moving body, pivotal means on which said bulb is mounted having an axis disposed transverse to the direction of movement of said moving body about which axis said bulb is freely movable when said bulb is at said selected operating position measuring the surface

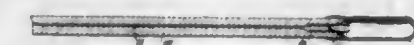
temperature of said moving body, and relatively rigid means in operative connection with said bulb engaging the surface of said moving body at points apart from the axis of said pivotal means and providing a selected minute unobstructed spacing between the base of the said bulb



2,712,237

**CLINICAL THERMOMETER**

Frederick J. Margolis, Kalamazoo, Mich.  
Application August 14, 1951, Serial No. 241,711  
7 Claims. (Cl. 73-371)

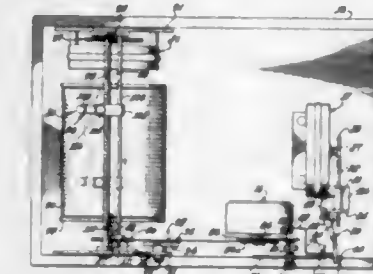


1. A thermometer including a glass tube formed with a bore and a bulb, a metallic tube extending into and sealingly engaging said bore, said tube also extending into said bulb, a constriction forming a part of the bore of said metallic tube and appearing in the form of an indentation upon its outer face and the material of said glass tube keying into said indentation.

2,712,238

**PRECISION BAROGRAPH**

David E. Copple, Los Angeles, Calif., assignor to Arch F. Munter, doing business under the name and style of the American Paulin System, Los Angeles, Calif.  
Application April 26, 1952, Serial No. 284,594  
2 Claims. (Cl. 73-386)

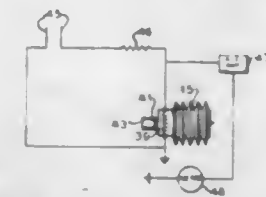


1. In a portable field barograph, the combination of: a pressure responsive means having a pressure indicating arm limitedly movable from null position in response to pressure changes; an oscillatable assembly intermittently movable into contact with said arm for sensing position changes of said arm; drive means for intermittently oscillating said assembly at predetermined time intervals, said pressure responsive means including a rotatable shaft extending therefrom and a gear carried on said shaft; a ratchet wheel shaft supported parallel to said rotatable shaft and carrying a gear meshed with said gear on said rotatable shaft; a ratchet wheel carried by said ratchet wheel shaft and intermittently actuated by responsive contact of said oscillatable assembly with said pressure indicating arm, said rotatable shaft for said pressure responsive means being provided with means for connecting and transmitting rotation of said rotatable shaft to an associated recording means.

2,712,239

**PRESSURE DETERMINATION DEVICE**

Ralph J. Havens, Arlington, Va.  
Application August 4, 1949, Serial No. 108,627  
10 Claims. (Cl. 73-399)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

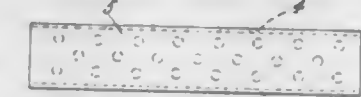


1. A voltage modulating gas pressure responsive device comprising an expansible and a contractible chamber, a restricted orifice communicating with said chamber and adapted to communicate with a pressure source, an electrical conductor disposed in said chamber, an electrical source connected to said conductor for impressing a substantially constant potential thereon, means for continuously expanding and contracting said chamber a predetermined amount and at a predetermined frequency, the resulting change in pressure within said chamber varying the conductivity of said conductor, thereby producing a modulating alternating current potential therein the average value of which is proportional to the pressure at said pressure source, an amplifier connected to said conductor for amplifying said modulated alternating current potential and indicator means connected to said amplifier for indicating the pressure at said pressure source.

2,712,240

**BOURDON TUBES AND LIKE RESILIENT, PRESSURE-RESPONSIVE TUBULAR ELEMENTS**

Christopher Hodgson Booth, Bath, England  
Application September 25, 1953, Serial No. 382,419  
5 Claims. (Cl. 73-418)



1. For use in a pressure responsive instrument, a pressure responsive unit comprising a tubular element capable of flexing transversely to its length under changing internal and external pressure differences and comprising two flexible strips in face-to-face relationship and secured to each other along two laterally spaced longitudinal seams thereby forming an elongated tube between the seams flat in cross-section and further secured together intermittently intermediate in the width of the strips, between the seams, thereby preventing substantial separation of the strips under internal pressure within the working range of the element, a pressure tight closure at one end of the tube and means at the other end for connecting the tube in pressure-tight relation to a source of pressure, the tube being curved about at least one axis transverse to its length and having one end free for movement, by flexing of the tube.

2,712,241

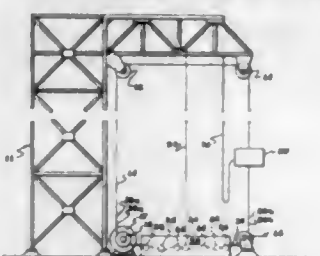
**AUTOMATIC INSTRUMENT POSITIONING AND CONTROL APPARATUS**

Alfred P. D. Stokes, Oakland, Calif.  
Application June 3, 1952, Serial No. 291,585  
16 Claims. (Cl. 73-432)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A control for a motor comprising a movable conductive line, a contact member over which and in contact with which said conductive line may move, an electrical control circuit for said motor, means connected to said motor for moving said movable conductive line, said movable conductive line and said contact member being a part



of said electrical control circuit for said motor, means for breaking the contact between said movable conductive

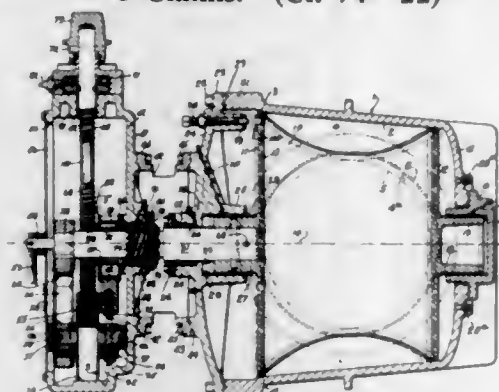


line and said contact member, and means for stopping said motor, said last named means being operable to stop said motor in response to said breaking of contact.

2,712,242

# ROTARY PLUG VALVE AND APPARATUS FOR OPERATING SAME

David G. Davis, Beverly Hills, Calif., assignor to David G. Davis, Beverly Hills, Calif., as trustee  
Application April 15, 1950, Serial No. 156,103  
8 Claims. (Cl. 74-22)



1. In a lift-turn structure for a device having an axis of rotation: an arm mounted on the device for moving the device through an angle about said axis; an operator for the arm, movable in a direction transverse to the arm, said arm having three surfaces adapted to be contacted by the operator in succession, said three surfaces including a pair of end surfaces and an intermediate surface; the operator being effective to move the arm only when in contact with the intermediate surface; said device having threads coaxial with said axis; a threaded rotary member engaging the device threads and restrained against axial movement; a pinion attached to the threaded member; a rack engaging the pinion; a guide for the rack pivotally mounted on the said axis; a rack actuator connected to the operator; and a swingable connection between the actuator and the rack.

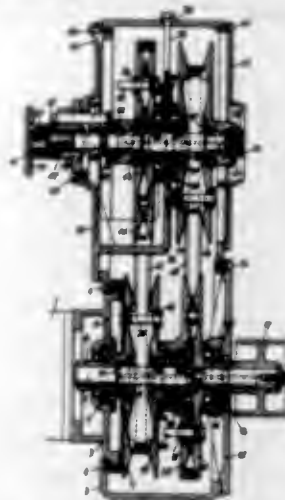
2,712,243

# V-BELT GEARING

Jean Alder, Zurich, Switzerland  
Application May 21, 1951, Serial No. 227,325  
Claims priority, application Switzerland May 22, 1950  
17 Claims. (Cl. 74-230.17)

1. An infinitely variable V-belt gearing comprising a casing, a driving shaft and a driven shaft journaled in the said casing coaxially in alignment with one another for independent rotation, an axle restrained from rotating but longitudinally shiftable arranged parallel to the said two shafts in the said casing; four V-belt pulleys each including a pair of cooperating frusto-conical discs, the discs of each pair being coupled with one another for rotation and axially shiftable with respect to one another, one of the said pulleys being coupled with the driving shaft, a second one with the said driven shaft, and the third and fourth one journaled freely rotatable directly on the said axle in the same planes as the said first and second V-belt pulley, respectively, an endless V-belt running over the said first and third pulley, and another endless V-belt running over the said second and fourth pulley, the adjacent frusto-conical discs of the said first and second V-belt pulleys being coupled with one another for axial movement but free to rotate relative to one

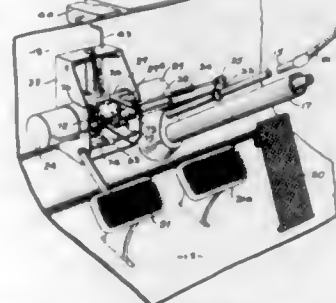
another, the adjacent frusto-conical discs of the said third and fourth V-belt pulleys being both axially restrained relative to the said casing and the two remote frusto-conical discs of the said third and fourth V-belt



2,712,244

# TRANSMISSION OPERATING MECHANISM

Theodore I. Millen, Toronto, Ontario, Canada  
Application December 29, 1953, Serial No. 400,911  
30 Claims. (Cl. 74-334)



1. An apparatus comprising a power operated motor member which when activated oscillates between two positions, a relay mechanism for the transmission of power to the motor member and conditionable to an active condition where it effects the activation of the motor member and to an inactive condition at which the motor member is freely movable, operator actuated means conditioning the relay mechanism to the active condition causing movement of the motor member from one position to the other, the relay mechanism including means responsive to the position of the motor member to establish movement of the motor member toward one position if the motor member is at the other position when the relay mechanism is conditioned to the active condition and to establish movement of the motor member towards the said other position if the motor member is at the said one position when the motor member is conditioned to the active condition, and means conditioning the relay mechanism to the inactive condition when movement of the motor member from a position to the alternative position has been assured.

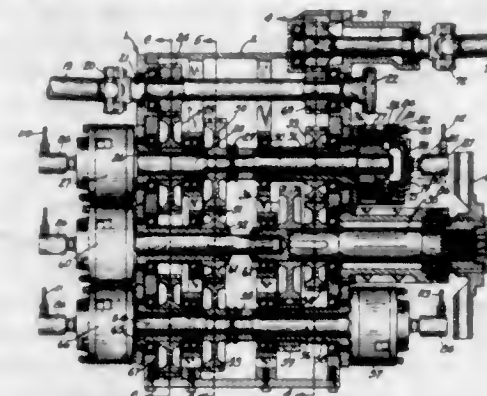
2,712,245

# HYDRAULICALLY CONTROLLED TRANSMISSION

Arthur L. Lee, Columbus, Ohio, assignor to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application January 31, 1951, Serial No. 208,680  
19 Claims. (Cl. 74-360)

1. In a selective transmission mechanism, the combination comprising a transmission housing, an input shaft journaled in said housing, a tubular shaft, constantly meshing gearing connecting said input shaft to said tubular shaft, a second tubular shaft axially aligned with said first mentioned tubular shaft, said tubular

shafts journaled in said housing, shafting extending axially through said tubular shafts, a clutch arranged exteriorly of said housing for connecting said shafting to said first mentioned tubular shaft, a clutch arranged exteriorly of said housing for connecting said shafting to said second mentioned tubular shaft, an output shaft

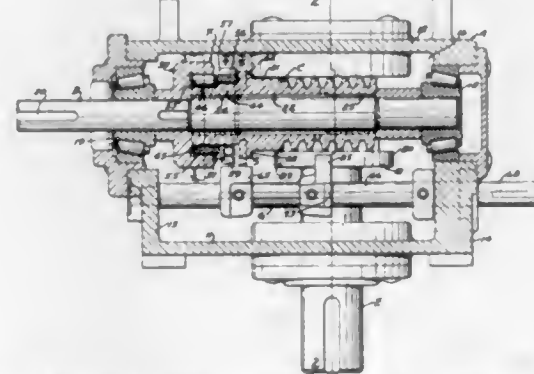


journaled in said housing, and driving connections between said second mentioned tubular shaft and said output shaft, said clutches arranged exteriorly of said housing as aforementioned, and said tubular shafts having portions projecting from said housing and carrying elements of said clutches.

2,712,246

# GEAR REDUCER AND DRIVING-CLUTCH ARRANGEMENT

Joseph J. Zakrajsek, Willoughby, Ohio, assignor to The Ohio Gear Company, Cleveland, Ohio, a corporation of Ohio  
Application September 16, 1953, Serial No. 380,489  
3 Claims. (Cl. 74-426)



1. In gear-reduction mechanism, a drive shaft adapted to be continuously rotated in one direction, a driven member having an outwardly facing surface mounted on said drive member fastened to said drive shaft and having an inwardly facing surface spaced from said outwardly facing surface, said driven member surface being arcuate and having a center of curvature on the opposite side of and spaced from the axis of rotation of said shaft, a wedge member disposed between said surfaces, a collar mounted on said driven member and disposed between said surfaces and having a slot to receive said wedge, said collar also having a shoulder facing in the direction of rotation, said driven member including a gear member, a driven gear engaged with said driven-member gear, a cam member rotatable with said driven gear and means operatively associating said cam member with said collar whereby to disengage said wedge member after a predetermined rotation of said cam member.

2,712,247

# MANUFACTURE OF TYPE BARS

John W. Quadt, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York  
Application October 19, 1953, Serial No. 386,785  
2 Claims. (Cl. 76-107)

1. A method of making a punch with a matrix forming character concavely curved from top to bottom, com-

prising the steps of producing a distorted punch character tapered toward the base with a flat face and with the elements of the face widened at the top and bottom

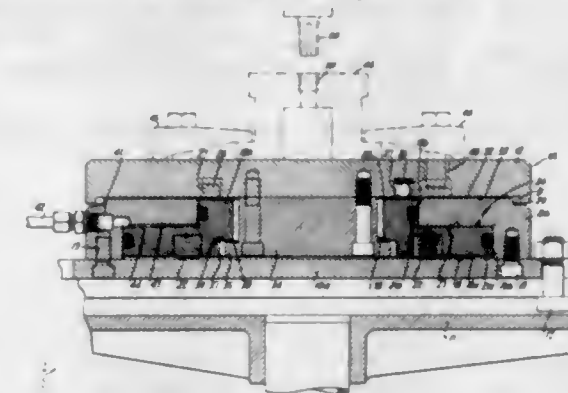


and narrowest midway therebetween, and milling said distorted punch character latitudinally across the face thereof to the appropriate depth to produce an undistorted character with a concave face.

2,712,248

# FIXTURE FOR MACHINE OPERATIONS LIKE TAPPING

David A. Gustafson, Oakland, Calif., assignor to Grove Valve and Regulator Company, Oakland, Calif., a corporation of California  
Application September 29, 1951, Serial No. 248,949  
4 Claims. (Cl. 77-63)

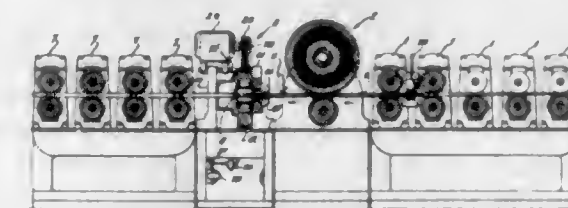


1. In a fixture of the character described, a base adapted to be fixed to the supporting table of a machine, said base being bored on two separate concentric diameters, a piston having two axially displaced portions formed on two different diameters and adapted to fit within the base, means for sealing the two portions of the piston relative to the base, means for applying fluid under pressure to one side of said piston to cause the same to move in one direction, a work supporting plate carried by the base, said plate having limited freedom of movement relative to the base, means forming a shoulder secured to said plate, said piston having an annular shoulder face disposed in opposed proximity with said first named shoulder face, movement of said piston responsive to application of fluid under pressure serving to force said shoulder faces together to clamp said plate in fixed relation with the base.

2,712,249

# MACHINE FOR FLATTENING INTERNAL BEADS IN WELDED TUBING

Walter Siegerist, University City, Mo., assignor, by mesne assignments, to Continental Foundry & Machine Company, East Chicago, Ind., a corporation of Delaware  
Application March 10, 1950, Serial No. 148,883  
6 Claims. (Cl. 78-21)



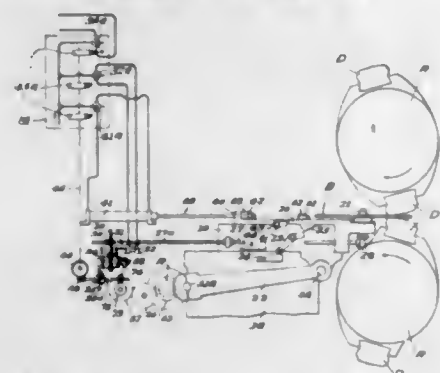
6. In a machine operating continuously to form welded seam tubing from skelp and remove the external bead after welding: the improvement of internal bead flattening means including a cage assembly having a



sleeve and a through bore for the formed tubing; an anvil positioned in the through bore within the formed tubing; means fixing the anvil position and extending along the formed tubing to a point of connection with the machine adjacent the skelp; a pulley rotatably carried by said cage and surrounding the position of said anvil within the formed tubing; hammer means in said sleeve embracing the tube about said anvil; a plurality of circumferentially spaced roller elements carried within said pulley in position to engage said hammer means and displace said hammer means periodically radially inwardly to flatten the internal bead in the tubing against said anvil, said hammer means being free to move axially a limited distance relative to said sleeve in the direction of tubing movement through said cage during inward radial displacement thereof by said roller elements; and resiliently displaceable means adjacent said hammer means to move the latter reversely to the direction of tubing movement during the intervals when said roller elements are out of engagement with said hammer means.

2,712,250

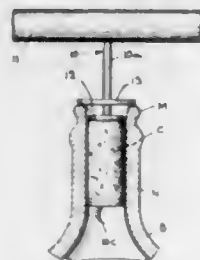
**FEED TABLE AND INDEXING MEANS THEREFOR**  
Stephen Badlam, Rosslyn Farms, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware  
Application December 27, 1948, Serial No. 67,527  
18 Claims. (Cl. 80—16)



1. A feed table for alternately feeding and withdrawing work blanks to and from a machine for processing the blanks comprising a workholder, a movable support for the workholder, means for reciprocating the support toward and away from the machine, means for engaging the workholder with the support for a forward stroke, and means for disengaging the workholder from the support for a return stroke.

2,712,251

**CORKSCREW DEVICE**  
Alfred H. Hanson, Garrison, N. Y.  
Application March 18, 1953, Serial No. 343,093  
3 Claims. (Cl. 81—3.45)

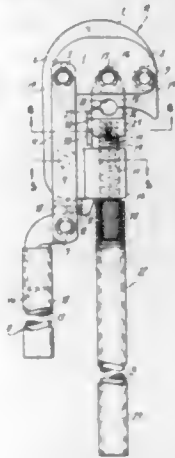


1. A device for removing a cork from the neck of a bottle, said device comprising an elongated cylindrical shaft, an abutment means fixedly circumposed on the shaft intermediate the ends thereof and having a circular, rigid planar bottom surface disposed transverse to the axis of the shaft, said shaft including a screw end portion extending from the bottom surface of the abutment means and being helically turned from said bottom surface to its outer end, said outer end thereof terminating in a pointed cork piercing tip, said bottom surface being of a diameter

only slightly greater than the diameters of the turns of the screw end to abut the top surface of a cork as the screw end is turned to its full inserted position in a cork, said bottom surface of the abutment means being formed to cover the major portion of the top surface of a cork to force the cork downwardly in the neck upon an axial downward movement of the shaft, said shaft including a straight end portion extending from the abutment means in a direction opposite to the screw end portion, a handle provided on the outer end of the straight end, a stop means fixedly secured on the straight end portion and having a stop surface disposed parallel to and spaced axially from the bottom surface of the abutment means, said stop surface extending radially beyond the bottom surface of the abutment means and being provided to abut the mouth of the neck of a bottle and to limit the downward movement of the bottom surface of the abutment means, screw end portion and cork in the neck of the bottle, and said stop surface being spaced from the bottom surface of the abutment means a sufficient distance to allow the cork to be pushed downwardly in the neck far enough to break its bond while preventing the cork from being pushed downwardly entirely out of the neck of the bottle.

2,712,252

**PIVOTED TOOL FOR COMPRESSING ELECTRICAL CONNECTORS**  
Alfred R. Landis, St. Johns Station, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri  
Application May 23, 1952, Serial No. 289,616  
2 Claims. (Cl. 81—15)



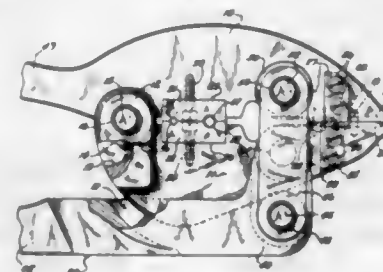
1. A pressure tool comprising a head, a first die member, means comprising elongated plate elements disposed at opposite sides of said head for supporting said first die member, a recess formed in said head for receiving said first die member, pivot means for pivoting one end portion of each of said plate elements to said head, a second die member supported by said head in opposing relation to said first die member, means for adjusting said second die member toward said first die member, and means for subjecting said plate elements to pivotal movement for moving said first die member toward said second die member, the last-mentioned means including a handle pivoted to said head, and a pair of links pivotally attached at corresponding ends thereof to the other end portion of each of said plate elements and pivotally attached at opposite corresponding ends thereof to said handle.

2,712,253

**FORMING AND SHEARING TOOLS**  
George S. Kontra, Sr., Oshkosh, Wis.  
Application January 2, 1953, Serial No. 329,365  
1 Claim. (Cl. 81—15)

In a forming tool: a first jaw having an outer end portion and a handle portion remote from said outer end portion; a second jaw having an outer end portion; means pivotally connecting the second jaw to the first

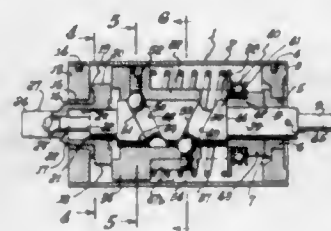
jaw intermediate the handle and outer end portion of the latter; a toggle lever pivotally connected to a portion of said second jaw inwardly of the outer end of said jaw, said lever having an elongated handle portion cooperative with the handle portion of the first jaw for manipulation of the tool; a toggle link pivotally connected to a portion of the first jaw inwardly of the outer end portion thereof and to said toggle lever at a point spaced



from the pivotal connection of said lever with said second jaw, the pivotal connection of said toggle lever with said jaw being located between the two pivots of said toggle link when the outer end portions of the jaws are in substantial abutment, intermediate adjacent portions of said jaws, and complementary forming dies between the pivotal connection of the jaws and the pivot of the toggle lever on the second jaw.

2,712,254

**POWER DRIVEN IMPACT TOOL**  
Carl Theodore Schodeberg, Los Angeles, Calif.  
Application May 14, 1953, Serial No. 355,100  
3 Claims. (Cl. 81—52.35)



1. In a rotary impact tool mechanism: a driven tool holding member, a rotary driving member; said members being rotary on a common axis, and having interengaging elements by the aid of which a drive may be effected, said driving member being axially movable to couple and uncouple the members; a resilient means urging said members to coupling position; a shaft mounted on said common axis and adapted to be power rotated; said shaft having a pair of axially spaced peripheral grooves each in the form of a closed loop and symmetrically oblique to the axis; and projections on diametrically opposite parts of the driving member and respectively entering said grooves.

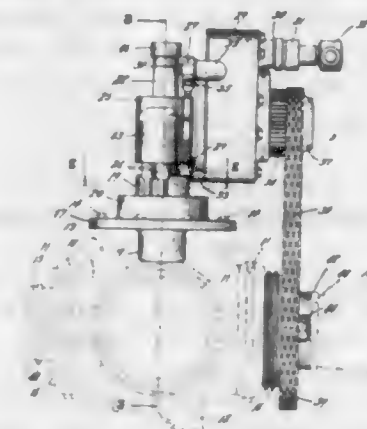
2,712,255

**GEAR-OPERATED MACHINE WRENCH FOR PROPELLER BLADE NUTS**  
Edward T. Able, Denver, Colo., assignor to B. K. Sweeney Mfg. Co., Denver, Colo., a corporation of Colorado  
Application February 2, 1953, Serial No. 334,397  
10 Claims. (Cl. 81—57)

1. A wrench device for rotating propeller blade ring nuts in the hub of an airplane propeller, comprising: a base member adapted to be axially mounted on said hub; a frame member; means for supporting said frame member in adjustable spaced relation on said base member; a first power transmission device mounted on said frame member; a driving means mounted on and rotatable by said first power transmission device; a driven means adapted to surround a blade of said propeller; a second power transmission device transmitting torque from

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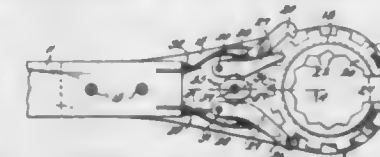
said driving means to said driven means; a means on said driven means adapted to engage the ring nut of the



latter propeller blade; and means for actuating said power wrench.

2,712,256

**OPEN RATCHET WRENCH**  
Herbert L. Fish, Inglewood, Calif., assignor to Tubing Appliance Company, Inc., Los Angeles, Calif., a corporation of California  
Application June 28, 1951, Serial No. 234,077  
4 Claims. (Cl. 81—58.2)

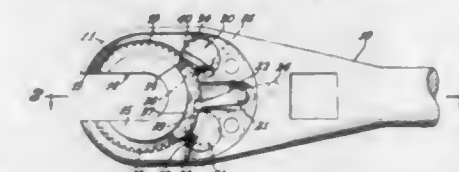


1. A wrench comprising a head having an annular bore therein and an open slot extending from the exterior of the head into said bore, a handle element fixed to said head for rotating the same, a hub journaled for rotation in said bore, said hub having an opening formed with a wall concentric with the axis of rotation of the hub, said hub also having an open slot extending from the exterior thereof into said opening and adapted to register with the slot in the head in one rotative position of the hub, ratchet drive means operatively connecting the head and the hub whereby the hub may be rotated upon rotation of the head, said ratchet means comprising an annular series of teeth formed on the periphery of said hub, two pairs of pawls mounted in said head, the pawls of each pair being alternately engageable with said teeth to rotate said hub in one direction or the other depending on the direction of rotation of the head, and means mounted in said head and alternately engageable with pairs of said pawls to hold them out of engagement with said teeth, said last mentioned means comprising a double headed cam rotatable in said head and engageable with a selected pair of said pawls to hold said engaged pawls out of driving engagement with said teeth.

2,712,257

**OPEN END RATCHET WRENCHES**  
Herbert L. Fish, Inglewood, Calif., assignor to Tubing Appliance Co. Inc., Los Angeles, Calif., a corporation of California  
Original application April 27, 1945, Serial No. 590,577, now Patent No. 2,578,686, dated December 18, 1951. Divided and this application December 5, 1951, Serial No. 259,970

8 Claims. (Cl. 81—62)



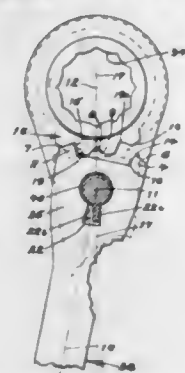
1. A socket wrench comprising a body having an open slot at one end, a hub rotatable in said body and



formed with an open slot, gripping means co-acting between said body and said hub whereby said hub may be forcibly rotated, co-axial recesses on said hub and said body each axially aligned with the respective slots and a resiliently controlled pin in the body recess and engageable with the hub recess when the respective slots are in alignment.

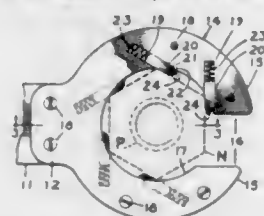
**2,712,258**  
**SPRINGLESS REVERSIBLE RATCHET TYPE WRENCH**

Jason D. Keith, Ocean Park, Calif.  
Application March 29, 1954, Serial No. 419,375  
2 Claims. (Cl. 81-63)



1. In a reversible wrench: a barrel having a polygonal wrenching aperture, said barrel including trunnion portions at its respective ends and an intermediate body portion of enlarged diameter provided with peripheral teeth; a pair of cheek plates including bearing rings in which said trunnions are journaled and shank portions projecting radially from said bearing rings in spaced parallel relation; a handle having one end portion embraced between said shank portions and having in said end portion an opening including a circular area and an extension area of limited circumferential extent, projecting toward the other end of the handle, said handle having a cylindrical wall defining said circular area and a pair of opposed stop shoulders defining the sides of said extension area; and a fulcrum pin extending through said opening and secured at its ends to said cheek plate shanks, said pin including a cylindrical body portion fitted within said cylindrical wall with just sufficient clearance for free oscillation of the handle between the cheek plate shanks, and including an integral radially projecting stop lug extending into said extension area with clearance between said stop shoulders such as to accommodate a few degrees of oscillation of the handle with reference to the cheek plates and engaging said shoulders at respective limits of such oscillation to prevent further relative oscillation; said handle having at said one end, dogs disposed symmetrically on opposite sides of said opening and engageable with said barrel teeth for establishing respective driving connections between the handle and the barrel in opposite directions of wrenching operations, said dogs being positioned for full engagement with said teeth simultaneously with limiting engagement of said fulcrum pin lug with respective stop shoulders.

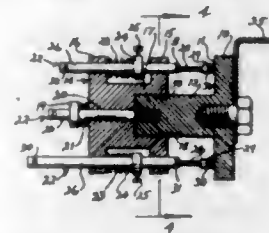
**2,712,259**  
**OPEN ENDED RATCHET WRENCH**  
Harvey J. Cowell, Petersburg, Ill.  
Application May 7, 1953, Serial No. 353,635  
1 Claim. (Cl. 81-179)



A wrench comprising a handle, a generally C-shaped head at one end of said handle having an inner seg-

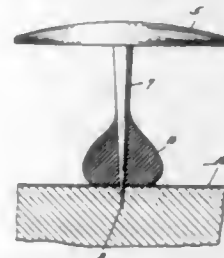
mental circular wall defining a nut receiving space, said head having spaced ends providing a work receiving space opening into said nut receiving space, a plurality of elongated sockets in said head opening through said wall and having their axes tangential to said wall, a coil spring in the bottom of each socket, a nut engaging jaw member in each socket normally projecting through the open end thereof by said spring and a polygonal shaped adapter having one open face, the outer polygonal walls of said adapter being in contact with the spring urged jaw members to thereby retain said adapter within the nut receiving space.

**2,712,260**  
**ROLL STOP GAGE PIN HOLDER**  
John T. Wright, Philadelphia, Pa.  
Application August 7, 1953, Serial No. 372,838  
6 Claims. (Cl. 82-21)



1. A roll stop gage pin holder and positioner comprising a base plate having a smooth and even working face, a gage pin holder rotatably mounted in front of said base plate, and gage pins slidably mounted on the holder for longitudinal movements parallel to the axis of said holder with the inner ends of said pins in contact with the working face of the base plate and the outer ends thereof projecting beyond the outer portion of the holder.

**2,712,261**  
**THUMB TACK HAVING RUBBER POINT GUARD**  
Lincoln D. Anderson, Hanford, Calif.  
Application December 28, 1951, Serial No. 263,730  
1 Claim. (Cl. 85-16)

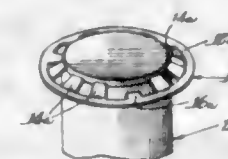


A thumb tack comprising a head, a pointed shank extending from the head, a rubber bulb molded on the pointed end of said shank in spaced relation with the head and guarding the pointed end of the shank and normally concealing said pointed end of the shank, said pointed end of the shank adapted to be extended through said rubber bulb, and said rubber bulb adapted to move over said shank to a position between the head of the thumb tack and article supported thereby, holding said article against accidental displacement.

**2,712,262**  
**RETAINER HAVING CENTERING AND ANTI-TILTING MEANS**  
Friedrich Karl Knoch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application June 28, 1951, Serial No. 234,033  
3 Claims. (Cl. 85-36)

1. A sheet metal retainer washer comprising a narrow substantially flat circular body having a central aperture therein, a set of three prongs substantially coplanar with said body and spaced equally about the periphery of and extending radially from a margin of said body, the end faces of said prongs being disposed substantially parallel

to the washer axis ensuring centering of the washer body relative to the complementary work surface with which the retainer washer is adapted to be associated, a second set of prongs of the same general configuration as said first set and consisting of a plurality of circumferentially spaced axially deflected flexible prongs extending from the same margin of the body as and between each of the coplanar prongs, said second set of prongs having greater radial extent than said first set of prongs and provided



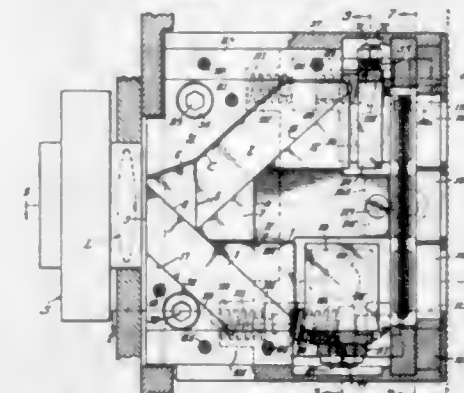
with end faces at their extremities disposed at an acute angle to the washer axis to present work-engaging edges for aggressively engaging the wall surface of the aforementioned complementary workpiece, said prongs having circumferential extent adjacent the margin at least equal to the circumferential extent at their end faces, and a continuous flange extending from the margin of said body opposite the margin supporting the prongs in an axial direction for strengthening the body without increasing the radial thickness thereof.

**2,712,263**  
**MANUFACTURE OF STRINGS**  
Julian T. Crandall, Ashaway, R. I.  
Application September 7, 1949, Serial No. 114,398  
6 Claims. (Cl. 87-1)



1. In the manufacture of strings, the steps of forming a twisted core of thermo-plastic filaments, coating the core with thermo-plastic material, drying, braiding an armor sheath of thermo-plastic filaments around the coated core, coating the braided article with thermo-plastic material, and integrating the core, the sheath and the coatings by heating under tension and then cooling, the thermoplastic material of said core, braided sheath, and coatings having similar physical and chemical properties.

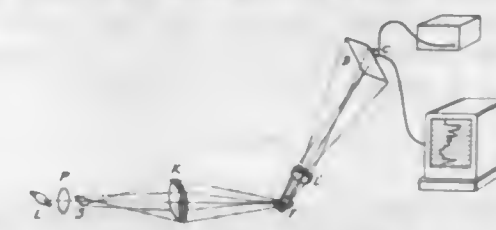
**2,712,264**  
**PRISM BLOCK**  
Frederic E. Oakhill, Wilmette, Ill., assignor to Prismacolor, Inc., Chicago, Ill., a corporation of Illinois  
Application May 11, 1950, Serial No. 161,437  
9 Claims. (Cl. 88-1)



2. In a light separation prism assembly for separating light rays into three light paths, a pair of generally trapezoidal prism blocks including partial reflecting surfaces, one end face of each constituting the light entry face thereof and one side of each of said blocks serving as an internally reflective surface, said blocks being arranged transversely to one another with said light entry faces extending in spaced substantially parallel planes, and intersecting a common optical axis, the face of the

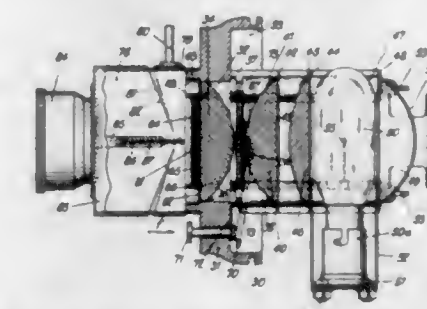
foremost block constituting the light entry face of the assembly, the surface opposite the entrance face of each of the trapezoidal prisms being partially reflecting, and a pair of triangular prisms each having a front face abutting a respective trapezoidal prism opposite said first-mentioned internally reflective surface and each having a rear face constituting a light exit face positioned in a plane extending substantially parallel to said first-mentioned planes with the respective optical axes of said last-mentioned faces being laterally spaced from said first axis.

**2,712,265**  
**REFRACTOMETER**  
Erik Ingelstam, Appelviken, Stockholm, Sweden  
Application October 16, 1951, Serial No. 251,539  
Claims priority, application Sweden November 7, 1950  
5 Claims. (Cl. 88-14)



1. A refractometer for determining the refractive index of a medium in relation to a reference medium of known refractive index by comparing the intensities in a phase contrast image formed of light passed through said media, comprising in combination, means including a light source and an element having a linear slit for producing monochromatic light in the shape of said slit, an optical imaging element for producing an image of said linear slit, a transparent cell located in the beam of light from said slit so near the imaging element as to be out of focus for receiving the medium to be examined and a reference medium, the boundaries between which being substantially parallel to the light entrance slit, a phase contrast element having a slit-shaped central zone and an adjacent bordering zone, said slit-shaped zone being parallel to said light entrance slit for introducing a shift of the phase of light falling onto said slit-shaped zone with respect to the light falling onto the peripheral zones thereof, the slit shaped zone of this phase contrast element being placed approximately at the geometrical image of said light entrance slit produced by said optical imaging element, another optical imaging element placed in the beam of light beyond the phase contrast element for producing an image of the two media in a common plane and means for measuring the intensities of said image responsive to said two media with the view of comparing them.

**2,712,266**  
**APPARATUS FOR VIEWING, PROJECTING OR MAGNIFYING MICROFILMS OR SIMILAR DOCUMENTS**  
Robert Ernest Cherouvrier, Paris, France  
Application August 18, 1952, Serial No. 305,027  
2 Claims. (Cl. 88-24)



1. In an apparatus for viewing and projecting microfilms or similar documents comprising a box having an inclined front face, an aperture provided in said front face, an optical assembly having a head housed in said



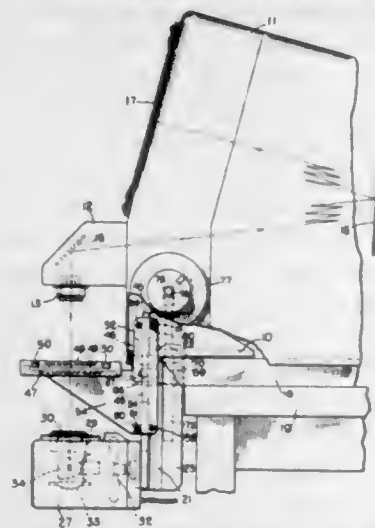
aperture, a pair of supporting folding arms hinged to said box, a lid for the box, hinged to the upper end of said arms, and an optical mirror arranged inside the lid; a projection aperture provided in the head of said optical assembly, a shoulder element located in said aperture, a primary condenser lens of plano-convex shape arranged within said aperture and resting upon said shoulder element, cylindrical rods operatively connected to the head of said optical assembly, around said aperture for the primary condenser lens, struts engaged over said rods, supporting elements clamped between said struts, a secondary condenser lens of plano-convex shape supported by one of said elements, the convex sides of said primary and said secondary lenses being directed towards each other, a third plano-convex lens supported by another one of said elements, a light source, a carrier for the light source mounted upon said rods rearwardly of the third lens, a hemispherical reflector fitted upon said rods rearwardly of the light source, and nuts screwed upon said rods for holding the lenses, said light source and said reflector in proper assembled position.

2,712,267

## STAGE FOCUSING MECHANISM FOR BENCH PROJECTOR

Olin W. Boughton, Canandaigua, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

Application April 19, 1954, Serial No. 424,121  
3 Claims. (Cl. 88-24)



1. A contour measuring projector for measuring objects comprising a base, a downwardly directed objective lens carried by a forwardly projecting portion of said base, an angularly disposed image screen mounted on said base above said objective lens, mirror means mounted on said base in optical alignment with said screen and said objective lens, a bracket depending from the front portion of said base, a housing fastened at one end on the lower portion of said bracket below the plane of the bottom of the base, a light source mounted within the housing, a condenser lens carried by the housing in optical alignment with the light source and the objective lens, horizontally spaced vertically positioned parallel guide tracks carried by said bracket and extending downwardly on opposite sides of the housing, a horizontally positioned vertically movable object stage, a transparent portion through said stage in optical alignment with the condenser lens and the objective lens, a pair of upwardly and a pair of downwardly projecting arms extending from the object stage, each pair of arms being spaced apart a distance slightly greater than the distance between the outer edge portions of the tracks, a pin and a roller horizontally spaced from each other on the outer portion of each arm, said upper arms having said pins mounted on the stage side of the rollers so that said rollers will engage the rear faces of the tracks, said lower arms having the rollers mounted on the stage side of the pins so that said last-

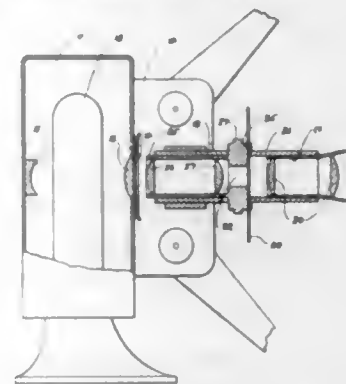
named rollers will engage the front faces of the tracks whereby said rollers will roll smoothly on said tracks, a threaded nut rearwardly projecting from the object stage, a screw member engaging with said nut, and drive means projecting from said base for rotating said screw member for raising and lowering the object stage to focus an object on said stage onto the screen.

2,712,268

## STILL PICTURE ATTACHMENT FOR MOVING PICTURE PROJECTORS

Matthias Dietmann, Vancouver, British Columbia, Canada

Application April 12, 1952, Serial No. 282,027  
7 Claims. (Cl. 88-27)



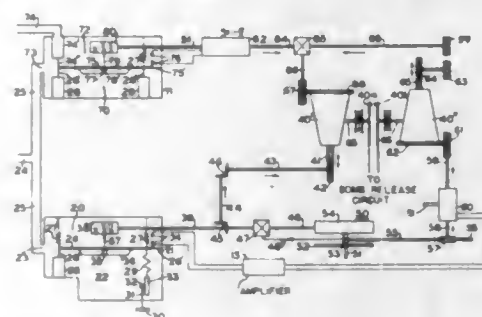
1. A still picture attachment for moving picture projectors comprising aligned mounting and focusing tubes, a base between and connected to the tubes, the mounting tube being adapted to fit into the lens housing of a moving picture projector and the focusing tube slidably to receive the projection lens tube of said projector, an opening in the base extending across the common axis of the tubes, a transverse slot in and opening outwardly from an edge of the base, said slot overlapping the base opening, a carrier mounted adjacent the base, and a supporting shaft extending outwardly from the carrier spaced from the base and extending across the plane of the transverse slot, said shaft being adapted to receive a film frame supporter with the frames thereof arranged in a circular path and to position said path across the base opening.

2,712,269

## AUTOMATIC DIVE BOMBSIGHT

Robert F. Garbarini, Woodside, Lisle L. Wheeler, Garden City, and John R. Ericson, Westbury, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application December 29, 1945, Serial No. 637,978  
10 Claims. (Cl. 89-1.5)



1. Computing apparatus for a dive bombsight on an aircraft having a line of sight fixed with reference to the thrust axis of the aircraft comprising, in combination, automatic means for measuring air-speed, altitude and rate of change of altitude, respectively, each of said automatic means having an output with torque, a three-dimensional cam displaceable by said altitude measuring means in accordance with the altitude of the aircraft and by said air-speed measuring means in accordance with the air-speed of the aircraft, a second three dimensional cam operated by said rate of change of altitude measuring means according to the rate of descent at which

said aircraft must dive to strike a target in the line of sight of said bombsight and means controlled by the cams to produce the action of bomb release.

2,712,270

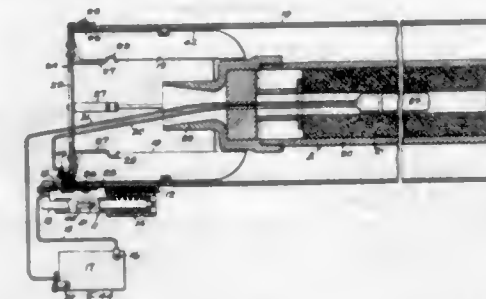
## AMMUNITION RETAINER FOR ROCKET LAUNCHERS

Samuel G. Green, Gray, Ga.

Application March 14, 1950, Serial No. 149,623

4 Claims. (Cl. 89-1.7)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a rocket launcher for launching rocket propelled missiles of the fin stabilized type wherein the rocket propellant is ignited electrically, in combination, a retainer detachably secured across the breech of the launcher, means on said retainer for detachably engaging certain of the fins, of a fin stabilized missile of the rocket propelled type having an electric igniter for ignition of the rocket propellant, to secure the missile in firing position in the launcher, a contact element on the retainer adapted to be electrically connected with the igniter, and a safety mechanism secured to the launcher having a movable contact biased to engage said retainer contact element in the firing position thereof and adapted to being electrically connected with a source of power for energizing the igniter.

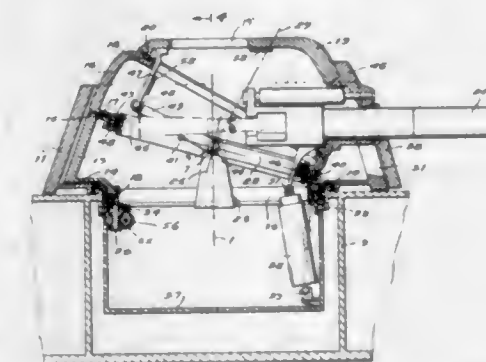
2,712,271

## ADJUSTABLE SUPPORT APPARATUS

Richard E. Wabnitz, Brussels, Belgium

Application June 8, 1953, Serial No. 360,134

Claims priority, application Switzerland May 7, 1949  
12 Claims. (Cl. 89-41)



1. Adjustable support apparatus comprising, in combination, a frame; means supporting said frame for free rotation about a first axis passing through said frame; first positioning means mounted on said frame for free rotation with respect to the latter about said first axis; second positioning means mounted on said first positioning means for rotation with respect to the latter about a second axis inclined to said first axis; a carrier located over said second positioning means and being connected to said frame for rotation therewith about said first axis, said carrier being adapted to carry an article whose position is to be adjusted; and means interconnecting said second positioning means and carrier for rotation with respect to each other about a third axis inclined to said first and second axes, said first, second, and third axes all intersecting each other at a common point.

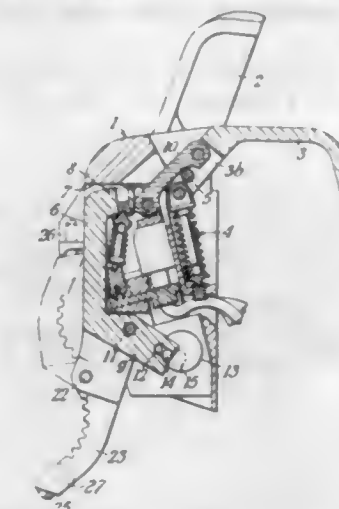
2,712,272

## TRIGGER MECHANISM

Henry William Trevaskis, Solihull, John Joseph Ravenhall, Marston Green, Birmingham, and Douglas Dewar, Wolston, near Coventry, England, assignors to Dunlop Rubber Company Limited, London, England, a British company

Application July 27, 1951, Serial No. 238,804

4 Claims. (Cl. 89-136)



1. A trigger mechanism comprising a housing containing a pivotally mounted trigger lever angularly movable in one direction to operate a gun firing mechanism, a retractable trigger grip pivotally secured to one end of the lever, a spring to urge the grip into an extended position, means to maintain the grip in a retracted position, a safety lever movable alternatively to safety and firing positions, a trigger locking member rotatable by angular movement of the safety lever to safety position to obstruct and prevent operative movement of the trigger lever and rotatable movement of the safety lever to firing position to permit operative movement of the trigger lever and a pivoted safety flap co-operating with the safety lever whereby angular movement of the flap in one direction releases the trigger grip from the retracted position and moves the safety lever to firing position to permit operative movement of the trigger lever.

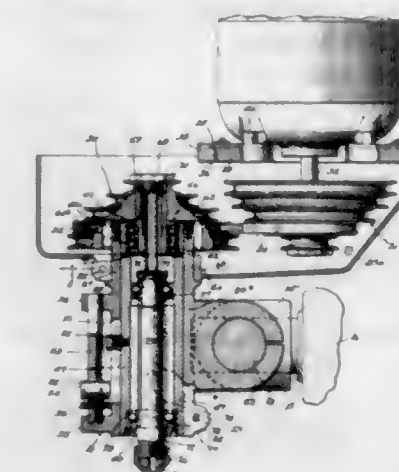
2,712,273

## MILL HEAD

Edward R. Rusnok, Chicago, Ill.

Application April 3, 1951, Serial No. 219,083

9 Claims. (Cl. 90-14)



1. A mill head comprising a housing, a quill mounted on said housing for linear movement relative thereto, resilient means normally maintaining said quill in a retracted position, a tool spindle rotatably mounted within said quill, a quill-actuating element pivotally mounted on said housing, means operatively connected to said quill and to a point on said element spaced from the pivotal axis thereof for transmitting the movement of said element to said quill, a supporting member rotatably mounted on said housing, a spindle-driving unit mounted



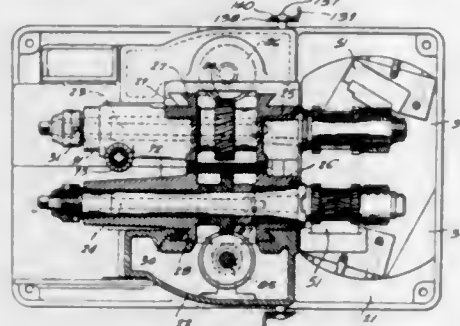
eccentrically on said member, and an operative connection between said unit and said spindle being effected by the relative position of rotational adjustment of said member.

2,712,274

**TWO SPINDLE MILLING MACHINE**

Cyril M. Hajewski, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin

Application December 7, 1949, Serial No. 131,616  
11 Claims. (Cl. 90—15)



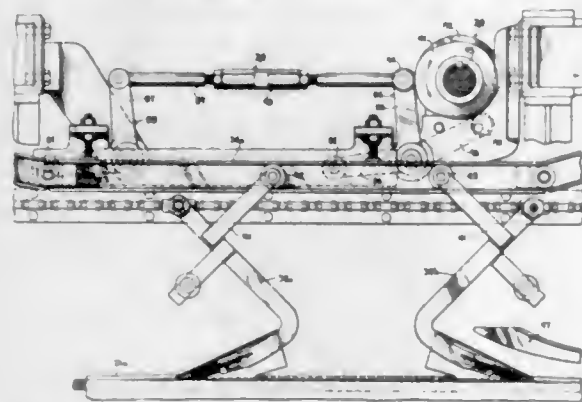
5. In a milling machine having a frame and a base, a pair of spindle heads slidably mounted on said frame, a motor connected to each of said spindle heads to move it by power along said frame, a control element connected to control said motors to determine the direction of movement of said spindle heads along said frame, a control rod extending into one of said spindle heads and connected to actuate said control element when moved to reverse the direction of movement of said motors, an abutment adjustably mounted on said control rod within said spindle head, and a second abutment adjustably mounted on said control rod without said spindle head, said abutments being so arranged and constructed that as said spindle head approaches the end of its stroke, it strikes one or the other of said abutments depending upon its direction of movement to move said control rod and thus actuate said control element to reverse the direction of movement of said spindle heads.

2,712,275

**BAG BOTTOM SHAPING DEVICE**

Franco Gramegna, Milan, Italy, assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York

Application July 11, 1952, Serial No. 298,316  
10 Claims. (Cl. 93—28)



1. In apparatus for forming the bag bottom flaps of a bag tube including: a conveyor for a plurality of said bag tubes for moving same in succession along a common path; a spreader unit; a conveyor for said spreader unit for moving the latter linearly along the path of said bag tubes; said spreader unit comprising: a pair of L-shaped spreader arms pivotally secured to the conveyor therefor, each of such spreader arms having a foot portion, the latter having normally retracted but expansible spreader fingers pivotally secured to the extremities thereof; and means for simultaneously shifting said spreader arms

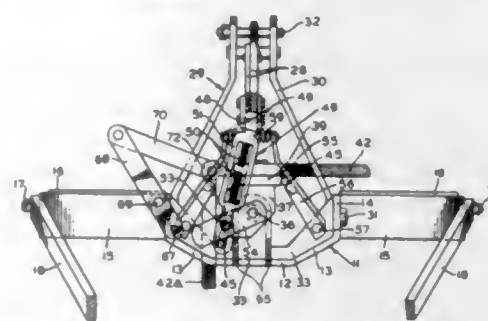
angularly in equal and opposite directions contemporaneous with such linear movement, thereby to move the extremities of such feet portions in opposite directions, such shifting means being operable in timed relationship to said bag tube conveyor whereby such feet portions are inserted within the end of such bag tubes with such spreader fingers normally retracted, such shifting means spreading such arms angularly to a degree sufficient for said spreader fingers to engage opposite corners of such bag tube and to expand under the influence of further angular movement of such spreader arms.

2,712,276

**TWO-WAY PLOW**

Theodore W. Cahow, Birmingham, and Raymond W. Wilson, Ferndale, Mich., assignors, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application July 13, 1953, Serial No. 367,518  
3 Claims. (Cl. 97—26)



1. For use with a tractor having trailing vertically forwardly convergent, power liftable upper and lower hitch links pivoted to the tractor for vertical movement about vertically spaced axes, a two-way plow comprising a plow frame attachable to the trailing ends of said hitch links for vertical movement therewith, a main beam having angularly disposed legs and pivotally carried by said frame, forward portions of said legs underlying said top link and adapted for oscillating movement about a longitudinal axis, said beam legs respectively having transversely spaced projections thereon, oppositely directed plow bottoms carried by said beam legs respectively for oscillating movement therewith, movement of said beam selectively rendering said bottoms effective for a tilling operation, upper and lower actuating links respectively pivotally joined to and interposed between said upper hitch link and said beam axis, said actuating links being pivotally interconnected, a pair of pivotal stop levers respectively projecting upwardly alongside the respective legs of said beam, resilient means urging said levers toward said beam, each of said levers engaging a corresponding projection on the adjacent beam leg, vertical lifting of said hitch links effecting relative movement of said actuating links to move said lower actuating link about said axis, said lower link being so disposed that pivotal movement thereof will effect sequential engagement of the same first with one lever to remove said lever from engagement with said corresponding projection, and then with said corresponding projection to actuate said beam for oscillatory movement about said axis.

2,712,277

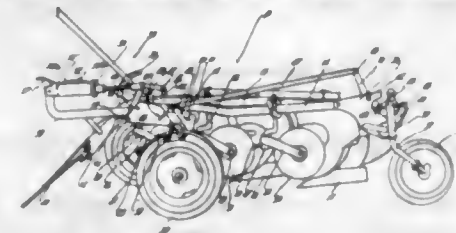
**HYDRAULICALLY ACTUATED LIFTING MECHANISM FOR FARM IMPLEMENTS**

Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin

Application September 29, 1949, Serial No. 118,578  
16 Claims. (Cl. 97—46.31)

6. In an implement having a main frame supported on pivotal crank axles and adapted to be drawn by a propelling agency, a toggle member having a rockable portion pivoted to said frame and a link pivoted to said rockable portion and to one of said pivotal axles, said link

having a portion extending generally forwardly of its pivotal connection with said rockable portion, a hydraulic ram removably pivoted to said frame and in actuating relation to said rockable portion, and means for locking



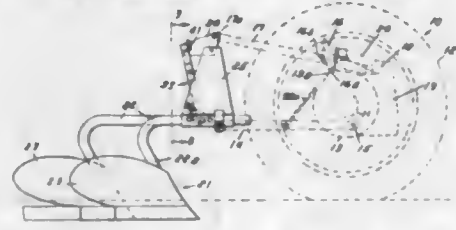
said rockable portion with said extended portion of said link for preventing swinging movement of said rockable portion by actuation by weight of said frame so that said hydraulic ram may be applied to or removed from said implement.

2,712,278

**IMPLEMENT FRAME TRIP**

Raymond W. Wilson, Ferndale, Mich., assignor, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application April 21, 1952, Serial No. 283,299  
6 Claims. (Cl. 97—47.8)



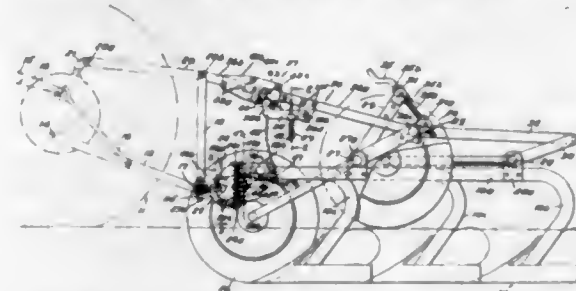
6. For use with a tractor having a pair of laterally spaced, lower hitch links and a central top link, a ground working implement having a frame pivotally attachable to said lower hitch links, whereby ground reaction forces on said implement tend to pivot said implement in a vertical plane about said hitch links, a rocker member pivotally mounted on said frame and having a pivotal connection with the tractor top link, a normally rigid, collapsible force transmitting member connected between said frame and said rocker, thereby rigidifying said rocker with respect to said frame so that ground reaction forces on said implement produce stressing and deflection of said frame, and means for collapsing said force transmitting member, including an actuating element shiftable by a predetermined degree of said deflection of said frame.

2,712,279

**SAFETY RELEASE FOR IMPLEMENTS**

Rudolph J. Altgelt, South Bend, Ind., and Arnold C. Lindgren, Berkley, Mich., assignors, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application April 6, 1951, Serial No. 219,648  
1 Claim. (Cl. 97—47.28)



For use for a tractor having a pair of power lifted laterally spaced hitch links and a top link pivoted to the tractor, the combination of a vertically disposed hitch frame mountable on the hitch links and the top link, an implement frame having a crank axle supported ground wheel, draft overload release means connecting said implement frame to the lower portions of said hitch frame, a separable link member operatively connecting said crank

axle and the top portions of said hitch frame and overlying said implement frame, a vertically shiftable spring pressed latch carried by said separable link member and normally retaining said separable member in unitary condition, and a force transmitting element operatively connecting said latch and said implement frame, whereby release of said draft overload release means without release of said latch produces vertical displacement of said separable link member relative to said implement frame sufficient to release said latch and thereby separate said separable member.

2,712,280

**CULTIVATOR SHOVEL AND SHOVEL-SUPPORTING SHANK CONSTRUCTION**

Harold J. Peoples, Fertile Township, Walsh County, N. Dak.

Application November 10, 1954, Serial No. 468,016  
3 Claims. (Cl. 97—198)



1. In a construction of the character described, a cultivator shovel having a bearing portion, a shovel-supporting shank having a downwardly and forwardly extending terminal portion formed with a seat at the upper-forward side thereof for the body portion of the shovel, a clamp bolt having a body formed with a head and with a follower lug projecting laterally from the body at the tip of the bolt, said bearing portion of the shovel and said terminal portion of the shank each being formed with a bore extending therethrough from its upper-forward side to its lower-rearward side for the reception of the body of the bolt and formed also with a way opening laterally into such bore coextensively therewith for the reception of the follower lug on said body of said bolt, the bore and way in the shovel being adapted to register with the bore and way in the shank in the seated disposition of the shovel on the shank, the registering bores and ways in shovel and shank being adapted to receive the bolt upon its introduction, tip foremost, thereinto, the head of the bolt being adapted to engage the upper-forward side of the bearing portion of the shovel, the tip of said bolt being adapted to extend beneath the lower-rearward side of the shank, said shank having a cam at said lower-rearward side thereof adjacent to the bore therein, said cam having a high portion, the same occupying an angular relation with respect to the bore in the shank differing from that occupied by said way in said shank, the follower lug on the clamp bolt constituting a medium through which said bolt may be turned, said follower lug being adapted upon the turning of said bolt in the shank and its supported shovel to engage and coast with the high portion of said cam and cause said bolt to clamp said bearing portion of said shovel against its said seat on said shank, and anti-skewing means interposed between and coacting with said shovel and shank to prevent the swiveling of the shovel on the shank about the axis of said clamp bolt.

2,712,281

**REGISTER OR VENTS**

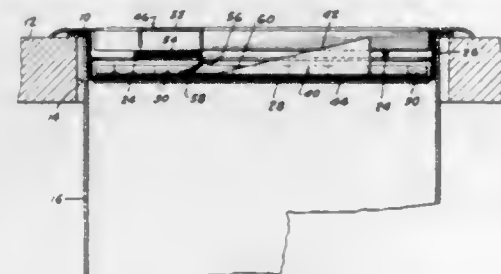
William K. Riebel, Chicago, Ill., assignor to Fred Riebel & Co., Chicago, Ill., a copartnership

Application July 28, 1953, Serial No. 370,661  
6 Claims. (Cl. 98—102)

1. In a register of the type described the combination of a face plate having an opening therethrough, a plurality



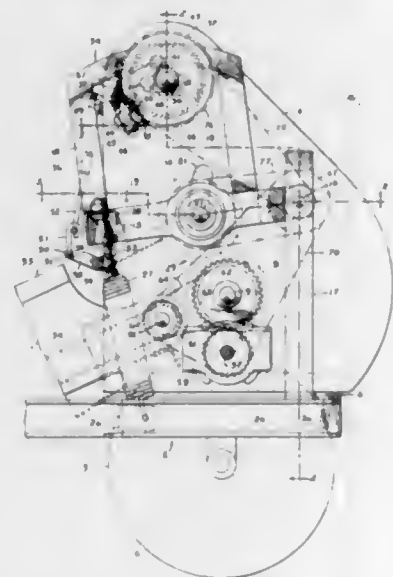
of parallel spaced grill members disposed below said face plate over said opening, a spring loaded hinged closure plate fastened along one side of said face plate, a wedge-shaped member mounted thereon and a control member



movable upon said grill members for controlling the opening or closing of said closure plate, said control member being tubular and slidably mounted on a pair of grill members and having an angularly disposed ledge engaging said wedge-shaped member.

### 2,712,282 HAY CRUSHER

Earl E. Koch, Mohnton, Pa., assignor to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application June 19, 1953, Serial No. 362,879  
5 Claims. (Cl. 100-47)



1. A hay crusher comprising a portable main frame, a first roll mounted in said frame for rotation about a horizontal axis, a member swingable on said main frame generally radially to said roll, a second roll having one end rotatably carried by said member for movement relative to the first roll, resilient means connected between the main frame and said member and urging said member and said second roll toward the first roll, and feed means operative to deliver material between said rolls, in combination with roll separating mechanism comprising a cam rotatable on said main frame in operative engagement with said member to oscillate said member toward and away from the first roll, a driven clutch member rotatable with said cam, a driving clutch member on said main frame, a lever carried by said driven member and swingable to operative position to establish a driving connection between said driving and driven members, means resiliently urging said lever toward operative position, a detent pivoted on said main frame and having a free end normally abutting against said lever and holding same in inoperative position out of engagement with the driving member in a rotational position of said cam wherein the rolls are permitted to move toward each other, and a deflectable feeler element mounted on said main frame for floating movement in engagement with the material on said feed means adjacent said rolls, said element being operatively connected to the said detent to swing the free end thereof out of abut-

ment with said lever responsive to movement imparted to said element by abnormal accumulations of material on the infeed side of said rolls, and to permit return of the detent into the rotational path of said lever responsive to removal of such abnormal accumulation of material.

### 2,712,283 PROPELLENT ASSEMBLY FOR JET PROPELLED DEVICE

Sidney Golden, Cumberland, Md., assignor to the United States of America as represented by the Secretary of War

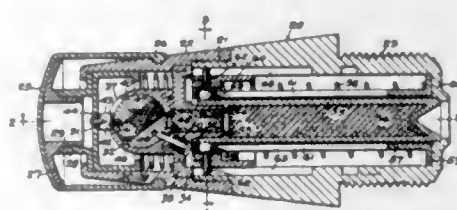
Application July 20, 1944, Serial No. 545,809  
21 Claims. (Cl. 102-49)



16. A propellant charge for a reaction motor comprising a plurality of perforated discs of powder loosely retained on a rod, each of the arcuate areas of said discs being provided with means to prevent the combustion thereof.

### 2,712,284 DELAYED ARMING SAFETY FUSE

Harold E. Thomas, Alexandria, Va., and Francis P. Gilhooly, Huntsville, Ala.  
Application June 19, 1951, Serial No. 232,436  
10 Claims. (Cl. 102-78)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

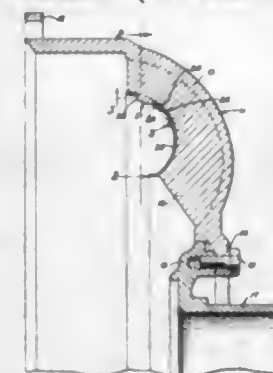


1. In a point detonating fuse with a cylindrical body having a longitudinal axis, a rearwardly opening cup-shaped support slidably mounted in the forward end of said body, a rearwardly directed centrally located firing pin secured to the closed end of said cup-shaped support, a container disposed in said body rearwardly of said firing pin having formed therein a spheroidal cavity, a shutter rotatable in said cavity from first safe position crosswise of said longitudinal axis to second armed position, said shutter having formed therein a diametral bore adapted to axially align with said firing pin when said shutter is in armed position, a detonator in said diametral bore, resilient means in said body engaging said shutter and biasing same into armed position, and inertia responsive delay means in said body for releasably locking said shutter in safe position until said fuse has traveled a predetermined distance, said inertia responsive means comprising a race cut skew into the inner surface of said fuse body rearwardly of said container, an elongated arming sleeve concentric within said fuse body rearwardly of said container, said arming sleeve being fixed longitudinally relative to said fuse body and freely rotatable therein, a relatively short inertia sleeve interposed between the forward end of said arming sleeve and the race in said fuse body, a detent pin extending through the bottom of said container having one end releasably locking said shutter in armed position and its other end engaging the forward end of said arming sleeve whereby said detent pin is movable to release said shutter as said arming sleeve rotates, and a pin radially extending through said inertia sleeve having its inner end received in a longitudinal slot in said arming sleeve and its outer end received in said race.

### 2,712,285 HYDRAULIC TORQUE TRANSMITTING DEVICE AND METHOD OF MANUFACTURE

Vladimir J. Jandasek, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

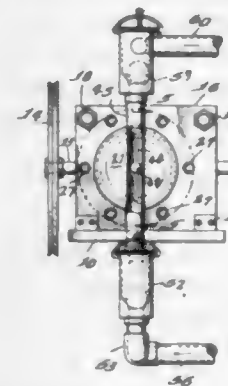
Application July 3, 1952, Serial No. 297,149  
1 Claim. (Cl. 103-115)



A vane wheel for a hydraulic torque transmitting device comprising an annular outer shroud and a plurality of generally radially extending circumferentially spaced blades, each of said blades having a curved generally semi-circular inner edge with the semi-circular edge facing away from the blade in a direction parallel to the axis of the outer shroud, each of said blades having an integral generally rectangularly shaped tab projecting toward the axis of the outer shroud from the radially outer portion of the generally semi-circular inner edge of the blade, the radially inner edge of each tab being inclined at an angle less than 45° to the axis of said outer shroud and the side edges of said tab being generally at right angles to said inner edge, and an annular sheet metal inner shroud generally semi-circular in cross section to conform to the generally semi-circular edge of each of said blades, said annular shroud having a plurality of elongated slots formed therein corresponding in size and location to the tabs projecting from said blades, and said annular inner shroud also having a deformable tongue struck out from said inner shroud in alignment with each of said slots and at the side of each of said slots closest the axis of said inner shroud, the end of each of said deformable tongues being spaced radially inwardly of the radially inner edge of each of said tabs to provide clearance for the assembly of said inner shroud to said blades by movement of said inner shroud in an axial direction toward said blades to project said tabs through the slots in said inner shroud, said tongues being deformable to permit radially outward movement thereof into overlapping and interlocking engagement with the adjacent end of the tabs to prevent disengagement of said inner shroud from said blades.

### 2,712,286 DIAPHRAGM PUMP

Arthur F. Kiefer, Lombard, Ill.  
Application June 16, 1952, Serial No. 293,755  
2 Claims. (Cl. 103-150)

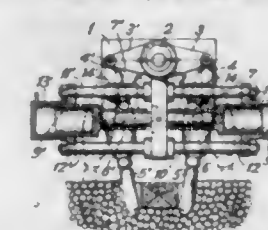


1. A diaphragm pump comprising a casing, a flexible diaphragm in one wall of said casing, driving means

directly connected to the central portion of said diaphragm for actuating said diaphragm, a continuous pipe for conveying the medium to be pumped toward and away from said casing, said pipe having a single, elongated, lateral opening therein and said casing having a single, elongated opening communicating with the lateral opening in said pipe, the length of said elongated openings being at least two-thirds the major dimension of said diaphragm, and a pair of check valves in said pipe, one beyond each end of said lateral opening.

### 2,712,287 RAILWAY TRACK TIE TAMPING MACHINE

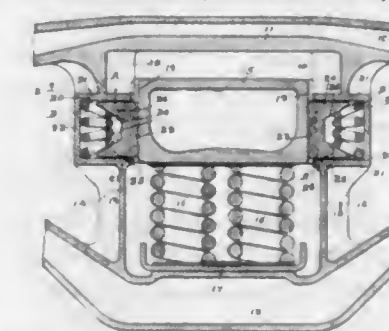
Ernest Zurmühle, Lausanne, Switzerland, assignor to Construtions Mecaniques S. A. Renens, Renens, Switzerland  
Application December 7, 1949, Serial No. 131,620  
Claims priority, application Switzerland  
December 10, 1948  
9 Claims. (Cl. 104-12)



1. In a tamping machine for forcing ballast under the rail supporting ties in a railway bed, a carriage for movement on said rails, vertical guide means on said carriage, tool carriers in engagement with said guide means, means for moving said tool carriers along said guide means, horizontally extending frames in each of said tool carriers, means reciprocally mounted on each of said frames and forming, together with said frame, a double acting piston and cylinder assembly for moving said reciprocable means towards and from each other, tamping tools pivotally mounted on a horizontal axis on said reciprocable means, vibrator means in engagement with said tamping tools for vibrating the same, drive means for said vibrator means, means connecting said piston and cylinder assembly with a source of pressure fluid, control means in said connecting means for controlling the movement of said reciprocable means, and safety valves in said connecting means for limiting the pressure in said piston and cylinder assembly.

### 2,712,288 FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware  
Application December 2, 1949, Serial No. 130,808  
4 Claims. (Cl. 105-197)



4. In a railway car truck, the combination with truck side frame members, a truck bolster, and springs supporting said bolster on the side frame members, said side frame members being provided with bolster guides; of a laterally opening pocket in one of said side frame members at the bolster guide thereof, said pocket having a vertical rear wall; a vertically disposed coil spring within said pocket and bearing against said rear wall; and a fric-



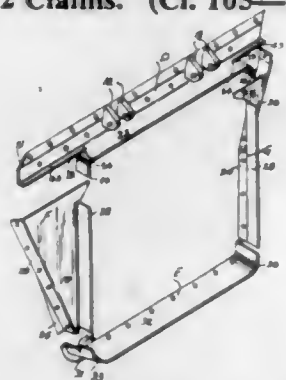
tion block telescoped within said pocket, said block having top and bottom, laterally extending arms projecting toward said vertical rear wall of said pocket, said arms being provided with opposed, diverging wedge faces in wedging engagement with the top and bottom ends of said spring at the side thereof remote from said vertical rear wall of the pocket, said block having a friction surface on the side thereof opposite to the side from which the arms project slidably engaged with the corresponding side of the bolster.

2,712,289

**HOPPER CAR DOOR FRAME**

George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Continuation of abandoned application Serial No. 793,234, December 22, 1947. This application May 6, 1954, Serial No. 427,997

2 Claims. (Cl. 105—280)



1. A frame for positioning around a railway car hopper opening defined by a bottom wall and side walls diverging therefrom so as to provide a rectangular discharge opening smaller than said hopper opening comprising, in combination, a top angle member with one flange adapted to lie generally in the plane of said hopper opening and the other flange adapted to define the top wall of both of said openings and having longitudinally severed end portions extending downwardly at right angles to the intermediate portion of said other flange and forming the upper ends of the frame side walls defining said discharge opening, a bottom angle member with one flange adapted to extend generally at right angles to said bottom wall and the other flange adapted to define the bottom wall of both of said openings and having upturned end portions, said top member having a uniform cross-section for the principal portion thereof intermediate its end sections and said bottom member having a uniform cross-section from end to end and both said members being formed of malleable material, and a pair of generally triangularly shaped plate members the sides of which are flanged in opposite directions, said plate members being of uniform thickness throughout, said plate members being disposed with their apexes juxtaposed to said upturned ends of said bottom angle member and welded thereto, the sides of said plate members opposite said apexes extending above said downwardly extending end portions and being juxtaposed to the remaining end portions of said other flange of said top member and welded thereto, the upper ends of the inner flanges of said plate members being juxtaposed to said downwardly extending end portions of said other flange of said top member and welded thereto.

2,712,290

**LOCKING MECHANISM FOR SLIDING GATE OF LOAD CONTAINING HOPPER**

George E. Dath, Mokena, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Application December 14, 1953, Serial No. 397,814

9 Claims. (Cl. 105—305)

1. In a discharge outlet structure having side and end walls defining an opening, a discharge gate slidably

mounted on said structure for closing said opening and having rack means on the underside, a shaft journaled on said structure underneath and transversely of the path of movement of said gate and carrying pinion means in engagement with said rack means for moving said gate between open and closed positions, an extension on one of said side walls having an opening above said shaft and at



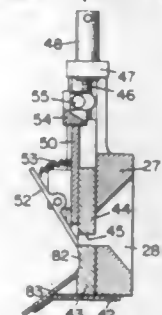
the end of said gate when said gate is in closed position, and a bolt endwise slidably mounted on and rotatable with said shaft externally of said structure and slidable only when said gate is closed through said opening in said extension to a position in the path of opening movement of said gate to prevent such movement and rotation of said shaft.

2,712,291

**DOUGH EXTRUDING AND CUT-OFF MECHANISM FOR PRETZEL TWISTING MACHINE**

Edwin I. Groff, West Reading, Pa., assignor to Quinlan Pretzel Company, Inc., Reading, Pa., a corporation of Pennsylvania  
Original application September 21, 1951, Serial No. 247,631. Divided and this application August 30, 1952, Serial No. 307,286

2 Claims. (Cl. 107—14)



1. In a pretzel twisting machine including a worm casing having an end wall formed with an orifice and a worm within said casing for extruding dough through said orifice under pressure, the improvement consisting of a spring-biased yielding knife assembly mounted on said casing and positioned at said end wall over said orifice, said knife assembly comprising a pair of relatively movable complementary plate members engaging the outer surface of said end wall and defining an opening in alignment with said orifice, means for adjusting the relative position of said plate members to vary the effective area of said opening, a plate mounted for reciprocation on the exposed face of one of said plate members, the other of said plate members being provided with a longitudinal depression in its exposed face beneath said opening, a knife pivotally mounted on said reciprocating plate on an axis normal to its direction of reciprocation and having a cutting edge normally engaging said plate members and adapted to extend across said opening, spring means biasing said knife edge into engagement with said plate members, and driving connections for reciprocating the plate on which said knife is mounted.

2,712,292

**MULTIPLE HEAD BAG CLOSING MACHINE**

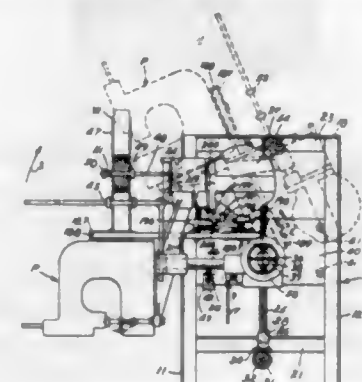
Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, Minneapolis, Minn., a corporation of Missouri

Application July 30, 1951, Serial No. 239,251

10 Claims. (Cl. 112—11)

10. In a bag closing mechanism, a conveyor for moving filled bags in an upright position, a framework along said

conveyor having a supporting member, a plurality of closing machines pivotally mounted on said supporting member for swinging movement downwardly from a retracted out-of-the-way position to a position over the conveyor at an elevation for conveniently closing the top of a filled bag for closing the same, each of said closing machines being mounted so as to stay in a retracted position or in a closing position, individual retaining means operable to



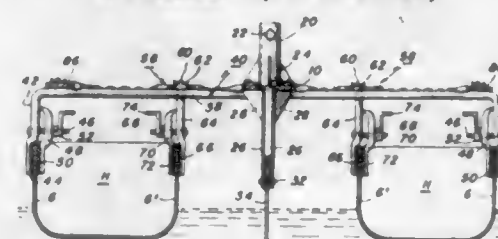
retain each of said closing machines in said retracted out-of-the-way position and operable to retain each of said closing machines in a position over the conveyor and at an elevation for conveniently closing the top of the filled bag, and said retaining means comprising a pair of clamping elements, one of said clamping elements adapted for rigid engagement with said supporting member and the other of said clamping elements adapted for resilient engagement therewith.

2,712,293

**KNOCK DOWN CATAMARAN UNIT**

Michael O'Higgins, Washington, D. C.  
Application June 2, 1954, Serial No. 433,906

6 Claims. (Cl. 114—61)



1. A knockdown unit for converting a pair of twin hulls having gunwales into a sailing vessel of the catamaran type comprising a beam, longitudinally spaced parallel cross arms detachably connected to the beam and extending perpendicularly thereacross, a mast socket carried by the beam and extending upwardly therefrom adjacent one end thereof, a rudder detachably connected to the beam and extending downwardly therefrom adjacent the end thereof remote from the mast socket, gunwale engaging clamps carried by the cross arms and extending downwardly therefrom adjacent opposite ends thereof, carriages detachably and adjustably carried by the cross arms between the beam and the gunwale engaging clamps, and second gunwale engaging clamps carried by the carriages and extending downwardly therefrom for cooperation with the first mentioned gunwale engaging clamps in holding twin hulls in spaced parallel relation beneath the cross arms and on opposite sides of the beam.

2,712,294

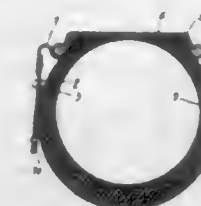
**UNDERINFLATED TIRE WARNING DEVICE**

Frederic Pierre Larsen, Paris, France  
Application August 3, 1954, Serial No. 447,461  
Claims priority, application France February 16, 1954

3 Claims. (Cl. 116—34)

1. An underinflated tire warning device comprising in combination a flange adapted to be mounted on a wheel rim, a pair of elongated rectilinear resilient reeds having

a curvilinear cross section arranged with their concave faces facing each other and rigidly secured at one end thereof to said flange in such manner that one of said reeds is positioned for engagement with the side wall of



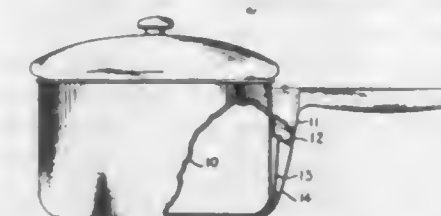
the tire mounted on said rim, and a clamp rigidly securing the outer ends of said reeds against each other so that no relative sliding movement between said outer ends of said reeds occurs.

2,712,295

**ALARM FOR COOKING VESSEL**

Don A. Haynes, Meridian Township, Ingham County, Mich.  
Application February 17, 1954, Serial No. 410,836

6 Claims. (Cl. 116—109)



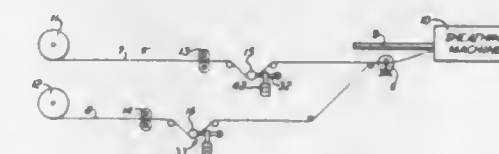
1. A cooking vessel having an alarm for indicating the near exhaustion of liquid therein, said vessel having a bottom and side walls, said alarm comprising a heat conductor extending through a side wall of said vessel and extending beneath said vessel adjacent to the bottom wall thereof, said conductor being insulated in its entirety from said vessel but in a position to be exposed to the source of cooking heat, a movable snap action thermostatic element connected to said conductor adjacent the point where the latter passes through the wall of the vessel, and means actuated by movement of said element upon a predetermined increase in the temperature thereof for producing an alarm.

2,712,296

**REGISTRATION INDICATOR FOR CORRUGATED TAPES**

Henry C. Slechta, Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application November 6, 1953, Serial No. 390,673

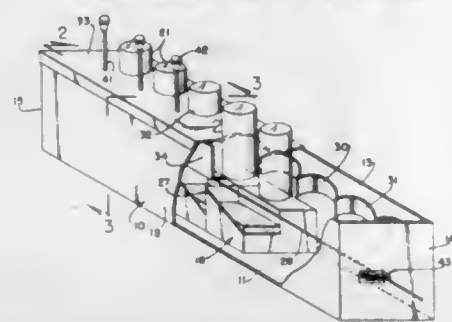
6 Claims. (Cl. 116—124)



1. A device for indicating the registration of the corrugations of two tapes comprising a fixed base member, two gears, a housing for the gears mounted to the base for limited rotary motion thereon, a shaft connected to each of said gears, fixed bearings in the housing for the shafts spaced to mesh the gears along the axis of rotation for the housing, means attached to the shafts for engaging the corrugations of the two tapes, means attached to the housing for holding the tapes in engagement with the corrugation engaging means on the shafts and means for indicating rotary displacement between the housing and the base.

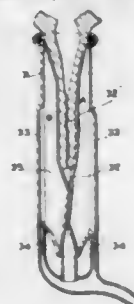


**2,712,297**  
**THREAD COLORING ATTACHMENTS FOR SHOE**  
**PATCHING MACHINES**  
 Henry E. McGrew, Louisville, Ky.  
 Application April 1, 1953, Serial No. 346,223  
 1 Claim. (Cl. 118—33)



A thread coloring attachment for shoe patching machines comprising an elongated casing or tray, a plurality of thread coloring units lying within the casing in side by side relationship, a cover fitted upon the top of the casing and having a series of openings, said coloring units respectively having cup portions respectively projecting through the respective openings in the cover, and manually operable plunger rods extending respectively through said cover, said casing having end walls with respective openings vertically and horizontally aligned with respect to each other and through which a thread may be extended, to pass such thread through the casing, said coloring units respectively having sponge pads adapted to lie beneath the thread and horizontally-extending edges for normally supporting the thread when extending between the openings and within the casing, said plunger rods having feet respectively longitudinally spaced from the respective edges and above the respective sponge pads adapted to engage thread and when depressed serving to force the thread below the horizontal edges of the coloring units and into the sponge pad, each of said coloring units having coloring material in the cap portions communicating with said sponge pads into which the thread can be plunged, and tensioning means carried by one end of the casing adjacent the opening thereof and adapted to engage the thread to normally hold the same tensioned within the casing.

**2,712,298**  
**METHOD OF MILKING BY HIGH VACUUM**  
 Anne Bajema, Gaast, Netherlands, assignor, by direct and mesne assignments, to N. V. "Ahex," Amsterdam, Netherlands, a company of the Netherlands  
 Application July 21, 1950, Serial No. 175,205  
 Claims priority, application Netherlands July 22, 1949  
 5 Claims. (Cl. 119—14.02)

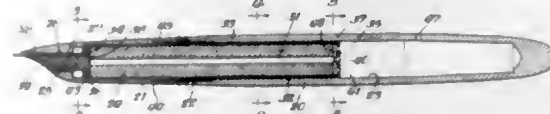
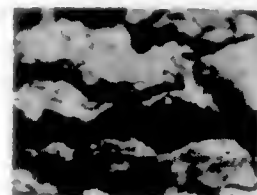


1. A method of milking cows mechanically which comprises applying a vacuum to the teat openings of the cows of at least 600 mm. of mercury.

**2,712,299**  
**FOUNTAIN PEN**  
 Ernst W. Rickmeyer, Prospect Heights, Ill., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin  
 Application August 24, 1948, Serial No. 45,823  
 1 Claim. (Cl. 120—50)

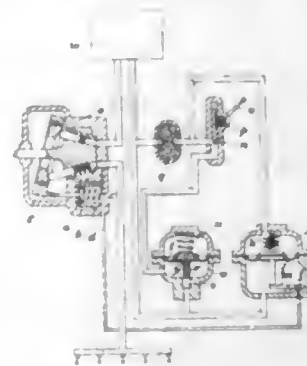
A fountain pen comprising a casing, a writing element mounted in the casing, a capillary filler and reservoir

element mounted in the casing and comprising a member formed of sintered and re-sintered metal wherein the re-sintered metal is composed of sintered particles, and wherein the re-sintered metal has interconnected spaces between the sintered particles and each of the sintered



particles has interconnected spaces of smaller size than the first mentioned spaces, said spaces being defined by relatively rough wall surfaces, and means connecting said spaces in capillary ink feeding relation with said writing element.

**2,712,300**  
**HYDRAULIC GOVERNORS FOR INTERNAL COMBUSTION PRIME MOVERS**  
 Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England  
 Application July 11, 1950, Serial No. 173,093  
 Claims priority, application Great Britain July 26, 1949  
 3 Claims. (Cl. 121—38)

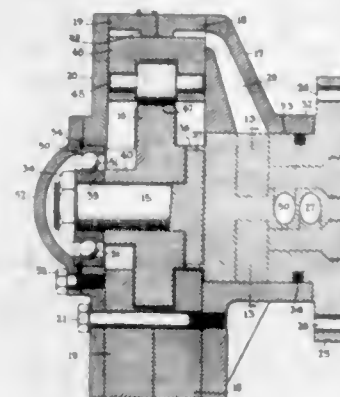


1. A hydraulic governor for controlling a fluid operated servo mechanism comprising, in combination, a fluid-pressure responsive member, a valve for controlling the servo mechanism operable by said member, a pair of adjustable throttles in series connection, a connection from the entrance side of said series connected throttles to one side of said pressure responsive member, a connection from the discharge side of said series connected throttles to the other side of said pressure responsive member, pressure responsive means for actuating one of said throttles in accordance with a change in fluid pressure due to adjustment of the other throttle, and means for delaying the adjustment of the first throttle by said pressure responsive means.

**2,712,301**  
**FLUID MOTOR CONSTRUCTION**  
 Benjamin F. Gravely and Charles B. Gravely, Nitro, W. Va.; Charleston National Bank, executor of the estate of said Benjamin F. Gravely, deceased  
 Application October 18, 1950, Serial No. 190,836  
 1 Claim. (Cl. 121—59)

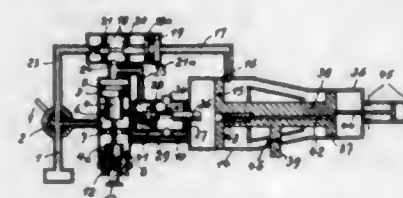
A fluid motor comprising in combination: a stationary hub member, a stationary cam secured on said hub member, an inner member rotatable on said hub and having a flat outer face perpendicular to the axis of rotation, complementary inner and outer cylinder forming rings each having flat and parallel inner and outer faces and each having a plurality of radial slots having flat parallel sides and extending outwardly from the

center portion of said rings and terminating inward from the periphery of said rings, the inner face of the inner ring engaging the flat outer face of said inner member, an outer member having a flat inner face engaging the flat outer face of the outer ring, said inner member, slotted rings and outer member being secured together as a unit with the slots of said ring members aligned



defining a plurality of radial cylinders of oblong cross-section and terminating inward the periphery of said ring members, and a free piston of oblong cross-section in each cylinder and engagable with the periphery of said stationary cam, said hub member and said inner member having a plurality of passageways and parts therein for admitting and exhausting fluid to and from the outer ends of said cylinders.

**2,712,302**  
**CONTROL ARRANGEMENTS FOR FLUID PRESSURE ACTUATED PISTONS**  
 Hans Zöller, Laubenheim on Rhine, Germany  
 Application September 15, 1951, Serial No. 246,821  
 Claims priority, application Germany September 19, 1950  
 13 Claims. (Cl. 121—157)

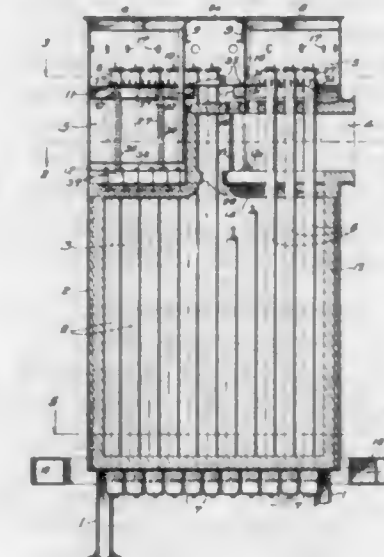


1. A system for operating a single acting fluid pressure operated motor comprising, a source of fluid pressure, a fluid pressure operated motor including a piston and an enclosing cylinder housing said piston, a plurality of fluid pressure conduits forming communication between said source and said cylinder, a plurality of valves interposed in selected ones of said conduits and including at least one pressure differential actuated valve, at least one piston actuated valve projecting into said cylinder, and at least one manually operable variable pressure controlling valve, at least two of said valves being in direct pressure communication with said manually operable valve.

**2,712,303**  
**FLUID HEATER**  
 Lawrence J. McCarthy, Englewood, N. J., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware  
 Original application April 23, 1948, Serial No. 22,782.  
 Divided and this application May 11, 1951, Serial No. 225,793

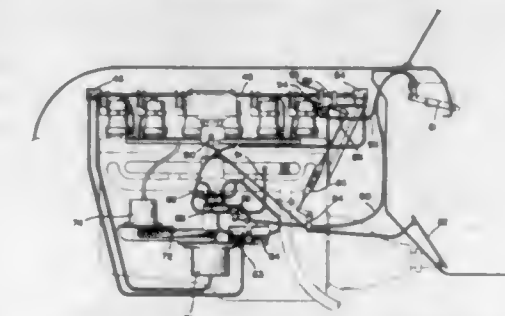
8 Claims. (Cl. 122—319)  
 2. A fluid heating furnace comprising in combination a lower radiant heating chamber formed by a floor and substantially vertical side walls surmounted by an upper convection chamber having a top and side walls, a horizontal partition constituting a ceiling for said lower chamber and having a plurality of elongated openings therein extending radially of the vertical axis of the heating chamber and communicating with said upper

chamber, fuel burners in the floor of said lower chamber and a stack outlet in a lateral peripheral portion of said upper chamber to carry off the hot combustion gases from said burners, a load bearing framework above the top of said upper chamber and insulated from the hot gases therein, a number of vertical tubes suspended from said framework and extending downwardly through the top of said upper chamber and through the openings in said



partition to the floor of said lower chamber, one of said openings being adjacent said stack outlet and increasing in cross section in the direction from said outlet toward the vertical axis of the heating chamber and the other openings decreasing in cross section in the direction from the side walls toward said vertical axis whereby the path of said hot combustive gases through said furnace is longitudinal of the tubes in said lower chamber and transverse thereof in said upper chamber.

**2,712,304**  
**RELEASING MEANS FOR FLUID PISTONS**  
 George S. Troberg, Seattle, Wash.  
 Application October 19, 1953, Serial No. 386,967  
 7 Claims. (Cl. 123—48)



1. The combination with an internal combustion engine of means permitting varying in the size of the combustion chambers between a larger and a smaller volume responsive to changes in pressure in the intake manifold and to changes in the throttle, comprising: an auxiliary chamber formed on the engine head immediately above the upper end of each combustion chamber and a passageway in the head leading from each combustion chamber to its associated auxiliary chamber; a valve positioned in each auxiliary chamber having a first seat in which the valve blocks the associated passageway and a second seat in which the passageway is open; a valve stem on each valve extending upwards and first spring means connected to said valve stem pressing the valve towards seating on said second seat; a piston and piston stem abutting against the upper end of said valve stem and a floating cylinder enclosing each piston; a housing for each cylinder secured to said engine head supporting the cylinder in a manner permitting movement of the cylinder longitudinally of the associated valve stem, second spring means acting between each cylinder and its



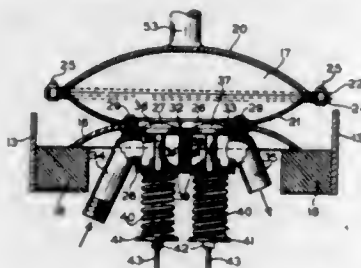
piston biasing the cylinder downward with relation to its piston, a two-position latch in said housing limiting upward movement of the cylinder in a first position and permitting such upward movement in a second position, means immediately responsive to movement from moderate to open throttle operative to move said latch to said second position and third spring means normally positioning said latch in said first position, and hydraulic means connected to the upper end of said cylinder and responsive to pressure in said intake manifold operative to press said piston downward with relation to said cylinder by hydraulic pressure under moderate throttle conditions and relieving the hydraulic pressure under high throttle conditions permitting said first spring means to move said valve to said second seat without resistance by said piston and permitting said second spring to move said cylinder downward with relation to its piston.

2,712,305

# INTERNAL COMBUSTION ENGINE HAVING A COMPRESSIBLE COMBUSTION CHAMBER

Glen N. Hanson, Minneapolis, Minn., assignor of twenty per cent to Nathan Meshbisher and twenty per cent to Harry E. Benson, both of Minneapolis, Minn.

Application August 29, 1952, Serial No. 307,015  
2 Claims. (Cl. 123-193)

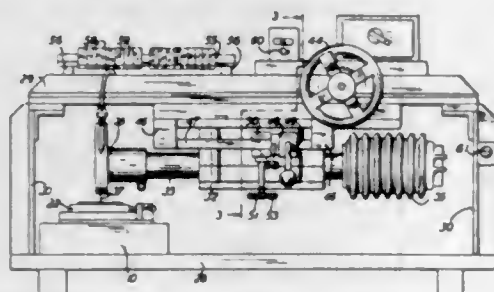


1. In an internal combustion engine, a movable rigid rear head, a flexible member and a fixed rigid front head, each of which is annular and a concavo-convex, said rear head and flexible member being connected at their perimeters with their concave sides in opposing relation, said flexible member and front head being connected at their central portions, said rear head and flexible member internally affording a combustion chamber, valve-equipped fuel intake and exhaust ports leading into the combustion chamber, and means for reciprocating the movable rear head to compress a fuel charge in the combustion chamber and thereby press the flexible member onto the convex side of the front head to support and turn the same inside out.

2,712,306

# CRYSTAL CUTTING MACHINE

Rudolph S. Brescka and Albert L. Pizzi, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application February 19, 1954, Serial No. 411,512  
5 Claims. (Cl. 125-13)



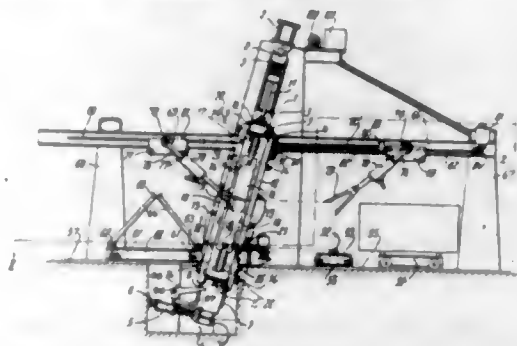
1. An apparatus for cutting an article into parts of various widths comprising a support for an article reciprocable in a path between given limits, a rotatable cutter parallel with said path and supported for adjustment at right angles thereto, a unit actuable to lock the cutter in any adjusted position, spacers substantially iden-

tical in width to the widths of the parts to be cut from the article, and a locating element cooperating with certain of the spacers selected singly to space the unit and the cutter a distance controlled by each selected spacer.

2,712,307

# STONE SAWING MACHINES

Bror Gustaf Stålhelm, Stockholm, Sweden  
Application July 9, 1953, Serial No. 366,975  
19 Claims. (Cl. 125-16)

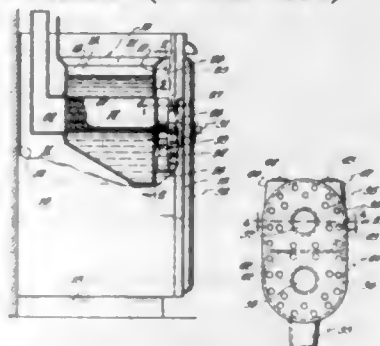


1. In a stone sawing machine for sawing stone blocks having plane bottom surfaces the combination of a supporting structure, a substantially vertical saw sash having a plurality of parallel saw blades stretched between the upper and lower sides thereof, means for imparting to said saw sash a generally vertical reciprocating motion, a stationary, rigid anvil structure in front of said saw sash for slidably supporting the stone block to be cut up into slabs by said saw blades, said anvil structure having a horizontal, plane top surface over which the plane bottom surfaces of the successive stone blocks slide, means for feeding said stone block substantially horizontally through said saw sash, said feeding means including advancing pushing means acting on the rear end of said block for advancing said block over said anvil structure while in sliding contact with the top surface thereof, and advancement resisting means behind said saw sash for pressing said block rearwardly into firm contact with said pushing means for preventing unintentional movements of said stone block to be sawn.

2,712,308

# DEEP FRYER

Richard T. Keating, Chicago, Ill.  
Application November 22, 1950, Serial No. 197,037  
3 Claims. (Cl. 126-391)



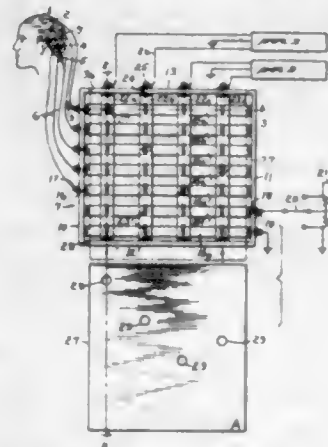
3. In a deep fryer having a cooking vessel, the combination of a combustion chamber extending horizontally through the vessel and comprising at least one oval tube having a height greater than the width thereof and being of substantially uniform cross section throughout its length; a burner also of oval shape having a horizontally disposed partition located therein forming upper and lower sections, said burner generally corresponding to the cross sectional shape of the tube, and of height and width substantially equal thereto positioned at one end of each tube thereof and spaced from the end of the tube to provide a narrow oval peripheral air inlet around the burner, together with means for entraining a substantial volume of air at the core of the flame comprising a central air

duct extending entirely through each section, each air duct being located substantially centrally of each section, a plurality of burner apertures surrounding each duct of its section, said apertures and each air duct facing said oval tube whereby the inwardly moving air forms a core surrounded by flames which directly impinge on the inner walls of the tube when the burner is in operation; together with an upwardly extending stack communicating with said tube at the end thereof opposite the burner, and internal radiating fins disposed within said tube; said fins consisting of a multiplicity of thin metal ribbons so constructed and arranged as to become incandescent during operation of the burner, whereby radiant heat is transmitted from said fins to the internal walls of the combustion tube.

2,712,309

# ELECTROENCEPHALOGRAPHIC APPARATUS

Franklin F. Offner, Chicago, Ill.  
Application December 23, 1953, Serial No. 399,919  
12 Claims. (Cl. 128-2.1)



1. In an apparatus for amplifying potentials produced at a plurality of points in the body of a living organism, a plurality of electrodes adapted to be secured at different locations on said body, a plurality of amplifier inputs, an electrical circuit from each of said electrodes, an electrical circuit to each of said amplifier inputs and a card of insulating material cooperative with said circuits, said card including means provided thereon in accordance with a predetermined coding for establishing predetermined interconnections between said electrode circuits and said amplifier input circuits.

2,712,310

# DROP-FOOT BRACE

Stephen Giambra, Paterson, N. J., assignor to Cosmo L. Invidiato, Paterson, N. J.  
Application August 24, 1953, Serial No. 376,099  
6 Claims. (Cl. 128-80)



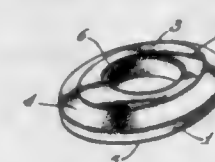
1. A drop-foot brace, comprising a pair of spaced parallel elongated upper brace members adapted to lie along opposite sides of the lower part of the leg, at least one of the upper brace members being in the form of an elongated resilient wire, means connecting the upper portions of the upper brace members together, and for embracing, and fastening said upper brace members to, the leg, an elongated lower brace member in the form of a removable insole for a shoe, said lower brace mem-

ber having a heel end and a toe end, and means connecting the lower end of each of the upper brace members to the respective one of the opposite sides of the lower brace member along an axis close to and in substantially vertical alignment with the pivotal axis of the ankle of the wearer, the lower end of the upper brace member made of wire being formed into a flat coil spring, the spring and its upper brace member lying substantially in a vertical plane which is parallel to the longitudinal axis of the lower brace member, means pivotally connecting the spring at its center to the lower brace member, and means connecting the inner end of the spring to the lower brace member so as resiliently to oppose tilting of the toe end of the lower brace member downwardly with respect to the upper brace members.

2,712,311

# MOLDED FOAM LATEX SURGICAL PAD AND METHOD OF MAKING SAME

William M. Scholl, Chicago, Ill.  
Application September 9, 1950, Serial No. 184,075  
2 Claims. (Cl. 128-153)

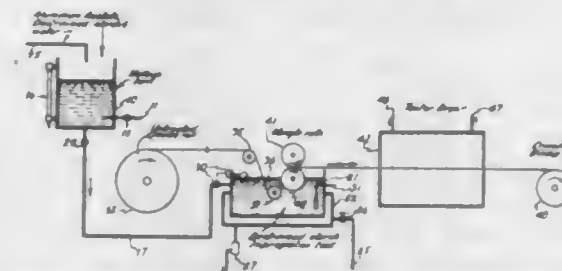


2. A surgical pad, including a body part of foam latex having an opening therein, the upper portion of said body part comprising a molded surface including a flat top, a bevel therearound, and a bevel around said opening, and the bounding edge of said pad below the first said bevel and the inner edge of the opening below the second said bevel being straight cut.

2,712,312

# TREATED FABRIC

Marta Deker, New Brunswick, and Oliver S. Plantinga, East Brunswick Township, Middlesex County, N. J., assignors to Johnson & Johnson, a corporation of New Jersey  
Application October 13, 1951, Serial No. 251,232  
9 Claims. (Cl. 128-156)



1. A medical product comprising a supported adhesive layer and covering said layer a fabric impregnated with a modified starch and a water soluble aluminum salt in amount corresponding with approximately 0.25 to 2.5% aluminum by weight based on said modified starch.

2,712,313

# SURGICAL DRESSINGS

Aaron Levy, Winsted, Conn.  
Application November 25, 1953, Serial No. 394,421  
3 Claims. (Cl. 128-157)



2. A preformed finger bandage comprising a fabric tube which is closed at one end and split along a substan-



tial portion of its length from the other end to define a pair of flaps, and a tape stitched to each of said flaps a substantial distance from said other end of the bandage, said tapes being adapted to facilitate application of the bandage and to secure the same on the finger of a patient and said flaps being adapted to be enfolded after the said bandage has been applied.

#### 2,712,314 ANESTHESIA NEEDLE GUIDE

Gerald C. Kohl, Tacoma, Wash.,  
Application April 12, 1954, Serial No. 422,298  
12 Claims. (Cl. 128—215)

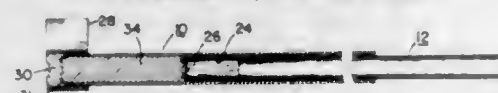


1. Anesthesia needle guide means comprising, in combination, retractor means having a head portion adapted for insertion into a cavity of the body to a wall contacting position therein corresponding to the desired location of anesthetic injection in the cavity wall, and an elongated shank portion adjoining said head portion and formed to permit handling of said retractor means to effect said insertion, and an elongated needle guide member open at both ends and mounted on said retractor means in a position thereon extending generally along said shank portion, said guide member forming an anesthesia needle guide passage extending throughout the length of said guide member for insertion of an elongated anesthesia needle through said passage to emerge beyond the distal end thereof, said guide member distal end opening being operatively positioned in relation to said retractor means head portion for injection of the cavity wall contacted by said head portion.

#### 2,712,315

##### DISPOSABLE APPLICATOR

Gordon A. Rice, Seattle, Wash., assignor to KLR Laboratories, Inc., Seattle, Wash., a corporation of Washington  
Application March 26, 1954, Serial No. 418,874  
4 Claims. (Cl. 128—261)



2. An applicator for administering a semi-solid material into a body orifice, comprising: an outer tube and an inner tube extending partway into said outer tube and slidable telescopically therein and closure means closing the inner end of said inner tube and the corresponding end of said outer tube and semi-solid material to be administered filling the space in the outer tube between the closure means, said corresponding end of said outer tube being curved over and slightly restricted, the closure means for said outer tube including a spirally wrapped strip forming an annular collar partially lapping the closure end of the outer tube, the strip having an outstanding free outer end forming a tab to be grasped for unwinding, and a wax plug filling said annular collar and closing said outer tube and bonded to the spiral strip and to the outer tube with greater area of contact with the former whereby when the spiral strip is unwound the plug will remain adhered to the strip and clear the outer tube for the dispensing of the material.

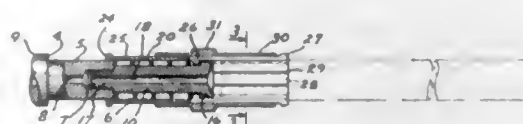
#### 2,712,316

##### CIGARETTE EJECTOR HOLDER

Arnold Silverman, New York, N. Y.  
Application August 16, 1948, Serial No. 44,558  
5 Claims. (Cl. 131—182)

1. In a holder for cigarettes, in combination, a bit having a reduced forward end portion, an ejector pin of less

diameter than said reduced portion, secured to the bit and having an enlarged head at its forward end, a tube slidably mounted on said reduced portion of the bit and having its forward end portion longitudinally slit into a plurality of elements and provided with an internal shoulder disposed between said enlarged head of the ejector pin and said bit so that said tube is slidably secured in place, a sleeve slidable on said tube, the split portions of the split tube having flared end enlargements to limit the movement of said sleeve, said tube being fabricated of resilient material and formed so that when said sleeve is moved to free said elements, said elements flare outwardly to freely receive the end portion of a cigarette and to provide predeterminedly maximum spaces between their edges; movement of said sleeve toward the split end



causing the elements to approach one another to encircle said cigarette portion and causing the cigarette paper caught in said predeterminedly maximum spaces to be crimped thereby to positively grip the cigarette; movement of said sleeve toward said bit causing the tube to move in the direction of said bit, the cigarette being prevented from following by said ejector pin, whereby the said outwardly flared elements are withdrawn from said cigarette portion to free the cigarette, and a compression helical spring disposed between the end of said bit and said internal shoulder of the tube for returning the tube in position for receiving a cigarette, movements of said tube being limited by said compression spring against one end of said reduced portion and said enlarged head of the ejector tube.

#### 2,712,317

##### EYELASH CURLER

Charles M. Palmer, Washington, D. C.  
Application May 9, 1950, Serial No. 160,872  
10 Claims. (Cl. 132—32)



6. A front component for clamping an eyelash curler pad, comprising: an upstanding longitudinally curved rim and a depending downwardly and rearwardly curved breast portion provided with a twisted terminal portion having a slot defining spaced tines.

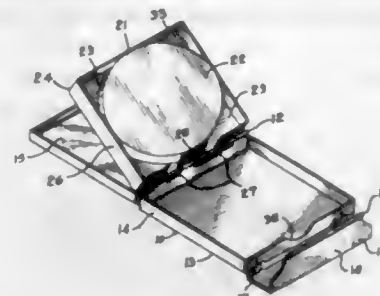
#### 2,712,318

##### VANITY BOX

Le Roy Root, Stamford, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut  
Application May 20, 1953, Serial No. 356,279  
1 Claim. (Cl. 132—83)

A vanity case for compacted powder comprising square shaped body and cover members hinged together, said body member having a flat base with an upstanding surrounding wall, a square shaped holder frame consisting of a top surface wall with depending edge flanges arranged to fit into said body wall, said depending flanges of the frame providing a receptacle for receiving a round pan filled with compacted powder and having tangential

engagement with three of the flanges of said frame when the pan is telescopically assembled from the underside of said frame, the fourth of said flanges having a pair of spaced lugs sheared outwardly thereof and formed into hinge barrels for hingedly connecting said frame to the common hinge of said body and cover members, that por-



2,712,319  
HAIR WAYER  
Leo Roitner, Kirkland Lake, Ontario, Canada  
Application March 11, 1954, Serial No. 415,629  
5 Claims. (Cl. 132—129)

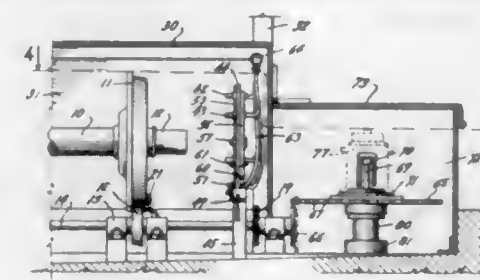


1. A hair waving device comprising, in combination, a pair of hair gripping members, a comb member, cam means mounted on one of said members, and cooperating follower means mounted on the other member whereby upon operation of the device the hair gripping members pivot outwardly and the comb and hair gripping members move laterally with respect to one another.

#### 2,712,320

##### CLEANERS FOR RAILROAD CAR WHEELS AND BEARINGS

John A. Schroeder and Kenneth J. Glasmann, Denver, Colo., assignors to Paxton Mitchell Co., Omaha, Nebr.  
Application January 25, 1954, Serial No. 406,026  
7 Claims. (Cl. 134—123)

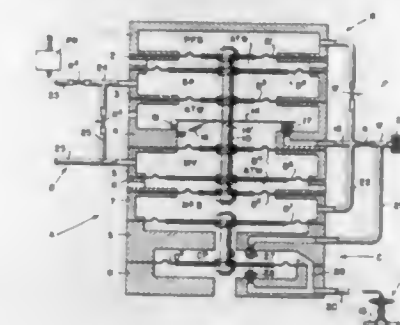


1. A device for cleaning the journals and bearings of a railway wheel and axle assembly comprising: spaced-apart wheel-receiving rollers adapted to receive the wheels of said assembly; a nozzle-supporting member positioned at each extremity of said wheel and axle assembly; nozzles mounted in each nozzle-supporting member; means for projecting cleaning fluid through said nozzles against said assembly; and means for rotating said rollers.

#### 2,712,321

##### CONTROL APPARATUS

Edward C. Grogan, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application April 17, 1951, Serial No. 221,501  
2 Claims. (Cl. 137—86)



1. A controller of the air controller type providing proportional control and comprising in combination, a structure, deviation means supported by said structure and comprising set-point, measured variable, and negative feed-back responsive devices, each of said devices comprising a pressure chamber having at least one flexible wall parallel to a flexible wall of each of the other devices, a control element perpendicular to and operatively connected to a central portion of each of said flexible walls, said flexible walls and control element being so relatively arranged that the measured variable device tends to move said element in one direction and that the negative feed-back and set-point devices each tend to move said element in a direction opposite to the first mentioned direction, conduit means for impressing a set-point force on the set-point device, a first flow restricting device connected between said conduit means and said set-point device, means to maintain in said conduit means a predetermined constant pressure regardless of the direction of fluid flow through said first flow restricting device, a second conduit means for impressing a force on said measured variable device which varies in accordance with changes in a controlling condition, a second flow restricting means connecting said measured variable and set-point chambers, one of said flow restricting devices being adjustable to vary its flow capacity, a conduit comprised of a hollow tube having imperforate walls connected to one end of said first flow restricting device and to one end of said second flow restricting device and to said set-point device, said imperforate conduit walls being sealed to prevent the escape of air therefrom except through said first and said second flow restricting devices, and a control device actuated by said element to produce control effects on and in accordance with the movements of said elements.

#### 2,712,322

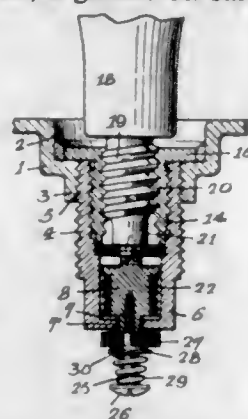
##### FILLING VALVE FOR LIGHTERS USING COMPRESSED FUEL

Charles Aimé Fortin, Montreal, Quebec, Canada, assignor to Presto Lighters Limited, Montreal, Quebec, Canada  
Application February 11, 1953, Serial No. 336,411  
4 Claims. (Cl. 137—318)

1. A filling valve comprising a housing, a gasket mounted across said housing, a slide loosely mounted in said housing adjacent to the free end thereof, a spring between said end and said slide and normally holding said slide against said gasket, said slide having a sharp tip passing through said gasket, said tip having an angular passage from its free extremity through the lateral wall thereof, the lateral end of said passage being normally closed against the inner wall of said gasket, said tip being tapered at its free extremity, whereby to become spaced from said inner wall on pressure of said slide against said spring, the free end of said housing having an out-



let therethrough, a stem extending from said slide loosely through said outlet, a gasket on said stem and normal-

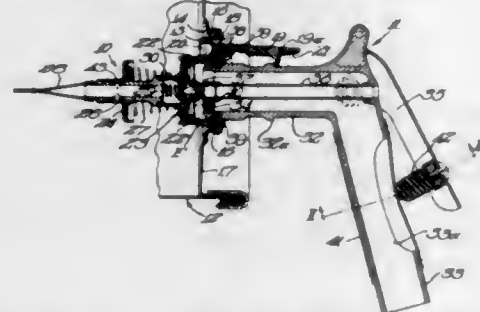


ly bearing against said outlet, a head on the outer end of said stem, and a spring between said head and gasket.

2,712,323

### SPIGOT AND ADAPTER FOR AUTOMATIC VENTING

Jacob Rush Snyder and Frank J. Schenkelberger, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application October 6, 1949, Serial No. 119,892  
11 Claims. (Cl. 137—322)



2. A drainage control comprising, in combination, an adapter element defining a generally cylindrical flow passage, a poppet valve in said adapter in control of said flow passage, an independent venting duct extending into the container and defined by said adapter, check valve means in control of said venting duct, and a spigot structure, said spigot being generally pistol-shaped with a generally tubular barrel portion adapted to be reciprocally positioned in the adapter flow passage, said spigot structure further defining a hollow handle portion depending from the end thereof, said handle portion having a window formed therein, a resilient sheet of flexible material covering the window, a lever pivotally carried by the handle portion, a depresser finger on the lever in registry with the window, said lever and finger cooperable with the handle portion to collapse the flexible material inwardly, thereby sealing off the spigot when the handle and the lever are simultaneously gripped as in clinching a pistol, said spigot structure further defining an independent venting duct therethrough cooperably registerable with the venting duct in said adapter, and abutment means cooperating between said spigot and said poppet valve and between said spigot and said check valve means to unseat said poppet valve and said check valve means, whereby the sealed off spigot may be inserted into the adapter to unseat the poppet valve and the check valve means for initiating a self-venting flow through the spigot upon release of the handle lever.

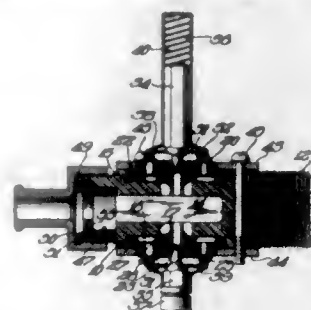
2,712,324

### FLUID MIXING VALVE

James K. Lund, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois  
Application June 5, 1951, Serial No. 229,983  
5 Claims. (Cl. 137—606)

1. A valve body comprising a hollow body part having two aligned spaced recessed outwardly facing annular wall

portions, a central passageway through said wall portions opening to opposite sides of said valve body, the hollow part of said valve body defining a mixing chamber extending therealong parallel to said wall portions and intersecting said central passageway, an outlet from said valve body from one end of said mixing chamber, two spaced inlets leading into said valve body into the opposite end thereof from said outlet and extending along said body

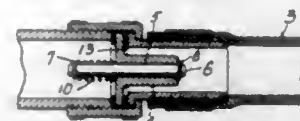


on opposite sides of said mixing chamber and parallel thereto, and separated therefrom by the walls of said passageway, and fluid passageways extending generally parallel to said central passageway for the flow of fluid from said inlets into said mixing chamber in opposed directions, including a fluid passageway from one of said inlets through one of said wall portions and another fluid passageway from the other of said inlets through the other of said wall portions.

2,712,325

### IRRIGATION FLOW CONTROLLER

Orrin E. Andrus, Milwaukee, Wis.  
Continuation of abandoned application Serial No. 762,285, July 21, 1947. This application September 13, 1954, Serial No. 455,496  
2 Claims. (Cl. 138—40)

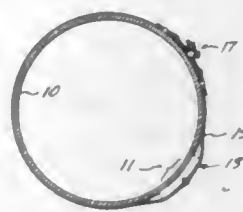


1. A water flow controller for garden hose and the like, comprising a body adapted to be disposed between coupling members and having a transverse wall with an orifice extending axially therethrough, said wall having an axial thickness substantially greater than the diameter of said orifice, a floating pin disposed in said orifice extending axially to control the flow of water therethrough, and means operable in response to differential water pressure on the opposite sides of said orifice to control the movement and position of said pin, said body being of smaller diameter than the inside diameter of the coupling members and having an annular flange adapted to be clamped between the coupling members to secure the controller in place.

2,712,326

### TANK PATCH HOLDER

Alfred Yurdin, Newark, N. J.  
Application September 11, 1952, Serial No. 308,964  
5 Claims. (Cl. 138—99)

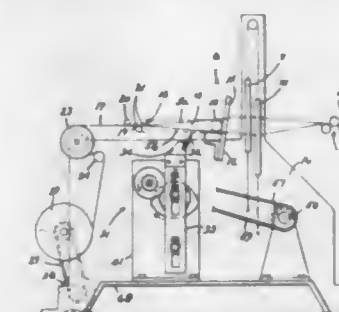


1. A tank patch for covering a leakage region in the side of a tank, which region is of greater extent, either

2,712,328

### LOOM HAVING INDEPENDENT LAY AND WEFT INSERTING MECHANISMS

John S. Chaya, Springfield, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware  
Application June 5, 1952, Serial No. 291,960  
10 Claims. (Cl. 139—191)

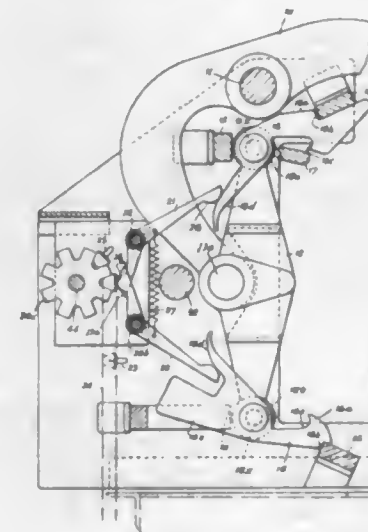


axially or longitudinally of the tank, than the width of the patch, said patch comprising a relatively stiff, flexible backing plate of greater length than width, a soft, resilient facing on one side of the backing plate and substantially coextensive therewith, strap holders on the other side of the backing plate and intermediate the ends of the backing plate, the strap holder having channels for straps and being spaced from one another in the direction of the length of the backing plate, a pivot connection securing each of the strap holders to the patch and about which the strap holders are rotatable to turn them angularly from positions in which the channels are in alignment with one another, for holding a single strap, to positions in which the channels are parallel to one another or at various angles to one another for holding two straps that straddle a pipe extending from the side of the tank and for holding the patch with its length extending in various directions according to the direction of the greatest extent of the leakage region, at least one flexible strap for fastening across the backing plate to hold the patch in position on the tank, and a tensioner connecting the opposite ends of the strap for tightening the strap around the tank.

2,712,327

### DOBBIES FOR LOOMS

Frank Davies and John Kennedy Pitts, Didsbury, Manchester, England, assignors to The British Cotton Industry Research Association, Manchester, England, a British association  
Application November 6, 1952, Serial No. 319,044  
14 Claims. (Cl. 139—71)



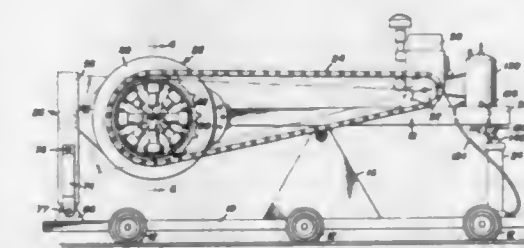
1. A double lift open-shed dobby for looms comprising a plurality of baulks each having an upper hook and a lower hook pivotally mounted on the upper and lower ends, respectively, of the baulk, upper and lower front stops adjacent the respective ends of the baulk for preventing forward movement of the hooks and of the associated supporting ends of said baulks, a pair of upper and lower oscillatory knives positioned forwardly of said baulks and adapted to be selectively engaged by said hooks for oscillating said baulks to effect shedding of the warps when said hooks are disengaged from the front stops, means for oscillating said knives oppositely to one another, each of said hooks having a knife and front stop engaging portion extending forwardly, and a tail portion extending rearwardly, of its pivot, pivotally mounted feeler members in engagement with the tail portions of said hooks for controlling the pivotal movements of said hooks relative to said baulks, and a pattern mechanism for controlling the operation of said feeler members, both said feeler members and said pattern mechanism being positioned rearwardly of said baulks.

1. A loom comprising means for guiding a plurality of threads into substantial parallelism over a flat path to form a warp sheet of threads, means for successively opening the threads to form a shed extending widthwise of the sheet, a shuttle for inserting weft, a stationary raceway for guiding the shuttle along a path through the shed, an elongate comb having spaced teeth of a thickness adapting them to readily enter the threads constituting the shed, movable means for supporting the comb transversely with respect to path traversed by the sheet and exteriorly of the shed with the teeth extending toward the region within the shed, said movable means having guide surfaces extending in a direction away from the comb, at least one of the guide surfaces being spaced further away from the comb than another, pivotal means having an axis extending in spaced substantially parallel relationship with the shuttle path and the shed for slidably and rotatably engaging one of said guide surfaces, crank means in engagement with one of said guide surfaces spaced differently with respect to the comb than the guide surface in engagement with the pivotal means, said movable member comprising a cam follower, a cam for engaging said cam follower to move the comb into and out of the shed, and means connecting the crank means and the cam for synchronous rotation.

2,712,329

### ROTARY BARKING MACHINE

Elry D. Crank, Buckner, Ark.  
Application March 6, 1952, Serial No. 275,078  
9 Claims. (Cl. 144—208)



1. A log debarking head comprising a horizontally disposed sleeve mounted for rotation on a longitudinal axis, a plurality of debarking brushes pivotally mounted on the inner periphery of said sleeve on chordal axes transverse to the longitudinal axis of rotation thereof for engagement with a log being moved longitudinally into said debarking head, said debarking brushes each including a brush holder, a wire brush removably mounted in said brush holder, said brush holder being spring urged into a position normal to the longitudinal axis of the debarking head to which it is attached for tending to attain a position normal to the axis of a log to be debarked.



2,712,330

**LOG-BARKING DRUM AND TOOTHED ELEMENT THEREFOR**

Caney A. Thompson, Mobile, Ala., assignor to International Paper Company, New York, N. Y., a corporation of New York

Application March 30, 1953, Serial No. 345,350  
3 Claims. (Cl. 144—208)

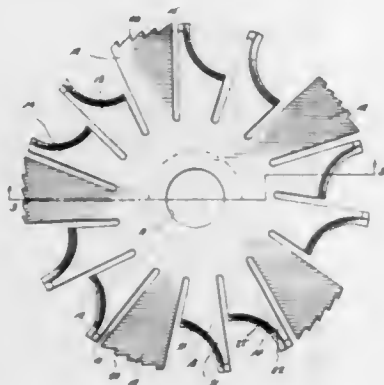


1. In a barking drum wherein is provided an open-ended cylinder, means for rotatably supporting said cylinder and means for rotating said cylinder; the combination of a multiplicity of longitudinally extending rows of arcuate toothed elements rigidly affixed to the interior of said cylinder in positions to be contacted by individual wood billets as the result of tumbling action induced by rotation of said drum, the toothed elements of each of said rows comprising a multiplicity of individual toothed elements arranged zigzaggedly, each tooth of said toothed elements when viewed from one side thereof including a leading edge extending substantially radially with respect to the axis of rotation of the drum and terminating in a sharp inner corner, a trailing edge spaced from said leading edge, and a flat surface extending between said sharp inner corner and said trailing edge, said flat surface sloping outwardly towards the periphery of said drum.

2,712,331

**SLICING SAW CUTTING HEAD**

Henry J. Juedeman, Junction City, Kans.  
Application August 15, 1952, Serial No. 304,480  
1 Claim. (Cl. 144—222)



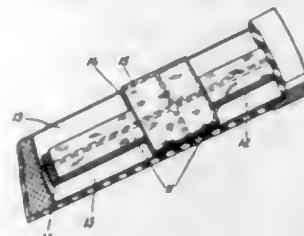
A slicing saw cutting head comprising a central body having an opening therein for the attachment of the body to a shaft, and radially extending cutting projections extending outwardly from the body portion and arranged in sets, one projection of each set having saw teeth thereon, the succeeding projections of each set having arcuate cut-away portions at their outer or peripheral edges and being twisted out of the plane of the body portion and providing cutting edges serving to make a rounded cut on a work piece, said projection having the saw teeth formations thereon lies partially in the plane of the body and extends outwardly from such body plane on one side thereof, and the remaining projections being twisted and lying fully without the plane of the body on the opposite side thereof with respect to the projection having the saw teeth.

2,712,332

**CONVEYOR BELTS AND METHOD OF MAKING THEM**

Karl Bertil Annerhed, Sandviken, Sweden, assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden, a corporation of Sweden

Application May 19, 1952, Serial No. 288,660  
Claims priority, application Sweden March 14, 1952  
11 Claims. (Cl. 74—232)



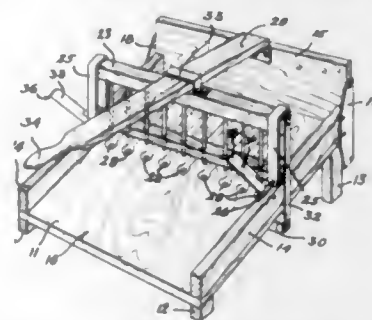
1. A conveyor belt comprising at least two relatively long and narrow flexible strips of sheet steel, each of said strips being of uniform width, the longer edges of said strips being rectilinear when said strips lie in a plane and said strips being positioned lengthwise of the belt and parallel to each other with a longer edge of each strip contiguous to a longer edge of another strip and so that the intersection of said strips with a plane perpendicular to said longer edges is a straight line, a relatively long and narrow strip of elastic material of uniform width extending longitudinally of the belt and overlying contiguous edge portions of two sheet steel strips, a relatively long and narrow sheet steel strip of uniform width extending lengthwise of the belt and overlying said strip of elastic material and a cover of elastic material enclosing all of said strips.

7. A method of forming a conveyor belt which comprises laying at least two flexible steel strips each of uniform width and having straight edges when lying in a plane side by side with their adjacent longitudinal edges contiguous to each other and so that the intersection thereof with a plane perpendicular to said edges is a straight line, covering the contiguous longitudinal edge portions of said strips with a strip of elastic material, superposing a strip of steel on said strip of elastic material and covering the resulting assembly with an outer layer of elastic material.

2,712,333

**CHERRY-PITTING MACHINE**

Tom Toyota Hirao, Pasco, Wash.  
Application October 24, 1952, Serial No. 316,677  
1 Claim. (Cl. 146—19)



A cherry-pitting machine comprising in combination a table inclined longitudinally, a transversely disposed row of spaced sockets in the upper face of said table, each said socket having an aperture extending downwardly through the table, depressed tracks on the upper face of said table and communicating one with each said socket and extending longitudinally of the table upwardly of the sockets, a stripping bar disposed spaced above said sockets and having apertures axially aligned with said first named apertures, a plunger bar parallel with and above said stripping bar and shiftable toward and away from said stripping bar, depending plungers carried by said plunger bar and extending axially through

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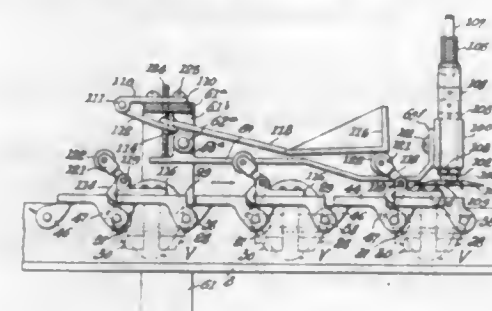
said second named apertures and normally spaced above said first named apertures, whereby downward movement of said plunger bar will effect movement of the lower ends of said plungers through said sockets and into said first named apertures, a lifter bar disposed beneath the table parallel with said plunger bar and shiftable therewith toward and away from the table, upstanding lifters carried by said lifter bar and axially aligned with said plungers and adapted to move upwardly through said first named apertures into said sockets, said lifters having angled faces disposed at an angle greater than the incline of said table and in the same direction, whereby cherries in the sockets are displaced, and a tiltable lever hingedly carried by the table and operably connected to said plunger bar whereby said plunger bar may be manually shifted in a vertical path.

2,712,334

**VEGETABLE ORIENTING AND TRIMMING MACHINE**

Edward W. Bridge, Philadelphia, Pa.

Application January 11, 1950, Serial No. 138,048  
3 Claims. (Cl. 146—81)

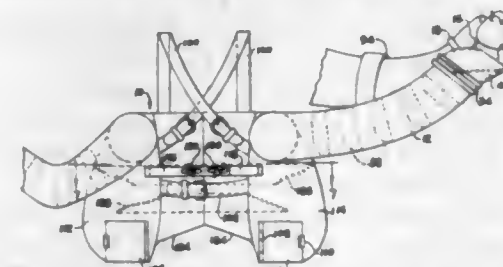


1. In a vegetable trimming machine embodying a conveyor chain composed of pocket and connecting links and a cutting mechanism, each of said pocket links consisting of a fixed part and a movable part slidably carried by the fixed part, the improvement which includes springs positioned between and engaging said fixed and movable parts and continuously tending to separate said parts to receive a vegetable to be trimmed, plates secured to said fixed part, levers pivotally mounted on said plates and arranged to engage the movable part for compressing said spring and urging said movable part towards said fixed part, rollers mounted on said levers, a support positioned above said conveyor chain, a pair of hinges having an end secured to said support in spaced relation, a pair of cam shoes secured to the free ends of said hinges, said cam shoes having weighted ends engageable with said rollers as the pocket links approach the cutting mechanism for applying pressure to the movable part of each pocket link during the period that said rollers are in engagement with said weighted ends.

2,712,335

**FRUIT PICKING DEVICE**

Wallace M. Houldsworth, Royal Oak, Mich.  
Application August 3, 1949, Serial No. 108,299  
4 Claims. (Cl. 150—2)



1. In a fruit picking container of the character described, a U-shaped container formed of two side sections which together partially encircle the body of an operator thereof, means of hinging the two side sections

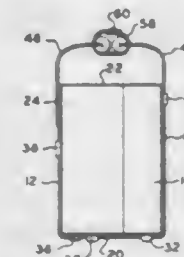
together about a vertical axis, and for holding the two sections in desired adjusted positions about said vertical axis.

2,712,336

**CARRYING CASES**

Robert C. Casselman, Auburndale, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application January 9, 1953, Serial No. 330,459  
11 Claims. (Cl. 150—52)



1. A carrying case comprising a front wall, a rear wall, a base, a cover, a first pair of strap guide members fixedly secured to said base, a second pair of strap guide members fixedly secured to one of said front and rear walls, a third pair of strap guide members detachably secured to the other of said front and rear walls, and an endless carrying strap, said strap being slidably engaged by at least said first and second pairs of guide members.

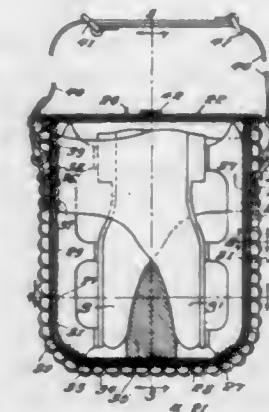
2,712,337

**BAG FOR CARRYING SHOE ICE SKATES**

Paul E. Tremblay, East Lynn, Mass.

Continuation of application Serial No. 198,361, November 30, 1950. This application October 2, 1953, Serial No. 383,763

3 Claims. (Cl. 150—52)



1. A carrying bag for shoe skates, said bag being dimensioned to accommodate shoe skates with their blades outermost and substantially parallel and with their uppers partly overlapped, said bag being open at one end and including a cover to close said open end, relatively stiff side, end, and bottom walls disposed relative to each other to establish a predetermined shape for said bag, and a centrally located upwardly tapered partition at the lower end of said bag, the opposite faces of said partition being convexly contoured and engageable by substantial portions of the fore parts of the shoe skates, said partition being secured to the bottom, front and back walls of said bag and reinforcing a substantial part of said bag thus to ensure retention of its shape.

2,712,338

**INNER TUBE FOR PNEUMATIC TIRES**

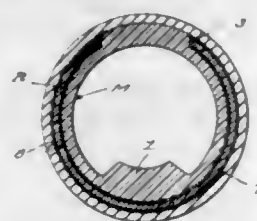
Hansford D. Hurt, Arlington, Calif.

Application June 6, 1952, Serial No. 292,114  
4 Claims. (Cl. 152—347)

1. An inner tube comprising an inner tubular envelope of rubber-like, tacky plastic material having a thickened tread portion and a thickened base portion, said base portion defining a pair of shoulders; a plurality of coex-



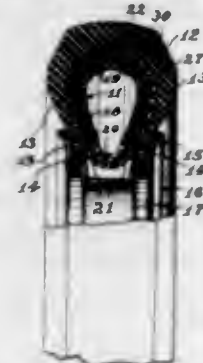
tensive laminations secured on the external surface of said inner tubular envelope and extending across the tread portion of the inner envelope from shoulder to shoulder; said laminations comprising a first layer of non-woven substantially inelastic flexible sheet fabric material disposed adjacent said inner envelope, a second layer of



rubber-like plastic material adjacent said first fabric layer, and a third layer of substantially inelastic flexible sheet fabric material disposed adjacent said second layer; and an outer tubular envelope of rubber-like stretchable elastic material secured over said third layer and thickened base portion.

2,712,339

**INNER TUBE FOR PNEUMATIC TIRES**  
Hansford D. Hurt, Arlington, Calif.  
Application September 30, 1952, Serial No. 312,261  
8 Claims. (Cl. 152—350)



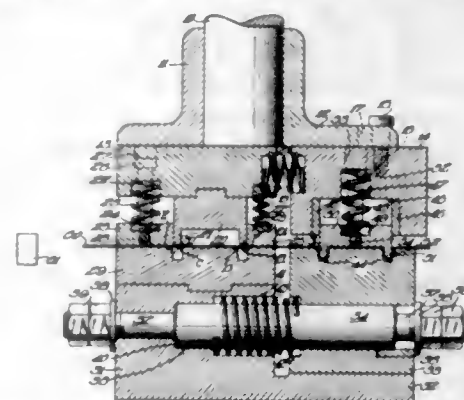
1. In an inner tube, an inner tubular envelope of stretchable elastic material externally thickened at one portion thereof to define external shoulders, a plurality of laminations secured on the external surface of said envelope and extending adjacent said shoulders, at least one of said laminations being substantially non-stretchable in a direction parallel to the major circumferential direction of the tube and another of said laminations comprising a matrix of elastic stretchable material and a plurality of elongated, substantially non-stretchable elements extending at a substantial angle to said major circumferential direction, and an outer tubular envelope of stretchable elastic material secured on said laminations and said externally thickened portion of the inner envelope.

2,712,340

**APPARATUS FOR GROOVING SHEET METAL**  
Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan  
Application February 8, 1950, Serial No. 143,009  
7 Claims. (Cl. 153—76)

1. In combination, a press ram mounting, a ram reciprocally carried by said mounting, a ram block carried by said ram, a first die member carried by said ram block for movement with said ram, a second die member fixed with respect to said ram mounting for cooperation with said first die member to form a groove in a metal plate positioned between said die members, a first gauge member carried by said ram block and laterally slidable relative thereto toward and away from said first die member, resilient means urging said first gauge member away from said ram block in the direction of reciprocation of said ram, means retaining said first gauge member with said ram block, a second gauge member carried by said ram mounting and laterally movable relative thereto, the

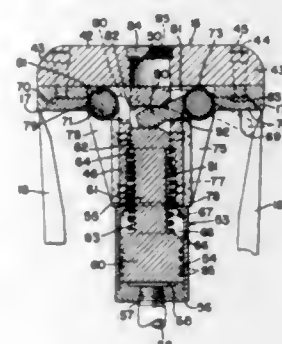
gauge members being constructed and arranged to hold the plate against relative movement with respect thereto, resilient means confined between the corresponding die and gauge members for urging said gauge members laterally outwardly from said die members, and means



engaging said gauge members for limiting laterally outward movement thereof for determining the gauging position of the gauge members, said resilient means confined between the die and gauge members accommodating lateral movement of said gauge members toward said die members during groove forming movement of said dies.

2,712,341

**KNIFE CLEANING DEVICE FOR BUTT SPlicing APPARATUS**  
Everett D. George, Cuyahoga Falls, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio  
Application February 18, 1952, Serial No. 272,080  
10 Claims. (Cl. 154—9)



1. In a butt splicing apparatus embodying a pair of clamping means for holding the ends of the material to be joined, a slide member cooperating with each clamping means for shiftable movement toward and away from each other, means for shifting the slide members, parallel cutting knives for trimming each of the ends of the material to be joined, and a cutting surface for each cutting knife, a device for removing the trimmings from the adjacent sides of the knives comprising means supported on each cutting surface and movable between the adjacent sides of the knives for removing the trimmings from the cutting knives; and means actuating the shifting means and the removing means substantially simultaneously and bringing the removing means into and out of contact with the cutting means.

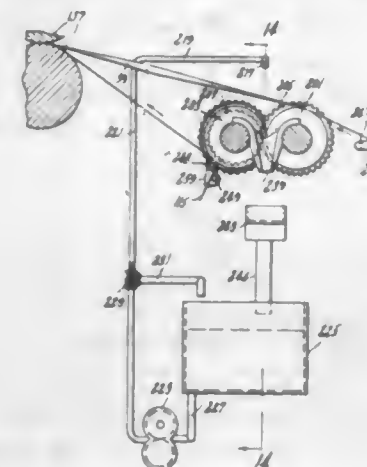
2,712,342

**LAMINATING MACHINE FOR PRODUCING COMPOSITE WEBS OF PAPER**  
Clarence Lloyd Claff, Chester E. Claff, and Carl A. Moeller, Randolph, Mass., assignors, by mesne assignments, to M. B. Claff & Sons, Inc., Randolph, Mass., a corporation of Massachusetts  
Original applications December 5, 1946, Serial No. 714,234, and March 6, 1948, Serial No. 13,388. Divided and this application March 2, 1950, Serial No. 147,164

6 Claims. (Cl. 154—37)

1. A laminating machine having, in combination, a pair of rolls, mechanism for rotating the rolls in oppo-

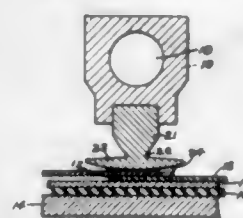
site directions, the rolls being held in close relation to form a bite, means for supplying a spreadable adhesive material to the roll surfaces entering the bite, means to adjust the bite of the rolls to smooth and spread said ma-



terial thereon, means for feeding a pair of webs to be joined having provision for causing one web to bear upon one roll and the other web upon the other roll, said webs passing over the rolls externally of the bite, and means to join the coated webs.

2,712,343

**HEAT SEALING MACHINE**  
Robert E. Stanton, Bloomfield, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware  
Application July 14, 1953, Serial No. 367,908  
1 Claim. (Cl. 154—42)



In an apparatus for the heat-sealing of thermoplastic films, means having a resilient surface for supporting said films, said means comprising a forming plate, a resilient rubber layer on said forming plate, a layer of glass cloth coated with polytetrafluoroethylene on said rubber layer, said coated glass cloth layer being adapted to receive said films, and a sealing iron for applying heat and pressure to said films, said sealing iron comprising a heat receiving portion and a tapered sole plate having a convex sealing face coated with polytetrafluoroethylene, said heat receiving portion being joined to said sole plate only by an integral tapered portion having a narrow waist adjacent to the center of said sole plate.

2,712,344

**PRIVATE CARS FOR PREPARING FULL-LENGTH RESTING-PLACES**  
Henry Weber, Zurich, Switzerland  
Application July 12, 1950, Serial No. 173,283  
Claims priority, application Switzerland July 14, 1949  
6 Claims. (Cl. 155—7)

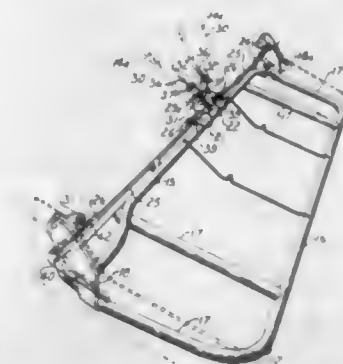


1. In a convertible vehicle having side walls a seat part and a back part, the back part comprising a crook-

shaped fixing member, a bolt arranged on the seat part, said member engaging said bolt in a normal position, a turning joint having a pair of arms pivoted to the back and to the seat part, the total length of the arms being substantially equal to the height of the seat part to allow a turning and a rear-upward movement of said part in a bed-forming position, a substitute seat-back of textile material, the front end of said substitute seat-back being secured to the front end of the first-mentioned seat part, the rear end of said substitute seat-back comprising a rod; and two supporting members arranged on the side walls of the vehicle, said rod being fixed between said two supporting members when the said seat-part is lowered in the bed-forming position.

2,712,345

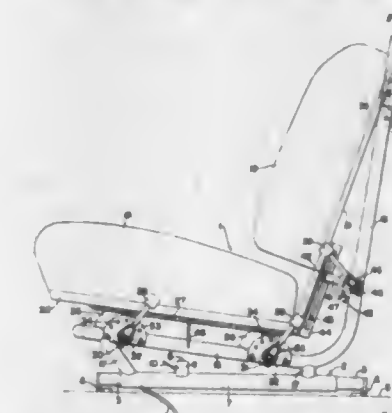
**SEAT BACK LOWERING MECHANISM**  
Henry C. Borisch, Detroit, Mich., assignor to American Motors Corporation, a corporation of Maryland  
Application September 26, 1952, Serial No. 311,709  
9 Claims. (Cl. 155—7)



1. In combination, a seat frame, a seat back, two segments secured to said seat back, one adjacent each end thereof, said segments having a plurality of notches therein, a stationary support adjacent each segment mounted on said frame, a pair of hinge pins secured to said seat back, one adjacent each end thereof, said pins engaged with said supports, a link, said link pivotally mounted on one of said pins and arranged adjacent the opposite side of one of said supports, said link provided with a segment having a plurality of notches therein, an operating shaft, a pair of latch rods mounted on said operating shaft, one adjacent each end thereof, said shaft and rods being engaged with said supports, one of said rods arranged to intermittently engage one or the other of said first mentioned notches and said second mentioned notches.

2,712,346

**ADJUSTABLE SEAT**  
Dallas L. Sprinkle, Akron, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio  
Application March 31, 1952, Serial No. 279,512  
5 Claims. (Cl. 155—14)

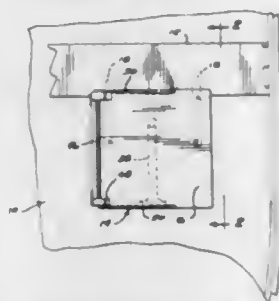


1. A vehicle seat comprising a generally L-shaped frame having a horizontal frame portion and a vertical frame portion, a seat back and a seat bottom adapted



to be adjustably supported from said frame and hingedly connected to one another, cooperating cam means on the horizontal frame portion and the front of said seat bottom and similar cooperating cam means on the horizontal frame portion and the back of said seat bottom, said cam means being independently adjustable to change the pitch of said seat bottom and said cam means including cooperating surfaces, one of which is rectilinear to permit adjustment of said seat bottom fore and aft of said frame without disturbing such pitch adjustment, said seat back having a pivotal vertically slidable support at its top engaging the vertical portion of said frame, and support means at the lower portion of said seat back for adjustably supporting it from the vertical, frame portion and providing adjustment of inclination of said seat back.

**2,712,347**  
**DEMOUNTABLE BOAT CHAIR**  
John L. Cepull, Springdale, Pa.  
Application May 29, 1953, Serial No. 358,494  
3 Claims. (Cl. 155-79)

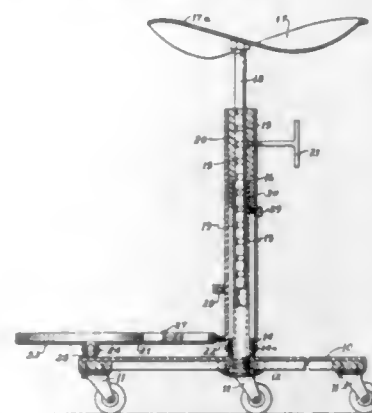


1. A foldable, demountable chair for support by and between the seat board and bottom of a boat, comprising: a flat seat adapted to extend horizontally from one side of said seat board with one side edge of said seat supported directly upon said side of the seat board; clamp bars rigidly secured to the underside of the seat and spaced along said edge thereof, said bars having one end in contact with the underside of the seat, and having their other ends offset downwardly from the underside of the seat and projecting laterally beyond said side edge portion of the seat to define, between the downwardly offset ends of the clamp bars and said side edge portion of the seat, a seat-board-receiving space into which the seat board may extend in the operative position of the seat with the downwardly offset ends of the clamp bars adapted to engage against the underside of the seat board; and a supporting leg assembly hingedly connected to the opposite side edge of said seat for swinging movement about an axis paralleling said seat board, and extending downwardly in one position to which said assembly is swung about said axis, to engage with the bottom of the boat.

**2,712,348**  
**DENTAL STOOL HAVING A ROTATABLE MOTOR CONTROL SUPPORT**  
John E. Cooper, Los Angeles, Calif.  
Application March 22, 1954, Serial No. 417,709  
7 Claims. (Cl. 155-134)

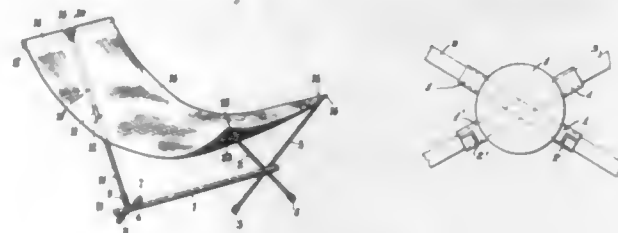
1. A dental stool comprising a circular foot support, a plurality of caster-carrying feet mounted beneath and movably supporting said foot support, a standard extending uprightly from the center of said foot support and rotatably mounted with respect thereto, a seat adjustably mounted on the top of said standard, the rotation of said seat adapted to rotate said standard, a roller supported motor control support pivotally attached to said standard, said motor control support having a circular portion adapted to hold a foot operated motor control, a pin attached to said motor control support between said circular portion and said standard, a clamp mounted on said standard, said motor control support adapted to be

pivoted to a non-use position adjacent said standard, said clamp adapted to grip said pin to hold said motor control support in non-use position adjacent said standard, said



motor control support adapted when in use to be rotated on the top of said foot support by the rotation of said seat and standard.

**2,712,349**  
**PORTABLE DECK-CHAIR**  
Albert Le Volr, St. Gilles-Bruxelles, Belgium  
Application April 27, 1951, Serial No. 223,321  
Claims priority, application France May 12, 1950  
11 Claims. (Cl. 155-139)



1. In a bottom supporting structure for chairs and the like, comprising, in combination, a first elongated rigid member being formed adjacent an end thereof with a pair of oppositely inclined openings extending transversely through said first member and being located closely adjacent to each other; a second elongated rigid member of a smaller size than said first member extending through one of said openings and having an intermediate part located within said first rigid member; and a third rigid member identical with said second rigid member, extending through the other of said pair of openings, and also having an intermediate part thereof located within said first member.

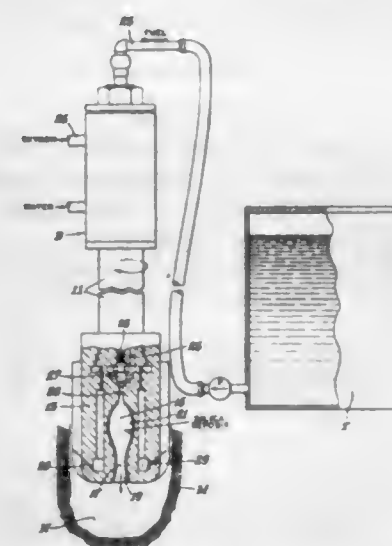
**2,712,350**  
**CIRCUMFERENTIALLY TRAVELING TYPE TIRE BEAD LIFTING TOOL**  
Robert D. Henderson, Cincinnati, Ohio  
Application July 29, 1952, Serial No. 301,513  
3 Claims. (Cl. 157-1.22)



1. A tire demounting tool comprising, an elongated handle, socket means at one end of said handle and a pair of blades extending from said socket means in diverging relationship to one another at opposite sides of the axis of the handle, the said blades being of substantial width, and being inclined with respect to the axis passing through said handle so that the tip extremities of

said blades are offset substantially from the axis of said handle, the said blades having locating grooves formed thereon at the faces thereof which are on the same side of the tool as said socket means, the said locating grooves being spaced inwardly from the tip extremities of said blades to facilitate insertion of the blades to proper depth beneath the bead of a tire by engagement of the said locating grooves at the rim flange of a wheel upon which the tire is mounted.

**2,712,351**  
**METHOD OF OPERATING AN INTERNAL COMBUSTION BLOWTORCH**  
Donald W. Roth and William J. Mitchell, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York  
Application February 23, 1949, Serial No. 77,772  
5 Claims. (Cl. 158-27.4)

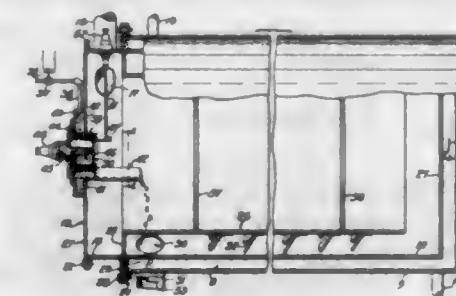


2. A method of operating a heating blowtorch having a metallic internal combustion chamber having a restricted outlet portion communicating with an expanding orifice for discharging a high temperature flame jet of high velocity therefrom which comprises concurrently and continuously feeding to said chamber oxygen and a liquid fuel carrying along therewith a quantity of a compound of silicon combustible to form between 0.01% and 10% by weight of silica; effecting combustion in said chamber at fuel and oxygen feed rates and pressures to provide flame temperatures higher than the fusion temperature of silica and to provide a flame that is continuous; discharged from said chamber at high velocity whereby a protective coating of fused silica is deposited on the internal walls of said chamber and excess coating is washed out of said chamber; and reducing the amount of said compound of silicon in said fuel to a quantity not less than the equivalent of 0.01% by weight of silica to balance the rate of deposition of fused silica to the rate at which it is washed out of said chamber for maintaining a desired equilibrium thickness of fused silica on said chamber walls.

**2,712,352**  
**APPARATUS FOR VAPORIZING AND IGNITING COLD LIQUID FUEL**  
Paul A. Manor and John K. Siddle, Columbus, Ohio, assignors to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio  
Application November 28, 1950, Serial No. 197,976  
6 Claims. (Cl. 158-28)

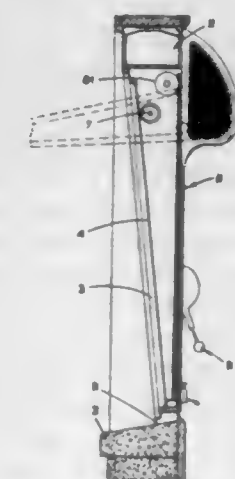
6. In a heater for use in Arctic regions, in combination, means forming a combustion chamber, means for supplying fuel and air to the combustion chamber, and means for igniting the fuel comprising a recess that is closed at one end and has its other end opening into the combustion

898 O. G.—5



fuel to the asbestos-type wick material, whereby such fuel is vaporized at the surface of the wick material by reason of the relatively high temperature to which such surface is heated by the heating element because of the low heat conductivity of the wick material, and means forming a spark gap arranged to discharge a spark to ignite a combustible mixture of air with vapor that has been collected in the air space in the recess.

**2,712,353**  
**WINDOW SHADE AND AWNING CONSTRUCTION**  
Wesley A. Smith, St. Clair Shores, Mich., assignor to Tilt-A-Door Corporation, Detroit, Mich., a corporation of Michigan  
Application March 19, 1952, Serial No. 277,378  
4 Claims. (Cl. 160-96)



1. In window construction, the combination comprising: sash structure including a pair of sash stiles, each thereof being materially wider in an inward and outward direction at its upper end than at its lower end, an upper rail connecting the upper ends of said sash stiles and including a counterweight and a lower rail connecting the lower ends of said sash stiles; frame structure surrounding said sash structure, pivotally supporting same for pivotal movement about a horizontal axis and providing jamb structure for engagement by the peripheral edges of said sash stiles; a glass panel mounted adjacent the outer edges of said sash stiles; a shade and shade supporting roll mounted on said sash parallel with and closely adjacent said axis, said roll being adapted for exerting a constant tendency for rolling said shade into fully rolled position; a pull cord attached to the free end of said shade; a guide at the lower end of said sash; means fixed with respect to the frame of the window exerting a frictional force against said cord; the said counterweight being so positioned that



the center of gravity of the entire structure above the pivot axis is inwardly of a vertical plane through said pivot axis whereby when said window is in a closed position said counterweight will tend to open said window and thereby at least partially overcome the resistance to opening of said window exerted thereon by said pull cord, said means exerting frictional force on said cord being capable of exerting sufficient force on said cord to overcome the tendency of said roll to keep said shade in a fully rolled position whereby said shade is unrolled as said sash structure pivots with respect to said frame structure into its outwardly extending position.

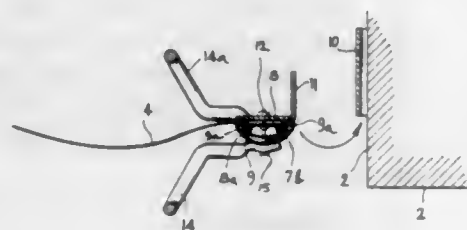
2,712,354

## SHOWER BATH CURTAIN DEVICE

Jacob C. Margolies, Great Neck, N. Y.

Continuation of application Serial No. 133,982, December 20, 1949. This application June 16, 1954, Serial No. 437,221

1 Claim. (Cl. 160—330)



In combination, a shower curtain having spaced openings along its top edge portion for reception of supporting hooks, at least one of said openings being included in a vertical side edge-zone of said curtain, and a rigidifying structure for said side edge-zone of said curtain, said structure comprising a front reinforcing member and a rear reinforcing member between which said vertical edge-zone of said curtain is adapted to be held and clamped, said rear reinforcing member having horizontal and vertical rigidity and comprising a vertically extending, substantially planar body portion whose sides are forwardly intumed to form cam flanges which face said front member, each said cam flange being substantially convex and having a vertically extending peak portion which is positioned laterally beyond the side edge of said body portion, said cam flange having a rear cam portion which extends forwardly and laterally outwardly from said body portion to said peak portion, said cam flange having a front cam portion which extends forwardly and laterally inwardly from said peak portion, said front member having horizontal resiliency and vertical rigidity and comprising a convex body portion whose sides are turned inwardly to form opposed, vertically extending, substantially planar flanges, the distance between the inner edges of said front member flanges being normally less than the distance between said peaks, said curtain edge-zone being adapted to be placed proximate to the inner face of said front member, said curtain member being adapted to be forced within the inner edges of said front member flanges by a snap action, said front and rear members being adapted to be interengaged by forcing them toward each other, said inner edges of said front member flanges being thereby flexed horizontally outwardly by said cam flange front portions until said front member flanges reach said peaks, said inner edges of said front member flanges being located inwardly of said peaks in the final assembly and clamping respective parts of said curtain against said cam flange rear portions, said curtain being also held clamped between said cam flange front portions and said front member, said front member and said rear member having registering holes for reception of a hook through said holes and also through the curtain opening at said edge-zone.

2,712,355  
HYDRAULIC FRACTURING OF EARTH FORMATIONS

Jean M. Hoff, Evanston, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana  
No Drawing. Application December 20, 1949, Serial No. 134,117

7 Claims. (Cl. 166—36)

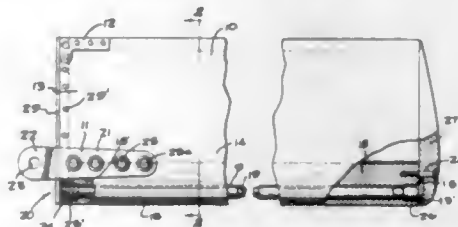
1. A method of increasing the productivity of a porous producing formation traversed by a well bore which comprises disposing adjacent and above said formation a column of hydrocarbon gel, applying to said gel a greater-than-formation breakdown pressure produced by initiating a deflagrating explosive to liberate a high pressure gas above said column, the said gas being sufficient in volume and pressure to continue the application of the pressure of said gas on said column for a sustained period until at least a part of the gel enters a fracture in the formation whereupon a drop in pressure occurs, subsequently reverting the gel within said fracture to a hydrocarbon liquid by adding a gel breaker thereto, and producing the hydrocarbon liquid from the fracture.

2,712,356

## ROTOR BLADE FOR HELICOPTERS

Dragoljub K. Jovanovich, Redondo Beach, Calif., assignor to McCulloch Motors Corporation, Los Angeles, Calif., a corporation of Wisconsin  
Application May 28, 1951, Serial No. 228,602

6 Claims. (Cl. 170—159)



1. In a rotor blade for connection to a supporting means carried by an aircraft: an extrusion of relatively lightweight metal forming an elongated hollow blade body having a thickened portion extending longitudinally of said extrusion between the leading edge thereof and the center of pressure thereof, the internal walls of said blade body being formed so as to define a channel extending along said thickened portion; a slender balancing rod member of high tensile strength substantially enclosed by the walls of said channel and extending therein from end to end of said blade; connector means attached directly to the root of said blade body for securing said blade body to said supporting means; and means to connect said slender member to said connector means and to said blade body so that said slender member may act in tension to carry centrifugal forces from the blade body to the connector means.

2,712,357

## SELF-PROPELLED WHEEL CHAIR AND STEERING CONTROL THEREFOR

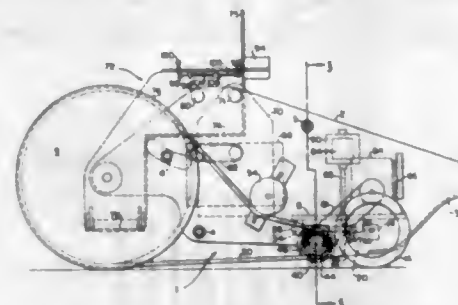
William H. Fulton, Chelmsford, Mass., and Clarence L. Moor, Jr., Laconia, N. H.; said Fulton assignor to said Moor

Application August 4, 1953, Serial No. 372,289

8 Claims. (Cl. 180—6.28)

1. A self-propelled wheel chair comprising a chassis having at one end fixed driving wheels and at its opposite end a swivelly mounted wheel, a clutch for each driving wheel, a motor having a driving connection with each clutch, steering adjuncts including cooperating latches, one of which is operative to lock said swivelly mounted wheel against swinging in one direction and the other of which is operative to lock said swivelly mounted wheel against swinging in the opposite direction, and a control system including an operating lever interconnected with

said motor, clutches and latches, said lever being selectively movable from a neutral position, wherein the motor is turned off and both clutches are engaged, to a first position, wherein said motor is turned on with both clutches and latches engaged so as to drive the wheel chair straight-ahead, to a second position, wherein said motor is turned



on with one of said clutches and one of said latches disengaged so as to turn the wheel chair in one direction, and to a third position, wherein said motor is turned on with the other of said clutches and the other of said latches disengaged so as to turn the wheel chair in the opposite direction.

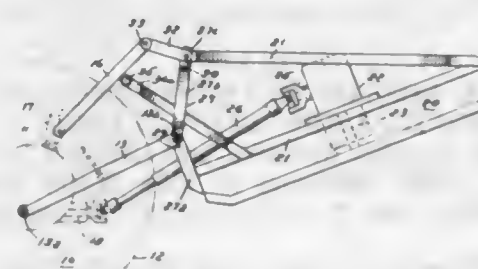
2,712,358

## HITCH FOR MOUNTED POWER TAKE-OFF DRIVEN IMPLEMENTS

Emery E. Kuhary, Royal Oak, and Frederick D. Sawyer, Birmingham, Mich., assignors, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application September 18, 1952, Serial No. 310,268

3 Claims. (Cl. 180—53)



3. For use with a tractor having two laterally spaced power-lifted pivotally trailing draw bars and a vertically spaced pivotally trailing top link, an implement having a horizontally extending rigid frame including an up-standing sub-frame, laterally spaced connector pins on said implement adapted for pivotal connection respectively to said laterally spaced draw bars, pivot connection means on the top portion of said subframe, a link pivotally inter-connecting said pivot connection means and the trailing end of said top link, the combined length of said last named link and said top link being substantially equal to the length of said draw bars, whereby said implement is initially raised and lowered relative to the tractor by substantially parallel movement, and a rigid stop member on said frame projecting forwardly and upwardly and engageable with one of said links after a predetermined raising movement of said implement, thereby producing angular displacement of said link and said top link upon further raising of said implement to tilt the rear of said implement frame upwardly.

2,712,359

## VEHICLE ACCELERATOR

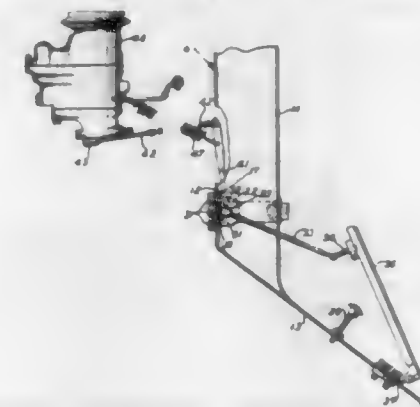
Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application November 28, 1952, Serial No. 323,067

1 Claim. (Cl. 180—90.6)

In a motor vehicle having a bulkhead between the passenger and engine compartments with the bulkhead being formed with a vertical transversely extending first

wall in front of the driver's position and a vertical transversely extending second wall adjacent the longitudinal centerline of the vehicle and offset rearwardly from said first wall, said first and second walls being joined by a vertical intermediate wall inclined rearwardly from said first wall to said second wall, an accelerator pedal pivotally mounted upon said vehicle rearwardly of said first vertical wall, a unitary one-piece supporting bracket mounted upon said bulkhead at the junction between said first and intermediate walls, said intermediate wall having a transversely extending opening therethrough adjacent the above mentioned junction between said first and intermediate walls, said bracket having a flat mounting flange secured to said first wall and an integral covering



flange extending therefrom at an angle and completely covering said opening in the intermediate wall, said bracket also having an integral enlarged transversely extending boss formed with a horizontal transversely extending bore in alignment with said opening in the intermediate wall, and a crank member having a cylindrical rod portion of substantially the same diameter as the bore in said bracket, said rod being journaled in said bore to form a weather tight force transmitting connection between the passenger and engine compartments of the vehicle, said crank member having an integral arm extending at right angles to said rod portion and connected at its rearward end to said accelerator pedal, and said rod portion having a connection to the engine controls in said engine compartment.

2,712,360

## MEMBRANE FOR SOUND REPRODUCING DEVICES

Eugene Reisz, New York, N. Y.

Application May 6, 1954, Serial No. 428,070

11 Claims. (Cl. 181—32)



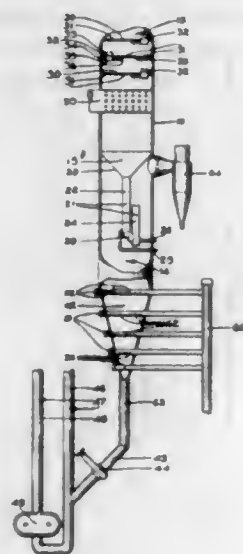
2. A high fidelity sound reproducing device, comprising a substantially conical membrane, axially divided into an inner central section and an outer peripheral section, separated by a gap, coupling members, rigid in one direction and resilient in another direction, bridging said gap at predetermined spaced points, said coupling members being arranged astride of said gap and being attached both to the inner central and to the outer peripheral section, said inner central section being attached to a voice coil transmitting its oscillations to the outer peripheral section through said spaced coupling members.



2,712,361

# **APPARATUS FOR CONTACTING GASEOUS FLUIDS WITH GRANULAR SOLIDS, AND VALVE THEREFOR**

Wesley N. Lindsay, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware  
Application October 2, 1952, Serial No. 312,735  
1 Claim. (Cl. 183-4.2)



Apparatus for sequentially contacting granular solids with first and second gaseous fluids including an enclosure of predominantly vertical compass, means for delivering granular solids into said enclosure at the upper end thereof, means for discharging granular solids from said enclosure at the lower end thereof, partitioning means dividing said enclosure into an upper and lower chamber in a manner permitting granular solids to pass from said upper to said lower chamber while inhibiting the interchange of gaseous fluids between said chambers, inlet pipes for introducing said first and second gaseous fluids, respectively, into said first and second chambers at the lower ends thereof, and outlet pipes for exhausting the gaseous fluids from said chambers at the upper ends thereof, said partitioning means comprising an imperforate plate separating said first and second chambers from each other, a tubular conduit establishing communication between said chambers and extending below said plate, said tubular conduit having an initial downwardly directed run, a laterally sloping center run adjoining said initial run at the lower end thereof and being sufficiently steep to cause granular solids entering it through said initial run to slide downwardly to its lowest point, and a terminal run rising substantially vertically from the lowest point of said center run and discharging into said lower chamber, a first duct leading into said initial run at the lower end thereof for introducing a stream of said first gaseous fluid into said initial run at a velocity adapted to maintain granular solids entering said initial run from said upper chamber in a state of fluid suspension, and a second duct leading into said terminal run at the lower end thereof for introducing into said terminal run a stream of said second gaseous fluid at a velocity adapted to fluidize granular solids entering said terminal run and to carry them into said lower chamber.

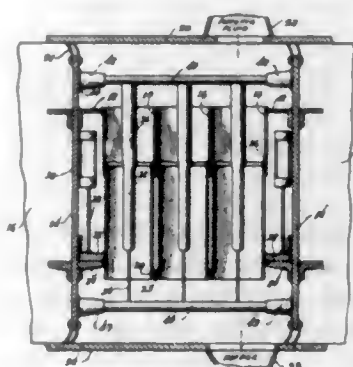
2,712,362

# **COMBINED SCRAPER AND RAPPER FOR ELECTROSTATIC PRECIPITATOR**

Roy Gordon Winklepleck, Wellsville, N. Y., assignor, by mesne assignments, to APRA Precipitator Corporation, New York, N. Y., a corporation of Delaware  
Application May 29, 1952, Serial No. 290,747  
3 Claims. (Cl. 183-7)

1. In an electrostatic precipitator for removing suspended dust particles from a gas stream; a housing located between two end plates; a passageway in each end

plate for permitting the flow of gas therethrough; a bank of collecting tubes suspended from the interior wall of said housing in a parallel relation to its longitudinal axis; collecting electrode means insulated from said housing and passing concentrically through each collecting tube, each of said collecting tubes comprising a plurality of telescopic portions having one portion fixed to the housing and another movable with respect thereto; means



lifting the movable tubes into the fixed tubes so they scrape dust deposits therefrom; bracket means on said movable tube bank positioned to engage a bumper member fixed to the housing walls when the movable tubes are in an extended position, whereby dust particles clinging to the inner surface of said movable tubes are separated therefrom by the impact of the bracket means striking the bumper member when the movable tube bank is dropped from an elevated position.

2,712,363

# **MINIMIZING LOSS OF TRANSPARENCY OF SIGHT FEED LUBRICATOR FLUIDS**

Samuel Clyde Vaughn, Berkeley, and George C. Donovan, Martinez, Calif., assignors to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 29, 1951,  
Serial No. 228,965

5 Claims. (Cl. 184-1)

1. The process of minimizing loss of transparency in the fluid of a sight feed lubricating system when pressure feeding lubricating oils containing dissolved detergent metal soaps, which comprises feeding a lubricating oil carrying a detergent additive of metal soap through an aqueous solution of an alkaline earth metal halide, said solution containing at least 5% by weight of the halide.

2,712,364

# **LUBRICATING APPARATUS**

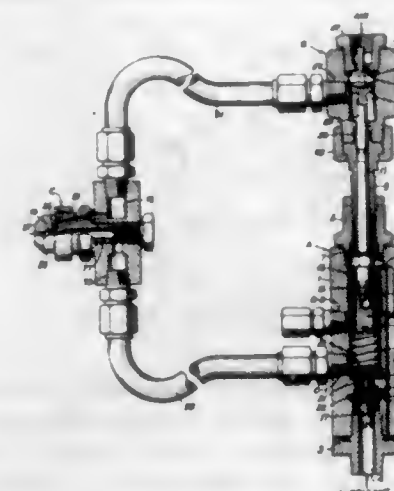
Albert T. Laspe, Normandy, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application March 12, 1954, Serial No. 415,727

2 Claims. (Cl. 184-56)

1. Lubricant spraying apparatus comprising an injector having an inlet adapted for connection to a lubricant delivery line, a measuring chamber, and an outlet from the measuring chamber, a piston slidable in the measuring chamber, said piston having a retracted position wherein it is located adjacent one end of the injector and being movable from said retracted position toward the other end of the injector to deliver a measured charge of lubricant through the outlet upon increase of pressure in the inlet, the injector being adapted to recharge with lubricant upon relief of pressure in the inlet and the piston thereupon returning to retracted position, an atomizer having a lubricant inlet and an air inlet, an air valve mounted on said one end of the injector having an inlet and an outlet, a lubricant

line connecting the injector outlet and the atomizer lubricant inlet, an air line connecting the valve outlet and the atomizer air inlet, and a pin extending from the piston through said one end of the injector into the



valve, said pin controlling the valve to effect opening thereof for delivery of air to the atomizer whenever the piston operates to deliver a measured charge of lubricant to the atomizer, and holding the valve closed when the piston is in retracted position.

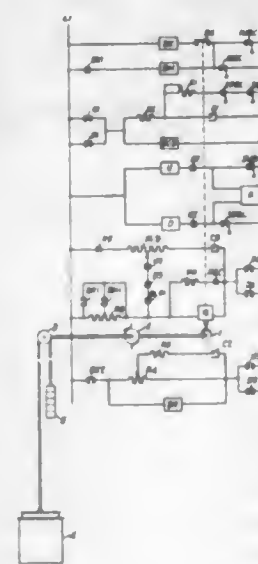
2,712,365

# **ELECTRIC BRAKE CONTROL FOR ELEVATORS**

William Henry Bruns, Lincolndale, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey

Application April 10, 1953, Serial No. 348,027

16 Claims. (Cl. 187-29)



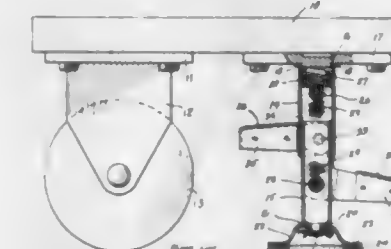
16. In an elevator system comprising, an elevator car moveable in a hoistway, an elevator machine to so move said car, said machine including a brake having a rotatable brake drum, brake shoes adapted to engage said drum, spring means to apply said shoes to said drum, and a brake coil to compress said spring means and remove said shoes from engagement with said drum, apparatus for controlling application of said brake to stop said car at a landing comprising, a source of electrical potential, a first and second electrical contacting means, each having a pair of contacts, a third electrical contacting means having two pairs of contacts, said contacting means being adapted to be actuated when said car is at a first relatively distant, a second intermediate, and a third near position to a landing respectively, a first resistor connected across said first contacting means paired contacts, one terminal of said resistor being connected to one side of said source and the other terminal of said resistor being connected to one terminal of said brake coil, the

other brake coil terminal being connected to the second side of said source through the first pair of contacts of said third contacting means, a unidirectional current conducting element connected across said brake coil to provide a parallel path wherein energy stored in said coil is dissipated when said coil is disconnected from said source, an electromagnetic switch having a coil and two contacts, said coil being connected across said source through the second pair of contacts of said third contacting means, a second resistor and a first capacitor connected in series relation across said coil, a third resistor, one terminal of which is connected to the junction between said second resistor and said capacitor, and the other terminal of which is connected through said second contacting means paired contacts to said second side of said source, and a second capacitor resistively connected across said brake coil through said contacts of said electromagnetic switch.

2,712,366

# **TRUCK LOCK**

John A. Skupas, Evansville, Ind., assignor to Faultless Caster Corporation, Evansville, Ind., a corporation  
Application July 7, 1951, Serial No. 235,632  
4 Claims. (Cl. 188-5)



3. A truck lock for a wheel truck having a truck bed, comprising a telescopic standard including upper and lower relatively slidable tubular sections depending from said bed for locking ground engagement, means for securing the upper end of the upper section to said bed, said upper section having an axially disposed elongated slot adjacent the upper end thereof, an anchor bolt extending through and movable within said slot, a cushion spring interposed between said anchor bolt and truck bed, a second anchor bolt extending through the lower tubular section, a tension spring connecting said bolts tending to telescope said sections, a bell crank lever fulcrumed intermediate its ends to said last-mentioned bolt, linkage connecting said lever with said first-mentioned bolt to provide a toggle assembly, and a pair of opposed foot pedals secured to said lever to extend in opposite directions and from opposite sides of said lever in offset substantially parallel planes, one of said pedals being movable downwardly to swing said toggle assembly into aligned over center position and said opposed pedal being movable downwardly to swing said toggle assembly from over center position to collapsed position under the tension of said tension spring, whereby said standard will be extended and retracted by the downward pressure exerted on said pedals, respectively, into and out of ground engaging locking position under tension of said cushion spring.

2,712,367

# **ROTATABLE ANCHORING MEANS FOR BRAKES**

Steve Schnell, Kirkwood, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

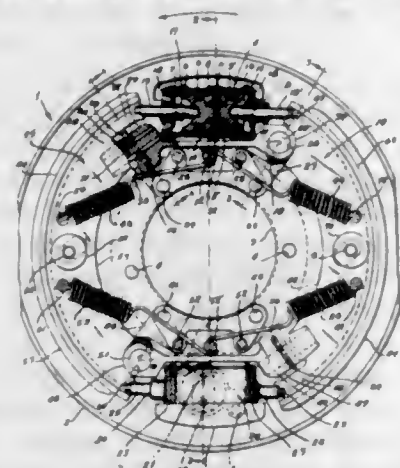
Application July 15, 1950, Serial No. 174,000

17 Claims. (Cl. 188-78)

16. A brake mechanism comprising a backing plate, a plurality of shoes mounted thereon, means for moving each shoe into contact with a brake drum, means



mounted on said backing plate for transmitting braking torque to a structural member on the vehicle mounting



said brake mechanism, rotatable anchor pins associated with said means and on which said shoes are pivoted.

2,712,368

**CLOTHES LINE STANDARD ASSEMBLY**  
Elias L. Mertz, Kansas City, Mo.  
Application October 13, 1952, Serial No. 314,482  
1 Claim. (Cl. 189—31.4)



In a clothesline standard assembly, an elongated, cylindrical, normally vertical post; a split collar on the post intermediate the ends thereof having a pair of spaced, perforated ears; a horizontal bolt traversing the post adjacent the uppermost end thereof, said bolt having a take-up nut on one end thereof and an eye on the opposite end thereof; an elongated, normally inclined, transversely L-shaped guy bar having a pair of legs, said guy bar partially straddling the post at the uppermost ends of the post and the bar, there being a longitudinal slot in the guy bar at the juncture of said legs thereof and extending downwardly from the uppermost end of the guy bar, said eye extending into the slot; a cross pin in said eye and bearing against the bar whereby, upon tightening the nut said bar will be clamped tightly against the post at said uppermost end of the bar between the cross pin and the post; a second bolt parallel to said first bolt; said second bolt extending through said bar intermediate the ends of the latter and having an eye on one end thereof disposed between said ears of the collar; a cross pin passing through the perforations of the ears and through the eye of the second bolt; a sleeve on the second bolt between the bar and the collar; and a nut on the opposite end of the second bolt for clamping the sleeve tightly between the collar and the bar.

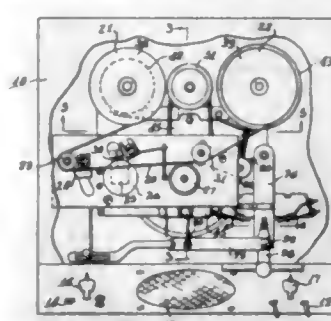
2,712,369

**MAGNETIC RECORDER**  
Edward Schroter, Montreal, Quebec, Canada, assignor, by mesne assignments, to Ralph J. Samuels, Los Angeles, Calif.

Application September 8, 1948, Serial No. 48,291  
16 Claims. (Cl. 192—4)

1. In a magnetic sound recorder having a casing, a pair of laterally spaced reel carrying turntables mounted

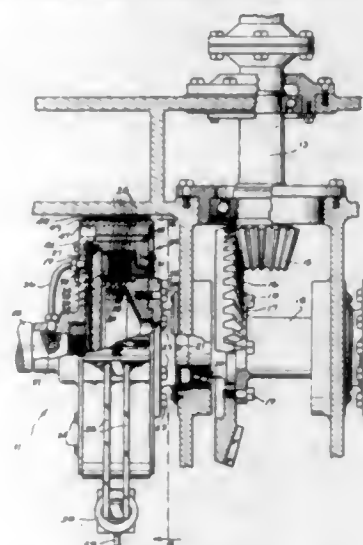
on shafts for rotation about separate axes, a motor fixedly secured to said casing, a power actuated driving disc operatively driven by said motor and mounted between said turntables to rotate about an axis parallel to the axes of rotation of said turntables and movable in opposite di-



rections with the axis of said disc maintained in said parallel relation for selective, direct driving engagement with the turntables, said turntables being rotated in the same direction, and means to hold said disc in yielding driving engagement with one of said turntables.

2,712,370

**CLUTCH AND BRAKE CONTROL MECHANISM**  
Paul Westfall, Portland, Oreg.  
Application April 14, 1951, Serial No. 221,112  
4 Claims. (Cl. 192—17)



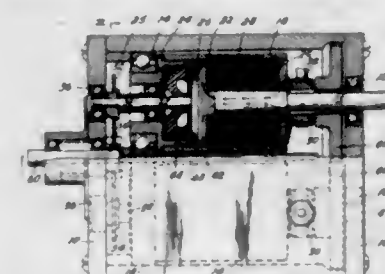
1. A combination clutch and brake means, comprising a circular brake drum concentric with and surrounding a circular friction clutch, said drum and clutch being joined for rotation about a common axis by an expansion means to accommodate differential radial expansion therebetween, said expansion means including a spaced plurality of mated tooth and socket elements arranged in a circular pattern intermediate said concentric brakes and clutch, said socket elements being larger than said tooth elements to accommodate said radial expansion, and a plurality of axial air ducts parallel said common axis and intermediate each said brake drum and clutch to cool the parts thereof during operation.

2,712,371

**MAGNETIC FLUID CLUTCH MECHANISM**  
John E. Duncan, Buffalo, N. Y., assignor to Duncan & Bayley, Inc., Buffalo, N. Y.  
Application April 2, 1949, Serial No. 85,147  
3 Claims. (Cl. 192—21.5)

1. A fluid magnetic clutch mechanism comprising, in combination with a casing, a power input shaft rotatably journaled on said casing and extending therein, a driving disc of magnetic material carried by said power input shaft, said disc having a cylindrical rim portion disposed concentrically of said input shaft and of relatively short axial extent compared thereto, electro-magnetic coil means carried by said input shaft, a cage member of magnetic

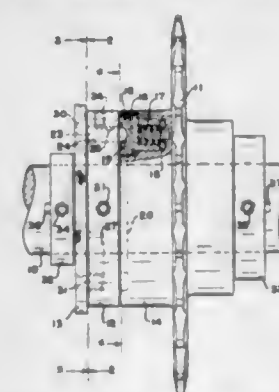
material carried by said input shaft and enclosing said coil means, said cage member including a circular plate carried by said input shaft adjacent the end of said coil means remote from said disc and a cylindrical sleeve carried by said plate and extending concentrically of said input shaft, said sleeve extending beyond said coil means and encircling the rim of said disc and having an end extending beyond said disc, said disc having a diameter slightly less than the bore of said sleeve to provide an annular air gap therebetween, a circular flux barrier member of nonmagnetic material extending from said input shaft to said sleeve between said disc and said coil means,



an adaptor member rotatably journaled in said casing and connected to said end of said sleeve, a power output shaft rotatably journaled on said casing and in said adaptor member to extend coaxially with said input shaft, said output shaft carrying a cup-shaped rotor having a cylindrical portion extending concentrically of said shaft into said air gap to be substantially coextensive with the rim portion of said disc, a mixture of lubricant and comminuted paramagnetic particles disposed within said air gap, and means for controllably energizing said coil means whereby to generate magnetic flux following paths intersecting said air gap.

2,712,372

**NON-CHATTERING, SAFETY AND AUTOMATIC OVERLOAD RELEASE CLUTCHES**  
Lino Scusa, Phoenix, N. Y., assignor to Phoenix Gage Company, West Phoenix, Town of Lysander, N. Y., a partnership  
Application March 12, 1954, Serial No. 415,825  
9 Claims. (Cl. 192—56)

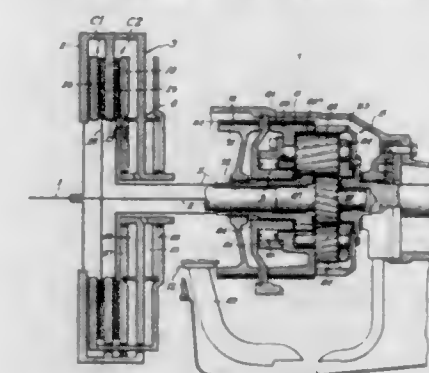


1. An automatic overload release clutch of the resettable type having a pin and socket connection normally drivingly connecting coaxial driving and driven members, one of which carries the pin and the other the socket, comprising in combination, a reset member mounted at one side of said pin-carrying member and movable with respect thereto, said socket-carrying member being located at the other side of said pin-carrying member, a hole in said pin-carrying member extending entirely therethrough and in which the pin is slidably mounted for axial movement, said pin being longer than said hole and being adapted to project alternately to extreme positions at either side of said pin-carrying member, said socket-carrying member being so constructed and arranged relative to said pin-carrying member as to provide a clear circular path for said pin when it occupies its extreme position toward said socket-carrying member, a well in said socket-carrying member located in said circular path,

a button slidably mounted in said well, means for urging said button outwardly of said well toward engagement with said pin-carrying member, said button having a head in which said socket is located, said button head normally projecting into said circular path but being capable of movement against said urging means into said well to a position in which said head is substantially out of said path, whereby said button may be cammed out of engagement with said pin upon exertion of an overload on the driving connection, said reset member having a holding surface adapted to normally hold said pin in its extreme position toward said socket-carrying member and a camming surface adapted to cam said pin into said socket when a driving connection is to be established, said reset member being normally held against relative movement with respect to said pin-carrying member by the pressure exerted by said pin on said holding surface when the pin is in engagement with the socket, and yielding means effective when the driving connection is broken and the pin moves into said circular path, for moving said reset member to a position in which said holding surface is out of registry with said pin, whereby said pin is permitted to move to its extreme position toward said reset member.

2,712,373  
CLUTCH

Richard L. Smirl, La Grange, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois  
Application June 22, 1949, Serial No. 100,670  
5 Claims. (Cl. 192—103)



1. In a friction clutch assembly, three rotatable axially aligned driving members and two driven members between respective driving members, two of said driving members being axially movable to engage said driven members therewith and the other driving member, pressure-fluid operated means for shifting said axially movable members for engaging said driving and driven members, and means for disengaging said members and including a mechanism connected to and responsive to the speed of one of said axially movable driving members and including levers pivotally mounted thereon, struts connecting said levers with the other of said axially movable driving members, and centrifugal weights on said levers operative upon rotation of said driving members to actuate said levers and said struts to disengage said driving and driven members.

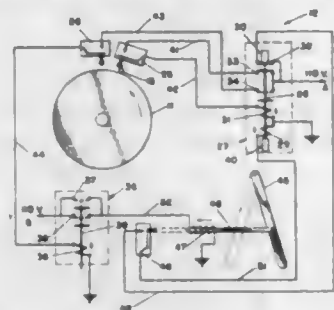
2,712,374

**AUTOMATIC QUANTITY CONTROL**  
William Ralph Smith and Walter G. Klettke, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan  
Application March 16, 1953, Serial No. 342,682  
7 Claims. (Cl. 192—142)

1. A control device for moving a first mechanical element in response to the movement of a second mechanical element a predetermined number of times, comprising in combination: an electro-responsive means for moving said first mechanical element; source means connectible to a source of potential; normally de-energized electric circuitry connecting said source means and said

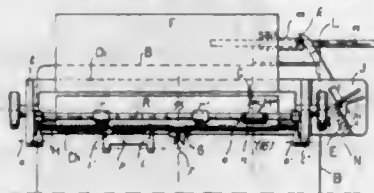


electro-responsive means, said circuitry including two normally open, series connected, switches; means responsive to a selected number of movements of said second mechanical element for closing one of said



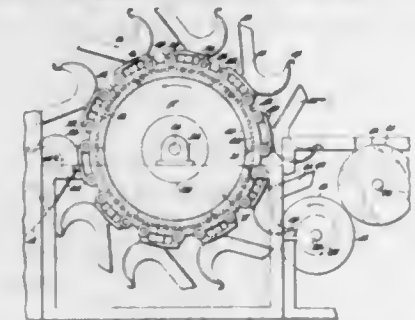
switches; means responsive to a selected number of movements of said second mechanical element for closing the other of said switches; means responsive to movement of said first mechanical element for opening one of said switches.

**2,712,375**  
**COLOR SETTING OF JUSTIFYING TYPEWRITERS**  
Pierre Léglise, Paris, France  
Application August 2, 1952, Serial No. 302,309  
3 Claims. (Cl. 197-84)



1. In a justifying typewriter having a frame, a carriage shiftable thereon and justifying mechanism including a justifying member and setting means for said member, a color setting apparatus comprising a space scale, a series of differently colored markings on said scale and spaced one character from each other, a reading indicator for said scale, said scale and indicator being mounted on said typewriter, one of said scale and indicator being adjustable, the relative positions of said scale and indicator being such that said indicator points to a zero mark on said space scale when the last character of a line equal in length to the width of the desired column has been printed or blank typed, a justifier setting scale associated with said member and a series of colored markings thereon corresponding to those on said scale.

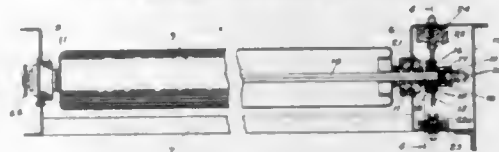
**2,712,376**  
**TRAY LOADER**  
William P. Bruestle, Cincinnati, Ohio, assignor to The J. H. Day Company, Inc., Cincinnati, Ohio, a corporation of Ohio  
Application September 29, 1950, Serial No. 187,620  
3 Claims. (Cl. 198-31)



2. A device for loading proofer trays and the like comprising in combination, a frame, a drum-like carrier having a plurality of spaced tracks, a series of loader cups slidably mounted upon said tracks, each cup being in the form of an open pocket having a slotted bottom and an adjacent wall upstanding from said bottom to support a dough lump, means preventing rotation of said cups with respect to said carrier, whereby through one portion of

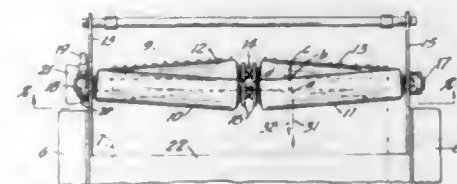
carrier rotation the cups may support dough lumps, but through the remaining portion of such rotation the cups are inverted to discharge the lumps, means operative during rotation of the carrier to shift the cups along the tracks predetermined distances from the middle portion of the carrier while the cups are retentive of dough lumps, and to return the cups to the middle position while the cups are inverted, a relatively rapidly rotating transfer wheel annularly ribbed to interfit with the slots of the cup bottoms at the receiving position of the cups for feeding dough lumps individually to the cups, the direction of rotation of said transfer wheel being the same as that of the carrier, and conveyor means receiving the lumps released by the cups when inverted.

**2,712,377**  
**LIVE ROLLER CONVEYOR**  
Ira Smith Eggleston, St. Paul, Minn., assignor to Standard Conveyor Company, North St. Paul, Minn., a corporation of Minnesota  
Application November 6, 1953, Serial No. 390,670  
3 Claims. (Cl. 198-127)



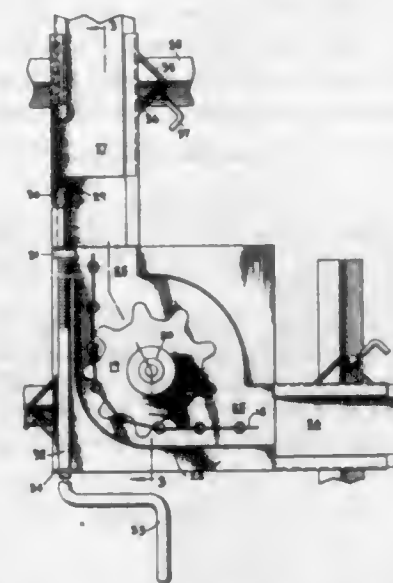
3. In a live roller conveyor having a plurality of load supporting rollers disposed to carry loads on their upper peripheries, axially disposed shafts severally supporting said rollers in fixed driving relation thereto, rotary driving members revolubly mounted on the several shafts, friction clutches carried by the several shafts for operatively connecting the driving members to the several shafts, an end thrust bearing at one side of the driving member for each shaft, a nut threaded on each of said shafts at the side opposite the driving member thereon, spring means disposed to be compressed by operation of said nuts for biasing the several clutches toward driving relation with the respective shafts and driving members, the force exerted by said springs for creating frictional driving force being adjustable by operation of said nuts, and power means operatively connected to the several driving members for turning the same in unison.

**2,712,378**  
**CONVEYOR BELT GUIDING DEVICE**  
Ira S. Eggleston, St. Paul, Minn., assignor to Standard Conveyor Company, North St. Paul, Minn., a corporation of Minnesota  
Application May 27, 1950, Serial No. 164,778  
18 Claims. (Cl. 198-202)



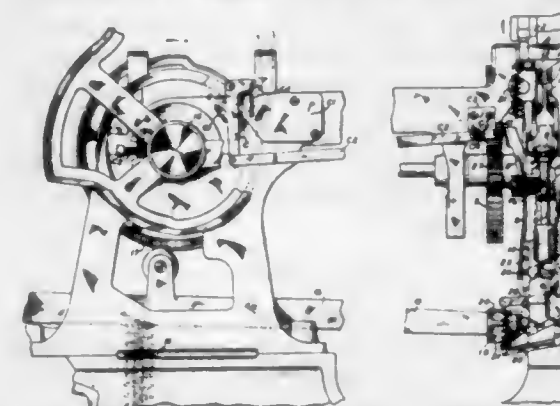
1. For a conveyor belt, improved guiding means comprising, a plurality of pairs of guide rollers disposed to severally engage concave surfaces of arcuate portions of said belt extending along the direction of travel of the belt, the rollers of each pair extending laterally outward from the longitudinal median plane of the belt and having their axes of rotation disposed at an obtuse angle one to the other and the outer end portions of the several rollers being disposed to lead their respective inner end portions in the direction of travel of the belt whereby points on the surface of the belt in contact with said rollers are urged obliquely toward the longitudinal median plane of the belt.

**2,712,379**  
**CONDUIT CORNER MEMBERS**  
Gerald L. Kitson, Rockford, and Blaine K. Stevens, Grand Rapids, Mich.  
Application November 30, 1949, Serial No. 130,151  
2 Claims. (Cl. 198-208)



1. In a conduit system having a plurality of trough sections connected in series, junction means for said trough sections comprising: means forming a junction conduit adapted at each end to receive the ends of said trough sections; first abutment means adjacent at least one end of said junction conduit and axially adjustable with respect thereto; and second abutment means, said second abutment means having a portion interposed between said first abutment means and the end of a trough section, and having a portion disposed adjacent a substantial length of a wall of said trough section to reinforce the same.

**2,712,380**  
**TYPOGRAPHICAL CASTING MACHINE**  
Ransom H. Turner, Great Neck, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York  
Application June 2, 1951, Serial No. 229,594  
10 Claims. (Cl. 199-50)

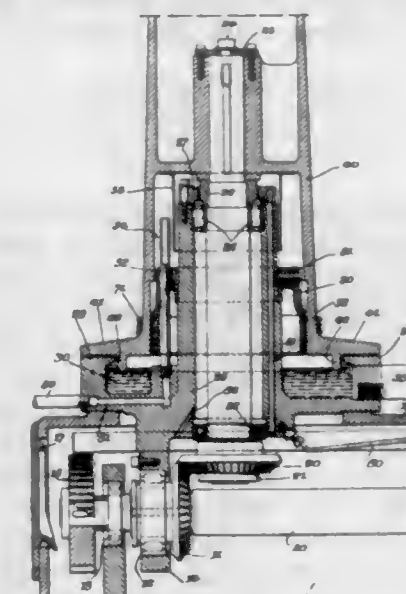


4. In a typographical casting machine equipped with a vertically movable first elevator to carry the composed line to and from casting position, the combination of a pair of line clamping jaws to receive the line in casting position and movable one toward the other in quadding, a vertically movable rod connectable to a jaw for effecting its quadding movement, a power operated member operated twice during each machine cycle, means controlled by said member in its first operation to effect the jaw closing movement of the rod and in the second operation of said member to apply a line squeeze pressure to the rod in the quadding position of the jaw, said means being released after the casting operation and before the start of the upward movement of the first elevator, and automatic supplementary means inactive before casting and active momentarily after casting to maintain such pressure on the rod after the release of the pressure ap-

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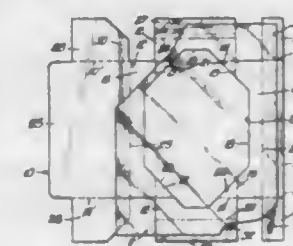
plying means and until after the first elevator has started its upward movement, said supplementary means including a clamping device controlled from the main cam shaft of the machine and actuated before the release of the pressure applying means to engage the jaw operating rod and to maintain such rod holding engagement after the release of said means and until after the first elevator has started its upward movement.

**2,712,381**  
**WATER COOLED WIRE DRAWING BLOCK**  
Carl O. Bruestle, Metuchen, N. J., assignor to Synco Machine Company, Perth Amboy, N. J., a corporation of New Jersey  
Application January 9, 1951, Serial No. 205,179  
4 Claims. (Cl. 205-20)



1. In a wire drawing apparatus a coiler block rotatable about a vertical axis, said block having a core about which wire is coiled, said core having a smooth interior wall, a support for said block having a circumferential recess therein below said block for receiving a pool of cooling liquid from the block, a conduit feeding cooling liquid through said support up into the core of the block, a stationary baffle unit within the core of said block, a narrow annular passage formed by said baffle and said smooth interior wall of said core guiding said cooling liquid over the inner surface of the block as a thin film and discharging the cooling liquid directly into said circumferential recess.

**2,712,382**  
**WINDOW BOX CONSTRUCTION**  
John D. Clarke, Wayne, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois  
Application January 16, 1953, Serial No. 331,709  
6 Claims. (Cl. 206-45.31)



1. A packaging unit fabricated from a flexible paper-board blank and a transparent sheet, said blank including a top panel having pairs of side and end wall panels hingedly connected by creases to opposed side and end margins thereof, bottom forming members integrally connected by hinge creases to bottom margins of said side wall panels, bottom forming flaps integrally connected by hinge creases to bottom margins of said end wall panels, flap-like end extensions integrally connected

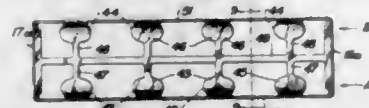


to said bottom forming members by hinge creases at a right angle to the creases connecting said members to said side wall panels, and an outer sheet of flexible transparent material covering the outer surface of said top, side wall and end wall panels, said sheet being adhesively secured to the outer surface of said bottom forming flaps and flap extensions only, said flap extensions being foldable 180° inwardly toward and adhesively secured to said bottom forming members to flex said sheet tautly across said panels and around opposed end margins of said members.

2,712,383

**CONTAINER TRAYS FOR FRUIT UNITS**

Joseph E. Murphy, Hicksville, and Murray Schnall, Brooklyn, N. Y., assignors to See-Qua Package Corp., Brooklyn, N. Y., a corporation of New York  
Application April 25, 1952, Serial No. 284,363  
2 Claims. (Cl. 206—45.33)



1. In a container tray of the type adapted to constitute part of a wrapped housing for a row of fruit units, two opposite upright end walls, and two lateral longitudinally extending rails joining said end walls at side portions thereof below the respective tops thereof, said rails having seat portions thereon for receiving lower portions of fruit units operatively disposed in the tray, said seat portions comprising a plurality of pads arranged in two longitudinal parallel spaced rows, whereby lower portions of said fruit units will be exposed to view through the spaces between said pads, transverse sections of said seat pads being of curved configuration presenting concave surfaces facing the interior of the tray, there being correspondingly positioned pads on opposite sides of the tray joined by relatively narrow transverse ribs, and a medial longitudinal supporting bar extending from said end walls and joining all of said ribs.

2,712,384

**HANDLING METALLIC SODIUM**

Ernest R. Cornell, Stamford Centre, Ontario, Canada, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
Application September 27, 1952, Serial No. 311,939  
17 Claims. (Cl. 206—84)

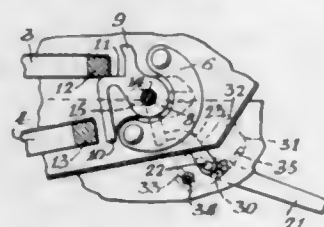


1. A package containing sodium contacting substantially enveloping polythene at a stable non-adhesive interface and protected from oxygen and moisture by said polythene.

2,712,385

**LEVER ADJUSTING DEVICE**

Joseph L. Dion, Ste. Therese de Blainville, Quebec, Canada, assignor to Dion Freres Inc., Ste. Therese de Blainville, Quebec, Canada  
Application January 12, 1953, Serial No. 330,659  
4 Claims. (Cl. 209—319)



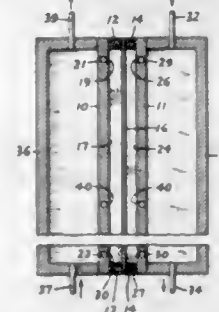
1. In a threshing machine, a fixed frame structure, a vibratory shoe therein, a pair of brackets mounted on

opposite inner side walls of said shoe, two screens placed in said shoe one over the other, a holding member slidably mounted on each bracket lengthwise of said shoe, fingers formed on each member and adapted to engage the ends of upper and lower screens, a plate pivoted on said structure, means for securing said plate in selected positions about its pivotal axis, said structure having a slot concentric with said pivotal axis, a pivot pin mounted in said plate and slidable in said slot, a lever on said pin, and means on said lever for sliding said members.

2,712,386

**METHOD AND APPARATUS FOR SEPARATING MATERIALS BY CONTINUOUS LIQUID THERMAL DIFFUSION**

Arthur Letcher Jones, Lyndhurst, and Ernest C. Milberger, Maple Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio  
Application April 3, 1951, Serial No. 218,944  
14 Claims. (Cl. 210—52.5)

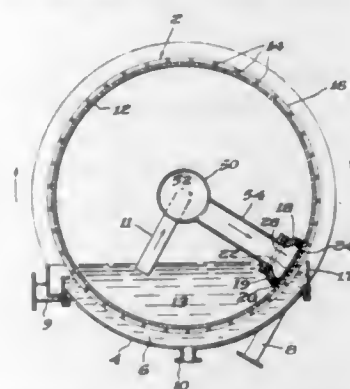


1. Liquid thermal diffusion apparatus comprising two liquid-impervious, stationary walls of heat conductive material, the opposed faces of which are spaced apart between about 0.01 and about 0.15 inch to form a substantially uniform narrow slit, at least one of said walls being provided with heat transfer means for maintaining a temperature gradient between said slit-forming faces, a liquid-permeable membrane in said slit, said membrane having a multiplicity of holes of a size sufficient to allow the molecules of the dissimilar materials to pass therethrough but insufficient to allow gross flow of liquid through the membrane and being intermediate and spaced from the slit-forming faces of the walls to form a first substantially uniform space between one of the wall faces and the membrane and a second space between the other of said wall faces and the membrane, and means for feeding and withdrawing liquid comprising an inlet port communicating with the first space, a first take-off port communicating with said first space at a point remote from the inlet port, and a second take-off port communicating with the second space.

2,712,387

**ROTARY FILTER WITH PULSATING BLOWBACK MEANS**

Frank W. Young, Medfield, Mass.  
Application October 19, 1950, Serial No. 190,994  
2 Claims. (Cl. 210—199)



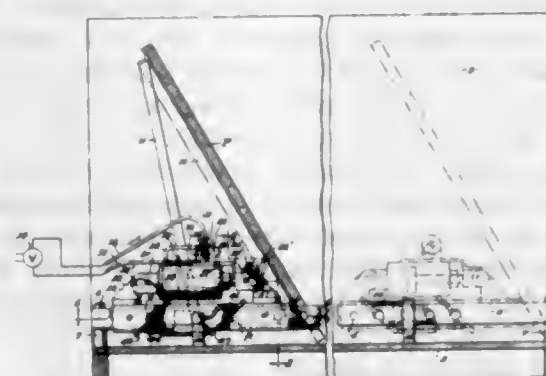
1. In a continuous rotary drum filter for separating solids from a suspension of solids in liquid, the combina-

tion which comprises a tank for the suspension, outlet means communicating with said tank for limiting said suspension to a predetermined liquid level, a filter drum, a filtering medium carried on the surface of said drum for the formation of a cake of said solids, bearings rotatably supporting said drum so that said medium passes through said tank, means communicating with the interior of said drum to apply suction to the inner side of said filter medium to draw liquid and gas therethrough over a major portion of its area, a conduit extending axially into said drum and adapted to be connected to an external source of positive gas pressure, said conduit having a rotationally stationary extension within said drum extending radially outwardly towards its interior surface on the descending side thereof, members attached to said extension forming a stationary chamber communicating with said extension and having a longitudinally extending opening adjacent an area of said interior surface at a level above but close to that of said outlet means, the walls of said chamber which define said opening being in sealing engagement with the drum interior surface and substantially sealing both said chamber and the corresponding portion of said interior surface from said suction, and a valve in said conduit for periodically interrupting the flow of said gas, said valve comprising a body portion having a cylindrical cavity and diametrically opposed gas inlet and outlet openings and a vane mounted for rotation coaxially within said cavity, each of said openings extending substantially less than one-half of the interior circumferential distance around said cavity, whereby said valve, upon rotation of said vane, will produce abrupt pulses in said flow of gas to dislodge said cake, such pulses and the intervals therebetween being of approximately equal duration, the wall of said tank on the descending side of said drum forming a longitudinally extending baffle to divert the dislodged filter cake away from said suspension externally of said tank.

2,712,388

**CONTROL MECHANISM FOR WAGON BOX PUSHER UNLOADER**

Lawrence H. Skromme, near Lancaster, and James Rex West, New Holland, Pa., assignors to New Holland Machine Division of The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application August 1, 1952, Serial No. 302,272  
15 Claims. (Cl. 214—82)

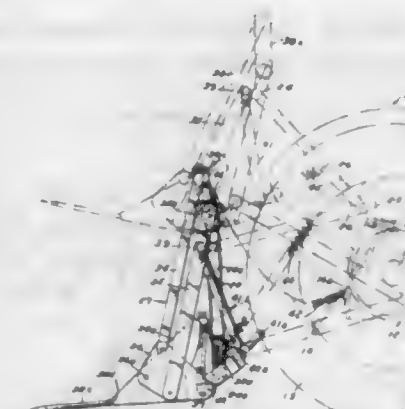


1. A wagon unloader comprising a rack bar, a pair of slides guided for movement along said bar, extensible and contractible means connected between said slides to alternately move same toward and away from each other, pawls carried by the respective slides for operative engagement with said bar in the same direction, each said pawl being supported by its respective slide for rotary reversing movement about an axis generally perpendicular to said bar and having a free end in operative engagement with said bar, said end being formed with a pair of adjoining cam surfaces sloping away from said free end, in planes angularly displaced from each other around said axis by 90°, whereby rotation of the pawl through 90° may

reverse the direction of operation of said pawl, means interconnecting said pawls for simultaneous reversal, a radial control arm carried by one of said pawls, a stop and means supporting same in the path of movement of said control arm, whereby movement of the slide carrying said arm into engagement with said stop will swing said arm through 90° and reverse said interconnected pawls to institute reverse movement of said slides.

2,712,389

**TRACTOR MOUNTED REAR END LOADER**  
Walter W. Sewell, Washington, and Raymond W. Wilson, Ferndale, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application October 22, 1953, Serial No. 387,706  
3 Claims. (Cl. 214—140)



1. For use with a tractor having a power lifted link, a first hydraulic cylinder for elevating said link and a hydraulic system controlling the supply of fluid to said cylinder, said hydraulic system including means for automatically interrupting flow of hydraulic fluid to said first cylinder when said link is elevated to an extreme position; a loader comprising a first frame structure mountable on said link and movable therewith, a boom frame structure, means pivotally attaching said boom frame structure to said first frame structure for pivotal movement relative thereto in a vertical plane, a second hydraulic cylinder pivotally mounted between said first frame structure and said boom frame structure, conduit means for fluid connecting said second hydraulic cylinder in parallel relationship with said first hydraulic cylinder, whereby pressurized hydraulic fluid is supplied concurrently to said cylinders, and a flexible tension element connected between a stationary point on said tractor and to a point on said boom frame structure to thereby limit the upward movement of said first frame structure prior to said link reaching its said extreme elevated position, said flexible tension element being attached to said boom frame structure at a point located relative to the axis of pivotal connection of the boom frame structure so as to move downwardly as said boom frame structure is pivoted upwardly relative to said first frame structure, thereby permitting additional lifting movement of said first frame structure until said link reaches its said extreme position of elevation.

2,712,390

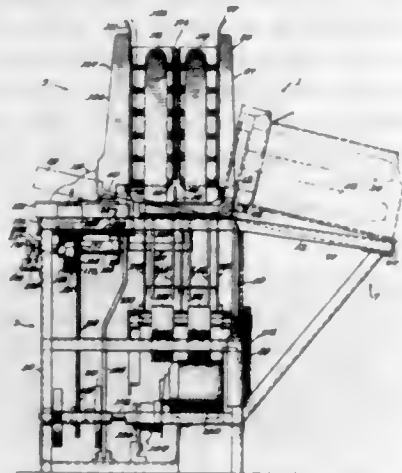
**MACHINE FOR UNLOADING CANS FROM CARTONS**

Arthur P. Scholtz, Chicago, Ill., assignor, by mesne assignments, to National Can Corporation, Chicago, Ill., a corporation of Delaware  
Application February 10, 1951, Serial No. 210,376  
15 Claims. (Cl. 214—307)

1. A machine for receiving a group of empty open cans and delivering the cans one by one, said machine including a can-receiving unit having means to segregate the cans into columns, can-supporting means at the base of each column, said unit also including a can-holding

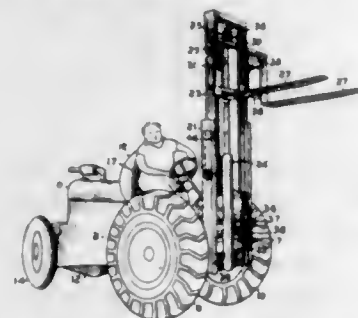


chuck which constitutes a wall of said unit, a second can-holding chuck parallel to the first mentioned chuck, and



means for shifting said chucks towards and from one another to bring the cans into proper positions.

**2,712,391**  
**MOBILE LIFT FORK**  
Ernest C. Jones, Kansas City, Mo.  
Application June 9, 1952, Serial No. 292,466  
1 Claim. (Cl. 214-674)

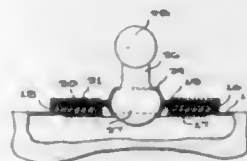


An industrial tractor and lift fork having a conventional industrial tractor with large tractor wheels and tires near the rear end thereof, a pair of smaller conventional steering wheels near the front end thereof, an engine mounted on the front end thereof, an elongated gasoline tank, steering mechanism for control of the steering wheels and a seat, comprising, the elongated gasoline tank being mounted in a vertical position on the tractor between the engine and seat, the seat being mounted on the tractor facing the rear thereof, a steering wheel with steering means being mounted between the seat and rear end of the tractor, a counterweight, said counterweight attached to the front end of the tractor, said counterweight projected substantially beyond the engine and tractor and steering wheels, a hydraulically operated lifting device, a hydraulically operated tilting device, said hydraulically operated lifting and tilting devices being mounted on the rear end of the tractor, said hydraulically operated lifting and tilting devices being supported by the large tractor wheels and tires, and said hydraulically operated lifting and tilting devices being controlled from the tractor whereby the front end of the conventional tractor becomes the rear thereof and the hydraulically operated lifting and tilting devices become the front end thereof.

**2,712,392**  
**SNAP SEAL CLOSURE**  
William F. Jamieson, Philadelphia, Pa.  
Application August 8, 1952, Serial No. 303,259  
1 Claim. (Cl. 215-47)

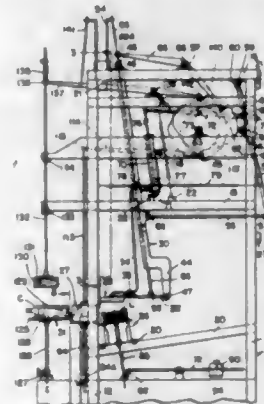
A rigid wall element adapted to form an outer surface of a container, an aperture in said wall element, an annular washer of resilient deformable material secured to said wall element concentrically with respect to said aperture and extending inwardly over said aper-

ture, a plurality of upstanding resiliently yieldable locking fingers secured to said wall element around said aperture and projecting radially inward over said aperture, and a closure member having a bulbous projection thereon movable downward between said locking fingers into the space between said fingers and washer, said projec-



tion being of a size to exert a downward and outward stretching force on the inner portion of said washer and an upward and outward stretching force on the inner portion of said locking fingers when the closure member is positioned over the wall element with the projection engaging through said aperture.

**2,712,393**  
**LABEL APPLYING MACHINE**  
John M. Brown, Lynwood, Calif.  
Substituted for abandoned application Serial No. 26,795, May 13, 1948. This application October 10, 1952, Serial No. 314,148  
15 Claims. (Cl. 216-55)



1. In a labeling machine, a holder for a stack of labels adapted to present a single label to a label picker, an adhesive applicator adapted to apply adhesive to the back side of a label supported on a picker mounted on a label transfer means, a container support member arranged to hold a container upon which the label is to be applied, a label transfer means including a vertically disposed transfer arm, means supporting said arm in depending relation for oscillation in a vertical plane over said holder, said adhesive applicator and said container support, a picker arm hinged to the free end of said transfer arm, a label picker attached to said picker arm, means for actuating said transfer arm and said picker arm to cause said picker successively to pick up a single label from said holder, to present the under-surface of said label to said adhesive applicator to receive adhesive thereon, and to deposit said label on a container on said support member, and presser means adapted to press said label against the surface of a container on said support member.

**2,712,394**  
**BOX FOR HOLDING CONTENTS UNDER INTERNAL PRESSURE**  
Bruno Koschatzky and Giuseppe Parini, Milan, Italy, assignors to Pirelli Società per Azioni, Milan, Italy  
Application June 3, 1949, Serial No. 96,856  
Claims priority, application Italy June 19, 1948  
10 Claims. (Cl. 220-8)

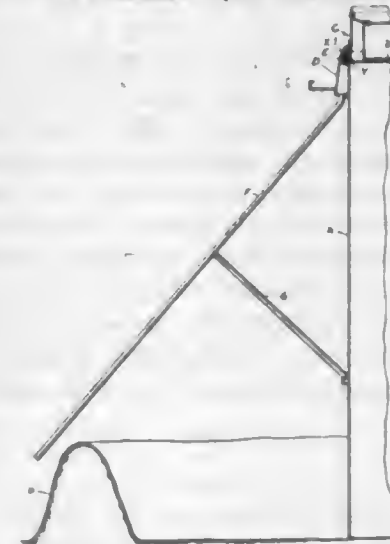
1. A receptacle for the storage of solid material articles therein, comprising a pair of spaced, rigid, tubular, telescoping members, each completely open at one end and closed at the opposite end, and a deformable, annular gasket interposed between said members and forming there-

with an air-tight seal; said gasket being permanently attached at its outer edge to one of said rigid members, and slidingly contacting said other rigid member at the periphery of its inner edge, to form therewith an air-tight running seal; said members telescoping non-contactingly to



form, without deformation and with said gasket, a hermetically sealed storage chamber, when assembled in closed position; said members and gasket also by such assembly compressing the air entrapped in said chamber and thus producing a selected super-atmospheric air pressure while so assembled.

**2,712,395**  
**OVERFLOW DEVICE FOR LIQUID STORAGE TANKS**  
John H. Wiggins, Chicago, Ill.  
Application August 29, 1950, Serial No. 182,001  
4 Claims. (Cl. 220-26)

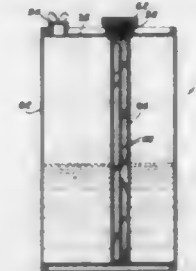


1. The combination of a tank designed to hold an approximately predetermined amount of liquid, a vertically movable roof that floats on the liquid in the tank and rises and falls as the level of the liquid in the tank varies, a sealing shoe carried by the roof and arranged in sliding engagement with the tank side wall, a discharge opening in the tank side wall arranged in the path of travel of said sealing shoe, for permitting excess liquid to escape from the tank when the upwardly moving roof approaches the designed maximum liquid level of the tank, a closed housing on the exterior of the tank side wall arranged to receive excess liquid that escapes from the tank through the said discharge opening in the tank side wall, an eduction pipe leading from the lower end portion of said housing, and a weir in said housing disposed so that excess liquid entering said housing from the tank must rise in said housing and spill over the top edge of said weir before escaping from the housing through said eduction pipe.

**2,712,396**  
**PROPORTIONAL MIXING CONTAINER**  
Benona C. Mowat, Elkhart, Ind.  
Application November 26, 1951, Serial No. 258,179  
1 Claim. (Cl. 220-85)

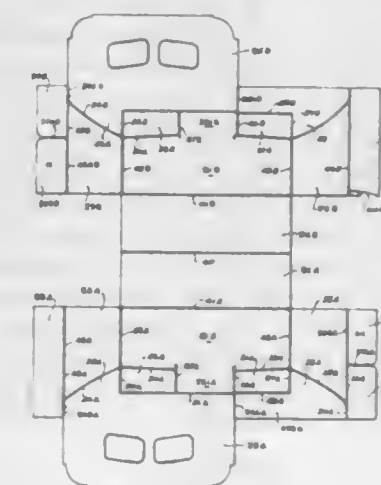
A mixing container comprising a receptacle having a predetermined capacity and including a top provided with

an opening, a removable closure plug for said opening, a gauging tube secured at its upper end to said plug and disposed in said receptacle, the capacity of said tube being in predetermined proportion to the capacity of the receptacle, the plug closing the upper end of said tube, the



lower end of the tube communicating with the interior of the receptacle, said tube having at least one liquid sensitive strip thereon extending the full length thereof, said tube being open at the bottom thereof for gauging liquid level thereon.

**2,712,397**  
**BOTTLE CARRIERS**  
Michael H. Kowal, Clifton, N. J., assignor to Empire Box Corporation, Garfield, N. J., a corporation of Delaware  
Application March 18, 1950, Serial No. 150,415  
1 Claim. (Cl. 220-113)



A collapsible open-topped compartmented bottle carrier formed from cardboard or like material and comprising, when erected, bottom and side walls, center and cross partitions, and end walls each comprised of two panels interconnected at their inner ends along vertically disposed fold lines, the end and side walls and the partitions defining six compartments disposed in two rows of three each, the center partitions being formed at least in part by inwardly directed integral extensions of the two panels at the opposite ends of the carrier, said extension each being substantially the full height of said panels and being connected in face-to-face relation, and strengthening flaps at each end of said carrier joined along vertical fold lines to one of the end panels at each end of the carrier and formed by transversely severing a corresponding one of said end panel extensions at each end of the carrier, said strengthening flaps being folded outwardly at substantially right angles with respect to the remaining portions of the end panel extensions that are joined face-to-face as aforesaid, and said strengthening flaps each further being secured in exterior face-to-face relation to the end panel which is adjacent the end panel to which said flap is joined along a vertical fold line as aforesaid.

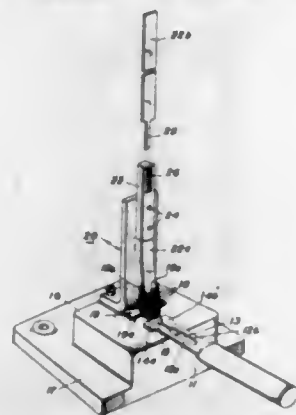


2,712,398

## DISPENSERS FOR RETAINING RINGS

Hans Erdmann, Maplewood, N. J., assignor to Walde Kohinoor, Inc., Long Island City, N. Y., a corporation of New York

Application July 30, 1953, Serial No. 371,359  
11 Claims. (Cl. 221-220)



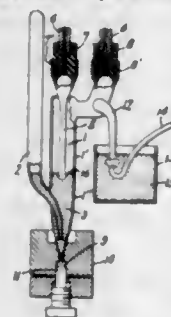
1. A retaining ring dispenser enabling the dispensing of single retaining rings from a stack thereof through the use of a ring gripping tool having a substantially semi-circular ring-recess and an arcuate backing flange for a ring seated in its recess, comprising a base having a horizontal working surface, a substantially vertically disposed stack rod for holding a plurality of retaining rings in stack formation on said working surface, means supporting the stack rod from the base with its lower end raised from said working surface, means providing a ring abutment of thickness corresponding to that of one ring secured to said working surface immediately to the rear of the lowermost ring of the stack, and spring means operatively related to said stack rod and being effective on at least the next lowermost ring but not on said lowermost ring of said stack, the construction and arrangement being such that, when a tool placed on the working surface with its recess in alignment with the lowermost ring and with its backing flange disposed upwardly is pushed rearwardly so as to force the lowermost ring against the abutment and thereupon to grip said ring, said spring means enables at least the next lowermost ring or rings of the stack to shift rearwardly under the force applied to it by the backing flange, and upon withdrawal of said tool and ring gripped thereby returns the shifted ring or rings to normal position.

2,712,399

## APPARATUS FOR OBTAINING DESIRED QUANTITIES OF A GAS

Jack Blears, Davenham, England, assignor to Metropolitan-Vickers Electrical Company Limited, a British company

Application February 2, 1953, Serial No. 334,566  
4 Claims. (Cl. 222-3)



1. Apparatus for obtaining desired quantities of gas comprising an upright essentially U-shaped duct having at least one limb sealed from the atmosphere, a gas escape duct projecting downwardly within said one limb from the exterior thereof and terminating above the band of said essentially U-shaped duct, a quantity of sealing liquid within said essentially U-shaped duct and having a meniscus in said one limb normally above the inner end of said gas escape duct, means for adjusting the normal level,

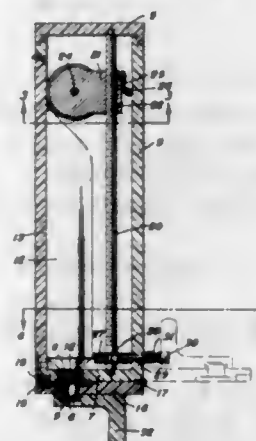
of said meniscus to a selected position above the inner end of said gas escape duct, means for admitting gas to said one limb above said meniscus of said sealing liquid until said meniscus lowers from its selected normal level to the inner end of said escape duct whereby a constant volume of gas at a desired pressure is provided within said one limb, and means for removing said gas from said one limb for utilization.

2,712,400

## DISPENSING MEANS FOR PASTE TUBES

Wayne C. Stauffer, Eugene, Oreg.

Application April 28, 1952, Serial No. 284,681  
6 Claims. (Cl. 222-96)



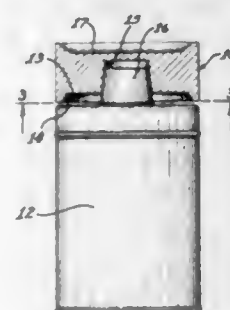
1. A paste tube dispenser comprising a casing including a side wall and one end having a dispensing opening in which the neck of a tube is engaged, mechanism in the casing for extruding the contents of the tube through the opening, a cover for the opening carried by said one end of said casing for swinging movement about a horizontal axis, actuating means for said mechanism on said side wall of said casing and means on said cover for swinging the same to open position, said last mentioned means operating said actuating means upon a predetermined movement of said cover.

2,712,401

## TOOTH-POWDER CAN CAP

Ralph B. Potter, Boulder, Colo.

Application July 29, 1952, Serial No. 301,545  
3 Claims. (Cl. 222-115)



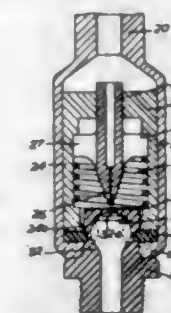
1. A receptacle closure cap for a receptacle having a discharge stem, a body member, a vertically disposed surface on the exterior of said body member conforming to the outside surface of said receptacle, a recess having a horizontal recessed surface terminating in a downwardly depending lip surrounding said recess and located around said exterior surface of said body member and including a closed stem engaging bore opening in said recessed surface adapted to engage over the stem of said receptacle to be closed, and a closed bottom tooth-powder receiving recess in the top portion of said closure cap conforming substantially to the configuration of the bristles of a tooth-brush adapted to receive powder from said receptacle.

2,712,402

## NOZZLES FOR GREASE GUNS AND THE LIKE

Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, Great Britain, a British company

Application August 11, 1949, Serial No. 109,776  
Claims priority, application Great Britain  
September 16, 1948  
5 Claims. (Cl. 222-121)



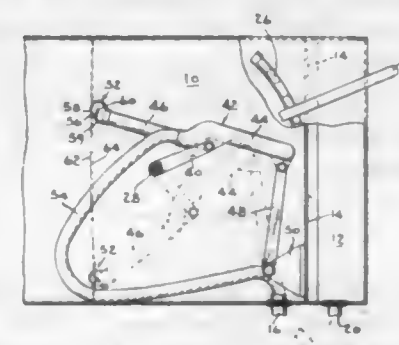
1. A lubricant dispensing nozzle for use with a resilient lubricant impervious closure member of the type having a hollow nozzle engaging head including a cylindrical part having an external cylindrical wall and an outer end surface, means in the outer end of the head forming a normally closed lubricant passage extending between the outer end surface and the interior of the head, and an annular fulcrum means engaging the interior of the head radially outwardly of the point at which the passage terminates; said nozzle comprising in combination an outer sleeve having an inwardly projecting flange at its outer end, a hollow inner member longitudinally slidable within said outer sleeve, said hollow inner member having an open end adapted to embrace the cylindrical part of the nozzle engaging head, a hollow lubricant injector longitudinally slidable in said hollow inner member and movable by lubricant under pressure in the nozzle toward lubricant dispensing position, and means for applying pressure laterally to the outer surface of the cylindrical wall of the nozzle engaging head, said last named means comprising means normally biased out of wall engaging position and adapted to be engaged by said flange and moved between said flange and the end of said hollow inner member circumferentially to contact and constrict the cylindrical wall of the nozzle engaging head on that side of the fulcrum means opposite the outer end of the head upon movement of said hollow inner member toward said flange, thereby to open the outer end of the passage to allow entry of said injector thereto as it is moved toward lubricant dispensing position under lubricant pressure in the nozzle.

2,712,403

## WATER MEASURING DEVICE

Harry C. Eckles, Milwaukee, Wis., assignor to The T. L. Smith Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 15, 1950, Serial No. 162,088  
3 Claims. (Cl. 222-434)



1. A siphon type water measuring device comprising, a tank having an outlet, an arm movably mounted in said tank and having one end movable between the top and the bottom of said tank, a siphon head on said one end,

linkage means including said arm for moving said siphon head in a substantially vertical path, conduit means connecting said head to said outlet, said head including a depending intake of sufficient length to provide a short siphon leg when said head is at the top of said tank, the mouth of said intake being transverse said arm and lying in a plane which approaches parallelism with the bottom of said tank as the head approaches said bottom and means operable externally of the tank for moving the arm.

2,712,404

## PACK FRAME

Oscar Miller, Oroville, Wash.

Application April 16, 1953, Serial No. 349,251  
2 Claims. (Cl. 224-25)



2. In a pack frame, a pair of uprights made of hollow metal tubing, the upper end of each of said uprights being shaped arcuately to provide a shoulder engaging portion, a shoulder pad positioned below each of said shoulder engaging portions, clamps for maintaining said shoulder pads connected to said shoulder engaging portions, a bracket connected to each of said uprights and provided with a pair of opposed openings, a cross brace extending between said pair of brackets, securing elements extending through the openings in said brackets and connected to said cross brace, brackets connected to the lower ends of said uprights, a second cross brace extending between said last named brackets and secured thereto, a cover member of flexible material extending around said uprights and provided with a plurality of grommets, cords extending through said grommets and trained over said cross braces, a hip pad arranged adjacent the lower ends of said uprights, eyes secured to said uprights, cables connected to said eyes and engaging a pack being carried, a hollow tubular arm extending rearwardly from the lower end of each of said uprights, clamps connected to said arms, a platform secured to said last named clamps, a head strap of flexible material having clips connected thereto, chains connected to said clips, rings connecting said chains to said arms, a dog latch connected to each of said uprights, a chain connected to each of said dog latches and extending through said arms and up into said uprights, and bolts for securing said last named chains in place.

2,712,405

## CASE LOADING AND UNLOADING DEVICE

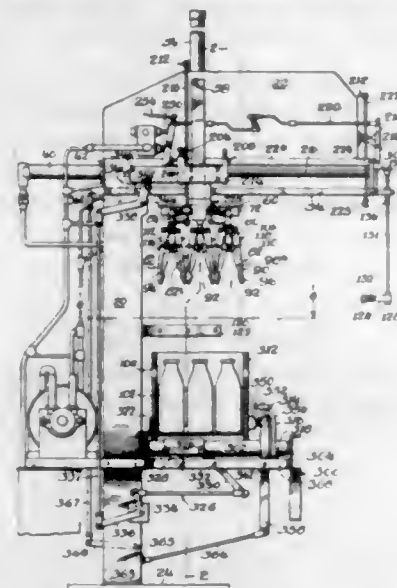
Charles J. Rockcastle, Chicago, Ill., assignor to Active Products Inc., Chicago, Ill., a corporation of Illinois

Application December 18, 1950, Serial No. 201,344  
37 Claims. (Cl. 226-14)

29. A container arranging device comprising at least two extensible arms movable in juxtaposition with each other, at least one container gripper depending from each arm, each of said container grippers capable of engaging a single row of a group of containers within a case, and all of the said container grippers acting in concert whereby the case can be loaded or unloaded in one stroke, and the pattern of the said containers in the original grouping is changed while moving to a preselected pattern in



substantially the same plane, a means to mount said extensible arms, means to move at least one of said arms



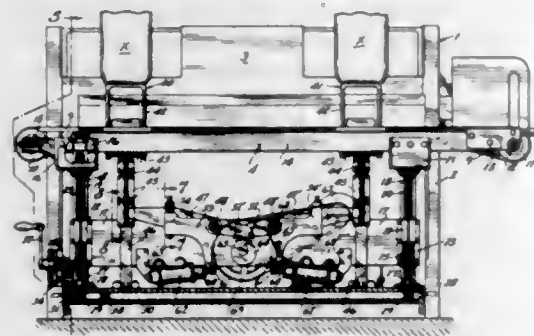
laterally and longitudinally, a means to open said grippers, and a means to close said grippers.

2,712,406

# BAG SHAKING MECHANISM FOR BAG FILLING AND CONVEYING MACHINES

Harold V. Kindseth, Minneapolis, Minn., assignor to Bemis Bro. Bag Co., Minneapolis, Minn., a corporation of Missouri

Application July 12, 1952, Serial No. 298,561  
11 Claims. (Cl. 226-55)



1. In a machine of the class described, an endless conveyor comprising a plurality of laterally spaced conveyor belts for transporting open bags, means for filling said bags with bulk material, a bag-shaking platform underlying said bag-filling means and disposed between adjacent conveyor belts, said platform being engageable with the bottom of a bag, means mounting said platform for vertical movements between an inoperative position below the level of the bag-engaging portions of said conveyor belts and operative bag-supporting position above said level at which position the bags are filled by the filling means, power-operated mechanism for raising and lowering said platform and including a lever, and power-operated means for imparting vibratory movements to said platform when the platform is moved to its operative bag-supporting position, said last-mentioned means including a vibration producing member positioned in spaced relation to said lever when the platform is moved to its lower inoperative position, said lever being moved into operative engagement with said member when the platform is moved to its upper bag supporting position the lever transferring said vibratory movements to the platform.

2,712,407

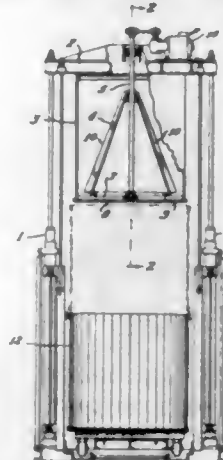
# HOGSHEAD LOADER AND COMPACTER

Harry Guthrie Bell, Paris, and Jacob Douglas Gay, Jr., Lexington, Ky., assignors to Gay-Bell Corporation, Paris, Ky., a corporation of Kentucky

Application June 20, 1951, Serial No. 232,628  
12 Claims. (Cl. 226-71)

1. A hogshead loader and compacter comprising an imperforate compacting surface capable of relative vertical

reciprocation into and out of a hogshead for compacting the contents thereof, means adapted to feed material to be loaded in the hogshead above said compacting surface and means above said compacting surface directing said material over the peripheral edge of said surface and into the hogshead adjacent its wall, said compacting surface being circular and of a slightly less diameter than the



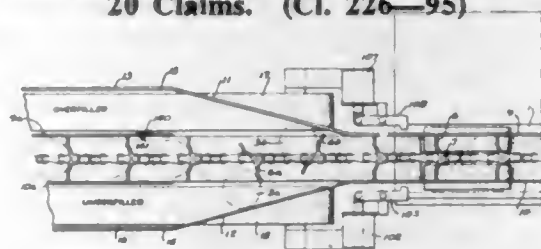
diameter of the hogshead being acted upon, said material directing means comprising a cone continuous throughout its periphery of 360° and with its base substantially in registry with said compacting surface, and means to rotate said cone whereby a shower of material is deposited within said hogshead about said wall substantially simultaneously throughout the full 360° thereof.

2,712,408

# APPARATUS FOR GAUGING CONTENTS OF CONTAINERS

Milton N. Weber, Detroit, Mich., assignor of one-half to Herbert W. Link, Detroit, Mich.

Application January 8, 1953, Serial No. 330,193  
20 Claims. (Cl. 226-95)



1. An apparatus for the filling of containers with material comprising in combination, conveyor means for moving the containers in line, means at a location of the conveyor means for filling the containers, a weighing unit embodied in the conveyor downstream from the filling means including solenoid means in an electrical circuit variably influenced by light and heavy containers, a receiver at one side of the conveyor means for light containers, a receiver at the opposite side of the conveyor means for heavy containers, a reject element downstream from the weighing unit operable by variation in the electrical circuit incident to a light container for causing the light container to be shifted to the receiver therefor, and another reject element downstream from the weighing unit operable by variation in the circuit incident to a heavy container for causing the container to be shifted to the receiver therefor.

2,712,409

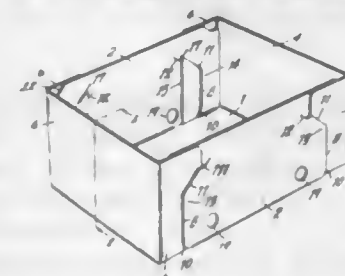
# COLLAPSIBLE BOX OR BOX COVER

Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.

Application December 10, 1949, Serial No. 132,351  
4 Claims. (Cl. 229-35)

1. A collapsible container formed of an integral blank comprising a bottom, side and end walls hingedly connected to the bottom, and corner flaps hingedly con-

nected to the ends of the end walls and foldable on the outer sides of the side walls in erected position, the side walls having slits therein comprising vertical portions of substantial length spaced from their end edges and extending from points closely adjacent their hinged connections to the bottom, the slits having inwardly curved lower end portions extending to the hinge connections of the side walls to the bottom, the side walls being hinged to the bottom outwardly of the side wall slits, said slits adjacent their upper ends having lower and upper diagonally disposed portions separated by intermediate portions of substantially less inclination than that of said lower and upper diagonally disposed portions, the portions of the side walls on opposite sides of said slits being laterally deflectable relative to each other to receive the side edges of the corner flaps between them, the corner flaps having outwardly inclined slits extending from their outer edges providing upwardly projecting tongues engageable with the upper edges of the lower diagonally disposed portions of the



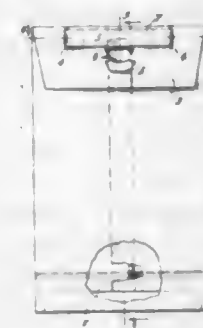
said side wall slits with the tips of the tongues engaging the inner sides of the side walls above said intermediate portions of the slits when the container is in erected position, the tips of the tongues being inserted from the outer sides of the side walls through the upper diagonally disposed portions of the side wall slits to the inner sides of the side walls when the container is being erected, the inner end portions of the bottom edges of the corner flaps being disposed within the side walls in supported engagement with the bottom inwardly of the lower ends of the side wall slits when the tips of the tongues are being inserted through the upper diagonally disposed portions of the side wall slits to the inner sides of the side walls and also when the tongues are in said engaged positions with upper edges of the lower diagonally disposed portions of the side wall slits when the container is in erected position the portions of the side walls on the outer sides of the slits being within and supported by the corner flaps, and the end walls being in supported abutting engagement with the end edges of the side walls.

2,712,410

# PAPER BAG WITH FLAP PROVIDING TICKET RETAINER

George W. Poppe, Brooklyn, N. Y., assignor to Equitable Paper Bag Co. Inc., Long Island City, N. Y., a corporation of New York

Application April 29, 1952, Serial No. 284,964  
1 Claim. (Cl. 229-70)

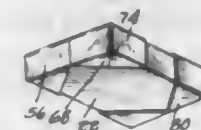


A paper bag including opposed walls defining a mouth, a flap extending from one of said walls and folded downwardly and superimposed on the outside of the other of

said walls to close said mouth, said flap having a plurality of transversely interspaced longitudinally extending lines of severance formed therethrough, a ticket spanning transversely between said lines on the outside of said flap and having end portions extended through said lines and reversely folded at said lines so as to extend towards each other between said flap and said wall on which it is superimposed, and means for locking said flap flatly against said wall on which it is superimposed so as to restrain said ticket's end portions from unfolding and thus lock said ticket to said flap, said lines of severance being spaced apart transversely for an extended distance so that an extended portion of said ticket spans therebetween where it is exposed for visual examination, said locking means being spaced from said lines and being offset from said ticket.

2,712,411  
WRAPPER

Brooke W. Boering, Oak Lawn, Ill.  
Application October 27, 1952, Serial No. 317,061  
3 Claims. (Cl. 229-87)



1. A folding container comprising a generally rectangular body panel, a pair of end panels articulated along opposite edges of said body panel and disposed in a plane perpendicular to the plane of said body panel, a pair of side panels articulated to the other edges of said body panel and disposed in a plane perpendicular to the plane of said body panel, a first cross panel articulated to one of said side panels and disposed in a plane overlying and spaced from said body panel, a first pair of panel sections articulated to opposite edges of said cross panel and lying along said end panels at one edge thereof, a first pair of corner sections articulated to said first pair of panel sections and overlying adjacent corners of said body panel, a second pair of panel sections articulated to said corner sections and lying along the ends of said one side panel, a pair of panel members articulated to said second pair of panel sections and overlying said first cross panel, a third pair of panel sections articulated to the other end of said panel members and overlying the ends of the other side panel, a second pair of corner sections articulated to said third pair of panel sections and overlying the other corners of said body panel, a fourth set of panel sections articulated to said second pair of corner sections and overlying the other ends of said end panels, and a second cross panel articulated to and interconnecting said fourth pair of panel sections and overlying said body panel but spaced therefrom and contacting said pair of panel members.

2,712,412

# FORAGE BLOWER

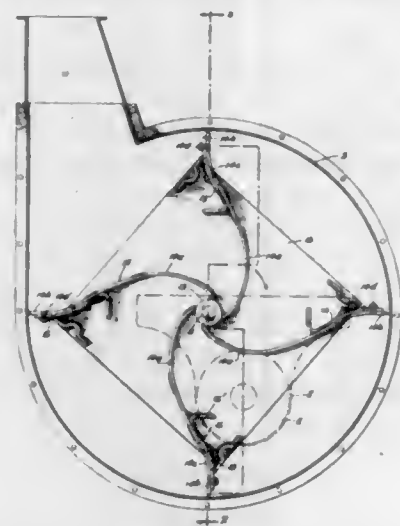
James Rex West, New Holland, Pa., assignor to The New Holland Machine Division of The Sperry Corporation, New Holland, Pa., a corporation of Delaware

Application August 26, 1952, Serial No. 306,403  
3 Claims. (Cl. 230-134)

1. A blower unit comprising a central hub adapted for rotation in a given direction, a plurality of blades secured on said hub with their inner ends abutting thereagainst, said blades extending outwardly from said hub and curved in the form of similar logarithmic spirals away from the direction of rotation thereof, each blade terminating in a substantially radial impeller tip, whereby material received in said unit may be moved radially outwardly by



said blades and gradually accelerated to the same rotational speed as the blower unit, to be then engaged by the



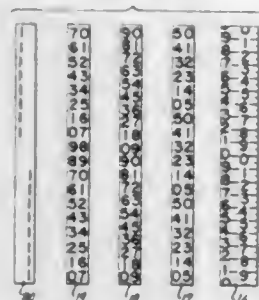
radial tips and rotated at the same speed as the unit prior to being discharged tangentially from the unit.

2,712,413

### MULTI-STAGE REVOLUTION COUNTER

Arthur F. Hayek, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York

Application August 25, 1953, Serial No. 376,433  
3 Claims. (Cl. 235-1)



3. In a multi-stage revolution counter which comprises a plurality of rotary members each bearing two rows of indicia and having means for selectively exposing one or the other of the rows of indicia on each member, an arrangement for minimizing the ambiguities of indication during periods of indexing comprising, an input shaft for continuously rotating the fastest moving rotary member, two rows of parallel index lines on said member perpendicular to the direction of peripheral motion, the index lines of each row being spaced apart and the lines of one row being axially aligned with the lines of the other row, the distance between adjacent lines of one row corresponding to one unit to be counted, means for indexing the next fastest moving member by said fastest moving member, the indexing motion being centered about one of said index lines, and a digit beside each index line, the center line of each digit on one row being offset in one direction from its corresponding index line, and the center line of each digit on the other row being offset in the opposite direction from its corresponding index line.

2,712,414

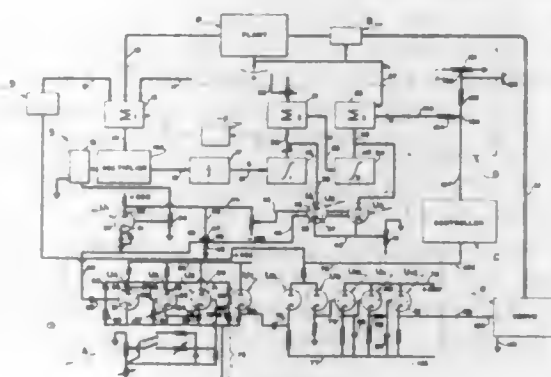
### ELECTRICAL ANALOGUE DEVICE

Herbert Ziebolz, Chicago, Mark E. Campbell, Park Forest, and John A. Baring, Evanston, Ill., assignors to Askania Regulator Company, a corporation of Illinois

Application November 18, 1950, Serial No. 196,444  
16 Claims. (Cl. 235-61)

1. An apparatus for use in the control of a plant equipped with adjustable controls comprising, in combination, accelerated time scale plant operation simulating means producing a transient of at least one at-

titude of the plant over a program period extending into the future including a summarizer and other computing devices, triggering means operatively associated with said simulating means to obtain therefrom the value of the attitude at a particular time in the program period, a first circuit operatively associated with said last named means and connected back to the summarizer of said ac-

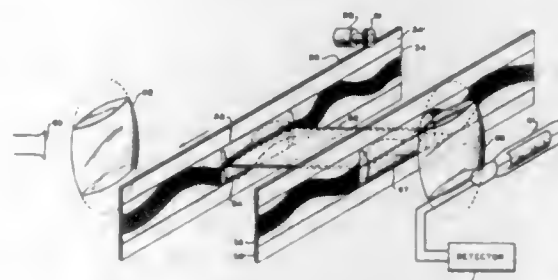


celerated time scale plant operation simulating means, a second circuit operatively associated with said last named means and including a device for translating the transient value received into a corresponding value on a slower time scale, and means connected to the plant and to said translating device for transmitting the slow time scale values to the plant.

2,712,415

### OPTICAL COMPUTER

Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Application April 28, 1954, Serial No. 426,103  
15 Claims. (Cl. 235-61)



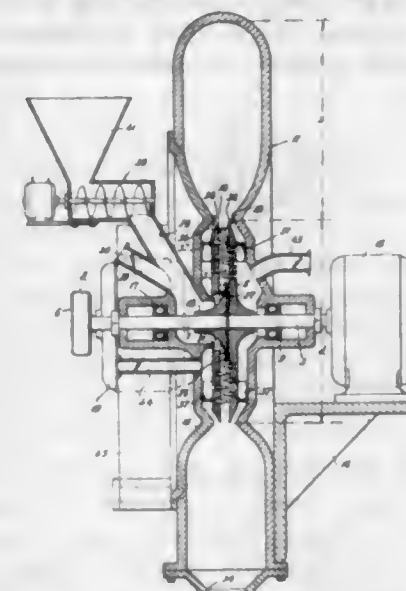
1. Apparatus for multiplying algebraically two functions which comprises, in combination; a first plate of radiation-transmitting material having an upper zone and a lower zone, the radiation transmission characteristics of the upper zone varying, with respect to a reference transmission, in accordance with a first function, the radiation transmission characteristics of the lower zone varying, with respect to a reference transmission, in accordance with the negative of said first function; a second plate of radiation-transmitting material having an upper zone and a lower zone, the radiation transmission characteristics of the upper zone varying, with respect to a reference transmission in accordance with a second function, the radiation transmission characteristics of the lower zone varying, with respect to a reference transmission in accordance with the negative of said second function; a source of radiation; a radiation detector; means to direct a first beam of radiation from said source through the upper zones of said first and second plates to said detector; means to direct a second beam of radiation from said source through the lower zones of said first and second plates to said detector; and a light opaque plate disposed between said first and second plates to separate said first and second beams between said first and second plates.

2,712,416

### CENTRIFUGAL GRINDING MILLS

Walter Beushausen and Hans Rumpf, Augsburg, Germany, assignors to Alpine Aktiengesellschaft, Eisen-  
giesserei und Maschinenfabrik, Augsburg, Germany, a company of Germany

Application April 19, 1951, Serial No. 221,818  
Claims priority, application Germany April 22, 1950  
2 Claims. (Cl. 241-55)

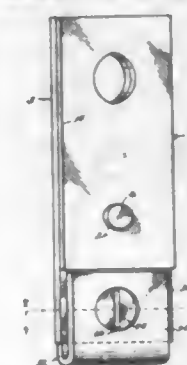


1. A centrifugal grinding mill comprising two disks supported for independent coaxial rotations at unequal speeds, a plurality of comminuting members affixed to the adjacent faces of the disks, a housing substantially enclosing the disks with large radial clearance therefrom, a flat wall in the housing perpendicular to the axis of rotation of the disks, a recess in said wall, one of said disks being positioned within said recess with its face adjacent the other disk substantially coplanar with said wall, said wall being joined to an opposite wall of the housing by a surface of large radius of curvature, and material evacuating means disposed in said housing radially outside the periphery of said disks.

2,712,417

### ROTARY STRIKING HAMMER WITH TIP-ATTACHED WEAR MEMBER

Sanning C. Jensen, Neola, Iowa  
Application April 4, 1952, Serial No. 280,446  
2 Claims. (Cl. 241-197)



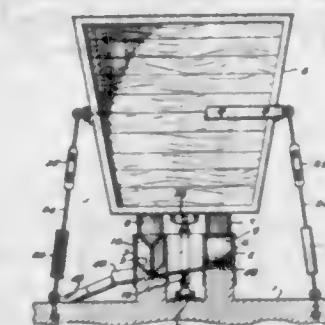
1. A hammer assembly comprising: an elongated hammer said hammer being thinner at one end than along the remainder thereof, said hammer having a bore there-through at the thicker end thereof, said hammer being of laminated construction having two portions disposed side-by-side and secured to each other; a tip for attachment to the end of said hammer, said tip comprising a member having its outer sides of harder composition than the interior thereof, said member being of substantially a U shape in side elevation, the inner sides of the arms of said member each being flat; a screw disposed extending through said tip and through said narrow end of said hammer, said screw having a head countersunk in said tip.

2,712,418

### MATERIAL CRUSHING MACHINE

Alexander Mitchell, Yellowknife, North West Territories, Canada

Application July 29, 1954, Serial No. 446,518  
9 Claims. (Cl. 241-202)

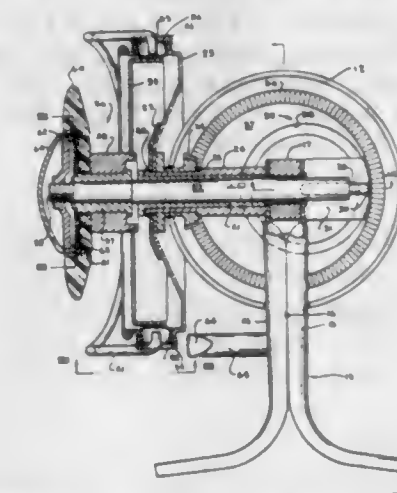


1. A material crushing machine comprising a pair of substantially parallel troughs, one of said troughs having a substantially flat uniplanar crushing surface, the other of said troughs having a multi-planar crushing surface and weighted crushing means having a pair of convex crushing surfaces each rockably seated upon one of said trough crushing surfaces.

2,712,419

### SPINNING TYPE FISHING REEL

Franz J. Martin, Detroit, Mich.  
Application August 30, 1950, Serial No. 182,249  
4 Claims. (Cl. 242-84.4)



4. In a casting reel, a line-carrying spool fixed to a reciprocable spindle, a rotatable flier surrounding said spool and having a semi-circular line guiding bail pivotally mounted thereon, an operating crank and driving means to effect the simultaneous reciprocation of said spindle and rotation of said flier upon actuation of said crank, a reel support adapted for attachment to a fishing rod and seating said crank and said driving means, and a cam finger extending from said support to engage said bail when it is out of line-engaging position as the crank is turned and flip said bail over the end of the spool, the bail having at least one of its end portions bent at an angle to the plane of said bail, the extreme ends of the bail being turned toward each other on a line parallel to the plane of said bail, a pair of raised portions on said flier, each of said raised portions having an opening and having a groove, a shoulder and a cam face leading from said groove around said opening to said shoulder at an acute angle to the periphery of the flier, the turned portions of said bail being pivotally mounted in said openings and bail portions adjacent said turned portions being received in said grooves when said bail is in alignment with said cam finger, whereby when the bail engages the cam finger said adjacent bail portions will ride out of said groove along said cam face and into engagement with said shoulder, whereupon said bail will be in line-engaging position.

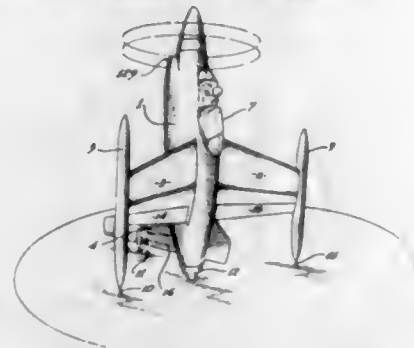


2,712,420

**VERTICAL TAKE-OFF AIRPLANE AND CONTROL SYSTEM THEREFOR**

Warren H. Amster, Montclair, N. J., and Clarence H. Holleman, Tarzana, and Eugene V. Browne, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application December 1, 1951, Serial No. 259,334  
22 Claims. (Cl. 244-7)



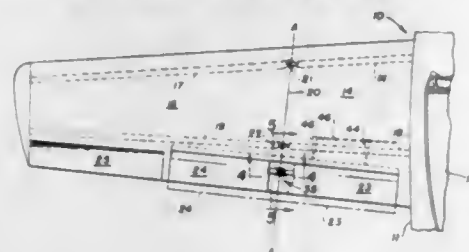
21. A vertically rising airplane comprising a fuselage, a wing attached to said fuselage and having a relatively high dihedral angle, said wing being essentially straight in planform, an elongated fore-and-aft pod member at each wing tip, a ventral fin extending downwardly under the rear of said fuselage, and landing strut means including a wing tip strut in the aft end of each of said pod members and rearwardly extending fin strut means attached near the lower extremity of said ventral fin.

2,712,421

**FOLDING WING AIRCRAFT**

Donald J. Naumann, Inglewood, Calif., assignor to North American Aviation, Inc.

Application August 21, 1953, Serial No. 375,650  
5 Claims. (Cl. 244-49)



1. In an aircraft having folding wings, first and second wing portions relatively foldable with respect to each other, a first movable surface pivotally mounted upon said first wing portion, a second movable surface pivotally mounted upon said second wing portion, means for folding one of said wing portions with respect to the other said wing portion, and means including a pair of universally interconnected links separately connected respectively to each of said movable surfaces whereby the relative disposition of each said movable surface with respect to its respective wing portion is maintained during the folding of said wing portion.

2,712,422

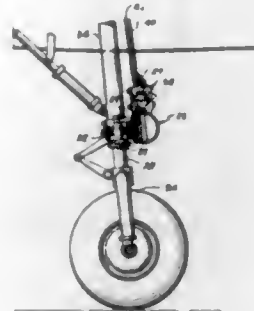
**SERVOMOTOR ASSEMBLY FOR NOSE WHEEL STEERING GEAR AND THE LIKE**

Harvey F. Gerwig, Glendale, Calif., assignor to Weston Hydraulics, Limited, North Hollywood, Calif., a corporation of California

Application September 6, 1952, Serial No. 308,273  
11 Claims. (Cl. 244-50)

4. A remote control steering unit for a dirigible wheel assembly having a generally vertical pivot shaft with a gear affixed thereto; a horizontal rack slidably mounted adjacent said shaft and meshed with said gear whereby reciprocation of said rack along its own axis rotates said shaft in opposite directions; a pair of tension cables attached to said rack and having portions of their lengths extending in opposite directions along the axis of said

rack from their respective attachments thereto whereby alternate tension in one or the other of said cables moves said rack in opposite directions; a pulley mount rockably supported on a pivot bearing having an axis transverse to said rack axis; a pair of pulleys rotatably carried on said mount on axes substantially parallel to said pivot bearing axis with one of said cables respectively passing around each of said pulleys on opposite sides thereof, whereby equal tensions in said cables balance the moments applied to said pulley mount, and unequal tensions in said cables exert a differential moment on said pulley mount to rock



the same in the direction of the attachment of the cable having the greatest tension; a spring connected to said pulley mount to yieldably urge the same to a centralized position in said rocking movement; double acting fluid motor means connected to said rack to move the same selectively in opposite directions as aforesaid; a valve interposed in the fluid system of said motor means and operable selectively to actuate the same in said opposite directions; and a linkage connecting said pulley mount to said valve to move the latter to actuate said motor to assist the motion of said rack urged by a differential tension in said cables.

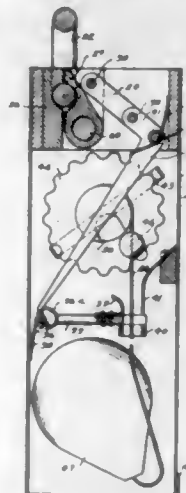
2,712,423

**PLUMMET ACTUATED MECHANISM AND PARACHUTE DELIVERY APPARATUS**

Werner F. Jehn, Wright-Patterson Air Force Base, Ohio

Application September 29, 1954, Serial No. 459,222  
8 Claims. (Cl. 244-150)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An automatic actuating mechanism designed to operate at a preset distance above the surface of the earth comprising a frame, a jaw rigidly attached to said frame, a movable jaw rotatably attached to said frame, said jaw and said movable jaw being capable of cooperation to retain a link, a first arm rotatably attached to said movable jaw, a second arm rotatably attached to said frame, said first arm being rotatably attached to said second arm to form a toggle-type linkage, a first spring so associated with said second arm as to tend to cause said arm to rotate, a first lever attached to said second arm in such a manner that it rotates with said second arm, a shaft rotatably attached to said frame and having a milled-out portion, the free-end of said first lever being so associated with said shaft that said first lever is restricted in its movement by

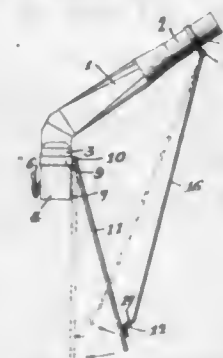
said shaft except when the free-end of said first lever is associated with the milled-out portion of said shaft, a second spring associated with said shaft in such a manner that said shaft tends to rotate, a second lever attached to said shaft in such a manner that it rotates with said shaft, said second lever having a shoulder located near its free-end, a sleeve attached to said frame, a spring arm attached to said frame at one end and the other end of which holds the free-end of said second lever against said sleeve, a drum rotatably attached to said frame, means to restrict the speed of rotation of said drum, a cable wound around said drum, a sphere attached to said cable, said cable passing through said sleeve, a plummet attached to the free-end of said cable, means to hold said plummet in close association with said frame until the mechanism is used, said sphere cooperating when said cable is unwound from said drum with the shoulder of said second lever to remove said spring arm from holding the free-end of said second lever against said sleeve, and said sphere holding the free-end of the second lever against said sleeve until the tension of said cable is substantially reduced by said plummet contacting matter having substantial resistance to penetration on impact.

2,712,424

**CONDUIT ASSEMBLY**

Narcisse Dion, Ste. Therese de Blainville, Quebec, Canada, assignor to Dion Freres Inc., Ste. Therese de Blainville, Quebec, Canada

Application March 30, 1953, Serial No. 345,654  
4 Claims. (Cl. 248-49)



1. A conduit assembly comprising an angular conduit, an end piece on each end thereof, a pair of legs pivotally suspended from one of said pieces, a cross bar joining said legs near the free ends thereof, a rod pivotally suspended from the other piece and extending to the midpoint of said bar, and means for attaching the free end of said rod to said bar.

2,712,425

**HOSE SUPPORT FOR FUME AND DUST COLLECTORS**

Richard Ruemelin, Milwaukee, Wis.

Application January 7, 1953, Serial No. 329,976  
3 Claims. (Cl. 248-75)



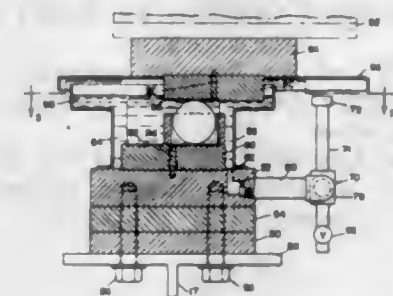
1. Counterbalancing means in combination with a device having a support and having an elongated member pivotally connected to said support and projecting therefrom comprising: a lever extending at an angle laterally with respect to said elongated member and pivotally movable therewith, an apertured abutment member pivotally mounted on said support, an elongated bolt having a slidable and pivotal connection with said lever and slidably extending through the aperture in said abutment member and having end portions projecting outwardly beyond said lever and abutment member; a first shoulder member on

2,712,426

**REACTOR SUPPORTS**

Daniel B. Banks, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application April 22, 1954, Serial No. 425,014  
5 Claims. (Cl. 248-128)



1. In combination with a reaction vessel vertically positioned in a rigid supporting structure and connected with fluid conductors entering the vessel at ninety degrees to each other and axially on the same vertical plane, flexible support means comprising a first bearing member extending from the vessel to engage bearing means on the supporting structure diametrically opposite and in the vertical plane of the axis of a first fluid conductor subjected to the greatest fluctuation in thermally created displacement, guides attached to the rigid structure on each side of the first fluid conductor and the opposing bearing member to limit the resulting vessel movement, and two additional bearing members spaced one hundred and twenty degrees from said first bearing member and in said vertical plane of the fluid conductors engaging bearing means on the rigid structure and adapted to adjust the position of the vessel for the effect of the thermally created forces in the second fluid conductor.

2,712,427

**IMPACT TYPE SNAP ACTING SHUT-OFF VALVE**

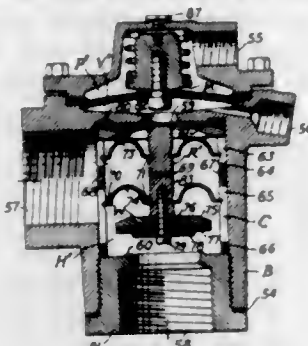
Arthur A. Welborn, Rogers, and Robert L. Treuthart, Garfield, Ark.

Application July 22, 1952, Serial No. 300,136  
12 Claims. (Cl. 251-61)

3. In a fluid flow control device of the class described, in combination, a duct for the transmission of fluid and having a valve seat therein, a fluid-tight deflectable partition permanently sealing an aperture in the duct casing, a driven element and a valve within the duct and disposed generally between the seat and said partition, the valve being mounted on and carried by the element, the element being pivotally and reciprocatingly suspended centrally of a system of compressed springs, outwardly of the system the springs pivotally engaged with an enclosing retaining structure, said structure having fixed relationship with the



surrounding duct casing, the element arranged to be urged by the springs either toward and against or away from said partition, the valve thus being carried, respectively, either away from or toward and against the valve seat, the partition upon an impact from without the duct serving to transfer momentum therethrough to the driven element; the element thus endowed with momentum mov-



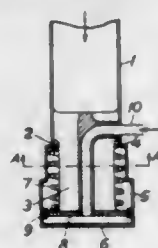
ing away from the partition and against the action of said spring system, further compressing the springs until an unstable position is reached and passed through, the spring system thereafter expanding so as to urge and guide the element in the direction of the valve seat, the valve carried with the element then closing upon the seat to shut off duct fluid flow.

2,712,428

# QUICK AIR RELEASE VALVE FOR CIRCUIT BREAKERS

Haakon Forwald, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application July 10, 1951, Serial No. 235,942  
Claims priority, application Sweden August 5, 1950  
2 Claims. (Cl. 251-63)



2. An air release valve for a compressed air circuit breaker, comprising an open-ended tube for the passage of the released air, an auxiliary air pipe-line centrally disposed in said tube and extending from the open end thereof, a disc secured to the end of said pipe-line, a cylinder sealingly mounted on said disc, an end wall formed on one end of said cylinder and forming with part of said cylinder and said disc an air chamber in communication with the auxiliary air pipe-line, an inwardly projecting annular shoulder formed on the other end of the cylinder and having an inner flat surface exposed to the air pressure within said tube and an outer flat surface in sealing engagement with the open end of the tube when the release valve is closed, and a spring in compression between said disc and said shoulder to hold the valve in the closed position until the pressure of the auxiliary air upon the end wall of the cylinder overcomes the air pressure and the force of said spring on the said inner surface of the shoulder and so opens the release valve.

2,712,429

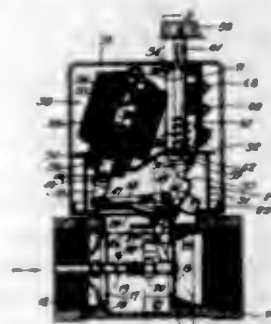
# FLUID CONTROL VALVE

William Alton Ray, North Hollywood, Calif.  
Continuation of application Serial No. 544,511, July 12, 1944, which is a division of application Serial No. 407,932 August 22, 1941. This application April 28, 1951, Serial No. 223,496

10 Claims. (Cl. 251-130)

1. In a fluid control valve: a casing having a passage therethrough; means movable in said casing for con-

trolling fluid flow through said passage; flexible, normally impermeable means forming a wall of said casing exposed to said fluid; a support mounted on said casing; a sleeve mounted on the support and open at one end; an axially movable plunger slidable in said sleeve and extending through the open end; stop means at the



other end of the sleeve; means connecting the plunger and the fluid flow controlling means for movement of said controlling means in accordance with the movement of said plunger; and an electromagnet coil surrounding the sleeve for moving the plunger and said flow controlling means.

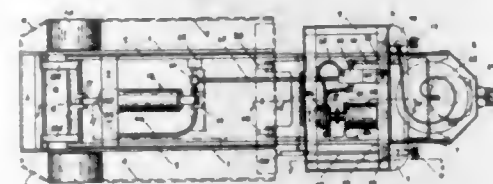
2,712,430

# LIFT TRUCK

Walter C. Stuebing, Jr., Cincinnati, Ohio

Original application September 26, 1946, Serial No. 699,569. Divided and this application February 1, 1951, Serial No. 208,895

1 Claim. (Cl. 254-2)



In a lift truck of the class described including a chassis having a wheel assembly and a lifting frame assembly mounted therein and adapted to be moved to and from an elevated position wherein it engages and lifts a load, means for elevating the lifting frame to a predetermined position including a hydraulic ram assembly operatively connected between said chassis and said lifting frame, valve means for controlling the flow of fluid to and from said ram assembly, a treadle mounted on said chassis and operatively connected to said valve means to control the operation of said ram assembly, pump means and a passageway to supply oil to said ram assembly, said valve means being connected to said passageway, an electric motor to drive said pump means, means forming an electrical circuit to drive said motor including a push-button switch, a second treadle which is swingably mounted to be moved to operate said push-button switch thereby to operate said motor, push rod means extending from said second treadle to adjacent said lifting frame, and lever means connected to said lifting frame so as to be pivoted into engagement with said push rod upon the elevation thereof whereby said second treadle is rendered inoperative and the delivery of further fluid to said ram assembly is prevented upon the elevation of said lifting frame assembly.

2,712,431

# TRACTOR JACK

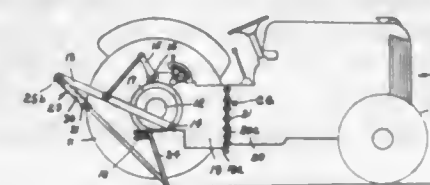
George W. Findley, Birmingham, Mich., assignor, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application January 30, 1952, Serial No. 268,997

3 Claims. (Cl. 254-86)

1. For use with a tractor having a power lifted hitch link, a tractor jack comprising a stand, an extensible arm

having one end pivotally connected to said stand, and means on the other end of said arm for selectively pivotally securing said arm to the hitch link in either its extended or retracted condition for respectively selectively



positioning said stand in engagement with the underside of the tractor adjacent the tractor center of gravity or substantially rearwardly thereof, whereby raising of the hitch link respectively raises the tractor front or rear end.

2,712,432

# ROLL-ON-JACK

Phillip H. Thornton, Jr., Charleston, Miss.  
Application December 8, 1953, Serial No. 396,925  
3 Claims. (Cl. 254-88)

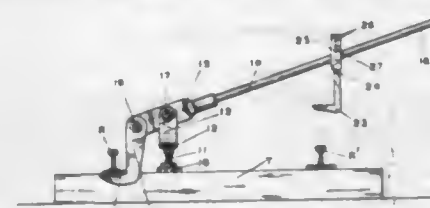


1. A roll-on-jack for tractors having a body portion, said body portion being provided with a forward rocker portion having a substantially pointed end for engagement by a forwardly moving wheel of a tractor, said body portion having a substantially flat under-surface and said forward rocker portion having an under-surface which is curved in longitudinal cross section, said jack having a track, an upwardly projecting transverse wall at the rear end of said track, said track extending forwardly to adjacent said pointed end, longitudinally extending spaced flanges forming the side walls of said track, at least one of said flanges being of a width less than the distance between a pair of front wheels of a tractor whereby when one of said pair of wheels runs onto said track to the point where it is engaged and stopped by said upwardly projecting wall, the other of said pair of wheels remains freely suspended in elevated position by reason of the engagement of said one wheel with said track with one of said flanges extending between said pair of wheels, said track having a portion of substantial depth above the flat under-surface of said body portion as defined by said flanges, said track having an upwardly inclined surface extending from said portion of substantial depth to said upwardly projecting back wall, said jack being freely supported on a horizontal surface of a floor or road surface to thereby rock on said surfaces as the front wheel of a tractor rolls on said track from the pointed end of said jack to said upwardly projecting wall.

2,712,433

# TRACK LIFTER

Jerome Cyrus Holt, Portland, Oreg.  
Application July 8, 1953, Serial No. 366,837  
1 Claim. (Cl. 254-121)



A rail jack comprising a base member adapted to be supported upon a railroad cross tie, a vertical screw ro-

tatably supported in said base member, a collar fixed on said screw and having a radial bore for removably receiving a handle for turning said screw, a member non-rotatably mounted on said screw to move vertically in response to rotation of said screw, a journal bracket supported by said member, a lever pivotally mounted adjacent one end on said bracket by a horizontal pivot, rigidly connected spaced-apart rail lifting hooks pivotally suspended from the short end of said lever to straddle the tie supporting said base and engage a rail at either side of said tie, a latch hook having a forked shank to straddle the long end of said lever, said forks each having a series of corresponding holes, and a pin removably and selectively inserted through corresponding holes in said forks to pivotally suspend said latch hook from said lever, whereby said latch hook anchors the jack to one rail, while the two rigidly connected spaced-apart hooks engage and lift the companion rail when the handle is depressed.

2,712,434

# DIRECTIONAL DRILLING TOOL

Melvin L. Giles and Carl L. Wells, Bakersfield, Calif.  
Application November 23, 1953, Serial No. 393,758  
3 Claims. (Cl. 255-1.6)



1. In combination with a rotary drill stem having a drill pipe, a bit, and a drill collar between the bit and the drill pipe, an eccentric bushing having an external diameter substantially equal to the diameter of the hole drilled by the bit, means for rotatably mounting the bushing between the top of the drill collar and the drill pipe whereby the drill pipe and drill collar may rotate relatively to the bushing and the top of the drill collar will be held laterally displaced by the bushing relative to the axis of the hole drilled by the bit, and means for arresting rotation of the bushing relative to the drill pipe and drill collar in one direction whereby the bushing may be properly oriented thereby in the hole.

2,712,435

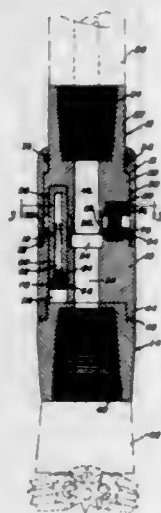
# SHOCK ABSORBER FOR ROTARY DRILLS

Walter T. Allen, Cuero, Tex.  
Application March 15, 1951, Serial No. 215,793  
6 Claims. (Cl. 255-28)

6. In a device for coupling a drill bit to a shank, a body having a cavity, a plunger provided with a head slidably disposed in said cavity, and means for arresting shock operatively connected with said plunger and said body, said arresting means including a piston secured to said plunger head, said body having a fluid chamber therein opening into said cavity slidably receiving said piston, said piston comprising a casing having an orifice



opening into said fluid chamber so that movement of the plunger with respect to said body is opposed by fluid

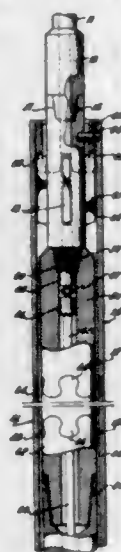


in the fluid chamber passing through the orifice into the casing.

2,712,436

**FLEXIBLE WELL DRILL COLLAR**

John S. McCune and William E. Hanks, Long Beach, Calif., assignors to Oilwell Drain Hole Drilling Co., Long Beach, Calif., a corporation of California  
Application March 31, 1952, Serial No. 279,557  
9 Claims. (Cl. 255-28)



1. A flexible well drill collar comprising a series of tubular sections each having at one end two pairs of projecting curved edge lobes received within corresponding recesses in the end of an adjacent section, the lobes of each pair being diametrically opposed and the pairs being arranged at 90 degree spacing about the axis of the section, and the lobes of both pairs terminating in about the same transverse plane of the section so that adjacent sections have relative universal movement at the same location longitudinally of the drill collar, both ends of each section having continuous alternately convex and concave curvatures defining said lobes and recesses, each lobe having a reduced width neck, and the individual lobes having end bearing edges curved essentially circularly at a first radius along substantially their entire extents, and having continuing side edges curved essentially circularly at a radius smaller than said first radius.

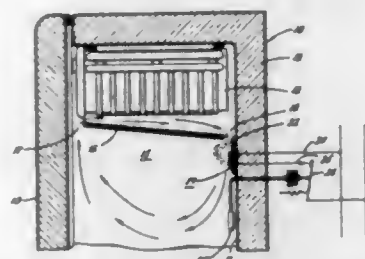
2,712,437

**TEMPERATURE CONTROL APPARATUS FOR REFRIGERATORS**

Lloyd A. Staebler, Oreland, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania  
Application March 21, 1952, Serial No. 277,774  
3 Claims. (Cl. 257-3)

1. In refrigeration apparatus, a cabinet, a baffle or partition disposed within said cabinet and separating the

space therein into upper and lower compartments, the upper of said compartments having cooling means in heat exchange relation therewith, and said baffle being so shaped and disposed within said cabinet as normally to provide for limited circulation of cooling air between said two compartments, the construction and arrangement being such that the circulating air normally flows upwardly past one portion of said baffle into heat exchange relation with said cooling means and thereafter flows

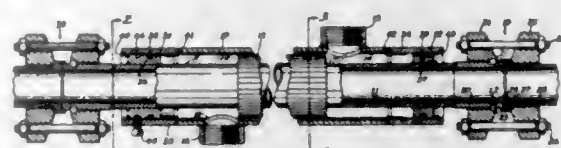


downwardly into the lower compartment past another portion of said baffle spaced from the said one portion, and means preventing over-cooling of said lower compartment, comprising: means adapted to add heat to the cabinet in the path of the current of air which normally flows downwardly past the stated other portion of the baffle; and means responsive to temperature conditions prevailing within said lower compartment to control operation of said heating means.

2,712,438

**HEAT EXCHANGER**

John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Fintube Company, Elyria, Ohio, a corporation of Ohio  
Application April 27, 1951, Serial No. 223,300  
3 Claims. (Cl. 257-246)



1. In a heat exchanger having an inner tube, a shell tube surrounding the inner tube and fluid connections for the ends of the inner tube of larger external diameter than said inner tube disposed outside of said shell tube; means for sealing said inner tube to said shell tube comprising sleeves constituting the end portions of said shell tube, said sleeves being permanently secured to the central portion of said shell tube, the internal diameter of said shell tube being at least as great as the internal diameter of said sleeves, said sleeves having finished cylindrical inner surfaces and the internal diameter of said sleeves being greater than the external dimensions of the fluid connections for the inner tube, bushings of larger external diameter than the fluid connections for the inner tube secured in leakproof relation to said inner tube and disposed within said sleeves, said bushings being of equal diameter and fitting closely within the cylindrical surfaces of said sleeves, each of said bushings having a groove and a resilient sealing ring composed of rubber-like material disposed in said groove and sealing the clearance space between the bushing and the adjacent sleeve, and means independent of the adjacent sealing ring for preventing one of said bushings from moving longitudinally with respect to its surrounding sleeve.

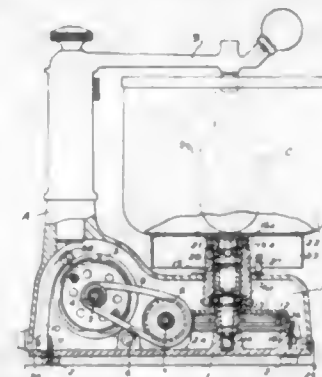
2,712,439

**ELECTRICALLY DRIVEN MACHINES FOR MIXING AND KNEADING OR FOR MINCING**

Harold Thomas Lamb, Newcastle upon Tyne, England  
Application October 4, 1950, Serial No. 188,367  
2 Claims. (Cl. 259-85)

1. A machine for mixing, kneading, mincing and similar culinary purposes of the kind referred to, comprising

a housing, vertical pillar means rigid with said housing, a horizontal swinging arm pivotally mounted on said pillar means, a mixing member depending vertically downwards from the free end of said swing arm, a base plate, driving mechanisms mounted on said base plate, said driving mechanism including a vertical driven shaft



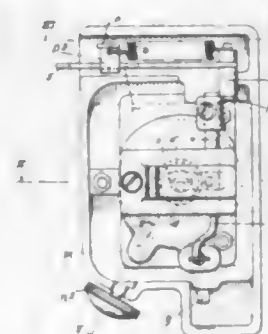
independent of said housing a mixing bowl mounted on said shaft, said mixing member being located inside said bowl, and driven by said bowl, said housing being positioned over said driving mechanism and detachably secured at its lower edge to said base plate, said housing having an opening in its upper portion for passing with clearance over said vertical shaft.

2,712,440

**TIME DELAY DEVICES**

John Ashworth Crabtree, Little Aston Park, Thomas Daniel Guy Wintle, Hall Green, Birmingham, and Slegfried Alter, Walsall, England, assignors to J. A. Crabtree & Co. Limited, Walsall, England, a British company

Application August 16, 1950, Serial No. 179,784  
Claims priority, application Great Britain  
September 29, 1949  
8 Claims. (Cl. 267-1)

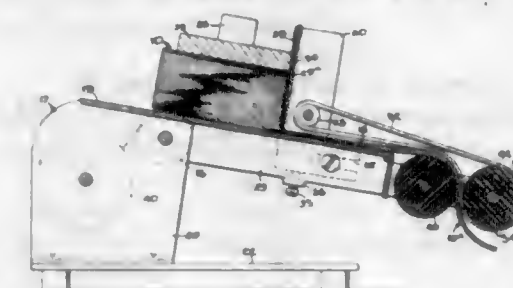


1. A pneumatic time delay device comprising a housing having a closed air chamber therein; a flexible diaphragm mounted in said housing and extending across said chamber to divide the same into two sections; means for flexing said diaphragm toward one end of said chamber; means for flexing said diaphragm toward the opposite end of said chamber; an air passage extending from one side to the other of said diaphragm for passage of air between the two sections of said chamber; and a throttle valve controlling flow of air through said air passage, said throttle valve comprising a separate valve body member removably mounted within a wall of said housing and having a bore therethrough, a portion of which bore constitutes a part of said air passage, said valve body member having a valve seat therein, and means at the exterior of said housing for operating said throttle valve to vary the rate of flow of air through said passage from one side of said diaphragm to the other side thereof, said last mentioned means including a valve stem having a valve portion thereon, said valve stem being adjustable by said means at the exterior of said housing to vary the position of said valve portion with respect to said valve seat.

2,712,441

**MECHANISM FOR JOINING SHEETS**

Paul O. Ray, Rockford, Ill.  
Application June 8, 1954, Serial No. 435,330  
13 Claims. (Cl. 270-58)

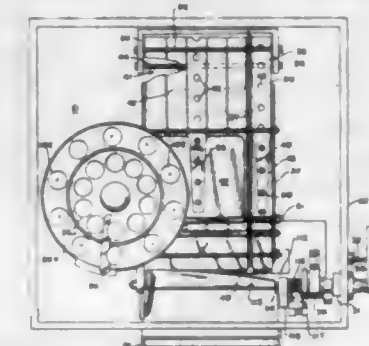


1. Mechanism for joining a plurality of sheets comprising a magazine for receiving a stack of sheets and having an opening through one side thereof for the edge-wise removal of the terminal sheet of said stack, means for supporting a tape having a pressure sensitive adhesive on one side thereof with the tape extending along a predetermined path across the end of said magazine and through said opening and with the pressure sensitive side of the tape facing said stack, a member holding said tape in contact with the successive terminal sheets of said stack to join the sheets to the tape as the latter is advanced along said path, a flexible belt disposed beyond said opening and extending along one side of said path, a guide disposed on the opposite side of said path and frictionally holding the sheets attached to said tape against said belt, and means driving said belt to advance the sheets and the tape along said path.

2,712,442

**SELECTIVE FEED MECHANISM FOR STAMP DISPENSING MACHINE**

Helmer C. Hanson, Loveland, Colo., assignor of one-half to Paul H. Draper, Loveland, Colo.  
Application January 15, 1951, Serial No. 206,031  
6 Claims. (Cl. 271-2.4)



1. In a stamp dispensing machine having a housing and a supporting frame mounted therein, a pair of parallel stamp supporting platforms, one of which is adapted to support a single continuous width strip of stamps, and the other of which is adapted to support a plural unit width continuous strip of stamps, a pair of concentrically independently manually operable rotatable dials mounted on concentric shafts and provided with a plurality of circumferentially arranged finger holes to constitute separate selector dials, a pair of feed drums, one for feeding each strip, said drums being driven separately by said separate shafts of said separate dials for separately feeding said separate strips, a finger lever rotatably carried by one of said concentric shafts and extending over the finger holes of both of said dials so as to be engaged by the operator's finger upon reaching a predetermined point in the rotation of either dial, a brake drum carried by each of said concentric shafts, a brake drum engaging member normally maintained out of engagement with said brake drums and operated by a predetermined degree of rotation of said finger lever, after engagement by the operator's finger while in a finger hole in



a selector dial, to engage both brake drums to prevent movement of both of said concentric shafts to prevent forward strip feed by either feed drum.

2,712,443

## POGO STICK

Harry H. Hohberger, Chicago, Ill.

Application September 6, 1952, Serial No. 308,262

4 Claims. (Cl. 272-57)



1. A pogo stick comprising a body member composed of a pair of identical halves joined together along complementary mating faces, said mating faces being formed with interlocking tongues and grooves to prevent longitudinal movement between said halves, said body member having a generally tapering outer surface so as to be larger at its lower end than at its upper end, said body member being formed with an axial spring housing in its lower end and having an aperture in its lower end opening into said housing, a plunger slidably projecting through said aperture and into said housing, cooperating means on said plunger and in said housing limiting the outward movement of said plunger, a spring confined within said housing and biasing said plunger outwardly, and a foot rest having a sleeve portion formed with an internal taper complementary to the taper of said body member encircling said body member adjacent its lower end to clamp said body halves together and to locate said foot rest on said body member.

2,712,444

## DETACHABLE LINK AND HOOK GAME-PIECE

Lawrence E. Reed, York, Nebr.

Application November 23, 1953, Serial No. 393,582

2 Claims. (Cl. 273-1)



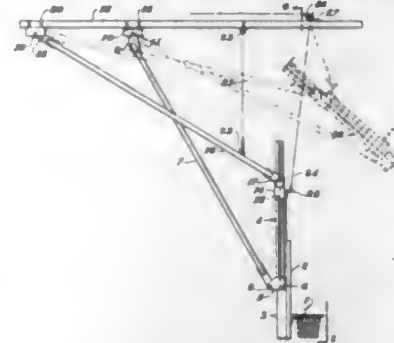
1. A game-piece of the class described comprising a playing piece in the nature of a substantially crescent-shaped link having one portion curved laterally in one direction and the remaining portion curved laterally in an opposite direction thereby defining an elevated lifting hook-engageable element when placed upon a support to facilitate the lifting of the link from a support through the medium of a lifting hook.

2,712,445  
ADJUSTABLE BASKETBALL BACKBOARD ASSEMBLY

James Barclay and John S. Knox, Midland, Mich.

Application January 26, 1950, Serial No. 140,734

2 Claims. (Cl. 273-1.5)



1. In an adjustable basketball backboard the combination which includes a backboard supporting frame, a track for said frame adapted to allow the backboard to move in a vertical plane when suitably urged, stop means adapted to limit the travel of the frame on the track, supporting means for the track adapted to allow the backboard and supporting track to tilt upward after the backboard has been moved upward on the track a predetermined distance, means for raising and lowering the backboard and its supporting frame on the track, said raising and lowering means also being adapted to effect upward and downward arcuate movement of said frame and board relative to the normal vertical playing position of the board after the stop means are engaged by movement of the frame on the track.

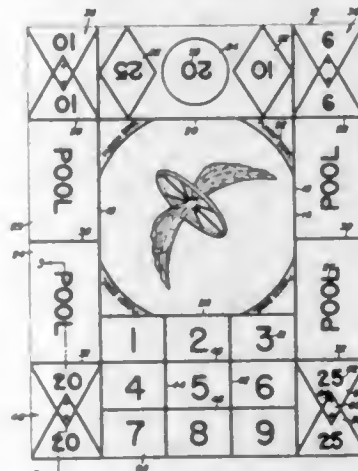
2,712,446

## GAMEBOARD AND PLAYING CARDS

Marie L. McKeever, Jacksonville, Fla.

Application October 12, 1950, Serial No. 189,803

5 Claims. (Cl. 273-135)



1. A gameboard comprising a substantially rectangular board, a central rectangular portion of said board designating a "Punch Bowl" playing area and outlined with grooves in said board, a pair of playing sections disposed on each side of said central portion and having inlaid indicia therein designating the sections as "Pool" sections, opposite pairs of corner playing areas on said board positioned at the diagonal extremities of said central portion and outlined with grooves forming continuations of the outlining grooves of said central portion, and a plurality of grooves forming squares out of the area between a pair of corner playing areas, the area between the opposite pair of corner playing areas being divided into a plurality of non-rectangular areas having indicia markings thereon of various numerical values, and a deck of game cards for use with a gameboard of the type described comprising a multiplicity of cards of a plurality of sets, each set containing the same number of cards, each set of cards having numerical indicia of various consecutive

values and of the same values as the numerical indicia of the gameboard, and each set of cards being of a color different from that of another set.

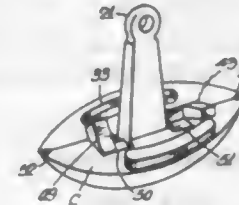
2,712,447

## SECTOR PUZZLE CONSTRUCTION

Irving Hartley Steinhardt, New York, N. Y.

Application September 27, 1948, Serial No. 51,338

16 Claims. (Cl. 273-160)



1. A puzzle construction having a plurality of wedge-shaped sector members meeting at a central longitudinal axis and contacting each other along adjacent faces which extend outwardly in a radial plane from said longitudinal axis, said sector members having interfitting recesses and projections, said recesses and projections extending arcuately over a substantial length of the contacting faces of the sector members adjacent the outer edges of said sector members away from the longitudinal axis and having varying lengths so as to compel a sequential assembly operation.

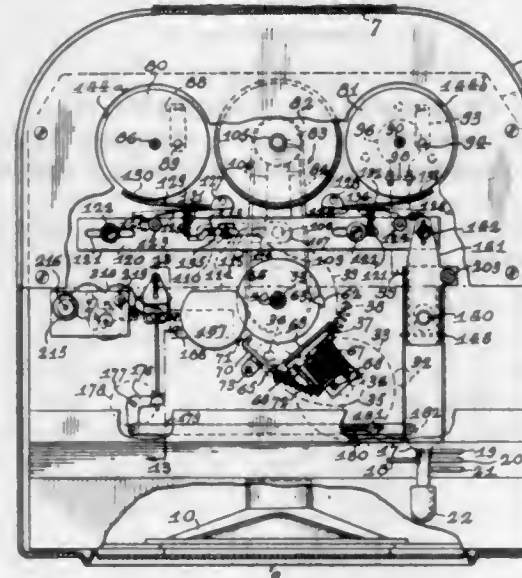
2,712,448

## MAGNETIC SOUND RECORDERS

Edward Schroter, Montreal, Quebec, Canada, assignor, by mesne assignments, to Ralph J. Samuels, Los Angeles, Calif.

Continuation of abandoned application Serial No. 75,553, February 10, 1949. This application October 27, 1953, Serial No. 388,513

18 Claims. (Cl. 274-4)



1. In a magnetic sound recorder having winding and unwinding turntables adapted to receive the reels of a magnetic recording tape which is fed from one reel to the other, means mounting said turntables for rotation therewith, a lever mounted for rotation about a pivotal axis, a motor driven friction driving wheel mounted for rotation on said lever intermediate the winding and unwinding turntables, an actuating arm rotatable about said lever pivotal axis, said wheel being movable into direct engagement with both of said turntable mounting means, means continuously resiliently engaging said arm with said lever during rotation of said lever for smooth rotation of the lever about its pivotal axis to selectively move said friction driving wheel into and out of resilient frictional rotary engagement directly with one or the other of the turntable mounting means as said actuating arm is rotated, and further means operable for rotation of

said actuating arm about its pivotal axis, said last mentioned means comprising, a bar member mounted for translational movement relative to said arm, and means connecting said actuating arm and bar member whereby translational movement of said bar member causes rotation of said actuating arm.

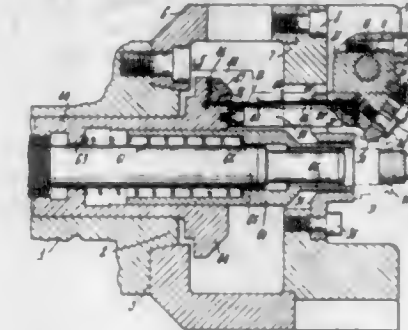
2,712,449

## CHUCK FOR HOLDING EXTERNALLY TAPERED WORK

Paul A. Grobey, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont

Application February 4, 1952, Serial No. 269,856

6 Claims. (Cl. 279-106)



1. A chuck comprising a body for attachment to a rotary spindle, a backing member carried by said body and having a face against which a work piece carried by said chuck may engage, a plurality of jaws pivoted to said body and movable to clamp a work piece against said face, a jaw-actuating member movable axially of said spindle and body and having elements extending through said backing member for engagement with said jaws and for moving said jaws out of clamping positions by motion of said actuating member in one direction, and leaf springs connecting said actuating member and jaws for causing the motion of said actuating member in the opposite direction to swing said jaws toward clamping positions:

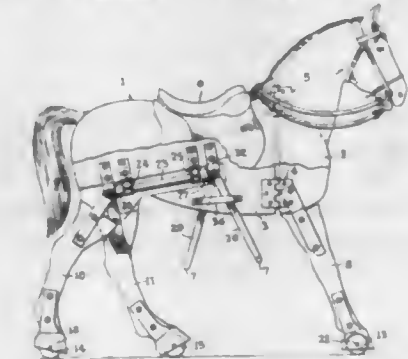
2,712,450

## ANIMAL SIMULATED OCCUPANT PROPELLED VEHICLE

Raymond E. Fox, Alexandria, Va.

Application September 24, 1953, Serial No. 382,082

3 Claims. (Cl. 280-1.181)



1. A horse simulating occupant propelled vehicle comprising: a body including a head portion and a rear portion; means pivotally connecting said head portion to said rear portion; reins connected to said head portion for steering the vehicle; a pair of front legs rigidly attached to said head portion; a pair of ground engaging wheels, one rotatably secured to the lower end of each of said front legs; a pair of rear legs, each pivotally mounted on said rear portion; a pair of pedal arms, one pivotally mounted on each side of said rear portion substantially equidistant from each end thereof; stirrup members secured to the lower end of each of said pedal arms; a first pair of bevel gears, one rigidly attached to the inner pivoted end of each of said pedal arms; a second pair of bevel gears, one rigidly attached to the inner pivoted end



of each of said rear legs; a shaft revolvably mounted on said rear body portion and extending longitudinally thereof between said first and second pairs of bevel gears; a third pair of bevel gears, one rigidly attached to each end of said shaft to mesh with said first and second gear pairs, respectively; and means for locking said rear leg wheels against rotation only when said rear legs are moved rearwardly of said body with the wheels in ground engaging contact; whereby alternate swinging movement of said pedal arms causes corresponding alternate swinging movement of said rear legs to drive said vehicle in a forward direction.

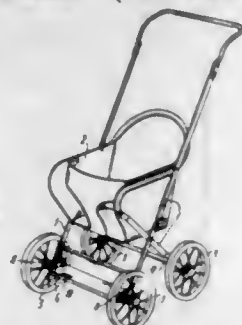
2,712,451

## FOOT BOARD FOR STROLLER

Matilda D. Welsh, Ladue, Mo.

Application June 7, 1950, Serial No. 166,605

1 Claim. (Cl. 280—47.4)



In a stroller of the character described having a scissors-bar frame pivoted above and carrying front and rear transverse axles, a pair of wheels on said axles respectively, a seat facing forward on said frame, the improvement comprising: a transverse footboard, brackets on said footboard connected by pivots to said frame forward of and below the pivotal point of said scissors-bar and above and rearward of said front axle, said bracket pivots being located above the middle one-third of the fore-and-aft width of the footboard and the perpendicular distance from said pivots to the footboard being less than the distance of said pivots from said front axle and the distance from said pivots to the front edge of the footboard being greater than said distance from the pivots to the front axle, whereby the footboard may swing freely forward under forward foot movement by the child while its rearward swing is arrested by engagement of the forward part of the footboard with the axle.

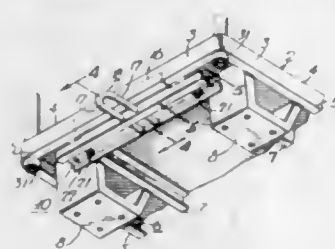
2,712,452

## FACTORY TRUCK CONSTRUCTION

Howard T. Hallowell, Jenkintown, and Frank Bennett, Philadelphia, Pa., assignors to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania

Application August 13, 1951, Serial No. 241,638

5 Claims. (Cl. 280—79.1)



2. A factory truck comprising a generally rectangular sheet metal body member having a work surface terminating in depending and intumed side and end peripheral flanges; a pair of longitudinal reinforcing elements arranged parallel to and spaced from said side flanges and rigidly affixed at the underside of said body member; wheel structures affixed to and each supported between one of said side flanges and the adjoining longitudinal reinforcing element; a self-contained hitch structure detachably

secured to and supported by the reinforcing elements and bearing solidly against the inside of the depending flange at one end of the truck body, said hitch unit comprising a two-sided trough structure, one side of said structure having means for attachment of the unit to the said reinforcing elements, and the other side of said structure being formed for abutting engagement with the depending portion of the said end flange of the truck body, said unit including a hitch bolt extending beyond the said other side of the trough-like structure and below said front end flange of the truck body so that a forward thrust on the hitch bolt will be transmitted to the body of the truck through the said other side and the abutted portion of the front end flange.

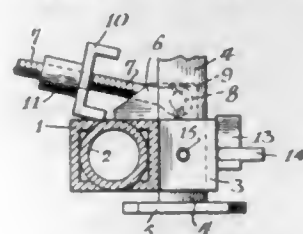
2,712,453

## JACK FOR DRAFT RODS

Lucien Dion, Ste. Therese de Blainville, Quebec, Canada, assignor to Dion Freres Inc., Ste. Therese de Blainville, Quebec, Canada

Application February 23, 1954, Serial No. 411,881

2 Claims. (Cl. 280—150.5)



1. In combination, a horizontal draft rod, a strap at one side thereof, a hollow pedestal slidable vertically in said strap, a lug extending from said rod into said pedestal, said pedestal having a lengthwise slot, a screw pivotally attached to said lug, and adapted to pass through said slot, a cap slidably mounted on said screw and adapted to rest on the upper surface of said pedestal, and a nut on said screw at the upper surface of said cap.

2,712,454

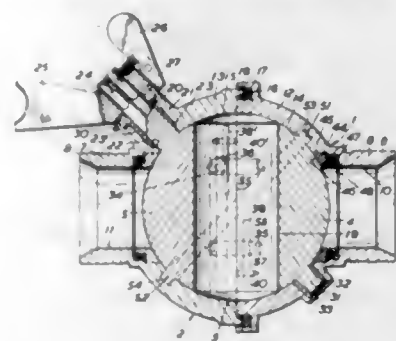
## SELF-SEALING COUPLINGS

John Love, Langside, Glasgow, Scotland, assignor to K. A. C. Limited, Glasgow, Scotland, a British company

Application March 19, 1952, Serial No. 277,439

Claims priority, application Great Britain March 20, 1951

16 Claims. (Cl. 284—4)



1. A self-sealing pipe coupling comprising: two tubular coupling parts each having a bore terminating in a part-spherical recess and together defining a hollow spherical valve chamber; a composite spherical valve, having a passage extending diametrically therethrough, rotatable in said valve chamber and comprising two separable complementary part-spherical valve segments; means for rotating said composite valve between a valve-open position, in which said passage registers with said coupling-part bores, and a valve-closed position in which each such bore is sealed by one of said valve segments, the axis of rotation of said valve lying in a plane bisecting the angle between the valve-open and valve-closed positions of the axis of said valve passage; co-operating means on said

valve segments preventing relative movement between such segments in directions parallel with their junction; means on said valve segments and said coupling parts for interlocking the latter together when the valve is in its said valve-open position; and means for sealing the junction between said coupling parts.

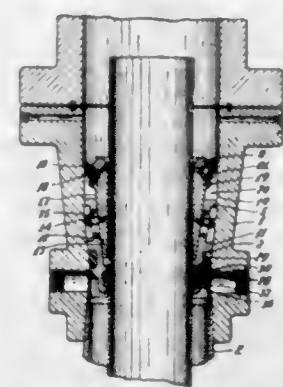
2,712,455

## PRESSURE ACTUATED SEAL WITH RELIEF MEANS

Claude R. Neillon, Houston, Tex., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 2, 1952, Serial No. 312,822

3 Claims. (Cl. 285—22)



1. In a well head having a bowl member formed with an opening therethrough having a downwardly and inwardly tapered inner surface to receive a pipe suspending and sealing means, a shell member having slip elements slidable therein for engagement with the outer surface of a suspended pipe string and an outer surface mating with the tapered surface of said opening, incompressible resilient sealing means mounted in said shell member comprising, an outer annular sealing ring mounted in a groove in the outer surface of said shell member and normally extending therefrom, an inner annular sealing ring mounted in a groove in the inner surface of said shell member and normally extending adjacent to said inner surface, said shell member having a plurality of openings connecting said inner and outer grooves, a plurality of connecting ribs in said connecting openings joining said inner and outer sealing rings for transmitting compressive forces from said outer ring to said inner ring, said inner groove having means comprising a relatively thin wall portion yieldable under pressure of said sealing means to limit the maximum force exerted by said inner ring against said suspended pipe string to less than the collapsing strength of the pipe, said sealing means substantially filling said mounting grooves and connecting openings.

2,712,456

## EXHAUST DUCT WITH DETACHABLE BELLOWS

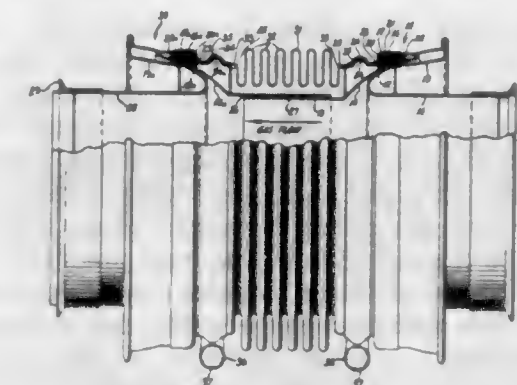
Frank E. McCreery, Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California

Application February 28, 1952, Serial No. 274,027

2 Claims. (Cl. 285—90)

1. A flexible metallic duct capable of conveying the hot exhaust gas of an internal combustion engine comprising, in combination: a sheet metal cylindrical conduit having its downstream end flared outwardly to form a spherical ball segment; a second sheet metal cylindrical conduit having its upstream end flared outwardly to provide a spherical socket portion in engagement with said ball segment and also a cylindrical anchoring portion; a third sheet metal cylindrical conduit having its upstream end flared outwardly to form a second spherical ball segment; a fourth sheet metal cylindrical conduit in telescopic engagement with said second conduit and having its downstream end flared outwardly to provide

a spherical socket portion in engagement with said second ball segment and also a second cylindrical anchoring portion; a pair of oppositely disposed bellows-supporting rings, each ring being composed of a single piece of sheet metal having a cylindrical portion secured to the periphery of one of said anchoring portions, and a convex bead portion having a diameter substantially less than the diameter of said cylindrical portion; a detachable, axially flexible metallic bellows having a plurality of convolutions, each end convolution having an integral extension capable of transmitting compression and having an annular concave terminal portion the diameter



of which is substantially less than the diameter of said bellows and which is adapted to seat against said convex bead portion, the concave face of said terminal portion engaging substantially one-half of the convex face of said bead portion; and a pair of detachable metal clamps embracing the annular terminal portions of said bellows and securing the ends of said bellows to said bellows supporting rings, said bellows and supporting rings forming a sealed chamber to receive any exhaust gas leaking through the telescopic joint between said second and fourth conduits and the axial expansion of said bellows due to such leakage causing an increase in pressure of said socket portions against said ball segments.

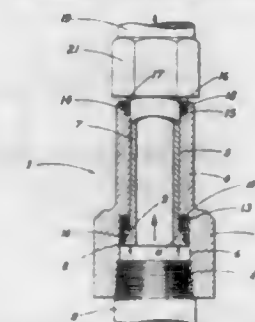
2,712,457

## BEARING ASSEMBLY FOR ROTARY SPRINKLERS

William S. Kimbro, Fresno, Calif., assignor to Buckner Manufacturing Company, Fresno, Calif.

Application January 14, 1952, Serial No. 266,391

1 Claim. (Cl. 285—97.5)

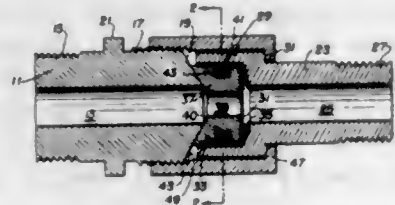


A water flow bearing assembly for connection between a standpipe and a rotary sprinkler head, comprising an upstanding fitting having an axial bore, the lower portion of the bore being enlarged to provide a downwardly facing annular shoulder intermediate the ends of the fitting, the wall of the enlarged bore portion being smooth surfaced adjacent the shoulder and arranged at its lower end for connection to a standpipe, a tubular spindle rotatably engaging the upper bore portion of the fitting and projecting above and below the same, the upper end of the spindle being arranged for attachment to a sprinkler head, an enlarged annular flange on the spindle below and spaced from the shoulder, a seal ring mounted in a groove in the flange and engaging the smooth wall of the enlarged bore portion, and a graphite thrust washer about the spindle in spaced relation thereto and closely fitted in said enlarged bore portion between and engaging the shoulder and the adjacent upper face of the flange.



### 2,712,458 PIPE COUPLINGS

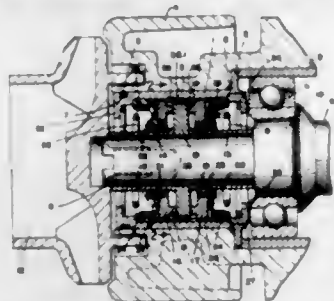
Leonard Lipson, Philadelphia, Pa.  
Application June 5, 1950, Serial No. 166,181  
2 Claims. (Cl. 285—120)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A coupling comprising a connector for each of pipe ends to be connected in a line of fluid under pressure, a sealing device between the connectors and a union exteriorly of the sealing device to secure the connectors to each other, one connector being adapted for connection to the pipe end of the high-pressure fluid side of the line and the other connector being adapted for connection to the pipe end of the back-pressure side, the sealing device comprising a cylinder larger than the bore of the fluid line and coaxial therewith, the sealing device also comprising a plunger operable in the cylinder in sealed engagement with the wall thereof, the plunger comprising a piston face that is squared at its end on the high-pressure side, a bevelled sealing face at its end on the back-pressure side and an axial bore from end to end that is smaller than the bore of the fluid line, the connector of the back-pressure side comprising a bevelled face at its end proximate to the cylinder and companion to the bevelled face of the plunger for sealing engagement therewith, and the connector of the pressure side comprising a bevelled face inside the cylinder to constitute an end of face thereof and provide a pressure-fluid cavity contained by the cylinder between the end face thereof and the piston face of the plunger.

### 2,712,459 HIGH SPEED SHAFT SEAL

Edward C. Wahl, Arlington Heights, Ill., assignor to Gils Bros. Mfg. Co., Chicago, Ill., a corporation of Illinois  
Application September 27, 1950, Serial No. 186,987  
6 Claims. (Cl. 286—11)



1. A face type cartridge unit shaft seal assembly comprising a hollow cylindrical housing, an annular disc-like rotatable sealing element of greater diameter than thickness having a central shaft receiving opening and parallel radial end faces extending substantially to the inner wall of said housing, said rotatable element being disposed centrally in said housing, a stationary radially extending disc-like sealing ring disposed on each side of said rotatable element in parallel relation therewith, each of said sealing rings having an axially extending nose portion located adjacent its outer margin and in sliding contact with the outer margin of the respective face of said rotatable element, a flexible radial diaphragm ring disposed adjacent each sealing ring in substantially parallel radially coextensive relation therewith on the side thereof opposite the respective nose portion, means securing the outer margin of each diaphragm in fluid tight relation against the inner wall of said housing, means securing the inner margin of each diaphragm to the inner pe-

riphery only of the adjacent sealing ring whereby the diaphragm is free to flex toward and away from substantially the entire adjacent face of the sealing ring, and means contained within said housing and acting on the inner marginal edge of each diaphragm for normally urging each sealing ring axially toward said rotatable sealing element.

### 2,712,460 LUBRICANT SEAL

Lawrence G. Saywell, San Mateo, Calif., assignor to Saywell Associates, South San Francisco, Calif., a joint venture

Application October 16, 1950, Serial No. 190,346  
4 Claims. (Cl. 286—11)

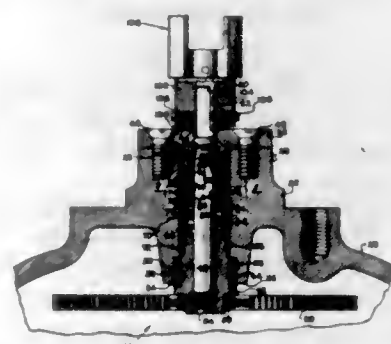


1. In a lubricant sealing assembly, outer and inner annular concentric members, a lubricant sealing means extending between said members and including a substantially flat thin spring metal annulus, an annular groove interrupting the inner periphery of the outer member and disposed in substantially the same plane as the plane of the annulus, and a member of resilient material having one portion of the same bent over the outer periphery of said annulus and engaging in said groove and having another portion of the same extending over one face of the annulus, said resilient member before assembly being a substantially flat rubber annulus of substantially uniform thickness, said spring metal annulus being insertable together with said resilient member into operative engagement within the groove by distortion of the annulus from its normally flat form and within its elastic limit, insertion of the annulus together with said resilient member into said groove serving to cause the outer margin of the resilient member to be bent over the outer periphery of the annulus said bent over margin forming a resilient mounting for the metal annulus which holds the metal annulus in interlocked and non-rotatable relation to the outer concentric members.

### 2,712,461 ROTARY SHAFT SEAL

George E. Batchelder, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

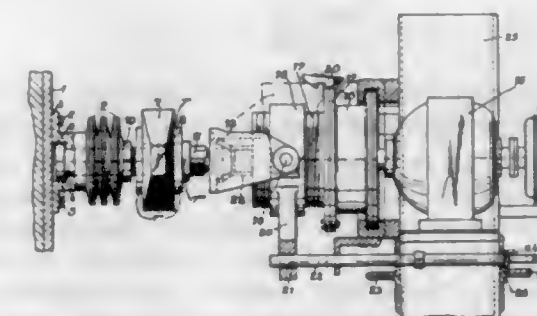
Application May 28, 1952, Serial No. 290,439  
2 Claims. (Cl. 286—11.15)



1. In combination, a support having a bore, a shaft rotatable within said bore, and means for sealing against leakage of fluid through the bore comprising an annular seal member within said bore and surrounding said shaft, said seal member having sufficient radial clearance relative to said shaft and bore to allow substantial axial tilting and radial movement of said seal member, a static resiliently deformable O-ring surrounding and providing floating support for said member in said bore and sealing

the clearance between said member and bore, a second annular seal member surrounding said shaft with sufficient radial clearance relative thereto to allow substantial axial tilting and radial movement of said second seal member, said seal members both having opposed smooth flat radial surfaces in contact in a plane normal to the axis of rotation of said shaft, said second seal member being thimble-shaped having a hollow cylindrical portion extending away from said surfaces and terminating in a toothed end, a cylindrical sleeve fixed to said shaft and having a toothed end engaged with the toothed end of said thimble-shaped member for operatively connecting the sleeve and thimble-shaped member for unitary rotation while permitting relative axial sliding of the latter, a second static resiliently deformable O-ring surrounding said shaft and disposed within the cylindrical portion of said thimble-shaped seal member, a single compression spring surrounding said shaft and reacting between said sleeve and said second O-ring to bias said thimble-shaped seal member into contact with said first seal member and to deform said second O-ring into intimate sealing relation with said shaft and thimble-shaped seal member.

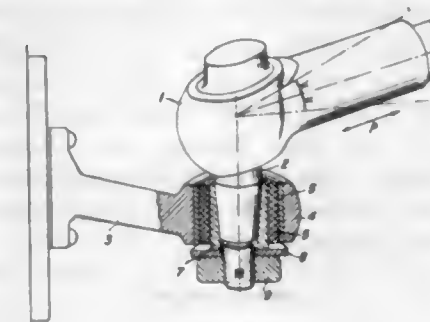
pivotal carrying a latch bar and latching means incorporating an axially sliding movement of an auxiliary sliding latch bar ram shaft pivotally carrying a latch bar, said unitary apparatus comprising: a power driven rotary head; said head having a coupling socket rotatable therewith and engageable with the end of a rotary screw shaft to rotate the same, and said head also having a screw threaded traveling element having a screw threaded engagement with the rotary head and axially movable along the head in the direction of the axis of the rotary head; a pressure piece movable with said traveling element and interposable between the coupling socket on the rotary



### 2,712,462 JOINTED CONNECTING PIECE, ESPECIALLY FOR MOTOR VEHICLE STEERING GEARS

Josef Latzen, Dusseldorf-Oberkassel, Germany, assignor to A. Ehrenreich & Cie., Dusseldorf-Oberkassel, Germany, a firm

Application August 15, 1950, Serial No. 179,531  
2 Claims. (Cl. 287—85)



1. In a connecting joint for motor vehicle steering gears including a joint member securely supported at one end in a housing and having a stud extending from said housing, a socket member adapted to receive said stud and rigidly supported by a lever, the means adapting said joint to absorb thrusts and vibrations axially of said stud while limiting the yield in radial directions, said means comprising a metal sleeve mounted in said socket member, a rubber sleeve disposed within said metal sleeve and around said stud in said socket member, a washer of greater diameter than the diameter of said metal sleeve supported around said stud adjacent the open end of said socket member and a castle nut or the like retaining said washer on said stud and said stud in said socket member, said metal sleeve having an enlarged portion extending toward the housing, a protective shell being disposed around the lower portion of the housing and a rubber ring being supported between said enlarged portion of said sleeve and said protective shell.

head and a said axially slidable latch bar ram shaft for axial movement of the latter, said pressure piece being mounted for pivotal movement on said traveling element so that it can be pivoted into and out of alignment with pressure screw or ram shafts of different door latching means; and means for retaining said traveling element against rotation with its rotary head and shaft when it is desired to use said pressure piece for exerting axial pressure on a said axially slidable latch bar ram shaft, so as to thereby produce an axial sliding movement of the traveling element and its pressure piece by the rotation of said rotary head.

### 2,712,464 DOOR LOCK

Frank R. Collar, Los Angeles, and Jack C. Mitchell, La Crescenta, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California

Application February 27, 1951, Serial No. 212,972  
5 Claims. (Cl. 292—128)



### 2,712,463 OPERATING DEVICE FOR THE LATCHING MEANS OF COKE OVEN DOORS

Georg Henseleit, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application April 18, 1951, Serial No. 221,617  
7 Claims. (Cl. 292—1)

1. Unitary apparatus for selectively operating door latching means of different coke ovens comprising latching means incorporating a rotary pressure screw shaft

1. In door locking mechanism for use in a casing including spaced wall members having aligned circular openings therein for receiving the projecting ends of a pivot member: a swingable lock member of plate material having a multi-sided opening therein; a pivot member positioned in said multi-sided opening, said pivot member being deformed from plate material so as to define wing portions arranged to nonrotatably engage said opening; fingers struck from said wing portions on opposite sides of the lock member for retaining the pivot member against removal from the lock member opening, and said fingers being inwardly spaced from the ends of the pivot member, whereby the ends of the pivot member may be positioned respectively in the openings of said wall members with the adjacent fingers acting to retain the lock member in position between said walls.



2,712,465

**CLOSURE FASTENER**

George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Original application January 31, 1949, Serial No. 73,780, now Patent No. 2,652,275, dated September 15, 1953. Divided and this application August 21, 1953, Serial No. 375,640

4 Claims. (Cl. 292—340)



1. An assembly comprising a stud member and a part having a flange provided with an opening receiving the shank of said stud member and forming a corner area of said part, said stud member comprising a one-piece sheet metal body bent to provide an angular head corresponding to the angularity of said corner area and an integral shank projecting from one end of said angular head, said angular head being secured to the inner surface of said corner area in attached position therein with said shank extending through said flange opening in projecting relation to the outer surface of said flange.

2,712,466

**MATERIAL COLLECTION AND DELIVERY DEVICE**

Clinton G. Light, Radiant Valley, Md.

Application September 9, 1954, Serial No. 455,025

10 Claims. (Cl. 294—50.5)



1. A delivery device including a folding retractable pantograph frame having four pivotally connected links, means on two adjacent of said links for holding said pantograph frame in extended position with one hand, a material holder on one end of a third of said links pivotally connected to one of said two links at the end thereof of opposite said holding means, said material holder including an ejector mechanism having an impelling member for forcibly engaging material held in said material holder for ejecting such material from said holder, said ejector mechanism including means for biasing said impelling member to an extended position and means for drawing said impelling member to a cocked position by folding said pantograph frame to retracted position with the angle between said two links at its maximum, trigger means for tripping said impelling member from its cocked position and for thereby forcibly biasing said impelling member by said biasing means toward the outer end of said material holder.

2,712,467

**MANUALLY OPERABLE HOLE DIGGER**

Charles John Rice, Bexleyheath, England

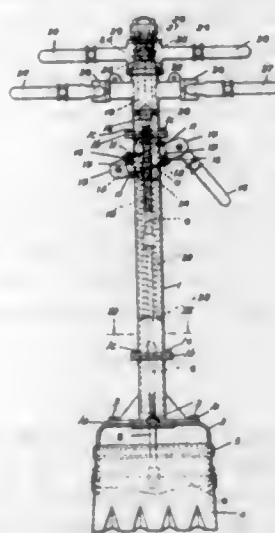
Application July 31, 1950, Serial No. 176,793

Claims priority, application Great Britain August 3, 1949

10 Claims. (Cl. 294—50.8)

1. A manually operated digging implement comprising a tubular stem, two angularly movable blade-like portions

mounted at one end portion of said stem and adapted to be moved into positions in which they are substantially parallel to one another and into positions in which they are inclined to one another so as to form a closed scoop, a pull rod extending along the stem and operatively connected at one end to said blade-like portions, a threaded shaft connected to the other end of said pull rod, a split nut fixedly mounted in said stem so as to engage said threaded shaft when closed, means for opening and closing said split nut, a head portion on said threaded shaft, a tube rotatably mounted in said stem and sur-



rounding the headed end portion of said threaded shaft, the cross section of said tube and head portion being non-circular to permit only relative axial movement between said portion and tube, a ratchet carried by said tube, an actuating handle mounted on said stem remote from said blade-like portions and rotatable about the axis of the stem, and a pawl carried by said handle and engaging said ratchet, said pawl serving upon closing of said split nut, and upon rotation of said handle, to drive said ratchet and effect movement of said blade-like portions in a scoop closing direction.

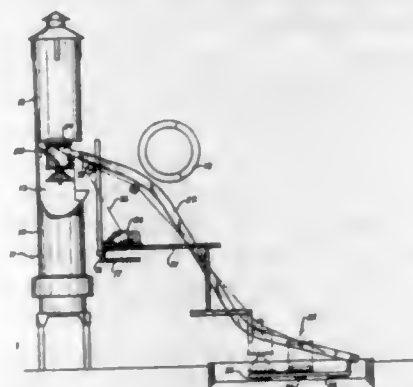
2,712,468

**CONE BOTTOM CHARGING BUCKET FOR CUPOLAS**

Frank H. Fones, Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois

Application April 11, 1949, Serial No. 86,816

11 Claims. (Cl. 294—72)



1. A charging bucket for cupolas and the like comprising a generally cylindrical shell, diametrically opposed trunnions on the shell near the upper end thereof, a cross member supported by the shell, a rod, a universal joint connecting the rod and the cross member, an upright conical bottom for the shell reciprocally mounted on the rod, a latching device on the shell for releasably holding the bottom against the shell, and means for retarding the rate at which the bottom falls from the shell when the latching device is released, said means including a cylinder around the rod fixed to the conical bottom a transverse member on the rod and means within the

cylinder engaging the transverse member opposing rapid downward movement of the cylinder relative to the transverse member.

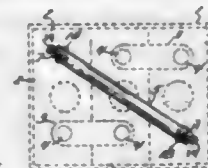
2,712,469

**GRAPPLES FOR STORAGE BATTERY CELL CARRYING**

Fred A. Burnor and Glenn E. McKinley, Toledo, Ohio

Application May 2, 1952, Serial No. 285,652

2 Claims. (Cl. 294—81)



2. A grapple grip having forked ends, a rigid bracket fixed in each of said forked ends and terminating in a supporting bearing axially transverse of the grip direction extent, a link on each side of each bearing, said links diverging in extent to free upper end bearings, levers coplanar with the brackets, each lever having a first arm connected to the free upper end of a link and downwardly therefrom a lever second arm to a jaw intermediate said arms, said levers having overlapping portions, and floating fulcrum bearings relatively swingable toward and from each other and assembling the overlapping portions for jaw pairs to oppose and move to align in work gripping relation upon increasing divergence between the links upper free end bearings by lifting the grip to move the supporting bearings away from the fulcrum bearings in increasing the mechanical advantage for the links on the jaws.

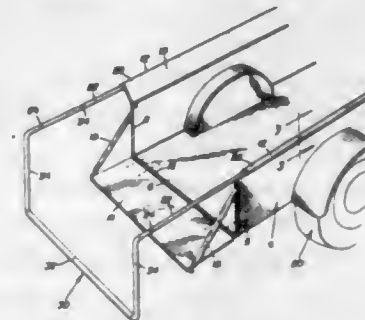
2,712,470

**TRUCK BODY WITH ADJUSTABLE LOAD SUPPORTING EXTENSION**

Albert S. Cardini, Ironwood, Mich.

Application April 24, 1953, Serial No. 350,857

3 Claims. (Cl. 296—26)



1. In combination, a wheel supported truck body having a closable tail gate opening at the rear loading and unloading end, said body having a horizontal bottom wall, a pair of spaced parallel side walls joined with and rising vertically from said bottom wall, the upper lengthwise edge portions of said side walls having horizontally disposed tubular reinforcing members which are open at their rear ends, said reinforcing members constituting sleeve-like elongate bearings, a tail gate hinged to said bottom wall at the open rear end of the body, means suspending the tail gate in an open position which is coplanar with said bottom wall, an extra load carrying device embodying a frame, and said frame having coplanar spaced parallel elongate horizontally disposed arms fitting snugly but telescopically and slidably into said bearing members, said frame also including a depending U-shaped member which is directly cooperable with the open tail gate, said member having a bight portion which is disposed in spaced parallelism rearwardly of and coplanar with said tail gate and is adjustable by way of the sliding movement of the arms in the bearing members toward and from the rear trailing end of said gate, and vertical limbs

608 O. G.—7

at right angles to and joined with the trailing ends of said arms, said limbs being equal in length to the depth of said body, said arms and bearing members constituting the primary means for supporting said device separably and detachably on said body.

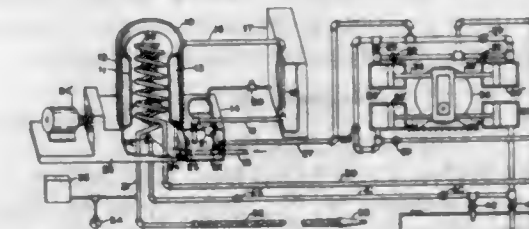
2,712,471

**APPARATUS FOR THE PRODUCTION OF CONTROLLED SATURATED STEAM VAPOR**

George Leo Hall, Atlanta, Ga.

Application June 24, 1952, Serial No. 295,315

4 Claims. (Cl. 299—84)



1. In a system of the class described, a reservoir, a burner in heat exchange relation with said reservoir, a float valve tank in vapor exchange relation with said burner, a supply pipe line passing through said float valve tank for supplying water to said reservoir, a solution tank connected to supply solution to said float valve tank, pipe means in heat exchange relation with said solution tank and connecting said reservoir to said float valve tank for the passage of water from said reservoir to said float valve tank, a float valve in said supply pipe line responsive to the level of liquid in said float valve tank to control the level of liquid therein, a heating coil in heat exchange relation with said burner, fluid pumping means connected to pump fluid from said float valve tank to said heating coil, and a flexible hose connected to said heating coil and provided with a nozzle for dispensing fluid from said heating coil.

2,712,472

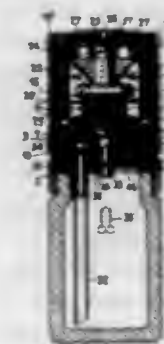
**POCKET SPRAYERS**

Peter Florjančič, Monte Carlo, Monaco

Application August 4, 1953, Serial No. 372,229

Claims priority, application Switzerland August 7, 1952

9 Claims. (Cl. 299—89)



1. A pocket sprayer with a receptacle for the substance to be sprayed which is closed by a head piece having an atomising nozzle arranged therein; characterised by the feature that there is provided, on the top of the head piece, on a shoulder in the peripheral surface of which the aperture of the sprayer is provided, a central extension which is provided with an external screw-thread and on which there can be screwed a ring which has, on its side that is to lie against the head piece, a widened part in which a packing sleeve is inserted and which, when the ring has been completely screwed on the outer screw-thread of the extension of the head piece, covers the shoulder of the head piece together with the aperture of the sprayer in a sealing manner and, when the ring is located in an outer limiting position, which is determined by a stop, frees the aperture of the sprayer, and in which there is fixed on the said ring a sleeve, in the part of which that projects over the ring, a cap, which is acted upon by a compression spring and on the open



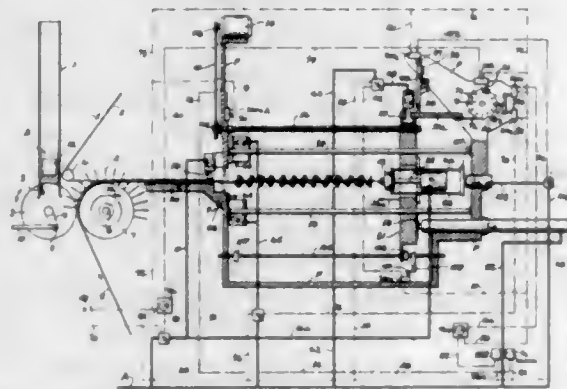
edge of which that is to lie against the ring a packing ring that rests resiliently on the inner surface of the sleeve, is arranged, is displaceably guided between two limiting positions, there being provided, in the extension of the head piece, a central bore and an air conduit which branches therefrom and is coaxial with the aperture of the sprayer and through which at least a part of the air, which is compressed in the sleeve by pressing the cap into the latter, is led to the atomising nozzle, means being provided for the purpose of, when the ring has been completely screwed on the outer screw thread of the extension of the head piece, keeping the cap, in opposition to the action of the compression spring acting thereon, in its inner limiting position with simultaneous sealing closure of the central bore of the extension.

2,712,473

**MACHINE FOR MAKING BRUSHES**

Ira Hertzberg, Yonkers, N. Y., assignor to H. Hertzberg & Son, Inc., New York, N. Y., a corporation of New York

Application April 25, 1951, Serial No. 222,824  
5 Claims. (Cl. 300—2)



1. A machine for making a brush element which consists of a plurality of intertwined wires which clamp intermediate brush bristles, said machine comprising a frame which has longitudinal guide means, a carriage which is longitudinally movable to-and-fro on said guide means in a forward non-operating stroke to a front initial position and in a rearward operating stroke to a rear final position, a main driving shaft, a main driven shaft, a releasable main clutch to couple and uncouple said main driving shaft and said main driven shaft, said main clutch being biased to coupling position, a control pin for said main clutch, said control pin being biased to a normal position in which said main clutch remains coupled, said control pin being movable to an operating position in which it holds said main clutch uncoupled, a feed disc, said feed disc being adapted to be oscillated between a receiving position and an outlet position, means connecting said main driven shaft and said feed disc and adapted to so oscillate said feed disc at a selected frequency, said feed disc having a peripheral recess to receive bristles in its said receiving position, a turnable transfer wheel which has peripheral pockets, said transfer wheel having a drum, a flexible band, one end of said band being fixed to said drum, the other end of said band being fixed to said carriage, a part of said band being coiled around said drum, said band being operative to turn said transfer wheel during said operating stroke to take up successive supplies of brush bristles from said peripheral recess in said peripheral pockets, said disc being oscillated with sufficient frequency to deliver a supply of bristles from said peripheral recess successively to said pockets, means to turn said transfer wheel reversely during said non-operating stroke, means to supply a plurality of transversely spaced longitudinal wires through said pockets to locate and grip the bristles in said pockets between said wires, a movable clamp which is movable in a clamping zone which is located rearwardly of said transfer wheel, movable cutting means which are movable in a cutting zone

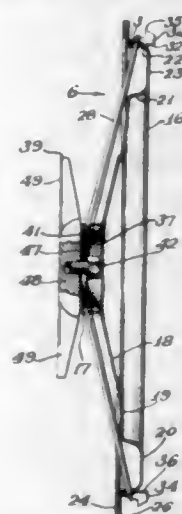
which is located rearwardly of said clamping zone and forwardly of said final position, a motor mounted on said carriage, said motor having a longitudinal shaft and being operable by compressed air, a chuck, said chuck having a chuck head which is fixed to said shaft and chuck gripping means movably connected to said chuck head, a longitudinal worm, worm-rotating means connected to said worm and adapted to rotate said worm around its longitudinal axis, a worm-follower movably mounted on said carriage and biased to normal position in which it is unmeshed from said worm, a carriage-actuating cylinder which has a carriage-actuating piston which is adapted to move said carriage in its forward non-operating stroke, additional respective cylinders which have respective pistons which are respectively adapted to operate said movable clamp and said cutting means and to shift said chuck gripping means to release position, said frame having control means adapted to shift said chuck gripping means to gripping position substantially at the end of said non-operating stroke to grip the wires, a supply pipe which is adapted to supply compressed air, said supply pipe being connected to said motor and said cylinders by respective connecting pipes through respective movable control valves, electro-mechanical means for operating said control valves, a circuit which has switches for controlling the supply of electric current to said electro-mechanical means, switch-operating means operated by said carriage in a cycle to close said clutch gripping means substantially at the beginning of said operating stroke and to keep said clutch gripping means closed during substantially the entire operating stroke and to release said clutch gripping means substantially at the beginning of said non-operating stroke, and to mesh said worm-follower with said worm at the beginning of said operating stroke and to keep said worm-follower meshed with said worm during said operating stroke and to unmesh said worm-follower from said worm at the end of said operating stroke and to keep said worm-follower unmeshed from said worm during said non-operating stroke, and to move said clamp to clamping position substantially at the end of said operating stroke, and to supply compressed air to said motor to rotate said chuck and to intertwist said wires after said clamp has been moved to clamping position, and to operate said cutting means to cut said intertwined wires subsequent to said intertwisting and to keep said control pin in operating uncoupling position during the non-operating stroke of said carriage.

2,712,474

**VEHICLE WHEEL COVER STRUCTURE**

James K. Gaylord, Chicago, Ill., assignor to Gaylord Products, Incorporated, Chicago, Ill., a corporation of Delaware

Application February 2, 1953, Serial No. 334,490  
9 Claims. (Cl. 301—37)



1. In a vehicle wheel cover structure, a cover plate having a cup-shape hub portion and an annular wall,

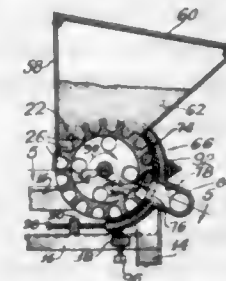
said hub portion and annular wall having circumferentially spaced apertures, wire spokes radiating adjacent the outboard face of the cover plate with their ends projecting through said apertures, said spokes having heads on their inner ends for engagement with an inner annular surface of the hub portion, and clamping means including an expandable ring having a peripheral surface movable radially toward and tightly engaging said heads against said annular surface.

2,712,475

**AIRGUN MATERIAL FEEDER**

Adolph F. Lukes, Waterloo, Iowa

Application December 23, 1949, Serial No. 134,832  
3 Claims. (Cl. 302—49)



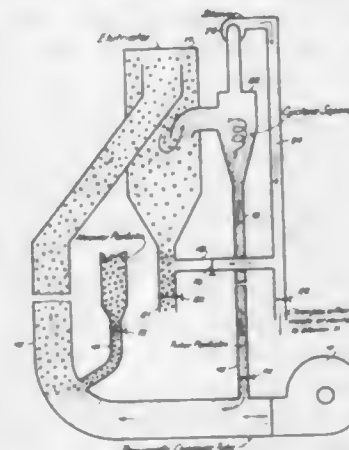
1. A device for use in effecting transfer of material in bulk to a substantially continuous discharge stream thereof comprising, a supporting frame, a drum rotatably mounted on said frame with its axis substantially horizontal, said drum having elongated axially extending pockets spaced circumferentially in its periphery, means above said drum for feeding material into said pockets as said drum rotates, an arcuate discharge plate registering with a portion of the periphery of said drum, a resilient liner positioned between said discharge plate and said drum and engaging said drum, said discharge plate and resilient liner having spaced apart inlet and outlet openings therethrough with which the material filled pockets register as the drum rotates, said openings being adapted for connection with conduits for conveying an air stream through said openings and registering pockets, said resilient liner having a leading and trailing edge respectively across which a pocket first and last passes as the drum rotates, said leading edge of the liner being inclined with respect to the longitudinal edges of said elongated pockets, whereby different portions of the longitudinal edges of the pockets successively pass the leading edge of the liner to provide for smoother movement between the drum and the liner.

2,712,476

**METHOD OF CONVEYING GRANULAR SOLIDS**

John Happel, Brooklyn, N. Y.

Application April 24, 1950, Serial No. 157,787  
5 Claims. (Cl. 302—53)



1. A method of transporting solid particles from one station to another and for reducing attrition losses of said particles during such transportation of said particles,

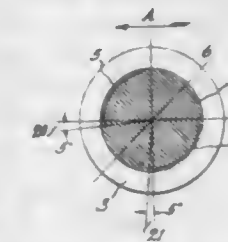
which comprises creating between said stations a current of gas having a velocity insufficient by itself to transport the solid particles between said stations, said current of gas being laden with solid particles finer than the first mentioned particles and in sufficient concentration to float said first mentioned particles in said current when said first mentioned particles are introduced in said current and to transport said first mentioned particles when injected into said current, and injecting the first mentioned particles into said current for conveyance thereby at a velocity less than that of the gas and of the finer particles in said current.

2,712,477

**VEHICLE AXLE PRESSURE RELIEF**

Alfred N. Clough, Inglewood, Calif.

Application October 31, 1952, Serial No. 317,906  
7 Claims. (Cl. 308—16)



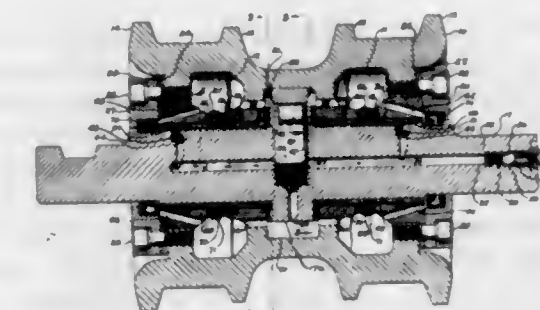
1. The combination of a stationary shaft and a bearing rotatable thereon, the shaft having diametrically opposed recesses in the peripheral surface thereof, one recess rising from the bottom of the shaft along an arc of less than ninety degrees in one direction, the other recess rising from the horizontal plane through the center of the shaft along an arc of less than ninety degrees in the opposite direction.

2,712,478

**PRESSURE LUBRICATED TRACK TRACTOR ROLLER**

William Craig Carroll, Portland, Oreg.

Application September 25, 1951, Serial No. 248,238  
4 Claims. (Cl. 308—107)



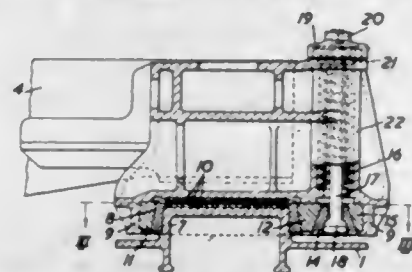
1. In a track tractor roller having an axle with a center thrust portion, a roller, flanged sleeve bearings having confronting surfaces against the center thrust portion; lubricant seals between the roller and the axle; a lubricant pump within the axle and a lubricant system with passages to the bearing surface; restraining means on the bearing surface to restrain the flow of lubricant; annularly shaped lubricant storage spaces within the roller with passages to said lubricant pump and connecting passageways from the seal to said lubricant storage spaces whereby lubricant is forced by the pump to the bearing surfaces and retained therein at high pressures, and flows outwardly therefrom at reduced pressure to the said annularly shaped lubricant storage spaces, which are connected to the lubricant pump, in order that the lubricant pressure behind the seals can be at relatively low pressure to permit the extrusion of a slight amount of lubrication past the seal.



# 2,712,479 PIVOT CONNECTION FOR ARTICULATED VEHICLES

James Hadfield, Romiley, Chester, England, assignor to Beyer Peacock & Company Limited, Gorton, England, a British company

Application May 16, 1952, Serial No. 288,250  
5 Claims. (Cl. 308—137)

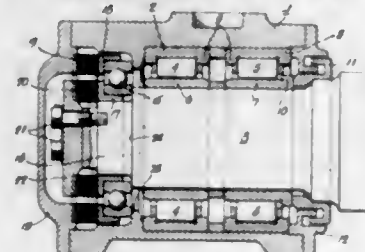


1. A pivot connection for articulated vehicles, comprising a male member, a female member including two parts each partially embracing said male member, a wedge movable for adjusting one of said parts by wedge action and thereby causing it to take up wear, and spring means biasing said wedge in the direction for taking up wear whereby wear is taken up automatically, the inclination of said wedge being in excess of the critical value at which the movement of the wedge is reversible, whereby a sufficient thrust applied to said one part in the direction opposite to that for taking up wear will cause said one part to move and thereby force withdrawal of said wedge in opposition to said spring means.

# 2,712,480 AXLE BOXES

Viktor Synek, Goteborg, Sweden, assignor, by mesne assignments, to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application January 12, 1953, Serial No. 330,769  
2 Claims. (Cl. 308—180)



1. In an axle box assembly for railway vehicles and the like, a box, an axle journaled in and axially displaceable relative to the box, a separate bearing for taking up thrust forces in both directions between said box and axle, said bearing comprising two annular members and interposed anti-friction elements, abutments on the axle and box for limiting the axial movements of the respective annular bearing members in one direction, members fixed respectively to the axle and box opposite to the respective abutments, and resilient members disposed between the said respective annular members and the respective fixed members so as to act independently through the respective annular members to resist movements of the bearing in the opposite direction with respect both to the axle and box, whereby one of said resilient members exerts an energy absorbing effect upon displacement of the axle relative to the box in one direction and the other resilient members exerts an energy absorbing effect upon displacement in the opposite direction.

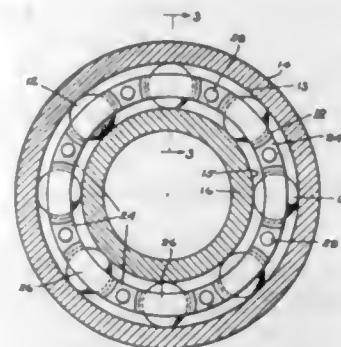
# 2,712,481

SEPARATOR FOR ANTI-FRICTION BEARINGS  
Harry D. Martin, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 24, 1953, Serial No. 338,355  
8 Claims. (Cl. 308—201)

1. In a separator for spacing rolling elements between a pair of race rings, an annular member provided with a

plurality of peripherally spaced pockets, a rolling element in each pocket and engaging both race rings, a lining of resiliently deformable cushioning material in each pocket

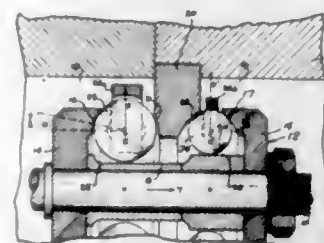


and bonded to the annular member, and said lining surrounding the rolling element in a pocket and yieldably cushioning its movement in the separator.

# 2,712,482

BALL BEARING THRUST RACES  
Joseph Featonby, Ottawa, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a corporation of Canada

Application January 16, 1952, Serial No. 266,689  
Claims priority, application Canada December 6, 1951  
5 Claims. (Cl. 308—233)



1. A thrust bearing assembly for use with a shaft operating during normal operation with a constant predetermined axial thrust and at a high speed which is within a limited predetermined range, comprising a main bearing and a locating bearing, said main bearing being defined by the inwardly inclined surface of a first axially fixed annular race facing substantially parallel to the axis and the inwardly inclined surface of a second opposed annular race secured on the shaft and facing substantially parallel to the axis, said first and second races relatively rotating at a speed within the said predetermined range and being mounted so as to be capable of a small amount of relative axial displacement, said locating bearing being defined by the inwardly inclined surface of a third axially fixed annular race facing substantially parallel to the axis and oppositely to the first race and the inwardly inclined surface of a fourth annular race fixed on the shaft facing substantially parallel to the axis and opposite to the third race, the third and fourth races relatively rotating at a speed within the said predetermined range and each of the third and fourth races being in fixed axial relationship with the first and second races respectively, balls in both bearings, the balls in the bearings being of such mass and at such distances from the shaft axis and the contact angles of the balls with the races being such that the balls of the main bearing exert a substantially greater axial component of centrifugal force than the balls of the locating bearing, the axially fixed race of the main bearing facing in the direction from which said thrust is exerted, the contact angles made by the balls and the inwardly inclined surfaces of the races being such that the axial thrust component of the centrifugal force of the balls in the main bearing under normal operating conditions balances the total of the applied axial thrust and the axial thrust component of the centrifugal force of the balls in the lo-

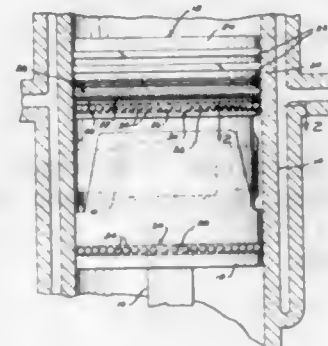
cating bearing under the same conditions, and wherein the balls are in a condition of equilibrium in contact only with the spacing elements and the outer inwardly inclined surfaces of the races.

# 2,712,483

FRICTION-REDUCING PISTON CONSTRUCTION  
FOR INTERNAL COMBUSTION ENGINES

Patrick J. Claccia, Westport, Conn.

Application May 15, 1953, Serial No. 355,240  
2 Claims. (Cl. 309—4)



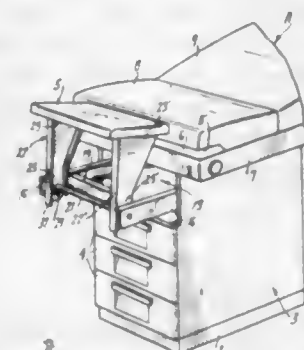
1. In a piston for an internal combustion engine cylinder, a piston body having cylindrical portions at its opposite ends, one of said portions having thereon piston ring means adapted to engage an adjacent cylinder wall surface, each portion being formed with a circumferential groove of constant depth extending continuously therearound; an annular ball retainer mounted in each of said grooves and formed to a constant width throughout its circumference, the retainer having ball seats spaced uniformly apart throughout its circumference; and ball elements mounted in said seats in spaced relation to one another and projecting outwardly from the retainer a distance sufficient to rollably engage the cylinder wall surface and space the piston body inwardly therefrom.

# 2,712,484

PHYSICIAN'S EXAMINING TABLE

Roy T. Adolphson, Webster Groves, Mo., assignor to Shampaine Company, St. Louis, Mo., a corporation of Missouri

Application July 7, 1953, Serial No. 366,425  
3 Claims. (Cl. 311—7)



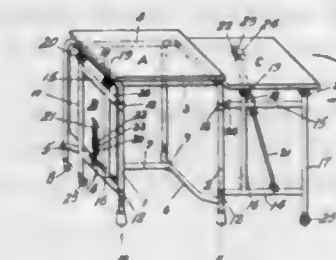
1. In a physician's examining table comprising a horizontal top having a head-end and a foot-end, a base mounted on the under side of the top in supporting relation thereto, said base being provided with a hollow space extending inwardly from said foot-end and an aperture opening from said space outwardly through the foot-end; a disappearing leg-rest comprising horizontally shiftable slide means operatively mounted within said space, a leg-rest member adapted to fit closurewise across said aperture, said leg-rest member having an inwardly extending arm rockably connected at its inner end to the slide means and stop means on the slide for optional engagement with the arm to hold the latter in horizontal position as a forward continuation of the slide.

# 2,712,485

OFFICE MACHINE STAND WITH FOLDABLE  
ACCESSORY TABLES

John E. Greve, Koln-Buchforst, Germany

Application February 7, 1952, Serial No. 271,584  
8 Claims. (Cl. 311—60)



1. In an office table of the class described a principal square table having a principal table board and a principal stand frame formed of pipes and comprising vertical stand pipes at the corners, an accessory stand having a frame and a table board foldable about a horizontal axis on said accessory stand frame means to support said accessory top in the horizontal position, two sleeves at the one side of the accessory stand frame located one above the other, surrounding one of said vertical stand pipes, and being swingable and vertically movable thereon, and a castor at the lowermost end on the outer side of the accessory stand frame said accessory table with its board lifted in position for use may be swung close to the operator at one side of the principal table adjacent said vertical stand pipe and with its board in folded down position may be swung closely to the principal stand frame, said accessory stand being sustained by said castor which responds to the unevennesses of the floor which permits vertical shifting of said sleeves on their vertical stand pipe.

# 2,712,486

LOCKING AND RELEASING MECHANISM FOR  
FOLDABLE TABLE LEGS

George H. Kleinsorge, Chicago, Ill.

Application April 17, 1953, Serial No. 349,416  
2 Claims. (Cl. 311—87)



1. A collapsible table comprising a flat top, first and second U-shaped supporting members foldable toward each other, each including at least one bracing member and a locking device including a spring and a slotted bracket secured to said flat top, said supporting members being pivotally supported on said slotted brackets relative to said flat top and said locking devices, each of said bracing members extending substantially parallel to the slotted bracket and having a pin at one end in sliding engagement with the slotted bracket and having pivotal engagement at the other end with the supporting member, each said spring having a transverse groove and being biased towards the pin in the slotted member, said first supporting member being of less width than said second supporting member and said spring of said at least one bracing member of said second supporting member being aligned with a leg of said first supporting member when in folded condition for displacement thereby to release the pin in the slotted bracket of said second supporting member.



2,712,487

## TOILETRY KIT

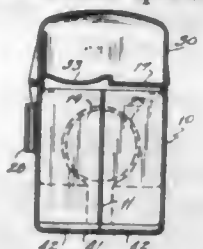
Homer Wesley Miller, Breckenridge, Tex.

Application January 14, 1952, Serial No. 266,384

2 Claims. (Cl. 312-206)

1. In a portable toilet kit having means thereon for removably supporting the same on a wall bracket, the combination comprising a casing having a recess formed in each end, a circular receptacle hinged to a wall of each of said recesses and capable of being folded into a removable tray supported in the top of said casing and

having a transversely concave recess formed longitudinally thereof, a plurality of slotted spaced apertures arranged



along said tray on one side of said recess, and a hinged cover for said casing and said tray.

## CHEMICAL

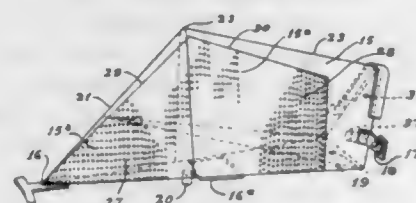
2,712,488

## METHOD AND APPARATUS FOR WASHING PULP

Antti Jussi Brax and Lennart Markila, Kotka, Finland

Application November 12, 1949, Serial No. 126,726

9 Claims. (Cl. 8-156)



1. A strainer compartment for pulp washing apparatus which comprises, an elongated base, said base increasing in width from one end to the other thereof, an imperforate end wall extending substantially laterally upwardly from said base, and a pair of side walls extending upwardly from the longitudinal edges of said base, said side walls converging into a joining element along the tops thereof, and said side walls being engaged with said end wall, forming an enclosure defined by said base, said end wall, said joining element and said side walls, said side walls being formed with perforations throughout a substantial portion of their height for draining liquid therethrough, and said base being provided with means for draining off said liquid.

5. The process of washing pulp blown from a digester to remove the cooking liquor therefrom and recover such liquor in substantially undiluted state which comprises, confining a quantity of pulp carrying such liquor, washing said cooking liquor from said pulp by introducing washing liquid on top of said pulp, drawing off the substantially undiluted cooking liquor washed from said pulp through an area extending both longitudinally and vertically into said quantity of pulp and terminating said drawing action when cooking liquor diluted by said washing liquid commences to flow through said area.

2,712,489

## METHOD OF FORMING STAPLE-LENGTH FIBERS BY EXTRUSION

William G. Abbott, Jr., Wilton, N. H.

Application September 29, 1948, Serial No. 51,787

11 Claims. (Cl. 18-54)

1. Method of forming staple-length fibers by extrusion of flowable materials adapted to interrupt passage of each other through extrusion orifices arranged in a group, at least one of said materials being a filament-forming material immiscible with another of said materials to the extent of maintaining a boundary surface therewith during extrusion, the method comprising caus-

ing such boundary surface to approach such group of orifices in relatively inclined relation thereto so that



bodies of said one material and of said other material cover the orifices of said group sequentially.

2,712,490

## PROCESS FOR SPINNING SWOLLEN POLYVINYL CHLORIDE

René Emile Fernand Stuchlik, Villeurbanne, France, assignor to Societe Rhodlaceta, Paris, France

No Drawing. Application June 22, 1950,

Serial No. 169,770

12 Claims. (Cl. 18-54)

1. A process for converting polyvinyl chloride into spun products, said process comprising subjecting polyvinyl chloride having a molecular weight of at least 15,000 to swelling by a liquid medium which consists of a non-solvent swelling fluid for the polyvinyl chloride used as starting material in an amount which is at least equal to the weight of the polyvinyl chloride and at most equal to the maximum amount which the polyvinyl chloride can retain by swelling, causing the resulting mass to extrude through the orifices of a spinning plate at a temperature above the boiling temperature of the liquid and a higher pressure than the vapor tension of the liquid at that temperature, and subsequently removing the liquid from the extruded product.

2,712,491

## PREPARATION OF AMMONIUM CYANATE FROM UREA

Leslie G. Boatright, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 16, 1954,

Serial No. 416,704

6 Claims. (Cl. 23-75)

1. In a method for preparing ammonium cyanate which comprise the steps of: continuously converting urea to a vapor in a heated zone, continuously withdrawing the latter vapor to a cooling zone maintained at a temperature below 100° C. and recovering ammonium cyanate, the improvement in combination therewith comprising: flash vaporizing urea within a period not to exceed about 15 seconds in a heated zone maintained at a temperature of at least 275° C.

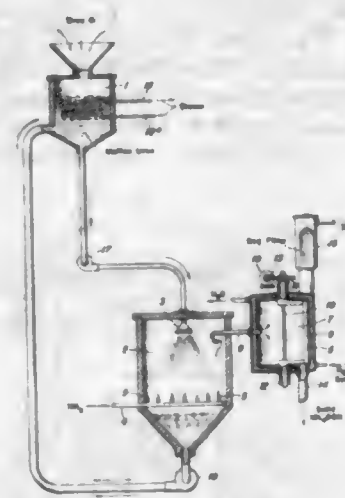
2,712,492

## METHOD OF PREPARING AMMONIUM CYANATE

Johnstone S. Mackay, Pittsburgh, Pa., and Kenneth A. Sund, Glenbrook, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application April 14, 1954, Serial No. 423,154

5 Claims. (Cl. 23-75)



1. The method of preparing ammonium cyanate which comprises heating urea until molten in a vessel; continuously spraying said molten urea into a reaction zone; countercurrently contacting it with preheated ammonia gas, said ammonia being introduced into the reaction zone at a temperature of at least about 150° C. whereby at least a portion of the urea is vaporized; collecting and recycling any unvaporized molten urea in and from said reaction zone to said vessel; withdrawing from the reaction zone resultant vapors and ammonia gas to a cooling zone maintained at a temperature below about 75° C.; condensing said vapors in the latter zone; and recovering ammonium cyanate from said cooling zone.

2,712,493

## MANUFACTURE OF CYANOGEN

William Mojé, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 17, 1953,

Serial No. 342,990

10 Claims. (Cl. 23-151)

1. The method of preparing cyanogen which comprises reacting hydrogen cyanide with at least the stoichiometric quantity of air in the presence of a metallic silver catalyst and at a temperature of about 300-600° C. and subsequently separating cyanogen from the resultant gases.

2,712,494

## PREPARATION OF PHOSPHORUS OXYCHLORIDE

Paul Dupont, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny &amp; Crey, Paris, France

No Drawing. Application January 16, 1951,

Serial No. 206,290

3 Claims. (Cl. 23-203)

1. A method of making phosphorus oxychloride that comprises impregnating charcoal with a solution of orthophosphoric acid until the P<sub>2</sub>O<sub>5</sub> corresponds to about 50% of the weight of the grain, dehydrating the acid on the charcoal at a temperature about 500° C. to a constitution approximating metaphosphoric acid, passing chlorine gas through the impregnated charcoal at a temperature between about 300 and about 700° C. with sufficient velocity to keep the grains in agitation at all times, thereby completing the reaction within a period of time of the order of seconds, and recovering the phosphorus oxychloride.

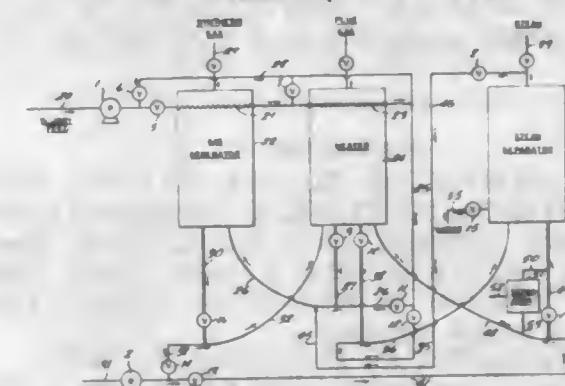
2,712,495

## CONVERSION OF A CARBONACEOUS MATERIAL-WATER SLURRY

Alexander B. Clarke, Chagrin Falls, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application October 6, 1951, Serial No. 250,126

12 Claims. (Cl. 48-206)



1. An improved process for the treatment of a suspension of carbonaceous material in water to prepare steam and water gas by the water-gas reaction between said carbonaceous material and the water, which comprises dividing the suspension into two portions and heating a first portion of the suspension in a gas generator under pressure by the transfer of heat from hot fluidized heat transfer material to volatilize said water into steam at water-gas reaction temperatures and to convert carbonaceous material and steam into water gas, separately withdrawing the resulting water gas as a product of the conversion from the cooled heat transfer material, passing said cooled heat transfer material with air to a heating zone, passing the second portion of the suspension to a steam separator in the presence of heated heat transfer material, drying the carbonaceous material in said second portion by volatilizing the water therein to steam and separately removing the steam from the heat transfer material and the carbonaceous material in the separator as a product of the volatilization, passing at least a portion of the heat transfer material and dried carbonaceous material with air into said heating zone, burning said carbonaceous material in the heating zone in the presence of the air to reheat said heat transfer material, and recycling said reheated heat transfer material to said gas generator and to said steam separator.

2,712,496

## JET FUEL

Sol Skolnik and Howard W. Kruse, Inyokern, Calif., assignors to the United States of America as represented by the Secretary of the Navy

No Drawing. Application November 19, 1948,

Serial No. 61,141

1 Claim. (Cl. 52-.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
A fuel comprising approximately 82% aniline by weight and 18% hydrazine by weight.

2,712,497

## JET ENGINE FUEL

Homer M. Fox and Sylvester C. Britton, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 28, 1949,

Serial No. 124,245

14 Claims. (Cl. 52-0.5)

1. An improved jet engine fuel consisting essentially of hydrocarbon fuel materials and at least one aromatic hydrocarbon gum inhibitor, said hydrocarbon fuel material conforming to the equation

$$\frac{R-1.344}{0.00152N} \geq 1$$

where R is refractive index at 68° F. and N is AN Performance No., ASTM (motor) method and compris-



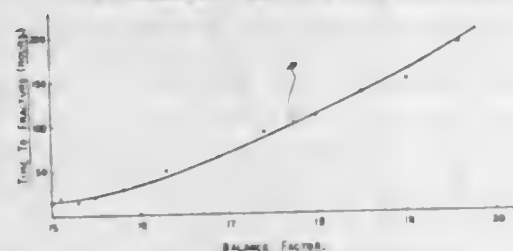
ing between 5% and 50% by volume of at least one diolefin boiling within the range of between 90° F. and 500° F., and between 45% and 90% by volume of at least one cycloparaffin having more than six carbon atoms per molecule, and said gum inhibitor forming between 1% and 10% by volume of the fuel having at least two substituent groups selected from the group consisting of —OH and —NH<sub>2</sub> attached to an aromatic nucleus, said fuel having a boiling point between 90° F. and 500° F.

2,712,498

# NICKEL CHROMIUM ALLOYS HAVING HIGH CREEP STRENGTH AT HIGH TEMPERATURES

Harold Ernest Gresham, Little Eaton, Adam Dunlop, Alveston, and Marcus Alan Wheeler, Darley Abbey, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application May 23, 1949, Serial No. 94,816  
Claims priority, application Great Britain June 1, 1948  
8 Claims. (Cl. 75—171)



1. A hot-workable nickel-chromium base alloy having a life to fracture under load of 15 long tons per square inch at 815° C. substantially in excess of 38 hours, said alloy consisting by weight approximately of 10% to 40% cobalt, 10% to 30% chromium, each of the three hardening elements molybdenum, aluminum and titanium within the respective approximate ranges 2% to 18% molybdenum, 0.2% to 8.6% aluminum and 0.2% to 4.4% titanium, the impurities iron and carbon not exceeding about 5% iron and 0.5% carbon, and the balance essentially nickel, said alloy being characterized in that the sum of the percentage of molybdenum plus twice the percentage of aluminum plus four times the percentage of titanium equals a figure within the range of 16 to 20.

2,712,499

# COATED CEREAL PRODUCTS AND PROCESS FOR PREPARING THE SAME

Raymond La Pierre, Iselin, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey  
No Drawing. Application September 5, 1952,  
Serial No. 308,137

17 Claims. (Cl. 99—11)

1. The process for preparing white coated, enriched cereal granules that comprises applying an organic solvent solution of an essentially water-insoluble coating agent to a mass of enriched granules while tumbling the same, dusting the moist granules with a powdered whitening agent and continuing to tumble the same until the solvents are substantially removed, and repeating the applications of film forming agent and whitening agent to build up on the granules an outer coating of progressively increasing opacity and whiteness thereby to obtain coated enriched granules having a color and appearance substantially the same as white unenriched cereal granules.

2,712,500

# BEER FOAM STABILIZATION

Miles A. Weaver, Ithaca, and George K. Greminger, Jr., Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware  
No Drawing. Application September 21, 1953,  
Serial No. 381,494

6 Claims. (Cl. 99—48)

1. The method of improving the foam stability of fermented malt beverages which consists in incorporating

in such a beverage from 0.005 to 0.05 per cent by weight of a hydroxypropyl methyl cellulose having from 0.05 to 0.2 hydroxypropyl and from about 1.5 to 2 methoxyl groups per Cs unit, and of a type whose 2 per cent solution in water at 20° C. has a viscosity of at least 1000 centipoises.

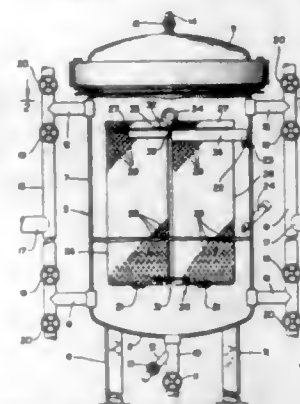
2,712,501

# TREATMENT OF COFFEE

James F. Hale, Syracuse, N. Y., Robert B. Nottingham, Richmond, Va., and Edward W. Pitz, Jr., Westfield, N. J., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

Application April 9, 1954, Serial No. 422,057

8 Claims. (Cl. 99—71)



2. The method of treating coffee comprising subjecting coffee beans to saturated steam generated from moisture other than that contained in the beans at a temperature within the range of 338° F. to 435° F. and at a pressure within the range of 100 to 350 pounds per square inch gauge in a closed zone for a period within the range of 2 to 15 minutes, simultaneously bleeding off from the closed zone part of the steam and constituents that are evolved from the beans and entrained in the steam, gradually reducing the pressure in the closed zone to atmospheric pressure over a period within the range of 30 seconds to 5 minutes, successively grinding and extracting the product of the preceding step with water, and adjusting the pH of the resulting extract with a solution comprising a basic compound.

2,712,502

# METHOD OF PRODUCING FOOD PRODUCTS FROM COCOANUTS

Ramón Lopez-Irizarry, San Juan, Puerto Rico  
No Drawing. Application December 3, 1952,  
Serial No. 323,940

6 Claims. (Cl. 99—125)

1. The method of producing food products from cocoanuts which comprises collecting the milk from fresh tree ripened cocoanuts and immediately pasteurizing said milk, immediately separating the meat from the shells of said cocoanuts and immediately comminuting said meat, imbuing said meat with alcohol as soon as it is comminuted, raising the temperature of the pasteurized milk to the boiling point and adding the boiling milk to the alcohol imbued meat, subjecting the hot milk and meat mixture to pressure to extract a milk juice emulsion, adding boiling water to the meat solids remaining after said extraction, subjecting the hot water and meat mixture to higher pressure to extract a dilute juice emulsion, combining said emulsions to form a diluted milk juice emulsion, refrigerating said latter emulsion to solidify the fat and thereby separate it from the soluble portions of said emulsion, separating the solidified fat and soluble portions, filtering the soluble portion to produce an alcohol containing coconut flavoring extract, heating the fat portions to liquify them, filtering the fat portions to produce a pure coconut oil and a protein containing residue, and adding said protein residue to the meat solids left from the second extraction to form a food product.

2,712,503

# METHOD OF TREATING FOOD STUFFS

Jens Christian Christensen Dyekjaer, Esbjerg, Denmark  
No Drawing. Application October 10, 1951,  
Serial No. 250,789

Claims priority, application Denmark October 13, 1950  
3 Claims. (Cl. 99—166)

1. A method for the simultaneous formation of an ice glaze enveloping the surface of frozen foodstuffs and an air-tight protective impervious coating surrounding said ice glaze, which comprises the steps of subjecting the foodstuffs to a quick-freezing process at a temperature of about —20° C. and applying molten polythene at a temperature of about 115° C. to the surface of said foodstuff, thereby producing a shock effect causing finely divided ice crystals to be extracted from the interior of the foodstuff and to form an ice glaze on the surface thereof surrounded by a continuous coating of polythene formed by the solidification of the molten polythene upon contacting the surface of the frozen foodstuff.

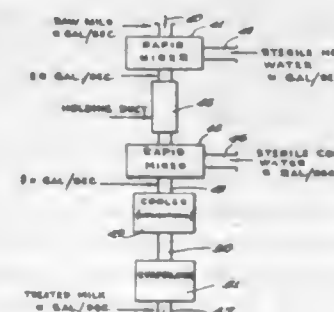
2,712,504

# METHOD FOR TREATMENT OF FLUIDS REQUIRING STERILIZATION OR PASTEURIZATION

Wallace H. Coulter, Chicago, Ill.

Application August 24, 1951, Serial No. 243,478

5 Claims. (Cl. 99—212)



4. The method of treating milk which comprises evaporating the milk to concentrate the same, then heating the same rapidly to sterilize the same by rapidly intermixing the same with heated water, then suddenly lowering the temperature thereof by rapidly intermixing the same with sterile cold water, the amounts of moisture introduced being substantially equal to the amount evaporated.

2,712,505

# ANTI-STATIC SOUND-RECORDING MEDIUM AND METHOD OF MAKING THE SAME

Richard G. Rowe, Redding Ridge, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a corporation of New York

No Drawing. Original application May 11, 1950, Serial No. 161,475. Divided and this application August 11, 1952, Serial No. 303,835

4 Claims. (Cl. 106—37)

1. A sound-recording medium having anti-static properties, said medium comprising a sound-recording wax containing from 2% to 10% by weight of N-n-butyl lactamide.

2,712,506

# ASPHALT EMULSION AND A PROCESS OF COATING A GLASS FIBER MAT WITH IT

Robert W. Farris, Newark, Ohio, assignor to Owens-Corning Fiberglass Corporation, a corporation of Delaware

No Drawing. Application May 24, 1951,  
Serial No. 228,142

8 Claims. (Cl. 106—277)

4. An asphaltic composition comprising from 1 up to 60 percent by weight of an asphalt in water emulsion

696 O. G.—8

containing 0.005–0.5 percent by weight of an anionic hydrophilic compound selected from the group consisting of ammonium di(2-ethyl hexyl) phosphate and an alkali metal di(2-ethyl hexyl) phosphate, and 1–5 percent by weight clay in finely divided form.

8. In the method of producing fibrous structures of glass fibers and asphalt, the step of impregnating an asphalt bonded mat with an asphaltic composition claimed in claim 4 in which the concentration of the asphalt in the emulsion is 30–60 percent by weight.

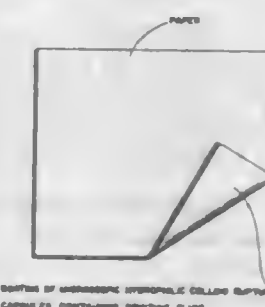
2,712,507

# PRESSURE SENSITIVE RECORD MATERIAL

Barrett K. Green, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application June 30, 1953, Serial No. 365,184

4 Claims. (Cl. 117—36)



1. A record material base sheet having on a surface thereof a coating consisting of a profusion of microscopic pressure-rupturable capsules having walls of gelled film-forming hydrophilic colloid material in substantial contiguity, each of the capsules consisting of an oily water-immiscible printing fluid as a central nucleus around which has been evenly deposited by coacervation forces a dense oil-impermeable shell-like coating of the colloid material, said capsules being rupturable by printing or marking pressures applied to the coated sheet.

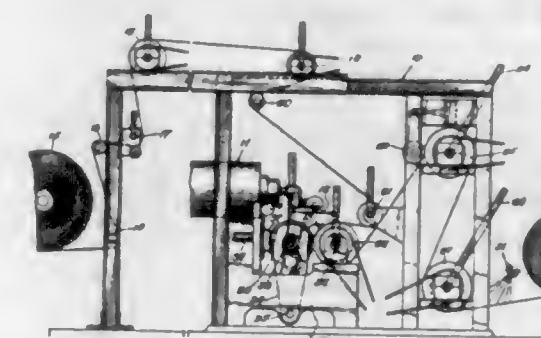
2,712,508

# METHOD AND APPARATUS FOR PREPARING THIN FILMS OF HIGH MELTING POINT THERMOPLASTICS AND THE APPLICATION THEREOF TO PAPER AND THE LIKE

Peter Jay Massey, River Forest, Ill.

Application August 31, 1950, Serial No. 182,516

16 Claims. (Cl. 117—60)



1. The method of coating a web of material such as paper or the like with a highly viscous coating composition having a viscosity at 190° C. at least of the order of the viscosity of polyethylene having a molecular weight of the order of 19,000 and having a minimum working temperature in excess of 240° F., which comprises drying the web to reduce the moisture content thereof substantially to zero, bringing the web of material into contact with a rotating heated roll, carrying the web on said roll to the nip formed between said ro-



tating roll and a substantially stationary parallel roll, feeding a sufficient amount of the coating composition heated to at least its minimum working temperature between said rotating roll and the substantially stationary roll to form a rotating roll-like mass of said coating composition therebetween extending substantially the length of the nip and continuously supplying the coating composition heated to at least its minimum working temperature into the rotating roll-like mass without pre-contacting any portion of the web therewith to provide a supply of the coating composition substantially uniformly between the rolls whereby contact between the rotating roll-like mass and the web is limited to prevent charring of the web, pressing the two rolls together, and correlating the temperature of the coating composition, the rolls and the web with the pressure so as to pass through the nip, the web and a coating of predetermined thickness of the coating composition on the surface thereof.

## 2,712,509

## GLASS FIBER FILAMENT STRAND AND METHOD OF MANUFACTURING GLASS FABRIC

Lawrence P. Biefeld, Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

No Drawing. Application August 17, 1951, Serial No. 242,411

11 Claims. (Cl. 117-126)

10. Strands formed of a multiplicity of parallel glass fiber filaments each of which is coated with a size consisting of polytetrafluoroethylene in particle form and a fugitive binder which functions temporarily to bond the filaments in the strand and in which the particles of polytetrafluoroethylene function to improve the processing characteristics of the strand of glass fibers.

11. In the method of manufacturing a fabric of glass fibers by sizing glass fibers, forming a strand of the sized glass fibers, processing the strands into a fabric and heating the glass fibers after they have been formed into the fabric to a temperature within the range of 600-900° F., the improvement which employs as the size a composition the solids of which consist essentially of polytetrafluoroethylene in particle form and a fugitive binder which functions temporarily to bond the fibers during fabric formation and in which the particles of polytetrafluoroethylene function in the size to improve the processing characteristics of the glass fibers in fabric formation.

## 2,712,510

## IMPROVING PROPERTIES OF METALS

Adolph W. Machlet, Elizabeth, N. J.

No Drawing. Application May 24, 1954,

Serial No. 432,010

4 Claims. (Cl. 117-130)

1. The process of improving the physical characteristics of a metal comprising treating said metal at room temperature with an aqueous slurry of a granulated zirconium compound, a granulated mica and about 5% to about 40% by volume of comminuted carbon dispersed therewith.

## 2,712,511

## METHOD AND COMPOSITION FOR PREPARING FERROUS METAL FOR FORMING

Gilbert H. Orozco, Euclid, and Richard F. Roy, Cleveland, Ohio, assignors, by mesne assignments, to The Pennsylvania Salt Manufacturing Co., a corporation of Pennsylvania

No Drawing. Application March 3, 1950,

Serial No. 147,564

9 Claims. (Cl. 148-6.15)

1. A composition to be dissolved in water to provide an aqueous bath for applying to ferrous metal stock to form thereon a microporous lubricating film which is

chemically bonded to the stock and consisting essentially of the following:

A material selected from the group consisting of oxalic acid, zinc oxalate, and zinc phosphate, and mixtures of the foregoing	About 10 to 30 parts.
Acid-soluble, aliphatic polyhydric alcohol ester having less than four hydroxy groups of an inorganic acid	About 5 to 15 parts.
Phosphoric acid (about 85% concentration)	About 5 to 15 parts.
and	
Hypophosphorous acid (about 50% concentration)	About 1 part.

## 2,712,512

## INORGANIC STRUCTURAL SHEET MATERIAL

Lawrence P. Biefeld, Granville, and Marshall C. Armstrong, Hebron, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

No Drawing. Application April 17, 1951, Serial No. 221,511

10 Claims. (Cl. 154-86)

6. In the method of manufacturing thin flexible sheet products with inorganic cements, the steps of forming a slurry with water sufficient to supply the combined water for cure but insufficient to cause free flow and having magnesium oxide and magnesium sulphate present in the ratio of 3-9 molecular equivalents of magnesium oxide to 1 molecular equivalent magnesium sulphate for forming magnesium oxysulphate cement incorporating siliceous aggregates into the cement slurry in the ratio of 2-8 parts by weight of aggregate to 1 part by weight of magnesium oxide, spreading the slurry as one or more layers of less than 1/16 inch on a separable mold surface, incorporating glass fibers in the form of open mesh fabric in the slurry layers to position at least one fabric in the slurry adjacent and parallel to the outer walls of the product and then curing the cement to form the composite product.

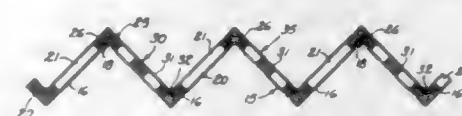
## 2,712,513

## METHOD OF MAKING AN EXPANSIBLE RETRACTABLE CLOSURE

Donald M. Breslow, Beverly Hills, and Orland S. Schesvold, Los Angeles, Calif., assignors to Donald M. Breslow, doing business as The Curtitton Co., Los Angeles, Calif.

Original application February 11, 1950, Serial No. 143,714. Divided and this application October 13, 1952, Serial No. 314,502

8 Claims. (Cl. 154-117)



1. In a method of assembling an extensible-retractable partition, the steps of: placing a member forming one side of said partition on a rigid form having a configuration identical to that of the partition in its extended position; attaching supporting means for said member to the side thereof remote from said form; disposing the frame of said partition in its extended position upon said member on the side thereof remote from said form; placing a second member forming the other side of said partition on said frame; and attaching the opposite edges of said second member to said supporting means.

## 2,712,514

## IDENTIFICATION PASSES

Joseph Martin English, Jr., Silver Spring, Md., assignor to the United States of America as represented by the Attorney General

Application November 23, 1951, Serial No. 257,928

1 Claim. (Cl. 154-121)

(Granted under Title 35, U. S. Code (1952), sec. 266)



A process for the production of an identification pass which comprises developing a gelatin-silver halide photographic paper print while excluding acidic hardening substances, and while still wet, immersing and impregnating said paper print with a solution of a melamine-formaldehyde resin-forming condensate, similarly impregnating at least one overlay layer of translucent fibrous material, drying the thus impregnated sheets, superposing the print and layer in sandwiched relationship, and hot pressing at about 305° F. to 325° F. under a pressure of about 1,000 pounds per square inch until resinification is complete.

## 2,712,515

## PROCESS FOR SEPARATING VITAMIN A PALMITATE

Ralph H. Beutel, Newark, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 22, 1952,

Serial No. 300,360

10 Claims. (Cl. 167-81)

1. The process for separating vitamin A palmitate from contaminants associated therewith that comprises contacting a solution of vitamin A palmitate in a solvent selected from the group consisting of n-hexane, benzene, methylene chloride, acetone, and ethyl ether with an anion exchange resin on the hydroxyl cycle and separating the resin adsorbate from the residual solution, thereby effecting removal of the contaminants in the adsorbate.

## 2,712,516

## METHOD OF TREATING STEEP LIQUOR

Earl R. Kool and Edward C. Snyder, Berwyn, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application June 17, 1950,

Serial No. 168,851

7 Claims. (Cl. 195-48)

1. Process of treating steep liquor from the group consisting of corn steep liquor and sorghum grain steep liquor which comprises incubating the steep liquor to form lactic acid therein, adding sulfuric acid thereto to decrease the pH to at least 2.0, removing the lactic acid therefrom by extraction with butanol, adding an alkaline earth hydroxide to adjust the pH to about 5.5 to 7.5, autoclaving the entire mixture at about 10 to 20 psi steam pressure, separating the liquid and solid phases and drying the liquid phase.

## 2,712,517

## PRODUCTION OF TETRACYCLINE AND SUBSTITUTED TETRACYCLINES

Alexander Gourevitch, Syracuse, and Joseph Lein, Manlius, N. Y., assignors to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York

No Drawing. Application March 3, 1954,

Serial No. 413,956

13 Claims. (Cl. 195-114)

1. In a process for the production of an antibiotic compound selected from the group consisting of tetracycline and substituted tetracyclines which comprises

growing under aerobic conditions a culture of a species of Streptomyces which produces said antibiotic compound in an aqueous, nitrogenous nutrient containing carbohydrate solution, the step comprising growing said organism in said solution in the presence of a member selected from the group consisting of quinic acid, shikimic acid, 5-dehydroquinic acid, 5-dehydroshikimic acid, salts thereof and metabolically convertible derivatives thereof until substantial antibacterial activity is imparted to said solution.

## 2,712,518

## POUR-POINT REDUCTION

Samuel Clyde Vaughn, Berkeley, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 25, 1951,

Serial No. 253,201

14 Claims. (Cl. 196-1)

1. A process for reducing the pour-point of hydrocarbon oils which comprises dissolving glyceryl-12-hydroxy-stearate in a hydrocarbon oil, cooling the resulting solution sufficiently to precipitate said glyceryl-12-hydroxy-stearate, and separating oil of lowered pour-point from the resulting precipitate; said cooling and separation of oil being conducted at a temperature above the pour-point of the oil being treated.

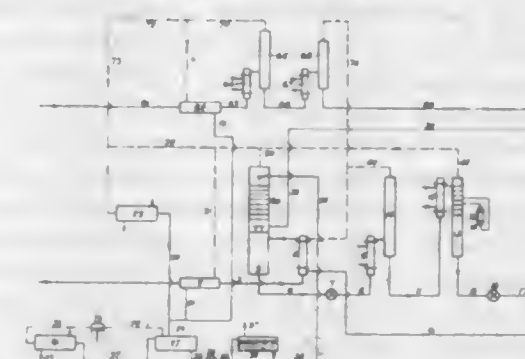
## 2,712,519

## PROCESS FOR EVAPORATING AND DRYING CHLORINATED HYDROCARBONS USED IN THE DEWAXING OF MINERAL OILS

Alfred Hoppe, Frankfurt am Main, Germany, assignor to Edeleanu Gesellschaft m. b. H., Frankfurt am Main, Germany, a body corporate of Germany

Application November 3, 1953, Serial No. 390,044

5 Claims. (Cl. 202-39)



1. A continuous process for recovering low boiling chlorinated hydrocarbons used as solvents in dewaxing mineral oils by evaporating the solvent from the filtrate and the wax obtained in the dewaxing process in a multi-stage evaporating plant and drying a part of the solvent before recycling it, which process comprises operating the first filtrate evaporator at a temperature below 100° C., rectifying the solvent vapours obtained in the first filtrate evaporator, causing the resulting top fraction containing water to separate by cooling into an aqueous layer and a solvent layer, removing the aqueous layer, feeding the residue from the first evaporator to a second evaporator operated at a higher temperature and higher pressure than the first evaporator, and evaporating the residue from the second evaporator in an evaporator or evaporators at increasing temperature and decreasing pressure.

## 2,712,520

## SPINNING-BAND FRACTIONATING COLUMN

Ralph Gottschalk Nester, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

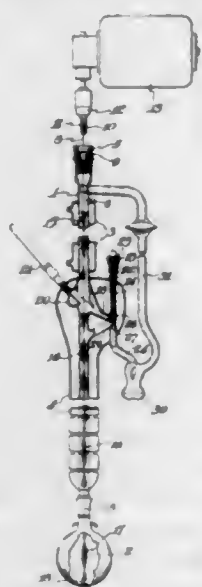
Application December 8, 1952, Serial No. 324,753

10 Claims. (Cl. 202-153)

10. A fractional distillation apparatus comprising a vertically disposed column of substantially circular cross-



section having a condenser section and a fractionating section, a still pot connected to the bottom of said column and centered with respect to said column, a plug made of a self-lubricating plastic in the upper end of said column, said plug being provided with a passage therethrough, said passage being relatively wide at the top of said plug and narrowing to form a bearing seat, a vertically disposed, rotatable metal shaft passing through said plug and extending throughout the length of said column to adjacent the bottom of said still pot, a bead fixedly mounted on said shaft adjacent its upper end and seated in said bearing seat to form a rotary seal and to support said shaft, a wire gauze strip in the form of a helix carried by said shaft with said shaft forming the longitudinal axis of said helix and said strip extending throughout substantially the entire portion of said shaft in the condenser section of said column, a second wire



gauze strip in the form of a helix carried by said shaft with said shaft forming the longitudinal axis of said helix and said strip extending throughout substantially the entire portion of said shaft in the fractionating section of said column, both of said strips having a plurality of transverse wire strands extending beyond the outer longitudinal strands thereof and contacting the inner wall of said column at each end of said transverse strands whereby said shaft is maintained centered with respect to said column, a third wire gauze strip in the form of a helix carried by said shaft with said shaft forming the longitudinal axis of said helix and said strip extending along a substantial proportion of said shaft in said still pot, means mounted on the bottom of said still pot for maintaining the lower end of said shaft centered, and means for rotating said shaft operatively connected to said shaft at a point above said bead.

2,712,521

**PROCESS OF MAKING BISMUTH RESISTANCES**  
Jaime Jose Francisco Guardiola Aragones, Charles Devaud, and Oskar Reinwald, Geneva, Switzerland, assignors to Voltom Processes Limited, Tangier, Morocco

Application May 28, 1951, Serial No. 228,573  
Claims priority, application Switzerland July 13, 1950  
4 Claims. (Cl. 204-12)



1. A method of preparing mechanically stable thin bismuth resistances comprising the steps of passing an electric current through an electrolytic cell containing a solution of a bismuth salt and a cathode having at least partially a metallic conducting surface, said surface being of a metal having a lower dissolution potential than bismuth, removing the cathode from the cell after a bismuth containing layer of a thickness not exceeding .2 mm. has been deposited on said metallic cathode surface, coating

said layer with a polymerizable resin, curing said resin, and dissolving the metal of the cathode to such an extent as to allow of separating therefrom the bismuth containing layer and the insulating coating as an integral self-sustaining structure, thereby obtaining a bismuth resistance of substantially uniform thickness carried by an insulating support.

2,712,522

**BRIGHT NICKEL PLATING**

Otto Kardos, Thomas J. Menzel, and James L. Sweet, Matawan, N. J., assignors to Hanson-Van Winkle-Munning Company, a corporation of New Jersey

No Drawing. Application March 24, 1953,

Serial No. 344,481

7 Claims. (Cl. 204-49)

1. A process for producing bright nickel deposits which comprises electrodepositing nickel from an aqueous acidic solution of at least one nickel salt in which there is dissolved from about 0.2 to about 3 grams per liter of an acetylenic compound selected from the group consisting of 2-butyne-1,4-diol, 4-methoxy-2-butyne-1-ol, 3-hexyne-2,5-diol, 4-diethylamino-2-butyne-1-ol, 4-(N-morpholinyl)-2-butyne-1-ol, 3-pentyn-1-ol, 2,4-hexadiyne-1,6-diol, and 1-diethylamino-2-propyne.

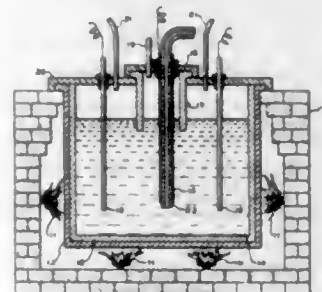
2,712,523

**PURIFICATION OF TITANIUM TETRACHLORIDE**

Marshall B. Alpert, Tompkinsville, N. Y., and William F. Sullivan, Roseland, N. J., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

Application June 12, 1951, Serial No. 231,128

8 Claims. (Cl. 204-61)



1. A method of purifying titanium tetrachloride which comprises passing into an electrolytic bath consisting of a chloride of at least one alkali forming metal maintained in molten condition between an insoluble anode and a cathode, impure titanium tetrachloride adjacent the cathode, passing an electric current of from about 1.1 to 1.6 faradays per mole of titanium tetrachloride between the electrodes at an anode current density not exceeding about 5.0 amperes per square centimeter and a cathode current density between about 0.1 and 0.5 amperes per square centimeter, and withdrawing purified titanium tetrachloride from above the anode.

2,712,524

**ELECTROPOLISHING OF GOLD AND GOLD ALLOYS**

Marianne Reichert, Offenbach am Main, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany, a corporation of Germany

No Drawing. Application September 19, 1952,

Serial No. 310,540

Claims priority, application Germany September 20, 1951  
6 Claims. (Cl. 204-140.5)

1. A process for polishing surfaces of gold and gold alloys of a fineness of at least 8 carats which comprises anodically electropolishing such surfaces in an aqueous electrolytic bath essentially consisting of water, a minor proportion of at least one acid to acidify said bath and

at least 5 grams of thiourea per liter at a temperature up to 100° C. and at current densities which cause the formation of a film upon the surfaces treated.

2,712,525

**ELECTROPOLISHING OF GOLD ALLOYS**

Johannes Fischer, Hanau, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany

No Drawing. Application June 18, 1954,

Serial No. 437,856

Claims priority, application Germany June 27, 1953  
6 Claims. (Cl. 204-140.5)

1. A process for polishing the surfaces of gold alloys of a fineness of at least 8 carats which comprises anodically electropolishing such surfaces in an aqueous acidic bath containing at least 5 g. of thiourea per liter and to which 0.03 to 0.3 mols of a salt furnishing ions containing at least one of the metals contained in the gold alloy to be polished which is less noble than gold has been added from an external source, at a current density causing the formation of a film upon the surfaces treated.

2,712,526

**HYDROCARBON OIL ADDITIVE**

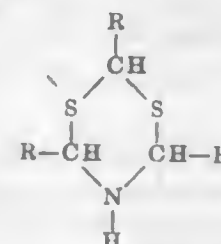
John P. McDermott, Springfield, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application December 22, 1951,

Serial No. 263,020

11 Claims. (Cl. 252-32.7)

1. A mineral oil composition having incorporated therein in the range of about 0.02 to 50% by weight of the salt formed by reacting a thialdine-type compound of the general formula



where R is a C<sub>1</sub> to C<sub>10</sub> alkyl radical, with a sulfur-containing acid selected from the group consisting of (1) carboxylic acids of the general formula R'(COOH)<sub>n</sub> where R' is a C<sub>1</sub> to C<sub>30</sub> sulfurized aliphatic hydrocarbon radical, and n is an integer of from 1 to 2, and (2) esters of thiophosphorous and di-thiophosphoric acids in which at least one of the hydrogen atoms is replaced by an organic radical containing from 2 to 30 carbon atoms and is selected from the group consisting of alkyl, sulfurized alkyl, aryl, aralkyl, alkaryl and cycloalkyl radicals.

2,712,527

**IMPROVED LUBRICATING GREASES CONTAINING DIHYDROXY STEARIC ACID SOAP**

Louis A. Mikeska, Westfield, and Arnold J. Morway, Rahway, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application August 26, 1952,

Serial No. 306,484

20 Claims. (Cl. 252-41)

1. A lubricating grease comprising a major proportion of a lubricating oil and a minor grease making proportion of a grease thickener containing a metal soap of dihydroxy stearic acid and a metal salt of low molecular weight aliphatic carboxylic acid having not more than 5 carbon atoms, said soap and salt being present in the form of a soap-salt complex and in a mol ratio within the range of about 1 to 3 mols of said low molecular weight aliphatic carboxylic acid salt for each mol of said dihydroxy-stearic acid soap.

2,712,530

**SULFONATE DETERGENT BLEND**

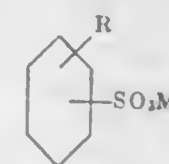
Frederick Nell Baumgartner, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application March 31, 1950,

Serial No. 153,309

8 Claims. (Cl. 252-161)

1. A detergent composition consisting essentially of a sulfonate compound (A) of the formula:



where R is a branched-chain alkyl radical of 9-18 carbon atoms and M is an alkali metal, and 2.5 to 50 wt. %

**2,712,528  
MINERAL OIL COMPOSITION CONTAINING AN IMPROVED HYDROCARBON-PHOSPHORUS SULFIDE REACTION PRODUCT**

Max W. Hill, Somerville, N. J., and Robert H. Jones, Irvington, N. Y., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application November 1, 1951,

Serial No. 254,441

15 Claims. (Cl. 252-46.6)

1. A mineral oil containing in the range of about 0.001 to 20% of a product obtained by reacting about 1 molecular proportion of a phosphorus sulfide with 2 to 5 molecular proportions of a hydrocarbon material and further reacting the acidic product thus formed with 0.1% to 50% of its weight of a hydrocarbon containing at least one-olefinic double bond.

2,712,529

**DETERGENT COMPOSITION**

Victor Mills, Wyoming, and Hans B. Stromberg and Clifford B. Kemp, Cincinnati, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio

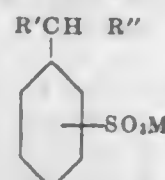
Application July 24, 1950, Serial No. 175,516

5 Claims. (Cl. 252-138)

4. A spray-dried detergent composition in granular form having particles of greatly improved resistance to breakdown, and having an outstanding freedom from dustiness, stickiness, caking and balling properties, as compared to like heat-dried compositions that do not contain the hereinafter mentioned solubilized silicate, and having the property of forming solutions substantially free of silicious floc and "sand-like" triphosphate agglomerates in water at washing concentrations, comprised essentially of one part of sodium triphosphate derived from an anhydrous triphosphate comprising at least about 60% Form II and not more than 40% nor less than 5% Form I, 0.2 to 4.0 parts of non-soap anionic synthetic detergent of the group consisting of water-soluble salts of sulfuric reaction products of alkyl and substituted alkyl compounds containing 8 to 18 carbon atoms in the alkyl group and mixtures thereof, characterized by their high solubility in water, their resistance to precipitation by mineral constituents of hard water and their surface active and effective detergent properties, and 0.07 to 1.2 parts of solubilized sodium silicate, said composition having a pH of at least 9.5 as measured in a 0.5 per cent solution in water at 25° C., said composition containing not less than about 4 per cent nor more than about 25 per cent of solubilized silicate solids and not less than 25 per cent total of synthetic detergent and triphosphate said composition having been spray dried within less than 3 hours after the silicate was incorporated with the triphosphate-containing mixture.



based on the total sulfonate blend, of a sulfonate compound (B) of the formula:



where R' is a straight-chain alkyl radical of 1-5 carbon atoms, R'' is a straight-chain alkyl radical of 8-14 carbon atoms, where the sum of the carbon atoms in R' and R'' is 9-15, and M is an alkali metal.

2,712,531

# **OCTADECYLAMINE MATERIALS AND PROCESS**

John J. Maguire, Elkins Park, Pa., assignor to W. H. & L. D. Betz, Philadelphia, Pa., a partnership  
No Drawing. Application September 28, 1954,  
Serial No. 459,022

6 Claims. (Cl. 252-392)

1. A water treating composition, comprising a blend of between 40 and 80 percent by weight of octadecylamine and between 60 and 20 percent by weight of octadecylamine acetate.

5. The method of feeding octadecylamine material to water, which comprises first blending octadecylamine and octadecylamine acetate in the proportions of 40 to 80 percent of octadecylamine and 60 to 20 percent of octadecylamine acetate by weight, then dispersing the blend and feeding the blend into water

2,712,532

# **NEW POLYMERIC REACTION PRODUCTS OF MIXED POLYMETHYL BENZENES**

Michael Mojzesz Szwarc, Syracuse, N. Y., and Alec Norman Roper, Manchester, England, assignors to Petrocarbon Limited, London, England  
No Drawing. Application August 28, 1952,  
Serial No. 306,938

Claims priority, application Great Britain August 29, 1951  
19 Claims. (Cl. 260-2)

14. As a new product, a solid polymeric reaction product of a pyrolyzed mixture of the vapours of at least two polymethyl benzenes having from 2 to 6 methyl groups substituted in the nucleus with two of the methyl groups in para positions; said reaction product having a high thermal stability, good insulating properties and capable of being molded.

2,712,533

# **LAMP BASING CEMENT CONTAINING SODIUM SILICATE-MAGNESIUM OXIDE BONDING MIXTURE**

James S. Mitchell, Philadelphia, Pa., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey  
No Drawing. Application October 23, 1950,  
Serial No. 191,736

5 Claims. (Cl. 260-25)

1. A duplex cement consisting essentially, in combination, of a phenol-formaldehyde resin having dispersed therein a sodium silicate and magnesium oxide.

2,712,534

# **ETHYLENE-ISOPROPANOL TELOMER ADDITIVE FOR UPGRADING PARAFFIN WAXES**

Michael Erchak, Jr., Morris Plains, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York  
No Drawing. Application October 5, 1951,  
Serial No. 250,035

5 Claims. (Cl. 260-28.5)

1. A polymeric, waxy reaction product of ethylene with isopropanol consisting essentially of a mixture of

homologs of the formula  $\text{CH}_3(\text{C}_2\text{H}_4)_n\text{C}(\text{CH}_3)=\text{A}_2$  wherein the values of  $n$  lie substantially entirely within the range of about 30 to about 150 and  $\text{A}_2$  is selected from the group consisting of  $(\text{OH})(\text{CH}_3)$  and  $(\text{CH}_2)$ ; which product has average molecular weight as determined by viscosity measurements in dilute solutions in the range between about 1500 and about 3000, solidification point in the range above  $95^\circ\text{C}$ . and below  $110^\circ\text{C}$ ., and hardness measured by penetration in 5 seconds by a standard needle under 200 grams load at  $22^\circ\text{C}$ . in the range between about 0.1 mm. and about 0.5 mm.

4. A composition of matter wherein the reaction product defined in claim 1 is blended with another wax.

2,712,535

# **ELASTIC INFUSIBLE PRODUCTS FROM EPOXY COMPOUNDS AND CROSS-LINKING AGENTS**

Willy Fisch, Blinningen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm  
No Drawing. Application August 4, 1950,  
Serial No. 177,774

Claims priority, application Switzerland August 12, 1949  
15 Claims. (Cl. 260-45.4)

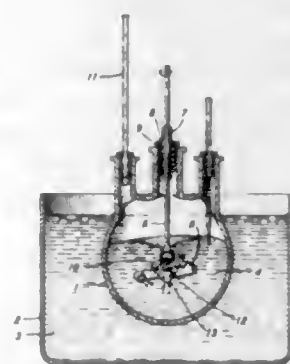
1. A process for the manufacture of an elastic artificial product which consists essentially of reacting, with heat, a compound containing more than one epoxide group per mol with, as cross-linking agent, a compound containing at least two groups which react with epoxide groups, which reactive groups are separated from one another by a chain of at least 14 members, in which chain a rigid ring is counted as one member, the reactive groups being selected from the group consisting of carboxyl, sulfo, phosphoric acid, amino, amido, imino and imido groups, and the reaction with heat being carried out to a point where the reaction mass becomes infusible, whereby an elastic product is obtained, said elastic product containing said chain of at least 14 members intact.

2,712,536

# **PRODUCTION OF POLYMER SPHERES**

Field H. Winslow, Springdale, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application August 30, 1950, Serial No. 182,309

4 Claims. (Cl. 260-45.5)



1. A process of forming a high yield of small spherical bodies of a rigid polymer falling within a relatively narrow range of size distribution from a polymerizable liquid consisting essentially of a mixture of divinyl benzene and a monovinyl aromatic hydrocarbon which process comprises continuously agitating a mixture of said polymerizable liquid with at least 5 times as much by volume of an aqueous medium having dissolved therein a stabilizing agent comprising polyvinyl alcohol having a degree of hydrolysis of at least 98 per cent and an intrinsic viscosity, in aqueous solution, between 0.7 and 0.85, said polyvinyl alcohol being present in the suspension in an amount between 0.25 per cent and 5 per cent,

based on the weight of the polymerizable material, so as to form a suspension of fine spherical globules of said polymerizable material in said aqueous medium, and maintaining said suspension at a polymerizing temperature until said polymerizable liquid has polymerized in the form of suspended spheres, to a rigid, non-tacky state.

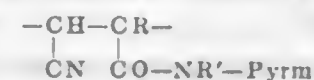
2,712,537

# **POLYMERIZATION PRODUCTS OF PYRIMIDYL AMIDES OF BETA-CYANO-ACRYLIC ACIDS**

Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware  
No Drawing. Continuation of application Serial No. 244,708, August 31, 1951. This application June 26, 1953, Serial No. 364,514

16 Claims. (Cl. 260-80.5)

1. A polymeric composition having in the polymer molecule a plurality of repeating acid-reactive units having the formula



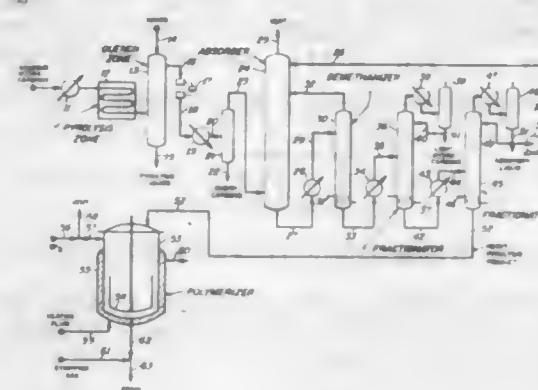
in which R is selected from the class consisting of hydrogen and the methyl radical; R' is selected from the class consisting of hydrogen and alkyl groups and pyrm is selected from the class consisting of the groups 4-pyrimidyl and alkyl substituted 4-pyrimidyl in which the alkyl substituents contain a total of not more than five carbon atoms.

2,712,538

# **SYNTHETIC RESINS FROM HYDROCARBON PYROLYSIS PRODUCTS**

Francis T. Wadsworth, Dickinson, Tex., assignor, by mesne assignments, to Pan American Refining Corporation, Texas City, Tex., a corporation of Texas  
Application July 27, 1951, Serial No. 239,000

6 Claims. (Cl. 260-82)



1. An improvement in a process for making a hydrocarbon resin by subjecting a hydrocarbon gas containing at least two carbon atoms in the molecule to pyrolysis at a temperature above about  $1300^\circ\text{F}$ ., quenching the pyrolysis products and separating a gasiform stream therefrom, compressing said gasiform stream to a pressure above about 350 pounds per square inch, absorbing condensable hydrocarbons from said gasiform stream in a light absorption oil at said pressure, distilling the resulting solution and separating therefrom the constituents thereof having up to six carbon atoms in the molecule, leaving a highly unsaturated residue substantially free from conjugated diolefinic compounds, and catalytically polymerizing said residue, which improvement comprises effecting said polymerization in the presence of between about 0.5 and 5 percent by weight of a boron trifluoride catalyst at a temperature within the range of about  $300$  to  $650^\circ\text{F}$ ., and subsequently stripping said catalyst and light components from the reaction product at a temper-

2,712,539

# **METHOD OF MANUFACTURING SOYBEAN PROTEIN**

Charles T. Nugent and Jerome W. Kaucher, Cincinnati, Ohio, assignors to The Buckeye Cotton Oil Company, Memphis, Tenn., a corporation of Ohio

No Drawing. Application April 28, 1953,  
Serial No. 351,749

16 Claims. (Cl. 260-123.5)

1. In a method for isolating, from soybean material, a substantially unhydrolyzed protein characterized primarily by a low insoluble residue upon dispersion in mild aqueous alkali, the steps which comprise treating substantially oil-free protein-containing soybean material with an alkaline solution at a pH up to 10.5 and at a temperature in the range from about  $70^\circ$  to  $120^\circ\text{F}$ . to extract the protein in a substantially unhydrolyzed condition, separating the solution from the residue, reducing the pH of the solution to the isoelectric range of the protein to precipitate the protein therefrom, washing the precipitated protein, and adding to the proteinaceous material, in an amount from 0.25% to 5.0% by weight of the protein, an organic material selected from the group consisting of fatty acids containing from 10 to 18 carbon atoms, natural rosins, water-soluble soaps of said acids, water-soluble soaps of said natural rosins, and mixtures thereof, the said organic material being added at any stage in the isolation process where the alkaline protein-containing solution has a pH not greater than 10.5 and when the temperature is not greater than  $120^\circ\text{F}$ .

2,712,540

# **METHOD OF MANUFACTURING SOYBEAN PROTEIN**

Charles T. Nugent and Nathan R. Gotthoffer, Cincinnati, Ohio, assignors to The Buckeye Cotton Oil Company, Memphis, Tenn., a corporation of Ohio

No Drawing. Application September 16, 1953,  
Serial No. 380,588

12 Claims. (Cl. 260-123.5)

1. In a method for isolating, from soybean material, a substantially unhydrolyzed protein characterized primarily by a low insoluble residue upon dispersion in mild aqueous alkali, the steps which comprise treating substantially oil-free protein-containing soybean material with an alkaline solution at a pH up to 10.5 and at a temperature in the range from about  $70^\circ$  to  $120^\circ\text{F}$ . to extract the protein in a substantially unhydrolyzed condition, separating the solution from the residue, reducing the pH of the solution to the isoelectric range of the protein to precipitate the protein therefrom, and adding to the proteinaceous material, in an amount from 0.25% to 5.0% by weight of the protein, an insoluble inhibiting agent selected from the group consisting of chlorinated unsaturated fatty acids having from about 10 to 18 carbon atoms, a chlorinated mixture of fatty acids, which mixture of fatty acids, prior to chlorination, contains at least 5% of an unsaturated fatty acid having from about 10 to 18 carbon atoms, and which is a mixture of fatty acids corresponding to those occurring in vegetable and animal fats and oils, water-soluble soaps of the said chlorinated unsaturated fatty acids, water-soluble soaps of the said chlorinated mixture of fatty acids, and mixtures thereof, the said insoluble inhibiting agent being added at any stage in the isolation process where the alkaline protein-containing solution has a pH not greater than 10.5 and when the temperature is not greater than  $120^\circ\text{F}$ .

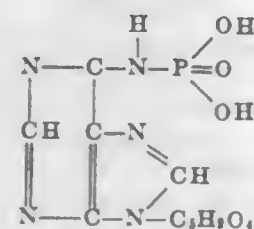


# 2,712,541 ADENOSINE-6-PHOSPHORIC ACID AND SALTS THEREOF

Simon L. Ruskin, New York, N. Y.  
No Drawing. Application July 10, 1952,  
Serial No. 298,193

5 Claims. (Cl. 260-211.5)

1. Mono-adenosido-6-phosphoric acid having the following formula:



2. The procine salt of the mono-adenosido-6-phosphoric acid of claim 1.

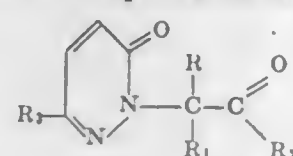
# 2,712,542 NEW SERIES OF 2-(3-PYRIDAZONYL)-ACIDS AND THEIR DERIVATIVES AND METHOD OF PRE- PARING MEMBERS OF THE SERIES

John A. King, Manhasset, and Freeman H. McMillan,  
New York, N. Y., assignors to Warner-Hudnut, Inc.,  
New York, N. Y., a corporation of Delaware

No Drawing. Application May 14, 1952,  
Serial No. 287,802

10 Claims. (Cl. 260-250)

1. A new chemical compound of the formula:



wherein

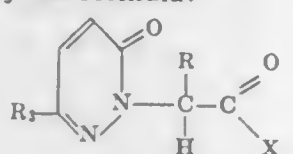
R represents a member of the group consisting of hydrogen and lower alkyl

R1 represents a member of the group consisting of hydrogen and lower alkyl

R2 represents a member of the group consisting of lower alkoxy, hydroxy, amino, lower monoalkylamino, lower dialkylamino, anilino and lower alkyl

R3 represents a member of the group consisting of hydrogen, lower alkyl, lower carbalkoxy and carboxy.

7. The method of preparing a 2-(3-pyridazonyl)-ketone represented by the formula:

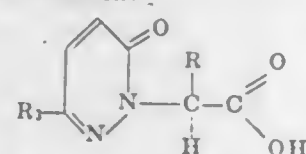


wherein

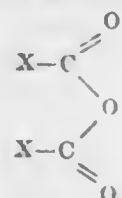
R represents a member of the group consisting of hydrogen and lower alkyl

R3 represents a member of the group consisting of hydrogen, lower alkyl, lower carbalkoxy and carboxy, and X represents lower alkyl,

which comprises causing a 2-(3-pyridazonyl)-acetic acid represented by the formula:



wherein R and R3 have the significance given above, to react with an acid anhydride represented by the formula:



wherein X has the significance given above, by refluxing said materials in the presence of an organic base.

# 2,712,543

## POLYIMIDE INTERMEDIATES

William F. Gresham and Marcus A. Naylor, Jr., Wilmington, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 11, 1954,  
Serial No. 436,248

3 Claims. (Cl. 260-346.3)

1. A compound of the class consisting of 2,2-bis-(3,4-dicarboxyphenyl) propane and dianhydride thereof.

# 2,712,544

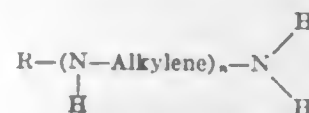
## CHELATING AGENTS

Frederick C. Bersworth, Verona, N. J., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 16, 1953,  
Serial No. 386,649

6 Claims. (Cl. 260-348)

1. Epoxide compounds conforming to the following formula:



wherein R is an alkyl group containing two carbon atoms to about 20 carbon atoms and has attached on two adjacent carbon atoms an oxygen atom to form the group



wherein Alkylene is a low molecular weight alkylene group which places two to three carbon atoms in the chain between the nitrogen atoms, and wherein n is an integer having a value of one to about four, and wherein at least one amino hydrogen is displaced by an acetic acid group ( $-\text{CH}_2\text{COOM}$ ) and M is selected from the group consisting of hydrogen, ammonium bases and alkali metals.

# 2,712,545

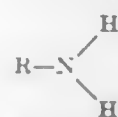
## SALTS OF EPOXY DICARBOXYLIC AMINO ACIDS

Frederick C. Bersworth, Framingham Center, Mass., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

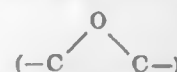
No Drawing. Application April 30, 1954,  
Serial No. 426,925

5 Claims. (Cl. 260-348)

1. The epoxide compound conforming to the following formula:



wherein R is an alkyl group containing at least two carbon atoms, on two adjacent carbon atoms of which there is attached an oxygen atom



wherein at least one of the amine hydrogens is displaced by a carboxylic group selected from the group consisting of  $-\text{CH}_2\text{COOM}$  or  $-\text{CH}_2\text{CH}_2\text{COOM}$ , wherein M is one of the group consisting of hydrogen, alkali metals and ammonium bases.

# 2,712,546 MANUFACTURE OF ALKYL ALUMINIUM HALIDES

Harold Coates, Wombourne, William Hubert Hunter, Shepton Mallet, and Bryan Topley, Kinver, near Stourbridge, England, assignors to the Minister of Supply, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

No Drawing. Application September 9, 1952,  
Serial No. 308,725

Claims priority, application Great Britain  
December 12, 1951

16 Claims. (Cl. 260-448)

1. Process for the production of alkyl aluminum dihalides, which process comprises reacting a dialkyl aluminum monohalide with sufficient elementary halogen to convert at least a substantial proportion of said monohalide to alkyl aluminum dihalide.

# 2,712,547

## PREPARATION OF S-ARYL-THIOSULFURIC ACIDS

Hans Z. Lecher, Plainfield, and Elizabeth M. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 7, 1954,  
Serial No. 421,700

11 Claims. (Cl. 260-453)

1. A method of preparing a salt of a S-aryl-thiosulfuric acid selected from the group consisting of S-3-nitrophenyl thiosulfuric acid and S-2-benzoylaminothiophenyl thiosulfuric acid which comprises reacting compounds selected from the group consisting of bis-(3-nitrophenyl)-disulfide and bis-(2-benzoylaminothiophenyl)-disulfide with a water soluble bisulfite in an aqueous reaction medium containing a lower paraffin alcohol as the major component.

# 2,712,548

## METHOD OF PRODUCING MONOHYDROXY MONOHYDROCARBOXY PHOSPHORYL MONOFLUORIDES

Archle Hood, Houston, Tex., assignor to Ozark-Mahoning Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application September 3, 1953,  
Serial No. 378,415

6 Claims. (Cl. 260-461)

1. The method of producing a monohydroxy saturated hydrocarbonoxy phosphoryl monofluoride which comprises mixing difluorophosphoric acid and a monohydric saturated hydrocarbon alcohol and, after the reaction has proceeded to substantial completion, isolating from the reaction mass the monohydroxy saturated hydrocarbonoxy phosphoryl monofluoride of the said alcohol.

5. The method of producing a monohydroxy saturated hydrocarbonoxy phosphoryl monofluoride which comprises mixing difluorophosphoric acid with a monohydric saturated hydrocarbon alcohol containing more than three carbon atoms per molecule, after attainment of substantial equilibrium in the reacting mass neutralizing the latter with an alkali to thereby convert the phosphoryl monofluoride of said alcohol to an alkali-metal salt, subjecting the mass to extraction treatment by absolute ethyl alcohol, separating the liquid from the solids in the treated mass, substantially reducing the volume of the separated liquid by evaporation, adding acetone to the remaining liquid to form a precipitate consisting substantially entirely of said phosphoryl monofluoride metal salt, reacting the precipitate with a mineral acid, and finally separating the resultant alkali salt of said acid from the reconstituted phosphoryl monofluoride.

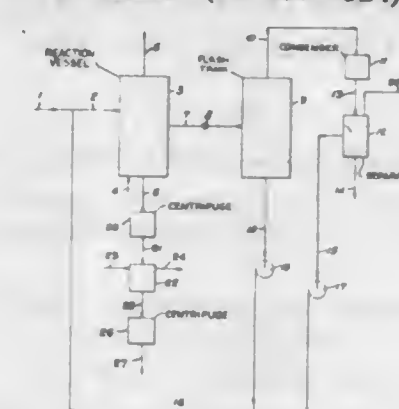
# 2,712,549

## PROCESS OF PREPARING TOLUIC ACIDS

Leroy K. Cheney, Arcadia, Calif., assignor to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware

Application October 23, 1953, Serial No. 388,037

3 Claims. (Cl. 260-524)



1. In the preparation of toluic acids by oxidizing the corresponding xylenes, the steps of introducing xylenes and an oxygen-rich gas into a reaction vessel wherein the xylene is oxidized in a liquid phase maintained under elevated conditions of temperature and pressure and containing as a catalyst a salt which is soluble in the reaction mixture and which is selected from the group consisting of cobalt salts, manganese salts and cerium salts, the severity of the oxidation conditions being such that phthalic acid is formed in addition to toluic acid, withdrawing from the reaction vessel a stream of the reaction mixture present therein, flashing such stream into a flash tank maintained at a pressure not exceeding about atmospheric pressure, removing a vapor stream comprising water vapor and xylene overhead from the flash tank, condensing the water vapor and xylene and separating them, returning liquid xylene and bottoms from the flash tank to the reaction vessel, and withdrawing off-gas and a liquid product stream from the reaction vessel.

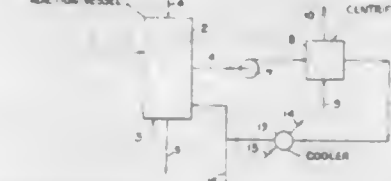
# 2,712,550

## PROCESS OF PREPARING TOLUIC ACIDS

Leroy K. Cheney, Arcadia, and Chester M. Himel, Menlo Park, Calif., assignors to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware

Application October 23, 1953, Serial No. 388,038

2 Claims. (Cl. 260-524)



1. In the preparation of toluic acids by oxidizing the corresponding xylenes, the steps of introducing xylene and an oxygen-rich gas into a reaction vessel wherein the xylene is oxidized in a liquid phase maintained under elevated conditions of temperature and pressure and containing as a catalyst a salt which is soluble in the reaction mixture and which is selected from the group consisting of cobalt salts, manganese salts and cerium salts, the severity of the oxidation conditions being such that phthalic acid is formed in addition to toluic acid, withdrawing from the reaction vessel a stream of the reaction mixture present therein, filtering such stream in the presence of an oxygen-rich gas and at a temperature below about 160° C. whereby the catalyst present in such stream remains soluble therein and whereby precipitated phthalic acid is removed therefrom, cooling and returning filtered liquid to the reaction vessel, and removing off-gas from the reaction vessel.



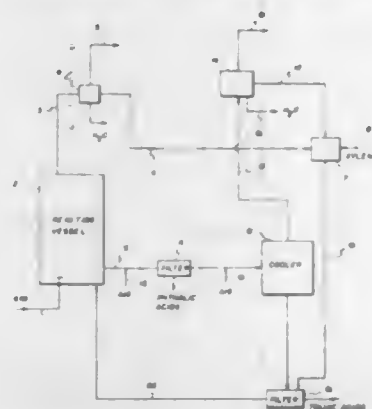
2,712,551

## PROCESS OF PREPARING TOLUIC ACIDS

Chester M. Himel, Menlo Park, and Lester P. Berriman, Palo Alto, Calif., assignors to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware

Application May 18, 1954, Serial No. 430,748

5 Claims. (Cl. 260—524)



1. In the preparation of toluic acids by oxidizing the corresponding xylenes, the steps of introducing xylenes and an oxygen-containing gas into a reaction vessel wherein xylenes are oxidized in the liquid phase maintained under elevated conditions of temperature and pressure and containing as a catalyst a salt which is soluble in the reaction mixture and which is selected from the group consisting of cobalt salts, manganese salts and cerium salts, withdrawing from the reaction vessel a stream of the reaction mixture and passing it to a cooling zone while in contact with a free oxygen-containing gas to maintain the catalyst in a soluble form, cooling rapidly the temperature of the stream to below about 100° C., filtering the cooled materials at a temperature of about 40° to 70° C. to separate the toluic acids as solids, and recycling the oxidation catalyst in the filtrate to the reaction zone.

2,712,552

## METHOD FOR EXTRACTING ACONITIC ACID FROM SUGARCANE AND SORGO JUICES, SIRUPS, AND MOLASSES

Emil K. Ventre, deceased, late of Houma, La., by Tillie Amrhein Ventre, Baton Rouge, La., Eugenie Ventre Bartmess, Washington, D. C., and Emil K. Ventre, Jr., New Orleans, La., sole heirs, assignors to the United States of America as represented by the Secretary of Agriculture

Application May 26, 1952, Serial No. 290,108

2 Claims. (Cl. 260—527)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for removing aconitic acid and plant pigments from a juice of the group consisting of sugar cane, sorgo juices, and molasses, comprising: diluting the juice to 10–20° Brix and removing suspended materials therefrom; passing an aqueous solution containing mineral acid anions through an anion resin bed until the bed no longer removes the mineral acid anions; passing the diluted juice through the resin bed to remove aconitic acid; washing the bed with water until it yields a wash effluent having not more than about 0.1 percent sugar; passing an aqueous solution containing mineral acid anions through the bed to remove the aconitic acid from the resin bed and regenerate the bed; washing the bed with water to free the bed of free mineral acid anions and aconitic solution; treating the aconitic acid and mineral acid anions to separate the aconitic acid from the mineral acid anions; and returning the mineral acid anions to the process for reuse in treating the anion resin.

2,712,553

## SYNTHESIS OF METHIONINE

Joseph Feltzin, Brooklyn, N. Y.  
No Drawing. Application March 25, 1954,  
Serial No. 418,750

8 Claims. (Cl. 260—534)

1. A process of synthesizing dl-methionine, comprising the steps of reacting an alkali metal salt of pyruvic acid at a temperature of 0–5° C. with formaldehyde so as to form alpha keto gamma hydroxybutyric acid which converts to alpha keto gamma butyrolactone; treating the thus formed alpha keto gamma butyrolactone with a substance selected from the group consisting of hydrazines and ammonia so as to form the corresponding derivative of said alpha keto gamma butyrolactone and said substance selected from the group consisting of hydrazines and ammonia; dissolving the thus formed derivative in a solvent therefor so as to form a solution of the same; treating said solution of said derivative with a hydrogen halide so as to form the corresponding halo derivative thereof; and treating the thus formed halo derivative with an alkali metal methylmercaptan and reducing the resulting product with hydrogen, thereby forming dl-methionine.

2,712,554

## OXIDATION OF HALOGENATED OLEFINIC COMPOUNDS

William T. Miller, Ithaca, N. Y.  
No Drawing. Application December 11, 1953,  
Serial No. 397,779

15 Claims. (Cl. 260—544)

1. The process for preparing a halogenated organic compound containing the —(CO)— group which comprises reacting ethylene substituted only with gaseous halogen and containing at least one chlorine atom and not more than one hydrogen atom; and oxygen in the presence of elemental fluorine; and separating a halogenated organic compound containing the —(CO)— group from the reaction mixture.

2,712,555

## OXIDATION OF HALOGENATED SATURATED HYDROCARBONS

William T. Miller, Ithaca, N. Y.  
No Drawing. Application December 11, 1953,  
Serial No. 397,780

15 Claims. (Cl. 260—544)

1. The process for preparing a halogenated organic compound containing the —(CO)— group which comprises reacting ethane substituted only with gaseous halogen and containing at least one and not more than two hydrogen atoms; and oxygen in the presence of elemental fluorine; and separating a halogenated organic compound containing the —(CO)— group from the reaction mixture.

2,712,556

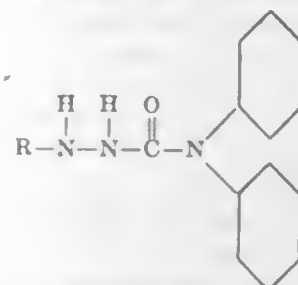
## DIPHENYL-SUBSTITUTED SEMICARBAZIDES

Samuel M. Darling, Lyndhurst, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Original application September 23, 1953,  
Serial No. 381,975. Divided and this application August 19, 1954, Serial No. 451,033

4 Claims. (Cl. 260—554)

1. Compounds having the formula,



wherein R is selected from the group consisting of alkyl

radicals having from 4 to about 20 carbon atoms and aralkyl radicals having from 7 to about 22 carbon atoms.

2,712,557

## MANUFACTURE OF UREA

Walter Michelitsch, Ludwigshafen (Rhine) Oppau, and Wilhelm Geisel, Ludwigshafen (Rhine), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application January 24, 1951,  
Serial No. 207,654

Claims priority, application Germany February 7, 1950  
4 Claims. (Cl. 260—555)

1. A process for the recovery of solid urea in the form of substantially spherical particles which comprises adding to a urea melt from 0.05% to 1.0% by weight with reference to the amount of urea of acetylene-diurea, and spraying the resultant molten product to divide it into particles.

2,712,558

## 9- AND 10-HYDROXYOCTADECYLAMINES

Robert J. Vander Wal, Chicago, James Harwood, Western Springs, and Richard A. Reck, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application February 18, 1950,  
Serial No. 145,088

1 Claim. (Cl. 260—584)

A mixture of 9-hydroxyoctadecylamine with 10-hydroxyoctadecylamine.

2,712,559

## TREATMENT OF HYDROCARBON GASES CONTAINING ACETYLENE

E. O. Box, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application July 3, 1952,  
Serial No. 297,170

11 Claims. (Cl. 260—605)

1. A process for the production of acetaldehyde which comprises reacting acetylene with steam in the presence of a zinc zirconate catalyst comprising zinc zirconate.

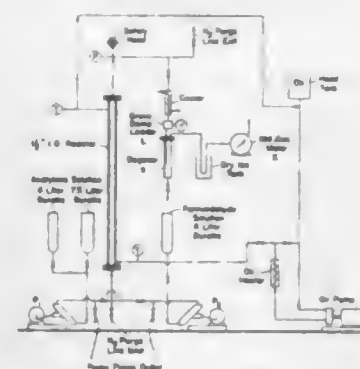
2,712,560

## ETHYNYLATION PROCESS FOR PRODUCTION OF ALKYNOLS FROM SOLVATED ACETYLENE

Clyde McKinley, Belvidere, and Frederick Fahnoe, Morristown, N. J., and Donald Leask Fuller, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application December 28, 1949, Serial No. 135,422

7 Claims. (Cl. 260—635)



1. A process for the production of alkynols which comprises reacting in the absence of a vapor phase a member of the group consisting of aldehydes and ketones with an acetylenic hydrocarbon corresponding to the formula



wherein R is a member of the group consisting of hydrogen

and hydrocarbon radicals, said acetylenic hydrocarbon being dissolved in a preferential liquid solvent and all of the reactants being in the liquid phase, in the presence of an ethynylation catalyst, at a temperature higher than 20° C. and a pressure created by a liquid pump sufficient to maintain the acetylene hydrocarbon in the reaction mixture in the liquid phase.

2,712,561

## METHOD OF DESTROYING CATALYST RESIDUES

Anthony H. Gleason, Westfield, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application December 4, 1953,  
Serial No. 396,324

4 Claims. (Cl. 260—669)

1. In a process for the preparation of drying oils wherein 75 to 100 parts of butadiene are copolymerized with 25 to 0 parts of styrene at a temperature of 20–100° C. in the presence of 1.5 to 10 parts of finely divided metallic sodium and 50 to 500 parts of an inert hydrocarbon diluent boiling between 20° and 200° C., and wherein residual sodium is removed upon completion of the reaction, the improvement which comprises treating the reaction product with an amount of aqueous sulfuric acid containing 82.5% to 96% H<sub>2</sub>SO<sub>4</sub> to convert the sodium substantially quantitatively to sodium bisulfate.

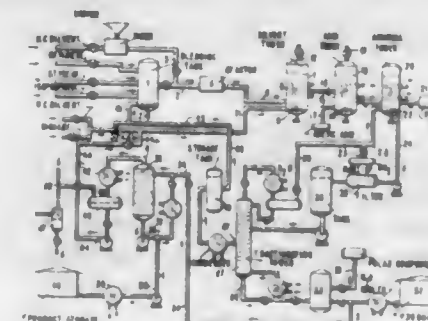
2,712,562

## HYDROCARBON DRYING OIL PRODUCTION

Robert F. Leary, Cranford, Stanley E. Jaros, Rahway, and Anthony H. Gleason, Westfield, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

Application March 5, 1954, Serial No. 414,328

4 Claims. (Cl. 260—669)



1. A continuous method for the production of liquid polybutadiene which comprises continuously maintaining an approximately constant volume of reaction mixture comprising a highly agitated stable dispersion of finely divided alkali metal catalyst having an average particle size of less than 200 microns in a body of liquid hydrocarbon solvent containing butadiene and polybutadiene in a closed reaction vessel at a temperature ranging from 50 to 100° C., introducing butadiene, hydrocarbon solvent, and catalyst into said body of liquid reaction mixture and withdrawing equivalent quantities of reaction mixture therefrom to maintain an approximately constant volume at a rate permitting the formation and maintenance of polybutadiene in a concentration of at least 8 1/3 weight percent but not in excess of 66 2/3 weight percent in said reaction mixture exclusive of butadiene, the quantity of catalyst employed being not in excess of 2.0 parts by weight per 100 parts total butadiene feed employed, deactivating alkali metal in said solution, and recovering a clear low-color liquid polybutadiene-polymer in dissolved form.

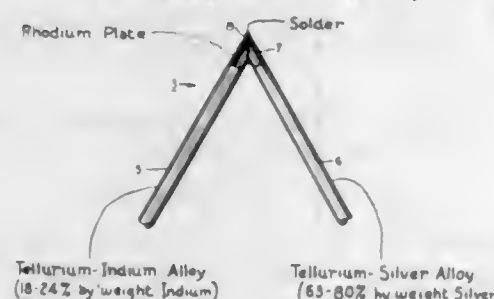


## ELECTRICAL

2,712,563

### THERMOELECTRIC ELEMENT

Harold T. Faus, Lynn, and Donald E. Ridgley, Beverly, Mass., assignors to General Electric Company, a corporation of New York  
Application April 23, 1952, Serial No. 283,986  
6 Claims. (Cl. 136-5)



1. A positive thermoelectric element consisting of tellurium and from 4 to 28% by weight indium.

2,712,564

### PRIMARY CELL

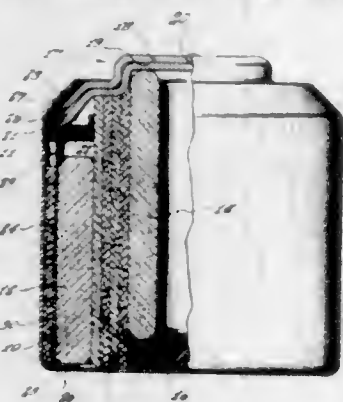
Ashford B. Fry, Percy F. George, and Roy C. Kirk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware  
No Drawing. Application November 26, 1952, Serial No. 322,822  
4 Claims. (Cl. 136-100)

1. In a primary cell the combination of an anode comprising a magnesium-base alloy containing up to 1.5 per cent of aluminum, from 0.1 to 0.7 per cent of zinc, from 0.05 to 0.5 per cent of calcium, the balance being commercial magnesium containing not over 0.005 per cent of iron, not over 0.002 per cent of nickel, and not over 0.1 per cent of manganese, a manganese dioxide depolarized cathode, and an electrolyte comprising an aqueous solution of an inorganic bromide selected from the group consisting of the water-soluble bromides of the alkali metals, alkaline earth metals, and ammonium.

2,712,565

### ELECTROCHEMICAL CELL

Fred D. Williams, Jr., New Rochelle, N. Y., assignor to Samuel Ruben, New Rochelle, N. Y.  
Application August 7, 1953, Serial No. 372,997  
15 Claims. (Cl. 136-107)



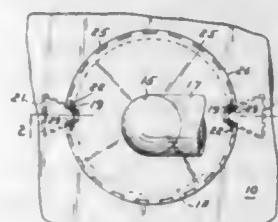
1. An electrochemical cell comprising, in combination, a metal casing, constituting one of the terminals of the cell, a top closure member for said casing constituting the other terminal of the cell and comprising a pair of metal plates superimposed upon one another, and an insulative sealing member confined between cooperating portions of said casing and of said closure member and constituting therewith a sealed enclosure for the cell while maintaining said casing and said closure member electrically disconnected from each other.

116

2,712,566

### INSULATOR FOR NEON SIGN LETTERS

Harry S. Matthews, Detroit, Mich.  
Application September 29, 1952, Serial No. 312,069  
4 Claims. (Cl. 174-153)

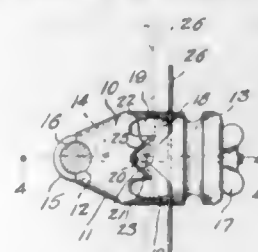


1. A readily removable insulator for attaching a tubular vertically extending luminescent gas-filled sign letter having a horizontal terminal end portion in an oversized aperture provided in the face plate of an electric advertising sign, said insulator comprising a flat cylindrical disk portion seated within said aperture and serving to substantially fill and close said aperture, said insulator having no rearwardly projecting portion extending inwardly beyond the inner face of said disk portion, said portion being provided with a through hole through which said terminal end portion projects rearwardly, said hole being of such slightly larger diameter than said terminal end portion that the latter substantially fills and close said hole, said terminal end portion having the major part of its rearward extension uncovered by said insulator whereby the connection terminals at the inner end of said terminal end portion of said sign letter are exposed and accessible, an annular serrated flange projecting laterally from the outer peripheral edge of said cylindrical disk portion, and means for holding said insulator for rotative, but nonaxial, movement within said aperture with the annular flange thereof in abutting engagement with the outer surface of said face plate.

2,712,567

### ELECTRIC FENCE INSULATOR

Samuel P. Caltrider, Westminster, Md.  
Application April 23, 1953, Serial No. 350,585  
1 Claim. (Cl. 174-161)



An insulator specially constructed to retain a slack wire of an electric fence comprising an insulated body, said body having a slot defining spaced longitudinal portions and an intermediate rearwardly extending substantially V-shaped portion generally in the form of a numeral 3, said slot also defining a rearwardly extending central lip and two outwardly extending spaced lips and a transverse bottom portion, said outwardly extending lips extending laterally of said central rearwardly extending lip in spaced relation thereto, and said central rearwardly extending lip extending in an opposite direction to said outwardly extending lips and inwardly between said outwardly extending lips, said slot constituting the V-shaped portion having a beveled wall inclining in the direction of said central lip, said slot being serpentine in form and extending transversely of said body, and said beveled wall being adapted to direct a slack fence wire into said

JULY 5, 1955

ELECTRICAL

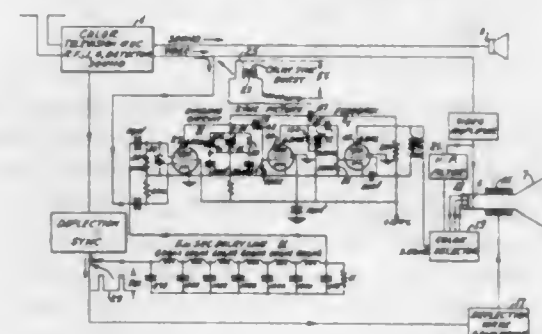
117

slot when a slack fence wire is dropped transversely across the body above the slot, the slot in the form of a numeral 3 being adapted to prevent the fence wire from jumping out of the slot even when the wire is relatively slack which is the normal condition of electric fence wires as distinguished from other fence wires.

2,712,568

### COLOR SYNCHRONIZATION

Jack Avins, Staten Island, and Marvin Kronenberg, Queens Village, N. Y., assignors to Radio Corporation of America, a corporation of Delaware  
Application July 23, 1951, Serial No. 238,162  
11 Claims. (Cl. 178-5.4)

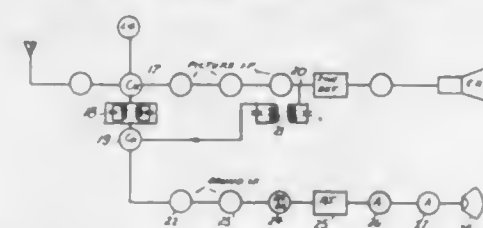


1. In a color television system of the type employing a scanning synchronizing pulse and a color synchronizing burst, a color synchronizing circuit comprising in combination, a signal gating circuit having a signal input terminal, a signal output terminal and a control terminal, means for applying a burst of color synchronizing signal to said input terminal, means for applying a scanning synchronizing pulse to said control terminal, a ringing circuit to develop electrical oscillations, said ringing circuit connected to said gating circuit output terminal, said ringing circuit tuned to the frequency of said burst, a color selector having a frequency control terminal, and a connection between said ringing circuit and said color selector frequency control terminal.

2,712,569

### TELEVISION RECEIVER

Robert S. Mautner, Massapequa, N. Y.  
Application March 3, 1951, Serial No. 213,760  
2 Claims. (Cl. 178-5.8)

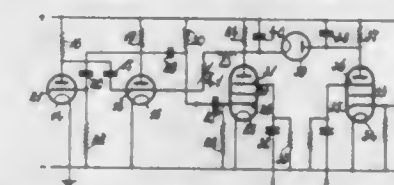


1. In a cathode ray tube television receiver, a cascade of radio frequency amplifier, first detector, video intermediate frequency amplifier and video detector, all arranged in said cascade in the aforementioned order, means connected to the output of said first detector prior to said video intermediate frequency amplifier for separating from the combined picture and sound signals the sound intermediate frequency carrier, said connection and separation being effective to avoid cross modulation in said video intermediate frequency amplifier between said picture and sound signals; means for separating from the output of said video intermediate frequency amplifier, the picture intermediate frequency carrier for converting said sound intermediate frequency carrier into sound intermediate frequency signals, sound reproducing means controlled by said intermediate frequency signals, and picture reproducing means controlled by said video detector.

2,712,570

### CIRCUIT-ARRANGEMENT IN TELEVISION RECEIVERS

Leendert Johan van de Polder, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application March 13, 1953, Serial No. 342,157  
Claims priority, application Netherlands April 10, 1952  
3 Claims. (Cl. 178-69.5)



1. A circuit-arrangement in a television receiver for the reception of image signals and of horizontal synchronizing pulses and vertical synchronizing pulses comprising a frequency divider having a frequency-dividing stage for deriving a vertical synchronizing signal from an oscillation derived from the horizontal synchronizing pulses, a vertical deflection sawtooth circuit, means for applying said vertical synchronizing signal to said vertical deflection sawtooth circuit to produce a vertical deflection sawtooth voltage therein, a phase comparison stage, means for applying said vertical deflection sawtooth voltage to said phase comparison stage, means for applying the vertical synchronizing pulses to said phase comparison stage to produce an indication of the phase relationship of said sawtooth voltage and said vertical synchronizing pulses, means connected between the output of said phase comparison stage and said frequency divider stage and responsive to said indication for varying the frequency of said frequency divider stage in the event of a phase difference.

2,712,571

### SIGNAL SYSTEM FOR TELEPHONE LINES

Svante Lennart Hjerstrand, Hagersten, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden  
Application October 26, 1951, Serial No. 253,345  
Claims priority, application Sweden November 21, 1950  
5 Claims. (Cl. 179-86)



1. In a telephone system a transformer, a transmitting line terminating in a first winding on said transformer, a sender sending direct current impulses of different polarity over said transmitting line, a receiver connected to a second winding on said transformer, said receiver comprising two receiving relays one for each impulse polarity and connected in parallel to the said transformer whereby such relays operate individually for respective different impulse polarities, each of the said receiving relays having respective break contacts connected to disconnect each other, a battery having two terminals and a center tap, said center tap connected to said relay break contacts and to one side of said second winding on said transformer, two impedances connected respectively one to each of said battery terminals and to respective relay break contacts, said terminals being so selected that the receiving relay which was disconnected by the response of the other receiving relay to its respective polarity is connected to a voltage bucking the operating voltage of such disconnected relay.



2,712,572

## SUPERIMPOSED PLURAL RECORDING

Bruce Roberts, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 27, 1947, Serial No. 737,695

8 Claims. (Cl. 179—100.2)



1. In the art of recording a magnetic record track on a record blank having a plane layer of magnetizable material consisting of separate magnetizable particles with their physical axes disposed and fixed at random and having uniform magnetic properties throughout the layer, the method which comprises producing a first record consisting of a series of discrete magnetized domains whose magnetic properties contrast with said uniform properties and which lie in a track, by generating a first magnetic field consisting of generally parallel magnetic lines of force of length less than the width of the field and generated in the plane of said layer, varying the intensity of said field in accordance with a signal while translating the record blank through said first field, producing a second record consisting of a series of discrete magnetized domains lying in the same track whose magnetic properties contrast both with said uniform properties and with the magnetic properties of said first domains, by generating a second magnetic field consisting of generally parallel lines of force of length less than the width of the field, and generated in said plane but normal to the lines of said first field, and varying the intensity of said field in accordance with a signal.

2,712,573

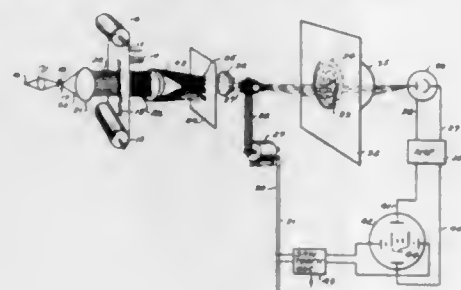
## APPARATUS AND METHOD FOR ANALYZING, COMPRESSING OR EXPANDING SPEECH AND OTHER SOUND RECORDINGS

Friedrich Vilbig, Cambridge, Mass.

Original application April 23, 1951, Serial No. 222,517. Divided and this application June 22, 1953, Serial No. 363,422

6 Claims. (Cl. 179—100.3)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The process of transmitting intelligence by wire or wireless means comprising, converting a recorded sound track into light spectra, altering the frequencies of said light spectra by a division factor to provide frequencies below anticipated interference frequencies without altering the total length of their time base, converting the factored frequencies into electrical pulses and transmitting them at their reduced frequencies, and receiving said transmitted frequencies and multiplying these frequencies by substantially the same factor as was used to prepare for transmission whereby the intelligence is returned to its original form for use.

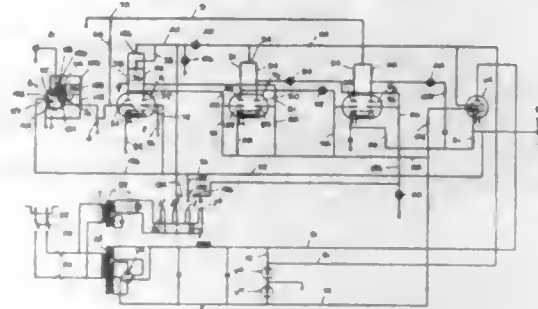
2,712,574

## INVERSE FEED-BACK STABILIZED DIRECT CURRENT AMPLIFIER

Robert M. Brink, Stamford, Conn., assignor, by mesne assignments, to Deering Milliken Research Corporation, near Pendleton, S. C., a corporation of Delaware

Application May 9, 1950, Serial No. 160,903

3 Claims. (Cl. 179—171)



1. A direct current amplifier comprising an odd number of stages of push-pull amplification feeding into a single tube amplifier output stage, at least the first of said push-pull stages including a double triode having a common cathode connected to operate above ground potential, a single ended input connection feeding into one grid of said double triode and an inverse feedback connection from the cathode of the tube in said output stage to the other grid of said double triode to cause said first stage of said amplifier to operate without phase inversion, said amplifier including a regulated voltage supply providing above and below ground lines, said output stage constituting a cathode follower circuit including a pentode, the cathode of said pentode being connected to the output terminal and through a cathode resistor to a line from said source, the potential of which is substantially below ground potential and the anode of said pentode being connected to a line from said source of high positive potential.

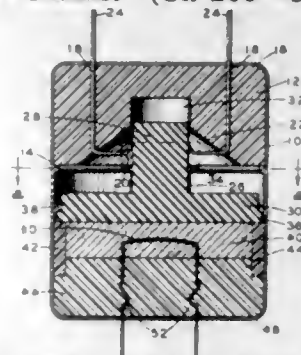
2,712,575

## SQUIB SWITCH

Kenneth M. Klei, Ann Arbor, Mich., assignor to the United States of America as represented by the Secretary of the Navy

Application February 27, 1948, Serial No. 11,477

4 Claims. (Cl. 200—52)



1. An electrical switch for a projectile fuze, said switch having a cylindrical case, a pair of opposed resilient contact members supported in one end thereof and terminating at an angle to the axis of the case, an axially shiftable plunger in the case, a central cylindrical stud on said plunger passing between the resilient contact members, a ring-shaped contact member on said stud and interposable between said resilient contact members said ring-shaped contact member having a frusto-conical flange formed on one edge thereof, means on said case for normally resisting any tendency of the plunger to move axially to bring the ring-shaped contact member into engagement with the resilient contact members, and explosive means carried in said case for propelling said plunger axially in the case to overcome the resistance of said first mentioned means to cause the terminations of the resilient contact members to slide over and snap behind the said flange and to lock the ring-shaped contact member in engagement with the resilient contact members.

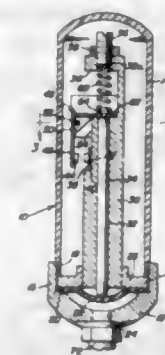
2,712,576

## SWITCH

Clarence F. Gibson, Benicia, Calif.

Application January 8, 1953, Serial No. 330,235

3 Claims. (Cl. 200—83)



1. A pressure actuated switch comprising a housing having upper and lower threadedly connected sections, said lower section having a peripheral shoulder, a diaphragm seated on said shoulder within said lower half, a retainer collar engaged within said lower section and retaining the diaphragm engaged against said shoulder, elongated combined guide and support member carried by said collar and extending upwardly into said upper section, a first contact secured to said member, a second movable contact pivotally supported adjacent the upper end of said member and movable into and out of engagement with said first contact, a plunger slidably carried by said member for moving the movable contact into engagement with the first contact, said plunger having a lower end engaged with said diaphragm, and said lower section having an inlet under said diaphragm whereby fluid under pressure may enter the diaphragm to flex the latter and move the plunger, said member having an axial bore accommodating the plunger and a cut-out portion adjacent the upper end of said member intersecting said bore, said movable contact including an arm extending into said cut-out portion over the upper end of the plunger, and spring means in said cut-out portion urging said arm against the upper end of the plunger and the movable contact away from the first contact.

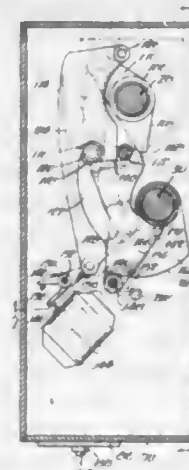
2,712,577

## HIGH VOLTAGE HIGH SPEED SHORT-CIRCUITING SWITCH

Manfred Stene, Chicago, Ill., assignor, by mesne assignments, to H. K. Porter Company, Inc. of Pittsburgh, Philadelphia, Pa., a corporation of Pennsylvania

Application August 9, 1952, Serial No. 303,460

13 Claims. (Cl. 200—89)



1. A high voltage short-circuiting switch comprising a stationary contact, a switch blade adapted to engage said contact, a shaft supporting said blade for movement in an arc toward and away from said contact, a lever secured to said shaft, a spring connected to said lever adapted when loaded to move said lever and rotate said shaft in a direction to engage said blade with said contact, means for rotating said shaft to move said blade

away from said contact and to load said spring, collapsible latch means for retaining said lever, said shaft and said blade in spring loaded position, said means including a member for manually tripping said latch means, electrical fault responsive means for tripping said latch means, said latch means when tripped releasing said shaft for high speed switch closing rotation under the actuation of said spring, and second latch means engageable with said lever when said blade engages said contact to prevent rebound of said lever, said shaft, and said blade.

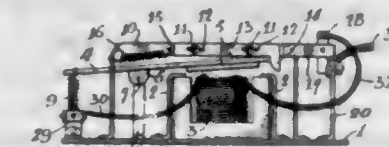
2,712,578

## RELAY

Jean Marie Theriault, Montreal, Quebec, Canada

Application March 30, 1953, Serial No. 345,632

1 Claim. (Cl. 200—106)



A relay comprising a base, an electro-magnet thereon, a plate pivotally mounted with respect to said base, and extending over said magnet, a soft iron armature carried by said plate and disposed over said magnet and at one side of the pivot point of said plate, a spring connected to said plate, at the other side of said pivot point, to said base and tensioned to space said armature from said magnet, a slide supported from said base and disposed over said plate, a dog extending from said slide over the end of said plate nearer said armature, a spring drawing said dog against said end, said dog engaging with said plate to hold said slide in one position when said magnet is deenergized and said slide being biased to move to a second position upon energization of said magnet releasing said dog, a pair of spaced contacts carried by said slide, a contact engageable by said spaced contacts in the unenergized position of said armature and plate, said dog being shaped to bias said plate toward said magnet.

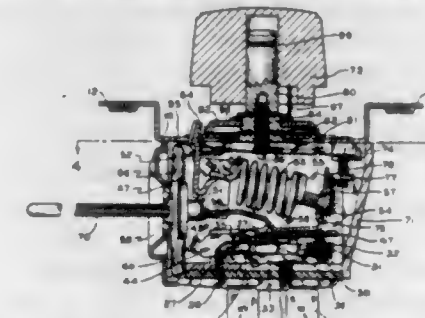
2,712,579

## CONTROL APPARATUS

Estel Coles Raney, Fort Lauderdale, Fla., assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio

Application January 20, 1954, Serial No. 405,164

4 Claims. (Cl. 200—140)

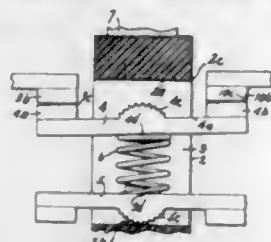


1. A control apparatus comprising a housing, a switch supported by said housing, a lever pivoted in said housing and operative to open and close said switch when the lever is moved about its pivot in opposite directions to first and second positions, a spring urging said lever in one direction about its pivot, a pressure expansible element operative to urge said lever in a direction opposite the first mentioned direction, a cantilever spring member extending alongside one wall of said housing and having its unsecured end engageable by said lever during movement from one of said positions to the other and to yieldingly resist movement of said lever toward said other positions, and a stop to limit movement of said spring toward said one position of said lever.



2,712,580

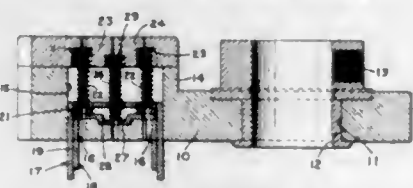
**CONTACT MAKING AND BREAKING DEVICE**  
Hershell A. Nickell, Alplaus, and Thomas L. Maslin,  
Schenectady, N. Y., assignors to General Electric Com-  
pany, a corporation of New York  
Application April 26, 1952, Serial No. 284,526  
3 Claims. (Cl. 200—166)



1. In a contact making and breaking device, a pair of stationary spaced apart contacts having their contacting surfaces approximately in the same plane, a movable actuating member disposed between said contacts for movement substantially normal to said plane, and having a planar surface, a bridging contact member providing intermediate its ends an arcuate portion with the extremities of its arc extending toward said ends and presenting its convex face toward said surface of said actuating member to provide for simultaneous separation of both said ends from said stationary contacts irrespective of misalignment of said stationary contacts in response to contact opening movement of said actuating member and engagement of said surfaces.

2,712,581  
SWITCH

John P. Smith, Jr., Verona, N. J., assignor to The Daven Company, Newark, N. J., a corporation of New Jersey  
Application May 9, 1952, Serial No. 286,866  
5 Claims. (Cl. 200—166)



1. In an electrical switch, a movable contact carrying body having a recess therein opening out through the upper surface of the body and provided with a pair of spaced openings opening from the inner end of said recess out through the underside of said body and having their outer sides aligning with the end walls of said recess, a pair of inverted U-shaped contacts nested one within the other and having their connecting bars in said recess and their legs projecting outwardly through said openings, springs within said recess and engaging the connecting bars of said inverted U-shaped members, a cover attached to said body and closing said recess for wholly enclosing said springs and all of said U-shaped members except the outwardly projecting ends thereof, the connecting bar of the inverted U-shaped member in which the other inverted U-shaped member is nested having an opening therein through which one of said coil springs projects for engagement with the connecting bar of the inner U-shaped member whereby said inverted U-shaped members may move one independently of the other.

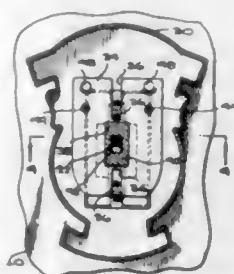
2,712,582

**COMBINED COVER AND OPERATING DEVICE FOR TOGGLE SWITCHES**

Leonard G. Peretti, Chicago, Ill.  
Application October 17, 1952, Serial No. 315,346  
1 Claim. (Cl. 200—172)

A cover and operating device for a toggle switch having a handle, comprising a main plate formed in the simulation of a human face and having a centrally located opening through which said handle is extendable,

said main plate having a pair of horizontally spaced apertures above and at opposite sides of said opening at the location of the eyes of said face; a movable plate slidably reciprocable on the main plate behind the same, said movable plate being formed with a boss slidably engaged in said opening and having an orifice through which said handle is extendable, the movable plate sliding between opposite extreme positions responsive to movement of the handle between "on" and "off" positions, the movable plate having side portions visible through the apertures in both of said extreme positions,



said portions having two pairs of human eyes delineated thereon, the eyes of one pair being open and being registered with the apertures in one extreme position of the movable plate, and the eyes of the other pair being closed and being registered with the apertures in the other extreme position of the movable plate; and a handle piece fixed to the movable plate in front of the main plate and formed in the simulation of the nose of the face, the handle piece having a recess communicating with said orifice to receive the switch handle, for operating the switch responsive to manual reciprocation of the handle piece over the surface of the main plate.

2,712,583

**ELECTRIC CONTROLLER**

George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co., Inc., Dover, N. H., a corporation of New York

Application April 10, 1952, Serial No. 281,618  
12 Claims. (Cl. 201—55)



1. In a control a cover for a casing, said cover being formed with a keyhole opening and a second opening spaced from said keyhole opening, a collector ring applied to the inner face of said cover, an extension forming a part of said ring and projecting into said second opening, a terminal also extending from said ring and passing through said keyhole opening and said terminal being formed with notches at a point short of its end to interlock with the surfaces of said cover adjacent said keyhole opening to removably retain said collector ring in position.

2,712,584

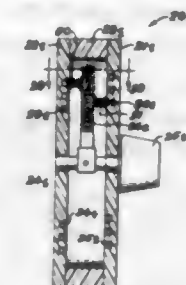
**POTENTIOMETERS**

Steven Pantages, New York, N. Y.  
Application August 5, 1954, Serial No. 448,027  
18 Claims. (Cl. 201—56)

1. A potentiometer or the like comprising two spaced apart, parallel walls of insulating material, resistance ele-

2,712,586

**HIGH FREQUENCY HEATING SYSTEM**  
Allan Otto Georg Palmgren, Göteborg, and Lars Göte Wästberg, Stockholm, Sweden, assignors to Aktiebolaget Bostadsforskning, Stockholm, Sweden, a Swedish joint-stock company  
Application May 19, 1953, Serial No. 356,028  
Claims priority, application Sweden May 23, 1952  
2 Claims. (Cl. 219—10.71)

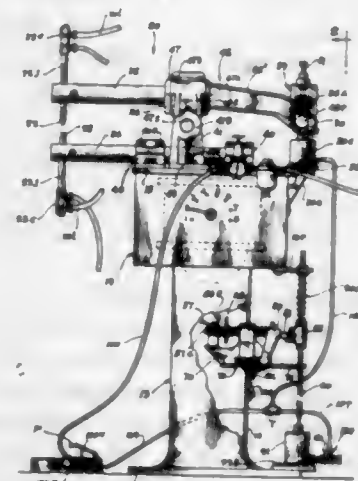


path in said space, and guide means cooperating with said contact means and constraining the latter to successively engage said resistance elements during movement of said contact means along said closed path.

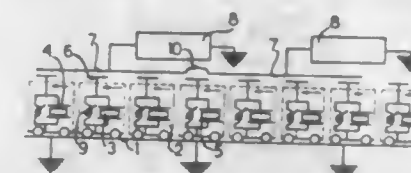
2,712,585

**PNEUMATICALLY OPERATED AND CONTROLLED RESISTANCE WELDER**

Steven Domeny, Chicago, Ill., assignor to Ada Metal Products, Chicago, Ill., a corporation of Illinois  
Application June 8, 1953, Serial No. 360,101  
4 Claims. (Cl. 219—4)



1. In an electrical resistance welder having a pair of opposed welding electrodes mounted in respective arms and a transformer for supplying current to the electrodes to establish welding temperatures, a pivot for one of said arms to permit the electrodes to be brought together with substantial pressure in a welding relationship, a cylinder having a pneumatically operable piston for acting on said one arm beyond the pivot therefor, a normally open switch for connecting the transformer to a source of electric power to thereby supply current in operative amounts to the electrodes when the latter are in said welding relationship, a pivoted lever adapted to close said switch and including a cam surface thereon, another cylinder having a pneumatically operable piston arranged to travel adjacent said switch and including a one-way trip thereon adapted to engage and ride along the cam surface on said lever to hold the switch closed for a predetermined portion of travel of the second-named piston in one direction until the one-way trip passes off said cam surface while moving in said one direction, means to return said switch to open position after said trip has been carried past said lever by the second-named piston, an adjustable valve associated with the second-named cylinder and piston to regulate its rate of travel and thereby the time period during which the switch is held closed as aforesaid, and means to adjust said lever on the pivot therefor to increase and decrease the amount of travel of said trip on the cam surface of said lever.

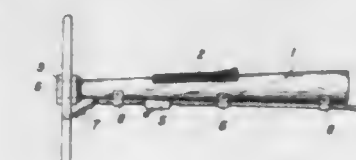


1. In equipment for simultaneously heating and pressing dielectric work pieces; the combination of a plurality of carriages coupled together to form an endless train, an endless race for said train, means for imparting continuous motion to said train, work compressing means on each of said carriages, said compressing means including a relatively fixed jaw, a relatively movable jaw and means for urging said movable jaw towards said fixed jaw for compressing a work piece therebetween, spaced heating electrodes mounted on said jaws and facing the work piece, an antenna plate on each of said carriages, said antenna plate being connected to at least one of said heating electrodes of the compressing jaws of the related carriage, another one of said heating electrodes being grounded to said race, a variable inductance on each of said carriages, said inductance being shunted between said antenna plate and said grounded heating electrode of the related carriage to form with said heating electrodes a separate turnable oscillatory load circuit on each carriage, at least one stationary transmission plate extending along a part of said race and positioned to be closely passed by the respective antenna plates of said moving carriages, and a high frequency oscillator grounded to said race and connected to said transmission plate for transmitting high frequency energy capacitively therefrom to said passing antenna plates and hence to the oscillatory load circuit of each carriage passing said transmission plate thereby causing said load circuit to temporarily produce a relatively high current flow through the compressed work piece in response to a relatively low current flow through the oscillator circuit.

2,712,587

**ELECTRIC BRANDING APPARATUS**

Malcolm C. Story, Bozeman, Mont.  
Application December 2, 1952, Serial No. 323,548  
1 Claim. (Cl. 219—30)

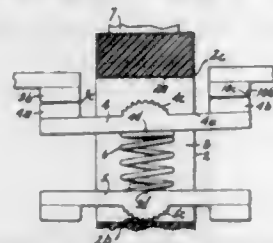


Branding apparatus comprising the combination of an electrically heated branding element and a stencil or guide, said element having a looped portion and a shank portion, a first handle, mounting means connecting said shank portion to said first handle, electrical leads attached to said element and secured to the surface of said handle, said guide being provided with a second handle, said second handle being angularly connected to said guide, the surface of the looped portion of the branding element traversing an outline provided in said guide whereby a predetermined brand is formed while the guide is held against the surface to be branded.



2,712,580

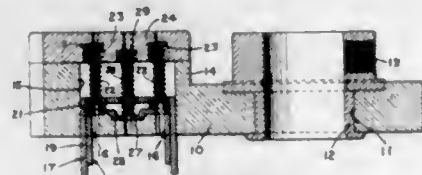
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SWITCH

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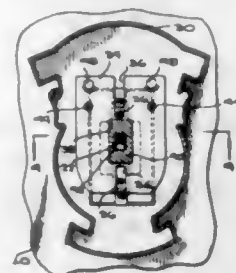
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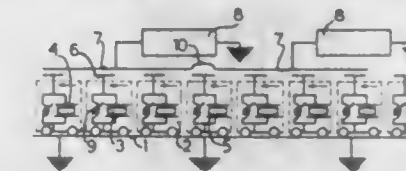
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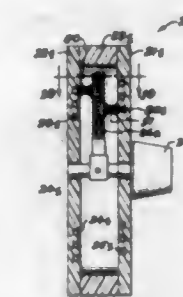
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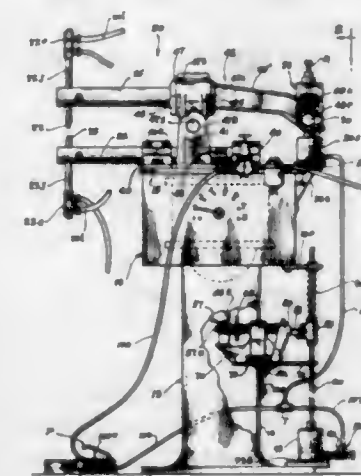
ments on the confronting faces of said walls with the ends of said resistance elements registering across the space between said walls, contact means movable along a closed



path in said space, and guide means cooperating with said contact means and constraining the latter to successively engage said resistance elements during movement of said contact means along said closed path.

2,712,585

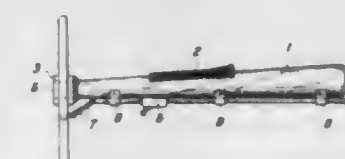
**PNEUMATICALLY OPERATED AND CONTROLLED RESISTANCE WELDER**  
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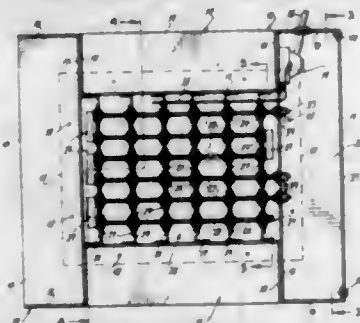
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Malcolm C. Story, Bozeman, Mont.  
Application December 2, 1952, Serial No. 323,548  
1 Claim. (Cl. 219—30)



Branding apparatus comprising the combination of an electrically heated branding element and a stencil or guide, said element having a looped portion and a shank portion, a first handle, mounting means connecting said shank portion to said first handle, electrical leads attached to said element and secured to the surface of said handle, said guide being provided with a second handle, said second handle being angularly connected to said guide, the surface of the looped portion of the branding element traversing an outline provided in said guide whereby a predetermined brand is formed while the guide is held against the surface to be branded.

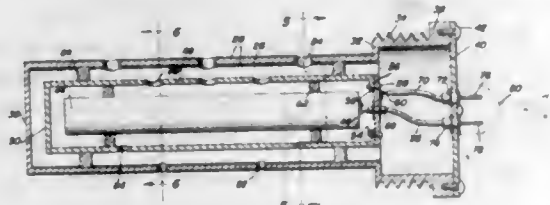


**2,712,588**  
**ELECTRICAL HEATING APPARATUS**  
 Milton Epstein, University City, Mo., assignor to Industrial Engineering & Equipment Co., St. Louis, Mo., a corporation of Missouri  
 Application September 30, 1953, Serial No. 383,326  
 7 Claims. (Cl. 219—34)



1. In a space heater adapted for use in a duct work system, a housing structure having spaced top, bottom and side walls, said walls defining a heating compartment, a heating coil disposed internally of the housing structure between said walls, means located between the walls for carrying the coil, spaced mounting flanges extending outwardly from the walls, said flanges being adapted to mount the housing structure in the duct work system, terminals carried by and located externally of the wall of said housing structure, said mounting flanges and the wall carrying said terminals defining a terminal compartment adjacent to and separate from the heating compartment, said heating coil being electrically connected to said terminals, and a removable panel on the outermost side of the terminal compartment affording access to said compartment and to said terminals for connection and service attention.

**2,712,589**  
**WATER HEATER**  
 Charles T. Piermatteo, Philadelphia, Pa.  
 Application June 14, 1954, Serial No. 436,544  
 8 Claims. (Cl. 219—40)

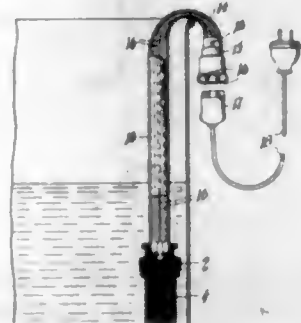


8. An electric water heater comprising a first cylindrical electrode, said electrode being constructed of carbon, a second cylindrical electrode including said first electrode, a plurality of ring insulators spacing said electrodes, a substantially cylindrical housing including said electrodes, a plurality of ring insulators spacing said housing from said electrodes, electrical conductors connected to said electrodes, said conductors extending in insulated relation through said housing, said second electrode having upper and lower perforations therein, said housing having upper and lower apertures therein, the upper apertures having greater capacity than the lower apertures.

**2,712,590**  
**PORTABLE HEATER**  
 James W. Doble, Oshawa, Ontario, Canada  
 Application March 17, 1953, Serial No. 342,853  
 4 Claims. (Cl. 219—41)

1. A portable heating device of the kind described comprising a heating element having metal clad terminals, a metal plate forming a support for said heating element and having the said terminals passing therethrough, the metal sheaths of said terminals being bonded so as to be integral mechanically with the structure of said plate, a head member bonded to said plate to provide a gas proof

joint therebetween, a tubular conduit having one end flared forwardly and outwardly, a recess in the terminal side of said head contoured to co-act with the inner surface of said flared end, and having screw-threads in its inner side walls, a securing ring contoured on its inner wall to co-act with the outer surface of said flared end and having



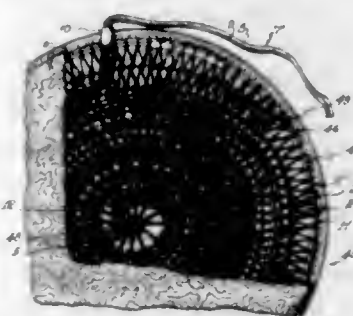
threads upon its outer wall designed to mesh with the threads in said head, the tubular conduit being turned over near its other end to form a hook for hanging said heating element captive to the edge of a specified vessel containing a substance to be heated thereby, and electricity supply cable means passing through said conduit to the live terminals of said heater.

**2,712,591**  
**ELECTRICAL BANDAGE**  
 Albert S. Rogell, Beverly Hills, Calif.  
 Application April 3, 1953, Serial No. 346,599  
 5 Claims. (Cl. 219—46)



3. An electrical bandage comprising an elongated flexible insulating strip having imbedded therein a plurality of parallel arranged thin flat current conducting ribbons equally and slightly spaced apart, and means for conducting current to certain ends of said ribbons, all of the ends of one group of said ribbons adjacent one another being connected together, the other ends of said ribbons being connected to said last mentioned means to form an electrical loop in said strip, the outer edge of one of said outer ribbons being spaced approximately three eighths inch from one outer edge of said strip and the outer edge of the other outer ribbon being spaced approximately five eighths inch from the other outer edge of said strip.

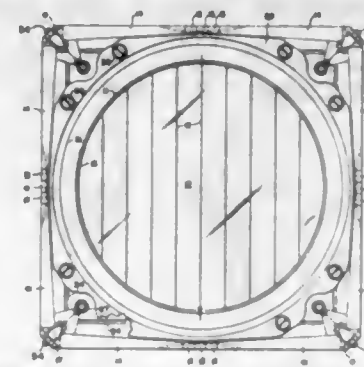
**2,712,592**  
**ELECTRICALLY INTERNALLY HEATED AUTOMOBILE SEAT CUSHION**  
 Joseph Goldstein, Newark, and Saul Dennison, East Orange, N. J.  
 Application July 17, 1953, Serial No. 368,732  
 2 Claims. (Cl. 219—46)



2. An electrically heated cushion for an automobile seat comprising a hollow wire coil unitized in the plane of the seat in the form of a tightly fastened spiral, an electrically heatable ribbon element disposed substantially

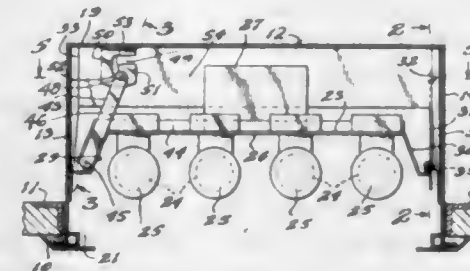
concentrically within said coil, and electrical plug connections on the ends of said ribbon element for plugging same into an electrical outlet in said automobile.

**2,712,593**  
**EDGE ILLUMINATED DIAL**  
 Robert B. Merchant, Glyndon, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware  
 Application April 21, 1951, Serial No. 222,273  
 6 Claims. (Cl. 240—2.1)



1. An edge illuminated dial comprising a dial plate of transparent light conductive material, raised portions formed on one face of said dial plate along the edges thereof, a source of light completely enclosed in each of said raised portions, each of said raised portions tapering from a maximum thickness at the location of its enclosed light source to a minimum thickness at a distance therefrom and adjacent to the corresponding region of minimum thickness of another of said raised portions, the edge of said dial plate on the opposite face thereof from said raised portions being formed between and beneath said adjacent regions of minimum thickness thereof with a flat surface inclined to the median plane of said dial plate by an acute angle and extending from one face of said dial plate to the other, and a layer of opaque material completely enclosing all exposed areas of said raised portions and the edges of said dial plate including said inclined surfaces, whereby light from said sources is conducted along said raised portions into said dial plate between said regions of minimum thickness of said raised portions and is directed through said dial plate toward the center thereof by said inclined flat surfaces.

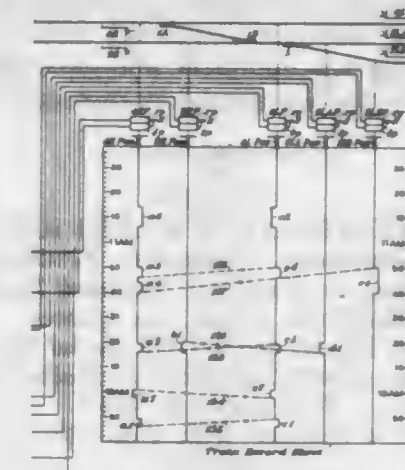
**2,712,594**  
**LIGHTING FIXTURE AND FLUORESCENT TUBE SUPPORT THEREFOR**  
 Anthony E. Zingone, New York, N. Y., assignor to Neo-Ray Products, Inc., New York, N. Y., a corporation of New York  
 Application July 11, 1952, Serial No. 298,361  
 3 Claims. (Cl. 240—51.11)



1. In a lighting fixture, a housing having an open bottom, a support having fluorescent tube sockets depending from the under side thereof for receiving fluorescent tubes, and means releasably suspending said tube support within the housing consisting of links arranged at the opposite longitudinal sides thereof, the links on one side being pivotally connected to the housing for

swinging movement parallel with the length of the housing and having means at the lower ends thereof adapted to engage cooperating means on said support for releasably connecting the support with the links, and the links on the opposite side of the support being pivotally connected thereto at their lower ends for swinging movement transversely of the support and being pivotally connected at their upper ends to the housing to permit swinging movement of the support to depending relation when the support is released from the links on said one side thereof.

**2,712,595**  
**RAILWAY TRAFFIC RECORDING APPARATUS**  
 Ira F. Cadman, St. Louis, Mo., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania  
 Application April 4, 1951, Serial No. 219,183  
 10 Claims. (Cl. 246—107)



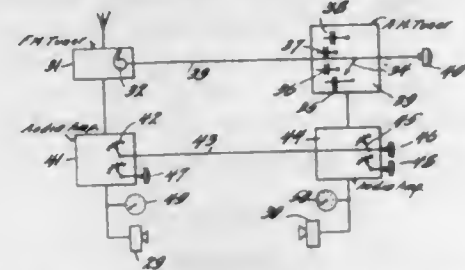
1. In railway traffic recording apparatus for a plurality of railway tracks interconnected by switches which can be arranged in normal and reverse positions to form various traffic routes and provided with a plurality of signals one for each route entrance point for governing traffic movements over said routes, including a plurality of route check stick relays, including a plurality of manually operable signal control devices one for each of said route check stick relays, including a pickup circuit for each of said route check stick relays for each of corresponding routes, each of said pickup circuits closed only if the switches in the corresponding route are in the position required for the corresponding route, each of said pickup circuits also controlled by the corresponding signal control device, and including a stick circuit for each of said route check stick relays closed only if a signal for a corresponding route is controlled to display a proceed indication while the corresponding route is unoccupied, the combination comprising, a plurality of route relays, a pickup circuit for each of said route relays controlled by means including a corresponding route check stick relay in the energized condition, a stick circuit for each of said route relays closed in response to occupancy of a corresponding route by a train, a train graph pen for each route entrance point, each of said pens having a deenergized position and a first and a second energized position, a plurality of train graph relays, a pickup circuit for each of said train graph relays closed by a corresponding route relay in its energized condition when a corresponding route becomes occupied, a stick circuit for each of said train graph relays controlled by a corresponding route relay in the energized condition, means controlled by said train graph relays in response to traffic movements in a given direction for operating the pens for corresponding routes to said first energized position, and means controlled by said train graph relays in response to traffic movements in the opposite direction for operating the pens for the corresponding routes to said second energized position.



2,712,596

**BINAURAL RADIO SYSTEMS**

Harold T. Sherman, New York, N. Y.  
Application June 18, 1952, Serial No. 294,200  
5 Claims. (Cl. 250-6)

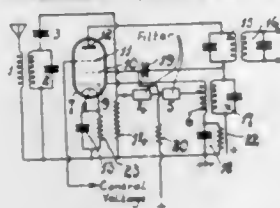


5. A receiver for binaural signals comprising a frequency modulated tuner, an amplitude modulation tuner, an audio amplifier for each tuner, indicating means for indicating any difference in outputs of the two amplifiers, means for adjusting the relative gains of the amplifiers whereby the outputs of the amplifiers may be adjusted until the aforesaid indicating means shows equal outputs from the two amplifiers, and separate spaced loud speakers fed by the two amplifiers respectively.

2,712,597

**SUPERHETERODYNE RADIO RECEIVER**

Bernhardus Gerhardus Dammers, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application February 15, 1950, Serial No. 148,728  
Claims priority, application Netherlands  
February 16, 1949  
4 Claims. (Cl. 250-20)

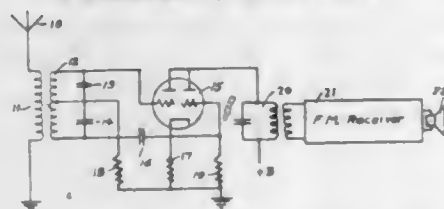


1. A mixing circuit arrangement for mixing a first wave and a second wave to produce an intermediate frequency wave, comprising an electron discharge tube having in successive dispositions a cathode, a first control grid, a screen grid, a second control grid and an anode, a first impedance network tuned to the frequency of said intermediate frequency wave and coupled between said anode and said cathode, a second impedance network interposed between said first impedance network and said cathode, means to couple the end of said first impedance network remote from said anode to said screen grid, means to couple said second impedance network to said first control grid in regenerative relationship at the frequency of said second wave, means to apply said first wave to said first control grid, and means to apply a control voltage to said second control grid to vary the current distribution between said screen grid and said anode.

2,712,598

**WIRELESS BROADCASTING SYSTEMS**

Elavathur Subramanian Viswanathan Pattamaly, Kannimangalam, Nemmara, India  
Application May 21, 1951, Serial No. 227,342  
2 Claims. (Cl. 250-20)



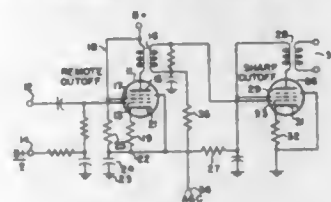
1. A detector circuit for a carrier wave which has amplitude-modulated a frequency-modulated primary wave comprising, a double triode having two anodes, and

separate grids for controlling electron flow to said anodes, means connecting both anodes together in an output circuit, means for applying said carrier wave between the cathode and one grid, and means for applying said carrier wave between the cathode and the other grid in quadrature phase relation with respect to the wave applied to said first grid.

2,712,599

**AUTOMATIC GAIN CONTROL FOR REMOTE CUT OFF TUBE**

George W. Carter, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware  
Application June 27, 1951, Serial No. 233,791  
9 Claims. (Cl. 250-20)

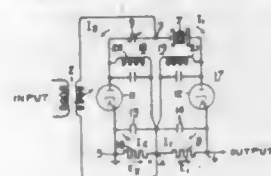


1. A gain controlled amplifier comprising: a remote cutoff discharge device having a grid, a cathode and a plate; a sharp cutoff discharge device having a grid, a cathode and a plate; a source of supply current having positive and negative terminals; a circuit serially connecting said devices to said source, including a conductive connection between said plate of said remote cutoff device and said positive terminal, a conductive connection between said cathode of said sharp cutoff device and said negative terminal, and a conductive connection between said cathode of said remote cutoff device and said plate of said sharp cutoff device; signal frequency input and output circuits for each of said devices; signal frequency coupling means between said output circuit of one of said devices and said input circuit of the other of said devices; bias means for said remote cutoff device; and a source of gain controlling potential operatively connected to said input circuit of said sharp cutoff device.

2,712,600

**FREQUENCY RESPONSE CIRCUITS**

Robert W. Beckwith, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York  
Application December 18, 1950, Serial No. 201,413  
6 Claims. (Cl. 250-27)



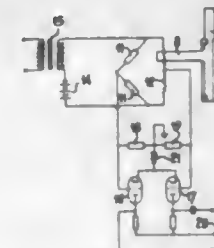
1. In apparatus for discriminating between waves of two different frequencies, the combination of a pair of input terminals to which said waves are supplied, a pair of parallel paths between said terminals, each path including a rectifying device and a load impedance adapted to have unidirectional potentials developed thereon in response to said waves, each path also including in series with said rectifying devices and load impedance a current controlling element, one element being a piezoelectric crystal exhibiting series resonance and parallel resonance near said two frequencies respectively and substantially pure capacity reactance above and below said frequencies, the other element being a capacitor, each path including means connected in parallel with said rectifying device and said load impedance and having a high impedance at said frequencies and exhibiting a high impedance at a frequency below said frequencies and a lower impedance at other frequencies in the pass band thereof and presenting a low resistance

for unidirectional currents, output means responsive to the difference between potentials developed across said load impedances, said capacitor being adjusted to impress minimum resultant output potential on said output means at frequencies for which said crystal exhibits substantially pure capacitive reactance.

2,712,601

**MECHANICAL-ELECTRICAL TRANSDUCER**

Oskar Reinwald, Geneva, Switzerland, assignor to Volt-ohm Processes Limited, Tangier, a company of Tangier  
Application June 6, 1952, Serial No. 292,069  
Claims priority, application Switzerland June 9, 1951  
4 Claims. (Cl. 250-27)



1. A mechanical-electrical transducer, comprising in combination, an electrical bridge having arms, a conductor forming at least one of said arms of said electrical bridge, said conductor being arranged in a magnetic field and consisting at least partly of a material having a specific resistance depending on the magnetic field in which said conductor is arranged, mechanical means for varying the magnetic flux traversing said conductor, a source of direct voltage, a source of alternating voltage connected in series to said direct voltage source so as to yield a combined voltage, said combined voltage being fed to said electrical bridge, and two electron tubes having control grids, respectively, said electrical bridge having an output voltage applied in phase opposition to said control grids of said tubes.

2,712,602

**REFLECTION-FREE ANTENNA**

Erik Gustaf Hallén, Stockholm, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden  
Application April 27, 1951, Serial No. 223,249  
Claims priority, application Sweden May 3, 1950  
9 Claims. (Cl. 250-33)



1. In an antenna system having connection terminals at least one antenna component comprising a plurality of capacitance means in series arrangement, the capacitance of said capacitance means gradually decreasing in the direction away from said terminals of the antenna system thereby suppressing the development of a wave interfering with a current wave generated in the antenna system.

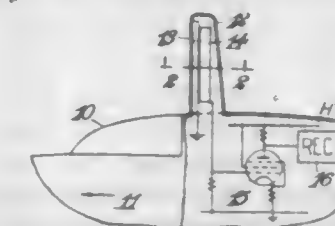
2,712,603

**AIRCRAFT RECEIVING ANTENNAE**

Donald Edward Bridges and William Joseph O'Brien, London, England, assignors to The Decca Record Company Limited, London, England, a British company  
Application May 7, 1951, Serial No. 224,870  
Claims priority, application Great Britain May 10, 1950  
16 Claims. (Cl. 250-33)

1. A radio receiving system for an aircraft comprising two adjacent conductors one of which forms an antenna member and the second of which is so constructed and disposed around the front of and wholly forward of the rear edge of the antenna member as to form a shield member, a receiver having an input terminal and a

ground terminal for receiving a signal applied between said input terminal and said ground terminal, means

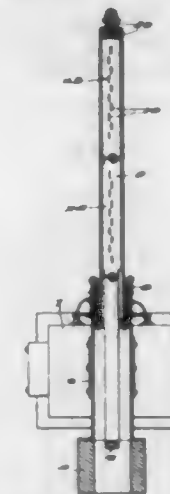


coupling said antenna member to said input terminal and an impedance of negligible value connecting said shield member to said ground terminal.

2,712,604

**ANTENNA ASSEMBLY WITH DE-ICING MEANS**  
Charles Edgar Thomas, Jr., and Sanford Hershfield, Baltimore County, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application July 26, 1951, Serial No. 238,686  
3 Claims. (Cl. 250-33)

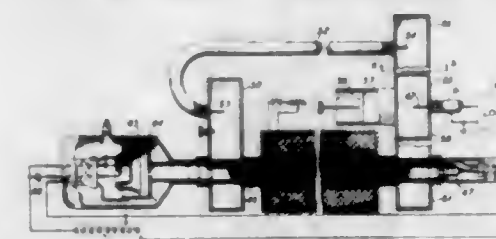


1. An antenna assembly comprising an elongated slotted waveguide antenna, said waveguide antenna having the slots therein spaced longitudinally therealong and arranged to form two slot arrays disposed symmetrically with respect to the central portion of said antenna, and means for coupling electro-magnetic energy to said antenna at a point between said arrays comprising a co-axial transmission line extending lengthwise along one edge of said waveguide, a housing for said co-axial line extending along and secured to said edge, and the opposite edge of said waveguide being formed to conform in contour to the contour of said housing, whereby to maintain the radiation pattern of said antenna substantially symmetrical about the axis thereof.

2,712,605

**OSCILLATION GENERATOR**

Lester M. Field, Santa Clara, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application December 9, 1948, Serial No. 64,309  
6 Claims. (Cl. 250-36)



4. Apparatus for generating high frequency electrical oscillations comprising a source of electrons, means for forming electrons from said source into a stream along an extended path, wave transmission means disposed along



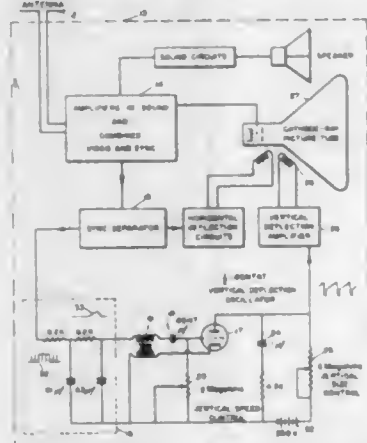
said path whereby high frequency waves propagated over the said transmission means will interact relatively continuously with the said electron stream to produce amplification of the said waves, the said wave transmission means having an input end and an output end, and a four-arm duplex balancer comprising four wave transmission arms connected at a common junction point so as to provide substantial conjugacy between the two arms of each of two pairs as regards wave energy transmission over either arm toward the junction, whereby energy transmission is not coupled into the other arm of that pair and is divided equally between the arms of the other pair, one arm of the duplex balancer being coupled to said output end of the wave transmission means, one arm being coupled to said input end of the wave transmission means, one arm being connected to a load circuit and one arm providing a reflecting circuit adjustable in electrical length.

2,712,606

## BLOCKING TUBE OSCILLATOR

Harold E. Beste, Verona, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware

Application October 7, 1949, Serial No. 120,120  
2 Claims. (Cl. 250-36)



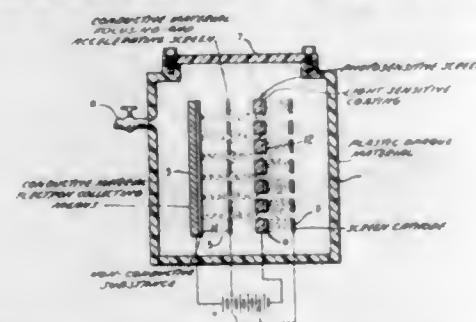
1. An oscillator comprising an electronic tube having a cathode, a control grid, and an anode, a source of voltage having a positive terminal and a negative terminal, a resistance connected between said control grid and said negative terminal, a source of synchronizing signals, a transformer having a first winding connected in series with a condenser between said control grid and said source of synchronizing signals and a second winding connected between said cathode and said negative terminal, a resistance connected between said positive terminal and said anode, and a utilization circuit connected to said anode.

2,712,607

## DEVICE FOR INTENSIFYING PHOTOELECTROSTATIC IMAGE

Carl Orlando, Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application July 1, 1952, Serial No. 296,780  
5 Claims. (Cl. 250-49.5)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



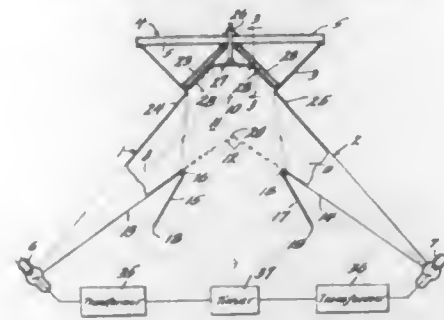
1. A device for intensifying a photoelectrostatic image comprising an evacuable chamber, an emissive electron

source within said chamber at one end thereof, electron collecting means at the other end thereof, means for focusing said emitted electrons to impinge on said collecting means, means intermediate said electron source and said focusing means for controlling the amount of electrons impinging on said collecting means comprising a screen having a photoelectrostatic image thereon, removable means for permitting ingress to and egress from said chamber, and means for evacuating said chamber.

2,712,608

## METHOD AND APPARATUS FOR STEREOSCOPIC X-RAY PRODUCTION

Sherman W. Atwell, Brookline Village, Mass.  
Application October 15, 1949, Serial No. 121,534  
23 Claims. (Cl. 250-60)

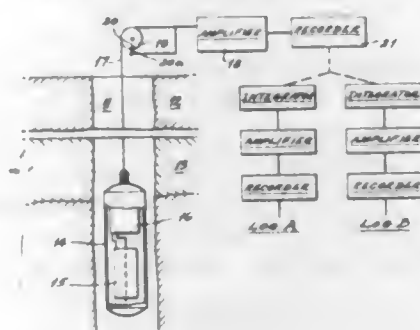


13. A stereoscopic X-ray apparatus comprising spaced apart X-ray tubes, a radiopaque tunnel associated with each said tube, each tunnel being coordinated at one of its ends with one of said tubes for controlling the direction of X-ray propagation from the said tube, a housing including an object zone, the said tunnels extending to the said object zone and merging with the said housing at said object zone, said housing having an end wall portion comprising a focal plane adapted for supporting X-ray films, each film being respectively complementary to one of said tubes for exposure thereby, and means in said housing adapted to substantially prevent interference in the exposure of the respective films by X-rays emanating through a tunnel from a tube not complementary thereto.

2,712,609

## SURVEYING BY DETECTION OF RADIATION

Gerhard Herzog and Arthur H. Lord, Jr., Houston, and Evan Pancake, Bellaire, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware  
Application March 24, 1950, Serial No. 151,662  
13 Claims. (Cl. 250-83.6)



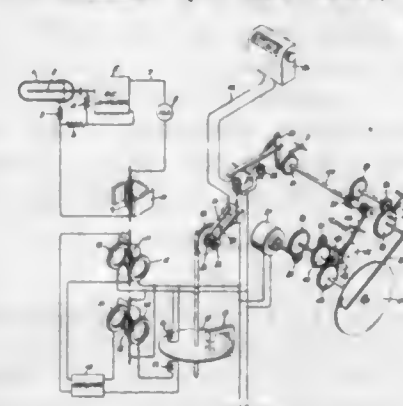
1. Radiation detection apparatus comprising: a device for recording a train of electrical pulses, which device has a known upper-frequency limit; means responsive to nuclear radiation to produce a train of current impulses; scaling means, having its input coupled to the last-mentioned means and its output connected to the recording device, and responsive to the arrival of a group of a predetermined number of successive current impulses at its input to produce one electrical pulse at its output, whereby the scaling means will feed to the recording device a train of said electrical pulses at an average occurrence rate which is a fraction of that of the current impulses, said scaling means including means for

producing the electrical pulses each to have a wave-form which varies substantially-harmonically-with-time over its duration and to have a substantial duration as compared to the average duration of the impulses to permit recording of the largest possible average number of said pulses in the recording device for its known upper-frequency limit, whereby the apparatus is capable of the maximum possible detection of intense radiation for a given scaling factor.

2,712,610

## RADIATION MONITOR

Edward E. Lynch, Wakefield, Mass., assignor to General Electric Company, a corporation of New York  
Application June 26, 1952, Serial No. 295,713  
11 Claims. (Cl. 250-83.6)



1. A radiation monitor comprising means providing an electric current proportional in value to the radiation monitored, means responsive to said current providing successive electric current pulses at rates proportional to the values of said current, timed means, and means responsive to said timed means and said current pulses providing indications proportional to the number of said pulses provided during predetermined time intervals.

2,712,611

## OPTICAL SCANNING HEAD FOR FACSIMILE TRANSMITTER

Alexander Nyman, Dover, Mass., assignor to Alden Products Co., Brockton, Mass., a corporation of Massachusetts

Application January 12, 1951, Serial No. 205,731  
1 Claim. (Cl. 250-219)



For continuously scanning copy in facsimile transmission and the like a scanner comprising an exposed drum for carrying the copy on the outside thereof, a housing outside said drum, a source of light in the housing, an optical minifying system interposed between the light source and copy to focus light from the source on the copy in a scanning spot of the order of 0.01 to 0.015 inch to define an elemental scanning area, said minifying system including a diverging lens adjacent the light source and a converging lens adjacent the drum, and means responsive to light from said spot for transmitting signals produced by scanning the copy with said spot, said means including a light-sensitive device and a tubular member on the housing extending from said device toward said spot, said member having an unobstructed, non-refractive passageway large enough to permit the passage of light from said area of the copy, and said member being spaced from said drum to permit observation of said spot on said copy while preventing substantial reflection of light from the copy to

the device except from said area, whereby the size and location of the scanning spot may be adjusted on the copy visually by direct observation and whereby said passageway prevents substantially all light from falling on said devices except that which is reflected from said spot.

2,712,612

## VOLTAGE REFERENCE INDICATING VALVE

Albert Lieb, Oberesslingen, Germany, assignor to C. Lorenz Aktiengesellschaft, Stuttgart-Zuffenhausen, Württemberg (Baden), Germany, a corporation of Germany  
Application November 10, 1951, Serial No. 256,941  
Claims priority, application Germany November 11, 1950  
3 Claims. (Cl. 313-107.5)



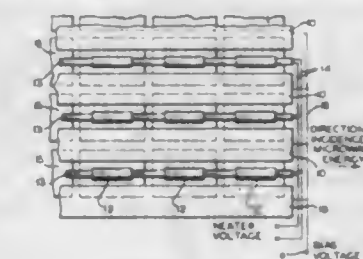
1. A voltage reference indicating valve comprising an evacuated envelope, an electron emitting cathode, a fluorescent anode and two control electrodes for controlling the fluorescent pattern, said two electrodes being mounted symmetrically with respect to a plane which runs through the cathode axis and intersects the fluorescent anode, said electrodes consisting of two pins inclined with respect to the axis of said cathode.

2,712,613

## ELECTRONIC TUBE

John B. Garrison, Cambridge, and George H. Vineyard, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application March 4, 1946, Serial No. 651,873  
11 Claims. (Cl. 315-1)



1. An electron tube for indicating the strength and distribution of energy in an incident electromagnetic field comprising, a plurality of spaced rectifying elements supported in a plane and disposed for uniform exposure to said field, means for matching the impedance of said elements to the impedance of free space at a predetermined frequency, means for applying a biasing potential to each of said elements by means of a common conductor, a plurality of storage capacitors each formed by an insulated metallic plate spaced from said rectifier elements and said common conductor, means for mounting said plates in a plane parallel to the plane of said rectifying element, means connecting each rectifier element to a separate storage capacitor, means for scanning the insulated plates of said storage capacitor with an electron beam, and means for indicating fluctuations in the current of said beam caused by incidence of said beam on said plates.

2,712,614

## TRAVELLING WAVE TUBES

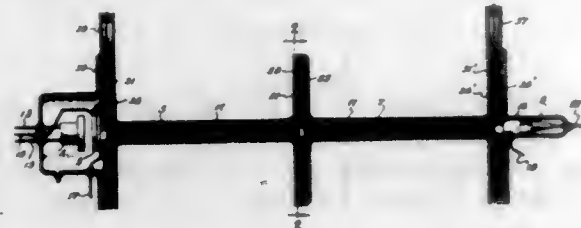
Lester M. Field, Palo Alto, Calif., assignor to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif., a legal entity having corporate powers of California

Application June 30, 1950, Serial No. 171,479  
15 Claims. (Cl. 315-3.6)

4. A travelling wave tube including a slow wave propagating structure comprising a cylindrical helix of

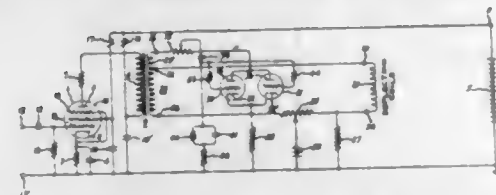


conductive wire, and an impedance matching termination comprising a flat spiral of conductive wire in a plane substantially perpendicular to the axis of said helix, with its inner end connected to said helix, and an



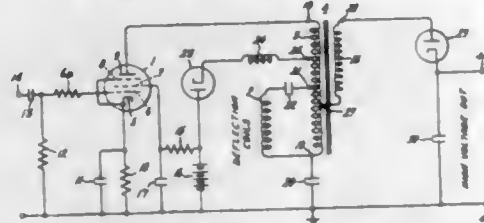
attenuator element having a surface substantially parallel to the plane of said spiral and adjacent thereto, said element having radio frequency energy absorbing material distributed over said surface.

**2,712,615**  
**CATHODE RAY BEAM DEFLECTION CIRCUITS**  
Laurance M. Leeds, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York  
Application January 25, 1952, Serial No. 268,195  
2 Claims. (Cl. 315-27)



1. A deflecting circuit for a cathode ray comprising a source of cyclically varying current, a transformer including a primary and a secondary winding, said primary winding connected in energizable relationship to said source, a cathode ray deflection coil connected in shunt with said secondary winding, an electron discharge device including a cathode, a grid, and an anode and having the anode-cathode discharge path thereof connected in shunt with said secondary winding, means for differentiating the voltage appearing across said deflection coil and applying said differentiated voltage between the grid and cathode of said device to control the anode-cathode impedance of said device, said secondary winding being proportioned to develop sufficient voltage to cause currents to be developed in said deflection coil which decrease slowly at a gradually increasing rate from one extreme value, then increasing in the opposite direction to another extreme value, and then rapidly decreasing from said other extreme to said one extreme in substantial accordance with the cyclical variation of said source, an unbypassed resistor connected in series with the electron discharge path of said device and having sufficient value to alter the damping of the circuit including said transformer and said discharge path, whereby said slowly decreasing current is caused to vary linearly from said one extreme to zero.

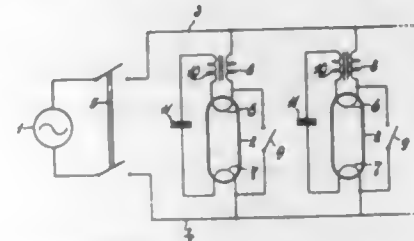
**2,712,616**  
**CATHODE RAY BEAM DEFLECTION CIRCUITS**  
Laurance M. Leeds, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York  
Application March 2, 1953, Serial No. 339,791  
6 Claims. (Cl. 315-27)



1. A deflection circuit for a cathode ray comprising a source of cyclically varying current, a transformer in-

cluding a primary winding and a secondary winding, said primary winding being connected to said source, a cathode ray deflection coil connected in shunt with said secondary winding, the current through said coil increasing to a predetermined value in accordance with the increase in current from said source and the current from said source being cut off after the current through said coil rises to said predetermined value, whereby the current in said deflection coil circuit after rising to said predetermined value is set into oscillation at a frequency determined by the effective inductance and capacitance of said deflection coil circuit thereby said current decreases in said deflection coil and flows in the reverse direction, means for damping said current oscillations after the first half cycle of said oscillations, whereby the current through said coil may be caused to uniformly decrease substantially unaffected by said oscillations after said first half cycle of oscillation, another winding magnetically coupled to said windings and being additively connected in circuit with a portion of said primary winding in a manner to minimize the reactance of said other winding reflected to said deflection coil circuit, whereby said half cycle of oscillation occurs in minimum time.

**2,712,617**  
**LIGHTING INSTALLATION COMPRISING A LIGHT SOURCE WITH ADJUSTABLE LIGHT-INTENSITY**  
Jozef Cornelis Moerkens, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application March 13, 1953, Serial No. 342,244  
Claims priority, application Netherlands April 5, 1952  
7 Claims. (Cl. 315-99)

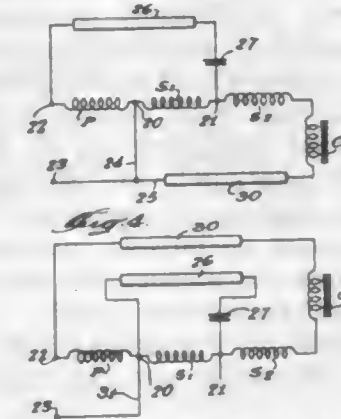


1. An adjustable-intensity lighting installation comprising a low-pressure arc-discharge tube having a pair of thermionic electrodes, each of said electrodes having two terminals, a source of supply voltage, a pair of choke coils each having a winding, a capacitor, one terminal of one of said electrodes being connected to one side of said source, one of said windings connecting the other side of said source to one terminal of the other of said electrodes, the other of said windings being connected to the other terminal of said other electrode, said windings being arranged to counteract one another, said capacitor being connected in series with said other winding and the other terminal of said one electrode, and a switch interconnecting said one terminal of said one electrode and said one terminal of said other electrode.

**2,712,618**  
**ELECTROMAGNETIC APPARATUS**  
Albert E. Feinberg, Chicago, Ill., assignor to Advance Transformer Co., Chicago, Ill., a corporation of Illinois  
Application August 30, 1950, Serial No. 182,212  
12 Claims. (Cl. 315-138)

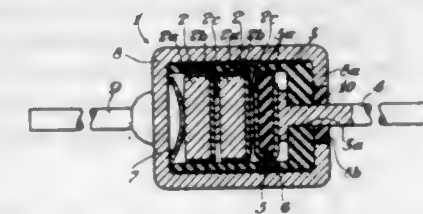
1. Apparatus of the character described for igniting and operating gaseous discharge devices comprising an auto-transformer having a unitary core, three windings mounted on the said core comprising a primary, first secondary, and second secondary connected respectively one to the other end to end in the order named, but disposed on the core with the primary and second secondary windings arranged at one end of the core with the first secondary winding spaced therefrom, there being a high reluctance magnetic shunt in the core between the first

secondary winding and the other two windings, an end air gap in the core adjacent the primary and second secondary, a choke winding mounted on said core but at the second end thereof and having a magnetic short circuit separating said choke winding from the first secondary winding, a source of A. C. voltage of value less than the igniting voltage of said gaseous discharge devices, said primary being connected to said source, a gaseous dis-



charge device connected in a loop across transformer windings including at least said first secondary but excluding the second secondary and having a series connected condenser in said loop, and a second gaseous discharge device connected in a loop across windings of the transformer including at least both secondaries, said choke winding being connected in series with one of said gaseous discharge devices.

**2,712,619**  
**DRY DISK RECTIFIER ASSEMBLIES**  
Regis H. Zetwo, Swissvale, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania  
Application June 17, 1954, Serial No. 437,389  
8 Claims. (Cl. 317-234)



1. A rectifier assembly comprising, a cup member of insulating material having an opening in its bottom wall, a contact member of large heat dissipating area within the cup member, a lead-in wire secured to the contact member and passing through the opening in the cup member, a rectifier cell within the cup member having an electrode engaging the contact member, a resilient contact of considerable area in said cup member and engaging the other electrode of the rectifier cell, a shell of conducting material in which the cup member is disposed with the open end of the cup member seated on the bottom of the shell, retaining means for holding the cup member seated within the shell thereby biasing the resilient contact to exert some pressure on the rectifier cell electrodes, a terminal connector secured to the shell, and means for sealing the open end of said shell.

**2,712,620**  
**BLOCKING LAYER RECTIFIER AND HOUSING THEREFOR**  
Anton Frans Mariet, The Hague, Netherlands, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware  
Application August 10, 1954, Serial No. 448,849  
6 Claims. (Cl. 317-234)

1. A blocking layer rectifier arrangement comprising a hermetically sealed box having on the inside thereof a rectifier, said rectifier having at least one plate loosely

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arranged within the box, characterized by at least one thin readily-bendable side wall of the box and a reduced



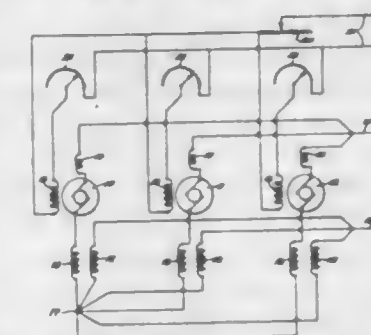
air pressure within the box sufficient to cause the external pressure to force the side wall inwardly and press the parts of the rectifier together.

**2,712,621**  
**GERMANIUM PELLETS AND ASYMMETRICALLY CONDUCTIVE DEVICES PRODUCED THEREFROM**  
Harper Q. North, Los Angeles, Calif., assignor to General Electric Company, a corporation of New York  
Application December 23, 1949, Serial No. 134,826  
2 Claims. (Cl. 317-239)



2. An asymmetrically conductive device comprising a semi-conductor and a pair of electrodes in contact therewith, one electrode making substantially point contact with a surface of said semi-conductor, said semi-conductor comprising a solidified droplet of melted N-type germanium, said solidified droplet having a diameter no greater than .050 inch having been subjected to heat treatment at about 500° C. for at least two hours and being characterized by exhibiting low resistance to current therethrough in one direction and high resistance to current flow therethrough in an opposite direction between said electrodes.

**2,712,622**  
**MULTIPLE MOTOR CONTROL SYSTEMS**  
William H. Brown, Hanna City, Ill.  
Application March 30, 1953, Serial No. 345,463  
10 Claims. (Cl. 318-6)



1. A multiple motor control system for controlling the relative speeds of a plurality of separately loaded motors which are capable of rotation independently of each other comprising a plurality of separately loaded and independently rotatable motors each having an armature, a first field for each motor connected in series



with the armature and the armatures and first fields of the motors being connected in parallel with each other between one side of a source of power and a common point, a second field for each motor wound to oppose the first field, the second fields being connected in parallel between said common point and the other side of the source of power whereby any change in the speed of one of the motors relative to the others will cause a change in the current through the armature and first field of said one of the motors and corresponding changes in the currents through the second fields of all of the motors and through the armatures and first fields of the other motors to maintain the relative speeds of all of the motors substantially the same.

2,712,623

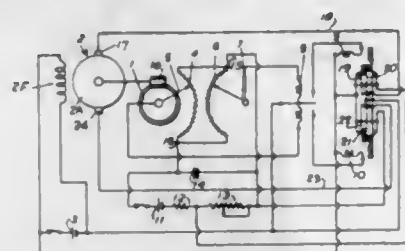
# ANTI-HUNT CIRCUIT FOR ELECTRIC MOTOR FOLLOW-UP SYSTEM

Iku Yosano, Minato-Ku, Tokyo, Japan, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 19, 1952, Serial No. 294,465

Claims priority, application Japan June 22, 1951

8 Claims. (Cl. 318—29)



1. An automatic follow-up system comprising in combination, a controlling member, a controlled member, a comparison circuit of the balanced bridge type and responsive to difference in relative settings of said members to produce a voltage for automatically controlling the re-setting of said controlled member as long as said voltage is not within a predetermined limited discrimination range, a marginally sensitive relay which responds to said voltage to maintain said controlled member within certain restricted discrimination limits at each rest position of said controlled member and additional means including a condenser and condenser charging circuit to increase said discrimination limits in the interval between the movement of said controlled member from one rest position to a succeeding rest position.

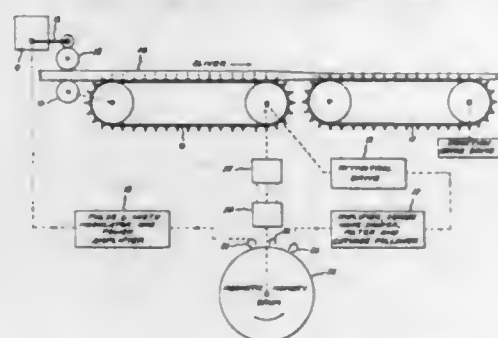
2,712,624

# MAGNETIC MEMORY UNIT FOR MOTOR CONTROL SYSTEM

Clare L. Beattie, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York

Application March 31, 1953, Serial No. 345,971

13 Claims. (Cl. 318—306)



4. A memory unit for a control system including in combination an electrically operable sensing element for developing a control intelligence electric signal, a free running multivibrator circuit, a pulse width modulating circuit operatively coupled to the output of said multivibrator circuit and said sensing element for producing a

control intelligence pulse width modulated square wave electric signal, a rotatable drum having a magnetizable peripheral surface, a magnetic recording head assembly disposed adjacent the magnetizable surface of the rotatable drum and electrically connected to the output of said modulating means for magnetically recording the intelligence modulated electric signals on such material, a magnetic playback head assembly likewise disposed adjacent said length of magnetizable material for re-converting the intelligence magnetically recorded thereon into an intelligence modulated electric signal, means for rotating said drum, an erasure head disposed intermediate said recording and playback head assemblies for erasing the magnetically formed intelligence on the magnetized surface subsequent to detection by said playback head assembly and prior to reaching the recording head assembly, and an output circuit operatively coupled to said playback head assembly for utilizing the intelligence modulated electric signal reproduced thereby, said output circuit including means for regulating the speed of rotation of said drum in accordance with the control intelligence.

2,712,625

# MOTOR SPEED REGULATION SYSTEM UTILIZING NONLINEAR IMPEDANCE DEVICES

Daniel Blitz, Boston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 14, 1951, Serial No. 236,762

1 Claim. (Cl. 318—331)



In a motor speed control, the combination of a source of potential, an armature connected in series with an impedance across a source of potential and shunted by a voltage divider, a nonlinear unidirectional conducting device having the property of conducting appreciable current only when a voltage above a minimum value is applied across it, and means for connecting said conducting device between the junction of said impedance and said armature and to a point on said voltage divider.

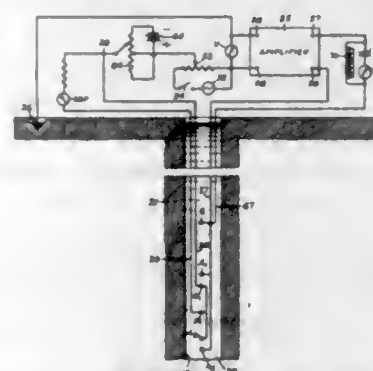
2,712,626

# SELECTIVE SPONTANEOUS POTENTIAL WELL LOGGING METHOD AND APPARATUS

Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application November 19, 1948, Serial No. 60,872

25 Claims. (Cl. 324—1)



1. In a method of investigating earth formations traversed by a bore hole containing a relatively conductive liquid, the steps of modifying the flow of naturally occurring currents along a portion of said bore hole by establishing an artificial potential difference having a D. C. component of predetermined value between at least one point in said bore hole portion and a point of reference outside of said portion, obtaining indications of the potential difference produced by said modified

flow of naturally occurring currents between said one point and a second point in said bore hole portion and spaced a relatively short, fixed distance from said one point, in the direction of the bore hole axis, and repeating the foregoing steps in other portions of the bore hole at different depths therein with the same predetermined value for said D. C. component.

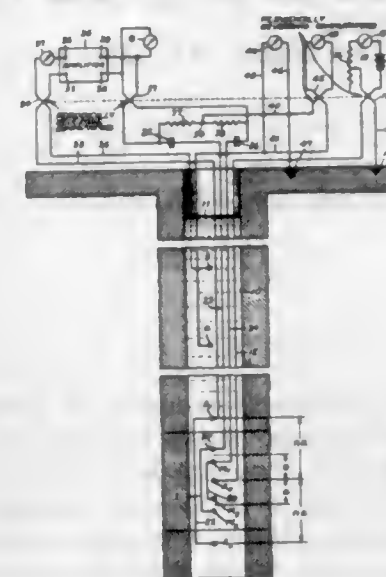
2,712,627

# ELECTRICAL RESISTIVITY WELL LOGGING METHOD AND APPARATUS

Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application May 12, 1950, Serial No. 161,641

30 Claims. (Cl. 324—1)



1. In a method for investigating the electrical resistivity of earth formations traversed by a bore hole containing a column of relatively conducting liquid, the steps of passing current between at least one location in the bore hole and a point remote from said one location to establish an electric field in the vicinity of the latter, altering the electric field associated with said current at at least one other location in the bore hole spaced from said one location in a direction longitudinally of the bore hole, so as to impede the flow of said current along the bore hole in the direction of said one other location, sensing a property of said electric field to obtain indications of changes therein, altering said field so as substantially to compensate for changes occurring therein, obtaining indications of the potential difference between a point near said one location and spaced apart therefrom and a reference point remote from said one location, and repeating said steps at different depths in the bore hole.

2,712,628

# ELECTRICAL LOGGING APPARATUS

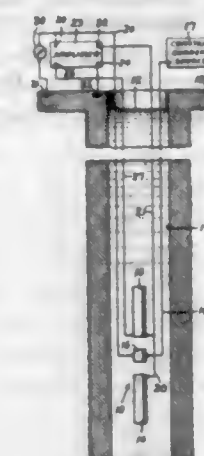
Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application February 19, 1951, Serial No. 211,788

5 Claims. (Cl. 324—1)

1. Well logging apparatus comprising an electrode adapted to be moved through a well, a source of electrical energy connected between said electrode and a point remote therefrom to supply current to said electrode, electrode means disposed symmetrically above and below said electrode in constant spatial relation thereto, automatic means including said electrode means and responsive to the potential difference between said electrode means and said electrode for supplying current to said electrode means to continuously maintain said potential difference

constant and substantially at zero, and means for exhibiting a function of the variations in potential difference



between said electrode or electrode means and a point at a reference potential.

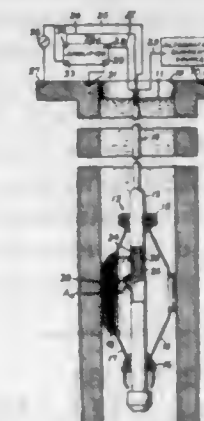
2,712,629

# ELECTRICAL LOGGING OF EARTH FORMATIONS TRAVERSED BY A BORE HOLE

Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application March 7, 1951, Serial No. 214,273

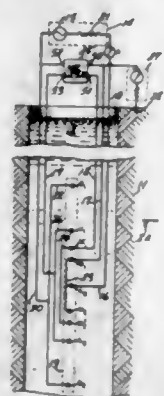
13 Claims. (Cl. 324—1)



1. A method for obtaining indications of the electrical resistivity of material in a thin layer immediately beneath the side wall of a bore hole drilled into the earth and containing a column of relatively conductive liquid, comprising the steps of disposing an electrode with its effective surface substantially parallel and in close proximity to the surface of the side wall of the bore hole, substantially completely blocking off direct electrical communication between the electrode and said liquid while affording electrical communication between the effective surface of the electrode and the adjacent formation material, passing electric current into the wall of the bore hole between said electrode and a reference point substantially at ground potential, thereby establishing a first electric field, establishing in the wall material about the electrode and in proximity thereto a second electric field having a polarity tending to reduce the potential difference attributable to said first field between points spaced different nearby distances from the electrode and electrically insulated from direct electrical communication with said liquid, adjusting the magnitude of said second electric field so as to reduce said potential difference substantially to zero, and obtaining indications of potential differences between a point substantially at ground potential and a point electrically insulated from direct electrical communication with said bore hole liquid and having substantially the same potential as one of said spaced points, and located in the vicinity of said spaced points.

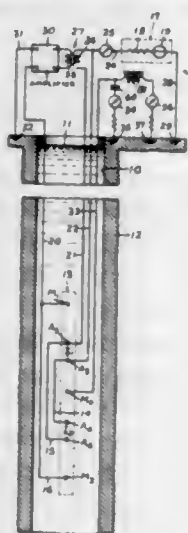


**2,712,630**  
**METHODS AND APPARATUS FOR ELECTRICAL LOGGING OF WELLS**  
 Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware  
 Application November 20, 1951, Serial No. 257,348  
 13 Claims. (Cl. 324—1)



1. In a method of investigating earth formations traversed by a bore hole containing a column of conductive liquid, in a zone close to the wall of the bore hole, the steps of passing electric current through the surrounding formations between a pair of locations spaced a short distance apart in the bore hole, establishing an electric field in the vicinity of one of said locations of such magnitude and polarity as to cause the current flow in the vicinity of said one location to follow a path substantially perpendicular to the wall of the bore hole at least through the bore hole liquid and through any mud cake formed on the wall of the bore hole, and obtaining indications of potential difference between a reference datum substantially at ground potential and a place in the bore hole between said locations where the potential gradient attributable to the combined effect of said current and said electric field is substantially zero, the spacings between said locations and said place being such that neither of said locations can be considered to be at electrical infinity with respect to said place.

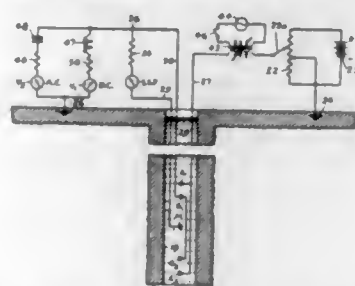
**2,712,631**  
**ELECTRICAL WELL LOGGING**  
 Maurice C. Ferre, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware  
 Application April 16, 1952, Serial No. 282,579  
 17 Claims. (Cl. 324—1)



1. Apparatus for investigating the electrical resistivity of earth formations traversed by a bore hole, comprising at least two electrodes mounted for movement through the bore hole and spaced apart from one another in a direction substantially parallel to the axis of the bore hole, means for passing current between a relatively remote reference point and a location lying in the space interval defined by said two electrodes, means for emitting current

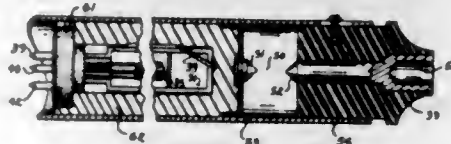
of proper magnitude and polarity between two points lying in said space interval and longitudinally spaced apart with respect to said two electrodes to reduce to a substantially zero value the potential difference between the upper one of said two electrodes and a reference point longitudinally spaced apart therefrom, and means for obtaining indications of the potential difference between the lower of said two electrodes and a reference point longitudinally spaced apart therefrom.

**2,712,632**  
**ELECTRICAL WELL LOGGING METHOD AND APPARATUS**  
 Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware  
 Original application November 18, 1948, Serial No. 60,872. Divided and this application June 3, 1953, Serial No. 359,362  
 16 Claims. (Cl. 324—1)



1. In a method of investigating earth formations traversed by a bore hole containing a conducting liquid, the steps of disposing in the bore hole at least three longitudinally spaced-apart electrodes, moving said electrodes as a unit to different positions in the bore hole, passing electric current between points near the two outer electrodes of said three and a reference point longitudinally spaced apart therefrom, adjusting the intensity of the current flowing at said points at each of said positions of the electrodes as required to maintain said two outer electrodes at substantially the same potential with respect to a reference point substantially at ground potential, and obtaining indications of variations in the potential difference between the third electrode of said three and at least one of said two outer electrodes.

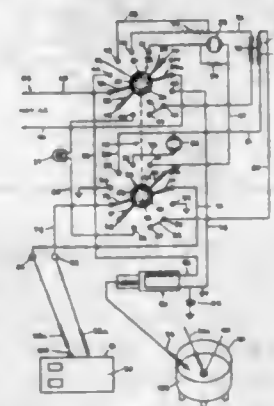
**2,712,633**  
**IGNITION SYSTEM TESTING DEVICES**  
 Russel D. Jameson, Kansas City, Mo., assignor to Harold T. Fehr, Kansas City, Mo.  
 Application February 21, 1951, Serial No. 212,087  
 2 Claims. (Cl. 324—17)



1. Apparatus for testing the ignition system of an internal combustion engine consisting of a tubular case, a spark gap contained in said case, means for connecting said spark gap in series with the secondary windings of the coil of said ignition system, said spark gap comprising a fixed electrode grounded to said case and a movable electrode carried by a slidable member at one end of said case, a recess in said slidable member electrically associated with said movable electrode, an opening in said case adjacent to said electrodes, a linear scale on said case adjacent to said opening, a make and break vibrator contained in said case, a lead from said vibrator, means for grounding said lead, a second lead from said vibrator, means for connecting said second lead in the primary circuit of said ignition system between the battery and the coil, a third lead from said vibrator, means for connecting said third lead in said primary circuit be-

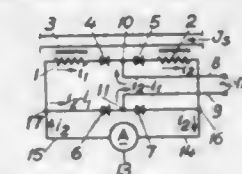
tween the coil and the timer, a condenser contained in said case, a condenser switch mounted on the side of said case, means for connecting said condenser into said primary circuit, and a removable plug at the other end of said case, said plug containing an opening and said leads passing through said opening.

**2,712,634**  
**ELECTRICAL TESTING APPARATUS**  
 Paul C. Briner, Waterloo, Iowa, assignor to Nelson Tester Company, Incorporated, Waterloo, Iowa, a corporation of Iowa  
 Application September 29, 1950, Serial No. 187,408  
 1 Claim. (Cl. 324—73)



Apparatus for testing the continuity and leakage in electrical systems comprising a source of alternating current supply, a pair of test jack terminals, a rotary switch comprised of a pair of deck units mounted upon a common rotary member, with one of said deck units being connected across said source of supply, and the other of said deck units across said jack terminals, switch terminals for each of said deck units arranged in an angularly spaced relation so as to be opposite each other in a radial direction, and with the terminals on one deck unit being arranged axially opposite the terminals on the other deck unit, a series lamp connected between a first pair of axially opposite terminals, a test light connected between a second pair of terminals which are radially opposite from said first pair of terminals, a primary coil of a voltage step-up transformer connected across a third pair of terminals which are radially opposite each other with the secondary coil of said transformer being connected across a fourth pair of terminals radially opposite each other and axially opposite said third pair of terminals, a high frequency transformer unit connected across a fifth pair of terminals which are radially opposite each other, and a pair of switch arms for each of said deck units movable with said rotary member into concurrent contact engagement with corresponding radially opposite terminals on a deck unit to vary the current supply across said jack terminals.

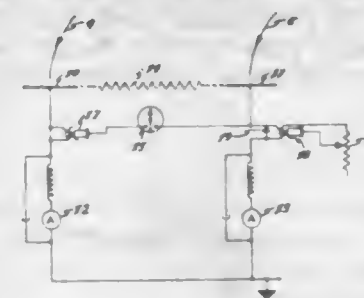
**2,712,635**  
**DEVICE FOR MEASURING DIRECT CURRENT**  
 Lennart Borg, Ludvika, Sweden, assignor to Allmannas Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation  
 Application May 11, 1951, Serial No. 225,826  
 Claims priority, application Sweden November 13, 1950  
 7 Claims. (Cl. 324—127)



1. A device for measuring direct current in a conductor, comprising at least two transducer cores adjacent said conductor, power windings one on each of said cores, a first current circuit including at least two unidirectional valve elements connected in series in the same

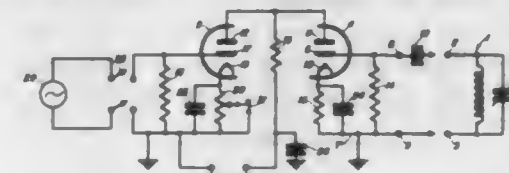
direction, indicating means responsive to flow of current in said first circuit, alternating current supply means, a second circuit connected to said alternating current supply means and including in series in order a first terminal of said alternating current supply means, the power winding on one of said cores, and a first of said valve elements of the first circuit, and further including another unidirectional valve element opposing said valve element of the first circuit between said first terminal of the alternating current supply means and said first valve element of the first circuit, and a third circuit connected to said alternating current supply means and including in series in order the said first terminal of the alternating current supply means, the power winding of a different one of said transducer cores and a second of the valve elements of the first circuit, and further including a unidirectional valve element opposing the said second valve element of the first circuit between said first terminal of the alternating current supply means and said second valve element of the first circuit, said direct current conductor being so related to said power windings as to produce ampere turns in each of the cores opposing those produced therein by said alternating current supply means.

**2,712,636**  
**SHORT CIRCUIT ELIMINATOR**  
 James W. Litton and Roland F. Krueger, Oak Ridge, Tenn., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
 Application April 12, 1945, Serial No. 588,062  
 2 Claims. (Cl. 324—158)



1. In the electromagnetic isotope separating apparatus having two electrically isolated collecting electrodes connected through current meters to a common terminal, an adjustable resistance in the circuit between one of said electrodes and the common terminal and means comprising an electrical indicating instrument connected between the electrodes for indicating the existence of a potential difference between said electrodes, whereby the resistance may be adjusted to eliminate undesired currents between said electrodes due to partial shorts or the like.

**2,712,637**  
**VARIABLE REACTANCE CIRCUITS**  
 Robert W. Jones, United States Navy  
 Application April 25, 1951, Serial No. 222,922  
 2 Claims. (Cl. 332—28)  
 (Granted under Title 35, U. S. Code (1952), sec. 266)



1. A system adapted for frequency-shift keying of an oscillator comprising two electronic tubes, each having a cathode, an anode, and a grid, means adapted for the connection of said oscillator between the grid and cathode return of the first of said tubes, a substantially direct connection between the anodes of said tubes, the grids of said two devices being electrically isolated from each



other, a common source of direct current potential for the anodes of said tubes, and means including a key for varying the effective resistance of the second of said tubes to vary correspondingly the reactance between the grid and cathode of said first tube, said first tube being arranged so that substantially no coupling exists at audio frequencies between the anode and grid thereof.

2,712,638

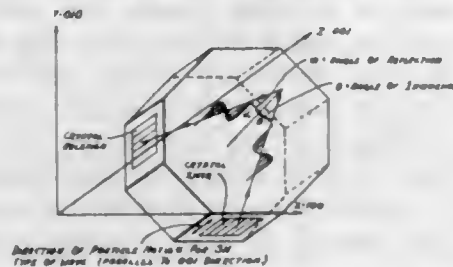
# SINGLE-CRYSTAL ULTRASONIC SOLID DELAY LINES USING MULTIPLE REFLECTIONS

David L. Arenberg, Rochester, Mass.

Application September 18, 1951, Serial No. 247,185

9 Claims. (Cl. 333-30)

(Granted under Title 35, U. S. Code (1952), sec. 266)



8. A supersonic delay system comprising, a single-crystal having anisotropic wave propagation characteristics, and means mounted on said crystal for inducing supersonic energy therein, said means being oriented to direct said energy for travel within said crystal in a plane perpendicular to any 001 axis of said crystal.

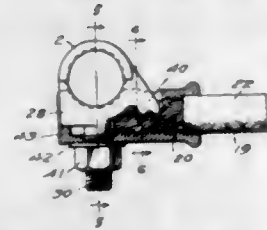
2,712,639

# BATTERY TERMINAL CONNECTION

Dwight M. Dickinson, North Providence, R. I.

Application June 9, 1953, Serial No. 360,430

5 Claims. (Cl. 339-225)



1. In a terminal connection for heavy duty battery cables, a base having a top wall and side walls providing an elongated channel shaped chamber with open ends, a socket aligned with the chamber and communicating with one end and having an inlet, whereby a cable end may be received in the socket and extend into the chamber, said socket and the contiguous portion of the chamber having corrugations on the inner surfaces thereof, the top wall of the base having a stud receiving opening and the side walls each having an arcuate lower edge extending between spaced abutments, and a ring member having an upper section, a lower arcuate section, and a threaded stud extending outwardly from the upper section for passage through the base top wall opening, said upper section having a part with a flat upper surface for seating in the base and a second part in the plane of the first part having depending teeth adapted to grip a cable end in cooperation with the corrugations of the chamber and the socket, the lower arcuate ring section being wider than the upper section and providing spaced abutments at each side aligned with the base side wall abutments.

2,712,640

# SOUND RANGING OSCILLOSCOPE

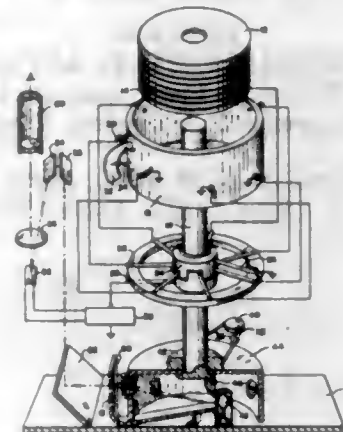
Raymond P. Mork, Needham Heights, Mass., and Charles W. Clapp, Scotia, N. Y., assignors to the United States of America as represented by the Secretary of the Army

Application March 7, 1952, Serial No. 275,338

5 Claims. (Cl. 340-149)

1. In a mirror oscilloscope, a source of light, a cylindrical cup member, a plurality of lenses mounted at the

surface of said member at successive angular and axial positions, means to rotate said member adjacent to said source to produce a series of time sweep trace images of said source along slightly different lines, an oscilloscope mirror, means for viewing said images, said mirror being in the optical path between said images and said viewing means, the axis of said mirror being optically substan-



tially parallel to the sweep lines of said images, a corresponding plurality of signals to be compared, switching means synchronous with said rotating means to successively switch said signals to effectuate operation of said mirror by said successive signals during successive sweeps, whereby the various signals are displayed by apparent deflection of the various time sweep components of the different lines for ready comparison.

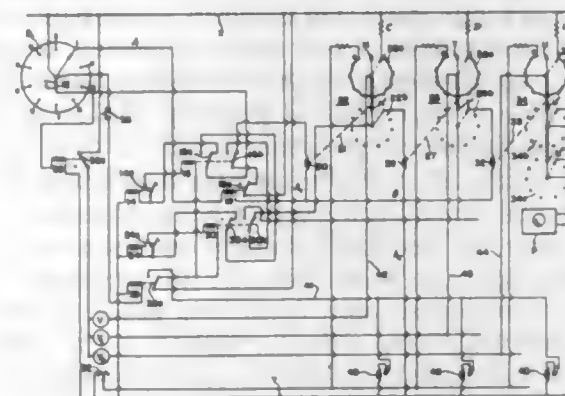
2,712,641

# SELECTIVE MEASURING SYSTEM

Edward J. Grace, Jr., Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application December 30, 1949, Serial No. 136,017

3 Claims. (Cl. 340-150)



1. In combination, an electrical impulse transmitter, a first impulse-stepped switching device having a set of contacts, means connecting said transmitter to said first switching device to effect stepping of the latter by a first series of impulses from the transmitter, a set of second impulse-stepped switching devices each of which corresponds to one of said contacts and each of which has a set of contacts, means connecting said transmitter to any selected one of said second switching devices through a corresponding contact of the first switching device to effect stepping of said selected second switching device by a second series of impulses from the transmitter, sets of third impulse-stepped switching devices each of which corresponds to one of said contacts of the second switching devices, means connecting said transmitter to any selected one of said third switching devices through a corresponding contact of a second switching device to effect stepping of said selected third switching device by a third series of impulses from the transmitter, each of said third switching devices having contacts selected by its stepping, a measuring instrument connected to said third switching devices, and sensing means connected to the contacts of the third switching

devices so as to be selectively connected to said measuring instrument upon stepping of any of said third switching devices.

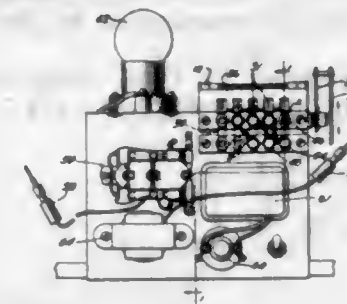
2,712,642

# COUNTING DEVICE

Emerson P. Jennings, New York, N. Y.

Application March 10, 1953, Serial No. 341,515

8 Claims. (Cl. 340-213)



5. In combination, a panel; a counter secured to the rear upper marginal portion of the panel and having a plurality of indicator wheels of insulating material exhibiting a row of digits at the upper edge of the panel; a radially projecting stud selectively mounted on the periphery of each wheel; a row of a plurality of switches respectively associated with said wheels each switch including a resilient strip of metal having a hook part secured to the front face of the panel and passing over the upper edge of the panel as far as the path of the stud; the strip being provided with a lower terminal portion curved toward the panel; the panel being provided with a recess for each switch, each recess having parallel vertical side walls to guide said terminal portion in the recess; rearwardly projecting contact members, each passing through the panel and into each recess for engagement with said terminal portion when the stud engages the strip, a row of upper socket members on the panel and connected to the respective hook parts, a row of lower socket members on the panel and connected to the respective contact members, jumpers consisting of two electrically connected plugs one in a lower socket of one switch and the other in the upper socket of an adjoining switch to connect the switches in series, and means for connecting the serially connected switches into a signal actuating circuit.

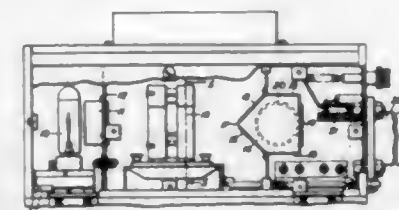
2,712,643

# SMOKE DETECTING AND SIMILAR SYSTEMS

Cyril Clifford Hall, Ealing, London, England, assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application March 1, 1952, Serial No. 274,474

5 Claims. (Cl. 340-237)



1. Apparatus for direct visual detection of particles suspended in an air sample comprising a source of light, a dark chamber into which sample air passes and which is set transversely of a beam from said light source, said chamber having a narrow slit in its side wall nearer to said light source and a relatively broad slit in its opposite side wall so that the light entering the narrow slit passes out through the broad slit without illuminating the interior of said chamber, and an eyepiece in said dark chamber for viewing the interior thereof.

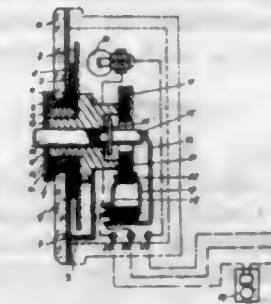
2,712,644

# DOORBELL WITH HOUR-OF-RETURN INDICATOR

Mario Giosuè Lazzari, Bergamo, Italy

Application March 12, 1952, Serial No. 276,146

1 Claim. (Cl. 340-330)



A combined installation of a push button and an hour-of-return indicator, comprising: a bell and an electric lamp, two contacts connected with said bell and lamp respectively, a rotatable dial having hours graduations on a substantial portion of its surface for indicating the hour of return with the remaining portion of the surface indicating that the bell is in operation, said lamp being disposed in the installation in space behind the rotatable dial, illuminate it in its different positions, and a commutator rotatable with the dial, said commutator being composed of two distinct and different contacting faces, each of the faces of the commutator being composed of a section of insulation and a section of conducting material, and one face being always in engagement with the lamp contact while the other face is always in engagement of the bell contact, the angular extent of the section of conducting material on said one face being the same as the angular extent of the hours graduations on the rotatable dial, the remainder of the face being of insulation; the angular extents of conducting and insulating material on said other face being opposed to what appears on the said one face, contact means operated by a push button for connecting to the commutator a source of energy whereby when the conducting segment of said one face is in contact with the lamp contact, said contact means on the push button connects the lamp to the source of energy when the button is pushed and when the conducting segment of said other face is in contact with the bell contact, said contact means on the push button connects the bell to the source of energy when the button is pushed.

2,712,645

# ELECTRO-MECHANICAL TRANSDUCER

Carl E. Keene, Lancaster, Calif.

Application February 25, 1953, Serial No. 338,929

4 Claims. (Cl. 340-345)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A signal pick-off and transmitting means comprising a housing, a mounting block secured to said housing, means securing elongated arms to said mounting block in spaced parallel relation in a null position, signal transmitting means respectively mounted on opposed faces of the parallel arms, a rotatable input signal transmitting shaft extending transverse to said spaced parallel arms intermediate thereof and having an eccentric disposed intermediate opposing faces of the arms, abutment means engaging the opposing faces of said arms and in zero position abutting diametrically opposite points on said eccentric and resilient means engaging the opposed free



ends of said arms biasing said arms and said abutments into engagement with said eccentric whereby a balanced null condition obtains, said signal transmitting means being responsive to rotation of said eccentric within a predetermined range and displacement of said arms from a zero position condition to transmit an appropriate signal in proportion to such displacement.

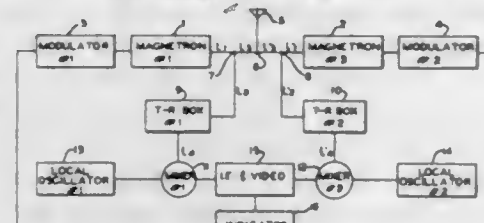
2,712,646

## DUAL TRANSMITTER SYSTEM

James L. Lawson, Cambridge, Mass., and Bruce B. Cork, Peck, Mich., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application May 22, 1945, Serial No. 595,145

1 Claim. (Cl. 343—5)



A radio echo detection system comprising in combination, first and second pulse transmitters for periodically producing electromagnetic waves of lengths  $\lambda_1$  and  $\lambda_2$ , respectively, an antenna, a first pair of transmission lines connecting said transmitters to said antenna at a common juncture, the length of the transmission lines coupling said first and second transmitters to said juncture being, respectively,

$$\frac{n\lambda_2}{4}$$

and

$$\frac{n\lambda_1}{4}$$

$n$  being an odd integer, first and second transmit-receive switches coupled to said juncture by a second pair of transmission lines, the length of these lines being

$$\frac{n\lambda_1}{4}$$

and

$$\frac{n\lambda_2}{4}$$

respectively,  $n$  being an odd integer, first and second re-

ceivers each having a mixer stage and a local oscillator coupled thereto, means connecting said first and second transmit-receive switches to the mixer stage of said first and second receivers, respectively, and a single intermediate frequency amplifier coupled to said mixers.

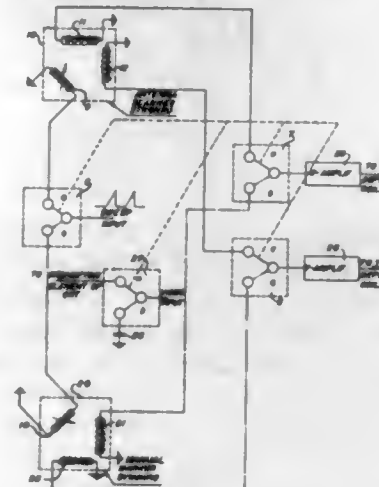
2,712,647

## ELECTRONIC ANGLE MARKER FOR FIXED-COIL PLAN POSITION INDICATORS

Chalmers W. Sherwin, Champaign, Ill., assignor to United States of America as represented by the Secretary of the Navy

Application September 13, 1946, Serial No. 696,927

18 Claims. (Cl. 343—11)



1. In a plan position indicator having a cathode ray tube including deflecting control elements, a sweep generator, a scanner selsyn including rotor and stator windings, a source of video signals, means for applying said signals to the intensity control element of said tube, a low voltage pulse source, and a steady low-voltage source, the apparatus comprising a first relay energizable by said pulse source; a second relay energized from said steady voltage source by said first relay; an angle marker selsyn having rotor and stator windings; and a third relay controlled by said second relay, said third relay being arranged to connect said control elements to the stator windings of said marker selsyn or to the stator windings of said scanner selsyn, selectively, and to connect said sweep generator to the rotor winding of said marker selsyn or to the rotor winding of said scanner selsyn, selectively.

## DESIGNS

JULY 5, 1955

175,062

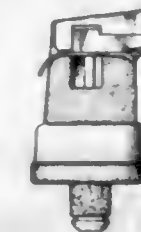
## BEVERAGE DISPENSER

Richard W. Beall, Jr., Hermosa Beach, Calif.

Application April 27, 1954, Serial No. 30,199

Term of patent 14 years

(Cl. D58—10)



175,063

## TIRE

Arthur E. Benson, Grosse Pointe Farms, and Vance J. Davis, Detroit, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application October 6, 1954, Serial No. 32,560

Term of patent 14 years

(Cl. D90—20)



175,064

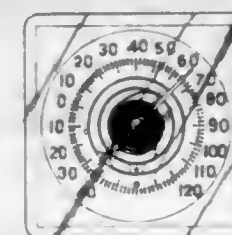
## WINDOWPANE THERMOMETER OR SIMILAR ARTICLE

Robert I. Bradley, Belmont, Mass.

Application January 8, 1953, Serial No. 23,079

Term of patent 14 years

(Cl. D52—7)



175,065

## BRASSIÈRE

Jules Brandt, Brooklyn, N. Y.

Application March 2, 1955, Serial No. 34,836

Term of patent 14 years

(Cl. D20—4)



175,066

## TAPE DISPENSER

George W. Emmert, Winnetka, Ill., assignor, by mesne assignments, to Federal Tool Corporation, Chicago, Ill., a corporation of Illinois

Application June 4, 1954, Serial No. 30,803

Term of patent 14 years

(Cl. D74—1)



175,067

## KNIFE SHARPENER

Robert O. Ernest, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois

Application May 3, 1954, Serial No. 30,294

Term of patent 14 years

(Cl. D37—1)



175,068

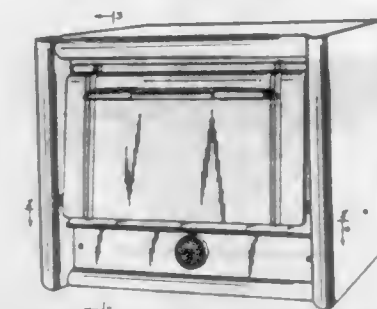
## ELECTRIC OVEN

Arthur I. Fader, Yonkers, and Ira Nevin, Bronx, N. Y.

Application November 12, 1954, Serial No. 33,063

Term of patent 14 years

(Cl. D81—10)



175,069

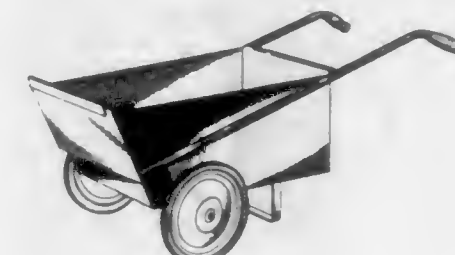
## COMBINED HAND TRUCK AND WHEELBARROW

Frank V. Gandola, Rocky River, Ohio

Application September 25, 1953, Serial No. 26,950

Term of patent 14 years

(Cl. D14—3)

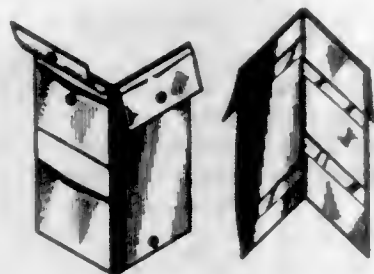




175,070

**BILFOLDING WALLET**

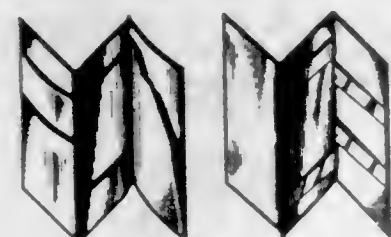
Elmer P. Griffith, Canton, Ohio  
Application October 21, 1954, Serial No. 32,754  
Term of patent 14 years  
(Cl. D87-3)



175,071

**SECRETARY-TYPE WALLET**

Elmer P. Griffith, Canton, Ohio  
Application October 21, 1954, Serial No. 32,755  
Term of patent 14 years  
(Cl. D87-3)



175,072

**BOWL OR SIMILAR ARTICLE**

Lurelle Guild, Darien, Conn., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania  
Application March 17, 1954, Serial No. 29,580  
Term of patent 7 years  
(Cl. D44-15)



175,073

**TELEPHONE HAND SET**

Isaac Heller, Maplewood, N. J., assignor to Remco Industries, Inc., Newark, N. J., a corporation of New Jersey  
Application February 14, 1955, Serial No. 34,503  
Term of patent 14 years  
(Cl. D26-14)



175,074

**COMBINATION KITCHEN TOOL**

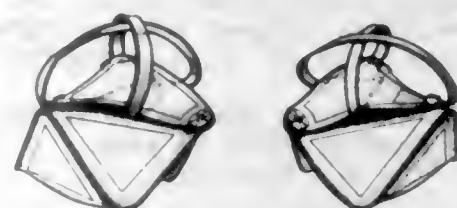
Richard T. Holtzclaw, Montgomery, Ala., assignor of fifty per cent to Foreman A. Rogers, Montgomery, Ala.  
Application March 29, 1954, Serial No. 29,740  
Term of patent 14 years  
(Cl. D44-29)



175,075

**LADY'S HANDBAG OR SIMILAR ARTICLE**

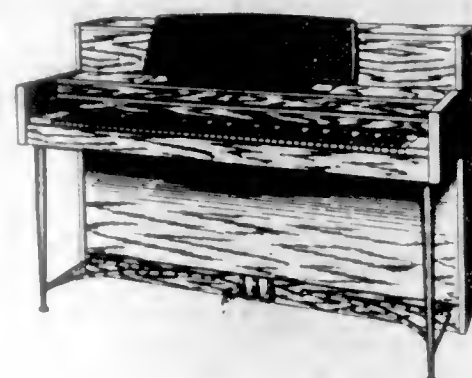
Floyd J. Hurst, Gainesville, Tex.  
Application November 22, 1954, Serial No. 33,178  
Term of patent 14 years  
(Cl. D87-3)



175,076

**PIANO**

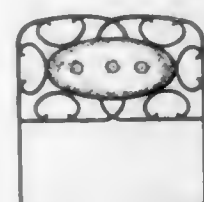
Webster E. Janssen, Bronxville, N. Y.  
Application October 2, 1953, Serial No. 27,068  
Term of patent 14 years  
(Cl. D56-9)



175,077

**HEADBOARD FOR BEDS**

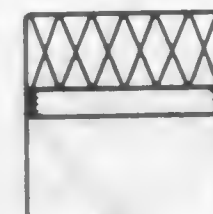
James E. Jones, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio  
Application October 11, 1954, Serial No. 32,615  
Term of patent 14 years  
(Cl. D5-4)



175,078

**HEADBOARD FOR BEDS**

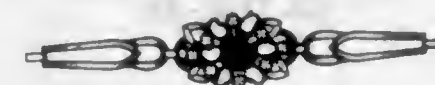
James E. Jones, Toledo, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio  
Application October 11, 1954, Serial No. 32,634  
Term of patent 14 years  
(Cl. D5-4)



175,079

**BRACELET OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application January 26, 1955, Serial No. 34,214  
Term of patent 7 years  
(Cl. D45-4)



175,080

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,466  
Term of patent 7 years  
(Cl. D45-19)



175,081

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,470  
Term of patent 7 years  
(Cl. D45-19)



175,082

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,477  
Term of patent 7 years  
(Cl. D45-19)



175,083

**BRASSIERE**

Armond Raymond Lavorata, Brooklyn, N. Y., assignor to Stardust, Inc., New York, N. Y., a corporation of New York  
Application April 13, 1955, Serial No. 35,500  
Term of patent 14 years  
(Cl. D20-4)



175,084

**WATERING CAN OR SIMILAR ARTICLE**

Loyal V. Locke, Dayton, and Read Viemeister, Yellow Springs, Ohio, assignors to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio  
Application April 21, 1954, Serial No. 30,115  
Term of patent 14 years  
(Cl. D58-17)



175,085

**COMBINED CIGARETTE LIGHTER AND WATCH**

Hans Lowenthal, London, England  
Application August 16, 1954, Serial No. 31,890  
Term of patent 14 years  
(Cl. D48-27)



175,086

**BEVERAGE SERVER**

Joseph R. Mango, Midlothian, Ill., assignor to Henry S. Perlman and Paul E. Perlman, jointly and as partners doing business as Hill-Shaw Company, Chicago, Ill.  
Application November 4, 1954, Serial No. 32,958  
Term of patent 14 years  
(Cl. D44-21)

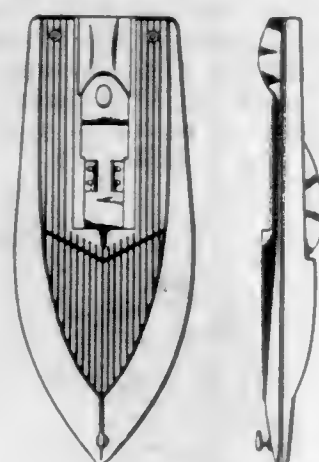




**175,087**  
**CANDLE HOLDER**  
 Charles F. Marthaler, Erie, Pa.  
 Application March 14, 1955, Serial No. 35,024  
 Term of patent 7 years  
 (Cl. D48—2)



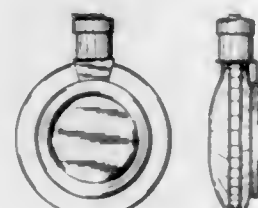
**175,088**  
**MODEL SPEED BOAT**  
 John W. McRoskey, Los Angeles, Calif.  
 Application October 22, 1954, Serial No. 32,768  
 Term of patent 14 years  
 (Cl. D71—1)



**175,089**  
**TEETHING DEVICE**  
 Marshall F. Newmark, Spring Valley, Calif., assignor to  
 Progressive Products, Inc., a corporation of California  
 Application March 27, 1953, Serial No. 24,220  
 Term of patent 14 years  
 (Cl. D83—11)



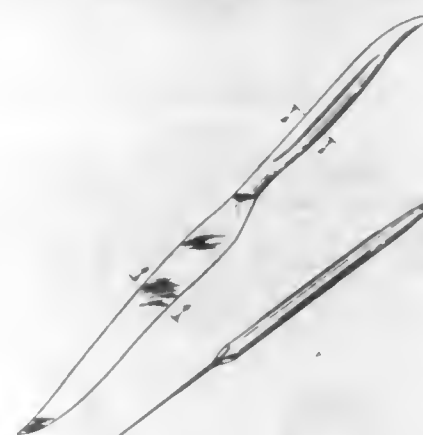
**175,090**  
**COMBINED BOTTLE AND TEETHING RING**  
 Ralph W. Newton, Palmer, Mass., assignor to John H.  
 Breck, Inc., Springfield, Mass., a corporation of Massa-  
 chusetts  
 Application February 17, 1954, Serial No. 29,073  
 Term of patent 14 years  
 (Cl. D58—6)



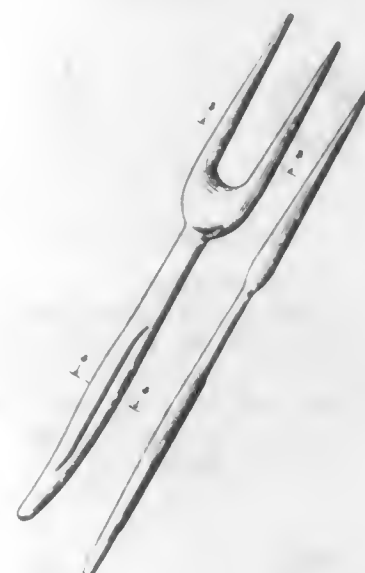
**175,091**  
**MITTEN**  
 Josette E. Passarelli, White Plains, N. Y.  
 Application December 15, 1954, Serial No. 33,571  
 Term of patent 14 years  
 (Cl. D3—11)



**175,092**  
**CARVING KNIFE**  
 Emil S. Polk, Scarsdale, N. Y.  
 Application November 8, 1954, Serial No. 33,005  
 Term of patent 14 years  
 (Cl. D54—12)



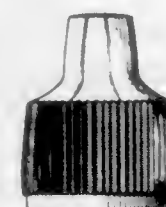
**175,093**  
**CARVING FORK**  
 Emil S. Polk, Scarsdale, N. Y.  
 Application November 8, 1954, Serial No. 33,006  
 Term of patent 14 years  
 (Cl. D54—12)



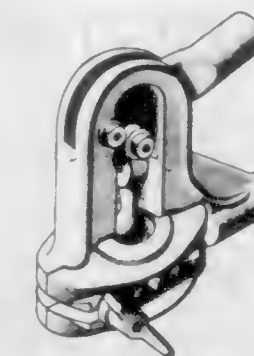
**175,094**  
**STAPLING MACHINE**  
 Henry Ruskin, Bayside, N. Y., assignor to Speed Prod-  
 ucts Company, Inc., New York, N. Y., a corporation  
 of New York  
 Application November 23, 1953, Serial No. 27,722  
 Term of patent 14 years  
 (Cl. D74—1)



**175,095**  
**BOTTLE CAP**  
 Melvin E. St. Clair, Warehouse Point, Conn., assignor to  
 Plax Corporation, West Hartford, Conn., a corporation  
 of Delaware  
 Application November 1, 1954, Serial No. 32,900  
 Term of patent 14 years  
 (Cl. D58—26)



**175,096**  
**PIPE EXPANDER OR THE LIKE**  
 Marcus Tomarin, Cincinnati, Ohio  
 Application February 23, 1955, Serial No. 34,640  
 Term of patent 14 years  
 (Cl. D54—13)



**175,097**  
**AERIAL LADDER FOR TRUCKS**  
 Herman J. Troche, Fairview Park, and Peter Licursi,  
 Cleveland, Ohio, assignors to J. H. Holan Corporation,  
 Cleveland, Ohio, a corporation of Ohio  
 Application May 21, 1953, Serial No. 25,133  
 Term of patent 14 years  
 (Cl. D14—3)





## LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 5TH DAY OF JULY, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Illinois Railway Equipment Co.: See—	Johnson, Malcolm S., to Illinois Railway Equipment Co. Re. 24,033, Cl. 105—369.
Johnson, Malcolm S. Re. 24,032.	Maytag Co., The: See—
Johnson, Malcolm S. Re. 24,033.	Smith, Thomas R. Re. 24,034.
Johnson, Malcolm S., to Illinois Railway Equipment Co. Re. 24,032, Cl. 105—369.	Smith, Thomas R., to The Maytag Co. Re. 24,034, Cl. 137—88.

## LIST OF PLANT PATENTEES

Brownell, Josephine D. 1,404, Cl. 47—61.

Brownell, Josephine D. 1,405, Cl. 47—61.

## LIST OF DESIGN PATENTEES

Aluminum Co. of America: See—	Katz, Adolph, to Coro, Inc. 175,082, Cl. D45—19.
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12: 2,712,191	78: 2,712,272	164— 28: 2,712,357	231— 14: 2,712,414	280— 41: 2,712,456	329— 60: 2,712,502
42— 25: 2,712,192	79: 2,712,273	165— 28: 2,712,358	232— 14: 2,712,415	281— 41: 2,712,457	330— 60: 2,712,503
43— 15: 2,712,193	80: 2,712,274	166— 28: 2,712,359	233— 14: 2,712,416	282— 41: 2,712,458	331— 60: 2,712,504
42.5: 2,712,194	81: 2,712,275	167— 28: 2,712,360	234— 14: 2,712,417	283— 41: 2,712,459	332— 60: 2,712,505
43.1: 2,712,195	82: 2,712,276	168— 28: 2,712,361	235— 14: 2,712,418	284— 41: 2,712,460	333— 60: 2,712,506
43.11: 2,712,196	83: 2,712,277	169— 28: 2,712,362	236— 14: 2,712,419	285— 41: 2,712,461	334— 60: 2,712,507
148: 2,712,197	84: 2,712,278	170— 28: 2,712,363	237— 14: 2,712,420	286— 41: 2,712,462	335— 60: 2,712,508
46— 25: 2,712,198	85: 2,712,279	171— 28: 2,712,364	238— 14: 2,712,421	287— 41: 2,712,463	336— 60: 2,712,509
117: 2,712,199	86: 2,712,280	172— 28: 2,712,365	239— 14: 2,712,422	288— 41: 2,712,464	337— 60: 2,712,510
28: 2,712,200	87: 2,712,281	173— 28: 2,712,366	240— 14: 2,712,423	289— 41: 2,712,465	338— 60: 2,712,511
61: P.P.1,404	88: 2,712,282	174— 28: 2,712,367	241— 14: 2,712,424	290— 41: 2,712,466	339— 60: 2,712,512
48— 206: 2,712,495	89: 2,712,283	175— 28: 2,712,368	242— 14: 2,712,425	291— 41: 2,712,467	340— 60: 2,712,513
49— 63: 2,712,203	90: 2,712,284	176— 28: 2,712,369	243— 14: 2,712,426	292— 41: 2,712,468	341— 60: 2,712,514
51— 135: 2,712,204	91: 2,712,285	177— 28: 2,712,370	244— 14: 2,712,427	293— 41: 2,712,469	342— 60: 2,712,515
168: 2,712,205	92: 2,712,286	178— 28: 2,712,371	245— 14: 2,712,428	294— 41: 2,712,470	343— 60: 2,712,516
187: 2,712,206	93: 2,712,287	179— 28: 2,712,372	246— 14: 2,712,429	295— 41: 2,712,471	344— 60: 2,712,517
204: 2,712,207	94: 2,712,288	180— 28: 2,712,373	247— 14: 2,712,430	296— 41: 2,712,472	345— 60: 2,712,518

## CLASSIFICATION OF DESIGNS

D 3—11: Des. 175,091	D20— 4: Des. 175,083	D45— 4: Des. 175,079	D52— 7: Des. 175,064	D58—10: Des. 175,062	D81—10: Des. 175,066
D 5— 4: Des. 175,077	D26—14: Des. 175,073	19: Des. 175,080	D54—12: Des. 175,092	17: Des. 175,064	D83— 1: Des. 175,080
Des. 175,078	D37— 1: Des. 175,067	Des. 175,081	Des. 175,093	26: Des. 175,065	D87— 3: Des. 175,070
D14— 3: Des. 175,069	D44—15: Des. 175,072	Des. 175,082	13: Des. 175,066	D71— 1: Des. 175,068	Des. 175,071
Des. 175,097	21: Des. 175,087	D48— 2: Des. 175,087	D56— 9: Des. 175,076	D74— 1: Des. 175,066	Des. 175,075
D20— 4: Des. 175,065	29: Des. 175,074	27: Des. 175,085	D58— 6: Des. 175,090	Des. 175,094	D90—20: Des. 175,063



TRADEMARKS  
NOTICES

Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

T. M. 34,645, T. M. 90,793 ("Arrow" and design), Cluett, Peabody & Co., Inc., Collars and cuffs; T. M. 75,369, same, Outer shirts of all kinds; T. M. 107,962, same, Shirts, collars and cuffs; T. M. 114,337, same, Night-shirts, pajamas, under-shirts, etc.; T. M. 147,966, same, Handkerchiefs; T. M. 166,951 (Arrow), same; T. M. 368,681, same, Trousers and shorts; T. M. 413,238, same, Men's hats; T. M. 195,369 ("Arrow" and design), same, Neckties; T. M. 285,120, same, Belts for outside wear; T. M. 340,809, same, Collars, cuffs, shirts, etc.; T. M. 413,968, same, Garters and suspenders; T. M. 420,755, same, Sweaters; T. M. 429,183, same, Piece goods, etc.; T. M. 587,031, same, Hosiery for the use of men, filed Mar. 4, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 17929-C, *Cluett, Peabody & Co., Inc. v. Arrowknit Mills of Beverly Hills et al.*

T. M. 75,369. (See T. M. 34,645.)

T. M. 90,793. (See T. M. 34,645.)

T. M. 101,858 ("Lorraine Manufacturing Company" and design), Lorraine Mfg. Co., Certain named materials and cotton piece goods; T. M. 218,398 (Lorraine), same; T. M. 500,194 ("Lorraine" and design), same, Piece goods of woolen, silk and rayon fibers and combinations thereof; T. M. 500,601 (Lorraine), same; T. M. 330,739, T. M. 502,812, same, Men's and boys' suits, coats, trousers, etc., filed June 24, 1952, D. C., S. D. N. Y., Doc. 76/354, *Lorraine Mfg. Co. v. Lorraine Smart Shops, Inc. et al.* Stipulation of dismissal (notice Mar. 21, 1955).

T. M. 107,962. (See T. M. 34,645.)

T. M. 114,337. (See T. M. 34,645.)

T. M. 141,099 (Coro), Cohn & Rosenberger, Inc., Articles of jewelry, filed July 21, 1954, D. C., S. D. Fla. (Tampa), Doc.

2596, *Coro, Inc. v. Carl Caro*. Consent decree; defendant enjoined (notice Mar. 9, 1955).

T. M. 147,966. (See T. M. 34,645.)

T. M. 166,951. (See T. M. 34,645.)

T. M. 195,369. (See T. M. 34,645.)

T. M. 218,398. (See T. M. 101,858.)

T. M. 285,120. (See T. M. 34,645.)

T. M. 330,739. (See T. M. 101,858.)

T. M. 340,809. (See T. M. 34,645.)

T. M. 368,681. (See T. M. 34,645.)

T. M. 393,936 ("Camloc" and design), Camloc Fastener Co., Rotatable stud separable fasteners; T. M. 393,937 (Camloc), same; T. M. 414,291 ("Camloc" and design), Camloc Fastener Corp., Hand and machine tools—namely, drills, counter-sinks, counter-bored, punches, etc.; T. M. 591,545 (Camloc), same, Rotatable stud separable fasteners and latch fasteners, filed Mar. 9, 1955, D. C., S. D. N. Y., Doc. 99/150, *Camloc Fastener Corp. v. O P W Corp.*

T. M. 393,937. (See T. M. 393,936.)

T. M. 413,238. (See T. M. 34,645.)

T. M. 413,968. (See T. M. 34,645.)

T. M. 414,291. (See T. M. 393,936.)

T. M. 420,755. (See T. M. 34,645.)

T. M. 429,183. (See T. M. 34,645.)

T. M. 500,194. (See T. M. 101,858.)

T. M. 500,601. (See T. M. 101,858.)

T. M. 502,812. (See T. M. 101,858.)

T. M. 545,044 ("Sarah Lee Kitchen" and design), S. C. Jones, doing business as Sarah Lee Kitchen, Cakes, pies, bread, etc.; T. M. 575,573 (Sarah Lee Kitchen), S. C. Jones, same; T. M. 592,511 (Sara Lee), Kitchens of Sara Lee, Inc., same, filed Mar. 21, 1955, D. C., E. D. Wis. (Milwaukee), Doc.

CONDITION OF TRADEMARK APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding renewals and republications)	28,112
Total number of applications awaiting action (excluding renewals and republications)	11,808
Date of oldest new application	Nov. 3, 1954
Date of oldest amended application	Nov. 15, 1954

TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
I. STERBA, J. R., Classes 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 52	11-16-54	12-2-54
Renewals (All Classes)	4-13-55	5-5-55
Republications (All Classes)	3-31-55	4-25-55
II. KEYS, O. M., Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	11-3-54	11-15-54
III. RACKNOR, M., Classes 1, 3, 4, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50	12-1-54	12-1-54

Applications Filed During Week Ended June 10, 1955—439

Registrations Issued—355—No. 608,157 to No. 608,511  
Renewals Issued—73



53/C/70, *Kitchens of Sara Lee, Inc. v. Sharon Lee Bakeries, Inc. et al.*

T. M. 575,573. (See T. M. 545,044.)  
T. M. 587,031. (See T. M. 34,645.)  
T. M. 591,545. (See T. M. 393,936.)  
T. M. 592,511. (See T. M. 545,044.)

### Decisions of the Commissioner of Patents

The 1954 Edition of the Decisions of the Commissioner of Patents has been published. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Price: Buckram bound \$2.00.

## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.  
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 660,404. Extruders, Inc., Hawthorne, Calif. Filed Feb. 1, 1954.



**POLYTREAT**

Applicant claims ownership of Reg. No. 585,522.  
For Polyethylene Film in Sheet Form Designed for a Variety of Non-Associated Uses.  
Use since April 1953.

SN 667,020. E. de Grandmont, Inc., New York, N. Y. Filed May 25, 1954.

**FEATHERRLITE**

For Foam Rubber.  
Use since August 1949.

SN 671,640. Earl C. Fogle, d. b. a. Fogle's Forest, Alexandria, Va. Filed Aug. 13, 1954. Sec. 2(f).

**FOGLE'S  
HICKORY  
CUTS**

No claim is made to the words "Hickory Cuts" apart from the mark as shown.  
For Hickory Wood.  
Use since August 1943.

SN 674,314. Bert Borchardt, d. b. a. Borchardt Products Co., Ventura, Calif. Filed Oct. 5, 1954.

**MASTERSEAL**

For Material Added to Oil Well Drilling Muds To Avoid or Terminate Lost Circulation.  
Use since Aug. 16, 1954.

SN 674,519. M. F. Landers, Berino, N. Mex., to Supima Association of America. Filed Oct. 8, 1954.

*Supima*

The word "Pima" is disclaimed apart from the mark as shown.  
For Raw Cotton.  
Use since Sept. 9, 1954.

SN 674,839. Oyster Shell Corporation, Baltimore, Md. Filed Oct. 14, 1954. Sec. 2(f).

**POTOMAC**

For Oyster Shells Used as Poultry Food and for Other Purposes, Such as Fertilizer, Road Beds, and the Like.  
Use since on or about July 15, 1912.

SN 674,990. Nadir Mining Company, Sandy, Utah. Filed Oct. 18, 1954.

*Carwestone*

For Packaged Blocks of Soft and Easily Worked Natural Rock Mineral.  
Use since Oct. 11, 1954.

SN 675,010. Fred Rueping Leather Company, Fond du Lac, Wis. Filed Oct. 18, 1954.

**CHEROKEE**

For Leather.  
Use since May 7, 1954.

SN 677,466. Washington Co-Operative Farmers Association, Seattle, Wash. Filed Nov. 29, 1954.

**WASHCO**

For Vegetable Seeds, Field and Lawn Grass Seeds, and Grain Seeds, All for Planting.  
Use since January 1954.

SN 682,372. Mutation Mink Breeders Association, Racine, Wis. Filed Mar. 8, 1955. COLLECTIVE MARK.

**ARGENTA**

For Mink Fur Pelts.  
Use since Feb. 14, 1955.

SN 682,374. Mutation Mink Breeders Association, Racine, Wis. Filed Mar. 8, 1955. COLLECTIVE MARK.

**AUTUMN HAZE**

For Mink Fur Pelts.  
Use since Feb. 14, 1955.

SN 682,375. Mutation Mink Breeders Association, Racine, Wis. Filed Mar. 8, 1955. COLLECTIVE MARK.

**DESERT GOLD**

For Mink Fur Pelts.  
Use since Feb. 14, 1955.



SN 683,531. Mutation Mink Breeders Association, Racine, Wis. Filed Mar. 15, 1955. COLLECTIVE MARK.

# EMBA

For Mink Fur Pelts.  
Use since Aug. 30, 1948.

SN 684,991. Mutation Mink Breeders Association, Racine, Wis. Filed Apr. 6, 1955. COLLECTIVE MARK.

# AZURENE

For Mink Fur Pelts.  
Use since Mar. 15, 1955.

## CLASS 2

SN 649,194. Tension Envelope Corporation, Kansas City, Mo. Filed June 22, 1953.



The words "Dry Seal Envelopes" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 99,817, 415,031, and 541,946.  
For Merchandising Envelopes.  
Use since Apr. 1, 1953.

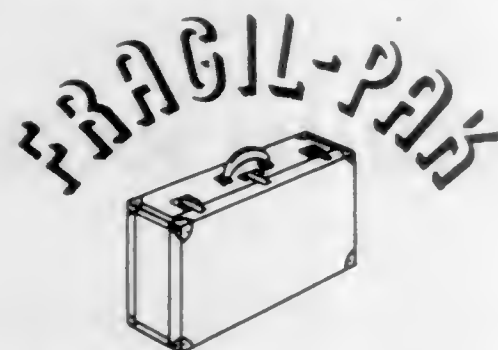
SN 674,510. General Van and Storage Company, St. Louis, Mo. Filed Oct. 8, 1954.

# PALLET VAULT

For Disassembled Sections of Paper, Paperboard and Wood Adapted To Be Set Up Into a Composite Container.  
Use since May 15, 1953.

## CLASS 3

SN 677,106. John Stefanik, Passaic, N. J. Filed Nov. 22, 1954.



No claim is made to the representation of the goods apart from the mark shown.  
For Salesmen's Sample Carrying Case.  
Use since May 1954.

## CLASS 4

SN 665,718. The National Cash Register Company, Dayton, Ohio. Filed May 4, 1954.



Applicant claims ownership of Reg. Nos. 388,773, 392,498, and others.  
For Cleaner and Polish for Cash Register Cabinets.  
Use since on or about Sept. 2, 1942.

SN 665,720. The National Cash Register Company, Dayton, Ohio. Filed May 4, 1954.



Applicant claims ownership of Reg. Nos. 56,129, 402,479, and others.  
For Cleaner and Polish for Cash Register Cabinets.  
Use since on or about Sept. 2, 1942.

SN 670,603. Mid-West Abrasive Co., Owosso, Mich. Filed July 26, 1954.

# MULTI-PLANE

For Abrasive Paper.  
Use since May 19, 1954.

## CLASS 5

SN 679,643. Congoleum-Nairn Inc., Kearny, N. J. Filed Jan. 10, 1955.

# THREE TWENTY

For Cements and Pastes for Installing Rigid Boards of Cellulosic Material, Coated Fabrics, and Surface Covering Products of the Linoleum, Felt Base, Plastic, Asphalt, Rubber, and Cork Type.  
Use since July 20, 1954.

SN 679,795. Panelcraft, Inc., Atlanta, Ga. Filed Jan. 12, 1955.

# PANELWELD

For Liquid and Paste Adhesives.  
Use since Sept. 5, 1954.

SN 680,670. Furane Plastics, Incorporated, Los Angeles, Calif. Filed Jan. 28, 1955.

# EPIBOND

For Synthetic Resins for Use in Adhesives, Coatings, and Sealants.  
Use since Nov. 29, 1954.

## CLASS 6

SN 638,138. Ferroprint Corporation, Los Angeles, Calif. Filed Nov. 15, 1952.

# FERROPRINT

For Solutions Having Ferromagnetic Properties and Used for Visibly Indicating the Presence or Absence of Magnetism on the Surface of a Member.  
Use since Oct. 4, 1952.

SN 649,346. Böhme Fettchemie G. m. b. H., Dusseldorf-Holt-hausen, Germany. Filed June 25, 1953.

# FEVA

Applicant claims ownership of German Reg. No. 622,991, dated Aug. 1, 1952, and U. S. Reg. No. 336,273.

For Deposit-Preventing and Deposit-Dissolving Compositions for Use in Conduits and the Like, Water-Softening Agents, Anti-Freeze Preparations, Pickling Liquid for Etching Metals, Solvents for Fats, Oils, Fire-Extinguishing Substances, Impregnating Materials for Papers and Textiles, Catalysts, Borax Water Glass, Glycerine, Synthetic Resins, Dextrine, Rust-Preventing Agents, Bleaches and Dyes.

SN 653,593. United Aniline Co., Boston, Mass. Filed Sept. 22, 1953.

# Formacene

For Acid—Namely, a Blend of Sulphuric, Formic, Acetic, and Lactic Acids To Replace Ordinary Acetic and Decrease Dyeing Costs, for Textile Processing.  
Use since January 1942.

SN 656,082. Ledoga, S. P. A., Milan, Italy. Filed Nov. 9, 1953.

# DULCOTAN

Priority under Sec. 44(d). Italian application filed May 11, 1953, Reg. No. 115,550, dated Jan. 30, 1954.  
For Vegetable Tanning Extracts.

SN 658,985. Gelgy Chemical Corporation, New York, N. Y. Filed Jan. 5, 1954.

# SETOPALINE

Applicant claims ownership of Reg. No. 143,012.  
For Dyes and Dyestuffs.  
Use since Jan. 23, 1904.

SN 660,931. Economica Laboratory, Inc., St. Paul, Minn. Filed Feb. 11, 1954.

# Aqua- soft

For Water Softening Composition.  
Use since Nov. 6, 1953.

SN 662,669. The Pennsylvania Salt Manufacturing Company of Washington, Tacoma, Wash. Filed Mar. 15, 1954.

# DE-FOL-ATE

For Plant Defoliant.  
Use since Jan. 30, 1952.

SN 663,448. Douglas Chemical Company, sometimes d. b. a. Douglas Chemical & Supply Co., North Kansas City, Mo. Filed Mar. 29, 1954.

# "TETRAKOTE"

Applicant claims ownership of Reg. Nos. 555,889, 555,888, and 596,969.

For Economic Poisons in the Nature of an Insecticide for Fumigating Grains.  
Use since September 1950.

SN 667,162. George H. Scherr, d. b. a. Consolidated Laboratories, Chicago, Ill. Filed May 26, 1954.

# MULTIDISK

For Disks Used in the Determination of Microbial Sensitivity to Antibiotics, Sulfonamides, and Other Agents.  
Use since Mar. 6, 1954.

SN 667,209. Henry H. Buckman, Jacksonville, Fla., to The Vulcan Detinning Company, Sewaren, N. J. Filed May 27, 1954.

# TITANIUM FERRENE

For Processed Pulverulent or Granular Compositions Consisting Essentially of Titanium and Iron Oxides, and Mixtures of Both With Other Substances, for Use as a Filler and Coloring Pigment in Any Material Such as Paints, Cements, Plastics, Ceramics, Etc.  
Use since Apr. 23, 1954.

SN 667,332. Nuodex Products Co., Inc., Elizabeth, N. J. Filed May 28, 1954.

# SILICURE

For Catalysts and Curing Agents for Silicon Resins.  
Use since May 17, 1954.

SN 667,420. Miller Sales Co., La Mesa, Calif. Filed June 1, 1954.

# TRAMART

For Water Softeners, Radiator Sealers, Engine Block Sealers.  
Use since Sept. 15, 1953.



SN 668,808. Ampco Metal, Inc., Milwaukee, Wis. Filed June 24, 1954.



Applicant claims ownership of Reg. Nos. 117,240, 442,973, and others.  
For Fluxing Materials for Use in Welding.  
Use since Mar. 13, 1953.

SN 669,045. A. E. Staley Manufacturing Company, Decatur, Ill. Filed June 28, 1954.

# CALSIZE

For Inedible Starch for Industrial Purposes.  
Use since Apr. 12, 1954.

SN 669,113. The B. F. Goodrich Company, d. b. a. B. F. Goodrich Chemical Company, a Division of The B. F. Goodrich Company, New York, N. Y. Filed June 29, 1954.

# DPPD

For Nitrogen Containing Antioxidants.  
Use since February 1954.

SN 669,181. Enthone, Incorporated, New Haven, Conn. Filed June 30, 1954.

# CHROMEKILL

For Chemicals for Reducing or Removing Chromium Compounds in Aqueous Solutions.  
Use since on or about Feb. 5, 1954.

SN 670,233. Prairie States Oil & Grease Company, Danville, Ill. Filed July 19, 1954.

# BLUE STAR

Applicant claims ownership of Reg. No. 510,440.  
For Brake Fluid.  
Use since Apr. 25, 1952.

SN 670,416. Detrex Corporation, Detroit, Mich. Filed July 22, 1954.

Applicant claims ownership of Reg. No. 512,841.  
For Phosphate Compounds Which When Applied to Metal Surfaces React Chemically Therewith To Form a Rust Inhibitor and a Paint Bonding Surface.  
Use since June 15, 1954.

SN 671,497. Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius and Bruning, d. b. a. Farbwerke Hoechst AG., Frankfurt am Main Hochst, Germany. Filed Aug. 11, 1954.

# Gfna-cet

Applicant claims ownership of German Reg. No. 636,264, dated Mar. 30, 1953.  
For Dyestuffs; Dyes; and Chemical Products for Industrial Intermediates—Namely, Dyestuff Intermediates.

SN 671,555. Colgate-Palmolive Company, Jersey City, N. J. Filed Aug. 12, 1954.

# GUSTO

For Insecticide.  
Use since May 27, 1954.

SN 671,739. Hercules Powder Company, Wilmington, Del. Filed Aug. 10, 1954.

# AQUAPEL

For Surface or Internal Sizing Agent.  
Use since July 19, 1954.

SN 673,881. Trager Manufacturing Co. Inc., Scranton, Pa. Filed Sept. 27, 1954. Sec. 2(f).

Applicant claims ownership of Reg. No. 272,288.  
For Insecticides, Ammonia, Bleach, Household and Commercial Germicides, Disinfectants, DD Crystals and Blocks, Moth Balls, Moth Flakes, Isopropyl Alcohol, and Room Deodorants.  
Use since Jan. 1, 1899, on ammonia and insecticides.

SN 673,952. J. N. Tuttle, Inc., Newton, Mass. Filed Sept. 28, 1954.

# ENDURION

For Chemicals for Use in Producing Corrosion-Resistant Metallic Surfaces.  
Use since in July 1945.

SN 674,362. American Aniline Products, Inc., New York, N. Y. Filed Oct. 6, 1954.

# AMACRON

For Dyestuffs.  
Use since August 1954.

SN 674,863. American Scientific Laboratories, Inc., Madison, Wis. Filed Oct. 15, 1954.

# ASL

Applicant claims ownership of Reg. No. 508,974.  
For Pesticides, Insecticides, Rodenticides, and Insect Repellents.  
Use since May 5, 1948, for insecticides.

SN 674,989. Multi-Color Process Company, d. b. a. Southwestern Process Supply Company, Tulsa, Okla. Filed Oct. 18, 1954.

# WATER SOL

For Water Soluble Silk Screen Water Blockout.  
Use since September 1952.

SN 675,103. B. C. Spratt, d. b. a. Jack Spratt Janitor Supplies, Lubbock, Tex. Filed Oct. 19, 1954.

# Sprattco

For Space Deodorant and Household Germicide.  
Use since Sept. 28, 1954.

SN 675,129. Cargill, Incorporated, Minneapolis, Minn. Filed Oct. 20, 1954.

# CARGILLON

For Polyester Resins for Reinforced Plastic Laminate.  
Use since Aug. 20, 1954.

SN 675,525. American Chemical Paint Company, Ambler, Pa. Filed Oct. 27, 1954.

# 977

For Chemical Preparations for Exterminating Weeds.  
Use since on or about Nov. 14, 1952.

SN 676,614. Dow Corning Corporation, Midland, Mich. Filed Nov. 15, 1954.

# SYLMER

For Compositions Used in the Finishing of Knitted, Netted, and Textile Fabrics.  
Use since Oct. 25, 1954.

# NUOPHENE

For Mildewproofing and Rotproofing Agents for Textiles and Other Cellulosic Materials and Useful Also as an Anti-Bacterial Agent To Protect Susceptible Carbohydrates, Protein, and Other Materials.  
Use since Oct. 29, 1954.

SN 677,645. Deacy Products Company, Cambridge, Mass. Filed Dec. 2, 1954.

# DELEX

For Dielectric Fluid for Use in Electric Capacitors and Other Electronic Equipment.  
Use since Feb. 25, 1954.

SN 677,778. General Electric Company, Schenectady, N. Y. Filed Dec. 6, 1954.

# METHYLON

For Condensation Products of Aldehydes With Substituted Aromatic Hydrocarbons, Used for Coating, Impregnating, and Molding Applications and the Like.  
Use since June 1954.

SN 677,937. Central Scientific Company, Chicago, Ill. Filed Dec. 8, 1954.

# CENCOIL-B

Applicant claims ownership of Reg. Nos. 442,067 and 442,569.  
For Diffusion Pump Oil.  
Use since Mar. 24, 1954.

SN 678,369. The Buckeye Cotton Oil Company, Cincinnati, Ohio. Filed Dec. 15, 1954.

# BUCKEYE

# PRO-STREN

Applicant claims ownership of Reg. Nos. 119,428, 578,151, and others.  
For Mixture of Isolated Soy Proteins With Alkaline Agents Added for Use in the Manufacture of Paper.  
Use since Sept. 16, 1954.

SN 678,476. Rehels Company, Inc., Berkeley Heights, N. J. Filed Dec. 16, 1954.

# PRE-CAL

For Hydrated Aluminum Carbonate Gel for Paper Coating.  
Use since Nov. 11, 1954.



SN 679,872. The Udyllite Corporation, Detroit, Mich. Filed Jan. 13, 1955. SN 680,910. Standard Chemical Products, Inc., Hoboken, N. J. Filed Feb. 1, 1955.

## UDYLITE

Applicant claims ownership of Reg. Nos. 220,590, 229,519, and 224,679.

For Materials for Cadmium, Nickel, Chromium, Copper, Zinc, Brass, White Brass, Silver, and Tin Electroplating Including Electrolytes, Salts and Addition Agents Therefor, Test Set Solutions, and Cleaning Compounds for Electrolytic, Soak, Spray, and General Cleaning of Metals.

Use since Nov. 19, 1919, on materials for cadmium plating.

SN 679,898. Delaware Tool Steel Corporation, Wilmington, Del. Filed Jan. 14, 1955.

**D  
E  
L  
G  
A  
S**

For Compressed, Liquefied, Non-Flammable, Protective Atmosphere for Use in Metal Heat Treating Furnaces.

Use since Nov. 1, 1954.

SN 679,947. Strouse, Inc., Norristown, Pa. Filed Jan. 14, 1955.

**LEATHER  
LIFE**

Applicant claims ownership of Reg. No. 356,685. For Leather Preservatives.

Use since Oct. 1, 1954.

SN 680,214. National Lead Company, New York, N. Y. Filed Jan. 20, 1955.

## FORMOX

For Lead Oxides and Mixtures of Lead Oxide for Use in Storage Battery Manufacture.

Use since May 28, 1952.

SN 680,215. National Lead Company, New York, N. Y. Filed Jan. 20, 1955.

## DRYOX

For Lead Oxides and Mixtures of Lead Oxides for Use in Storage Battery Manufacture, Particularly Dry Charged Batteries.

Use since July 22, 1953.

## RETARDINE

For Retardation and Fixation Preparation for Use in Conjunction With Dyestuffs Especially Formulated To Resist Deterioration of Fabric and Component Fibres.

Use since December 1930.

SN 681,014. Hood Chemical Co., Inc., Ardmore, Pa. Filed Feb. 3, 1955.

## Hood

For Ammonia for Household Use and Liquid Starch.

Use since Aug. 20, 1954.

SN 681,061. Borax Consolidated, Limited, d. b. a. Pacific Coast Borax Co., Division of Borax Consolidated, Limited, Los Angeles, Calif. Filed Feb. 4, 1955.

## QUADRIBOR

Applicant claims ownership of Reg. Nos. 577,959 and 577,960.

For Anhydrous Sodium Polyborate.

Use since Dec. 21, 1954.

SN 681,111. Standard Ultramarine & Color Co., Huntington, W. Va. Filed Feb. 4, 1955.

## BAHAMA

For Dyes—Namely, Phthalocyanine Blues.

Use since Jan. 13, 1955.

SN 681,331. Allied Chemical & Dye Corporation, New York, N. Y. Filed Feb. 9, 1955.

## Anchor Brand

Applicant claims ownership of Reg. Nos. 240,070, 273,181, and 375,563.

For Ammonium Bicarbonate.

Use since 1941.

SN 681,341. Chemical Associates, Inc., Providence, R. I. Filed Feb. 9, 1955.

## CHLORODOXINE

For Stabilized Chlorine Dioxide.

Use since on or about Dec. 1, 1954.

SN 681,342. Chemical Associates, Inc., Providence, R. I. Filed Feb. 9, 1955. SN 675,018. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Oct. 18, 1954.

## PERCLORADOXINE

For Stabilized Chlorine Dioxide.

Use since on or about Dec. 1, 1954.

SN 681,355. H and Y Products, Inc., New Hyde Park, N. Y. Filed Feb. 9, 1955.

## SEPTI • GEST

For Chemical Compound Designed To Assist in the Digestion of Sewage Solids Within Septic or Cesspool Systems.

Use since on or about Dec. 8, 1954.

SN 681,489. Chemicals for Petroleum Industry Co., Houston, Tex. Filed Feb. 11, 1955.

## THERMINE

For Chemical Compounds as Employable as an Oil or Gas Well Drilling Mud Thinner and the Like.

Use since Nov. 11, 1954.

### CLASS 10

SN 652,866. Leffingwell Chemical Company, East Whittier, Calif. Filed Sept. 8, 1953.

## vita tone

For Fertilizers, Chemicals for Treating the Soil, Gypsum, and Soil Sulfur.

Use since May 15, 1947, on fertilizers and chemicals for treating the soil.

SN 674,754. Charles J. Marchell, d. b. a. Jet-Gro Peat Co., Torrington, Conn. Filed Oct. 13, 1954.

## JET-GRO

For Peat Used as a Soil Conditioner.

Use since Apr. 24, 1952.

SN 675,017. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Oct. 18, 1954.

## ALFAFERT

For Fertilizers.

Use since in the spring of 1946.

TM 696 O. G.—2

*Fertilime*

For Fertilizers.

Use since in the spring of 1937.

SN 675,023. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Oct. 18, 1954.

**ROYAL**

For Fertilizers.

Use since in the spring of 1933.

SN 675,053. Buffalo Meat Products, Inc., Buffalo, N. Y. Filed Oct. 19, 1954.

**GRO  
GREEN**

For Fertilizer.

Use since Sept. 1, 1951.

Subj. to Intf. with SN 675,019.

SN 675,441. Stanton Company, Holland, Mich. Filed Oct. 25, 1954.

*Lustre Wonder*

For Liquid Plant Food.

Use since Dec. 1, 1953.

SN 677,464. Washington Co-Operative Farmers Association, Seattle, Wash. Filed Nov. 29, 1954.

**WASHCO**

The lining is to indicate color contrast, but not a particular color.

For Fertilizers.

Use since about January 1954.



## CLASS 11

SN 681,546. Quest Manufacturing Company, Chicago, Ill. Filed Feb. 11, 1955.

# WINNER

For Carbon Paper.  
Use since May 1951.

## CLASS 12

SN 657,224. Mansfield Hardwood Lumber Company, Inc., Shreveport, La. Filed Dec. 1, 1953. Sec. 2(f).

# MANSFIELD

For Raw and Partially Finished Materials—Namely, Lumber, To Be Used in Making Furniture and Unfinished Wood Panels.

Use since on or before Jan. 1, 1928.

SN 661,744. United States Gypsum Company, Chicago, Ill. Filed Feb. 26, 1954.

# DUR-A-BEAD

Applicant claims ownership of Reg. No. 589,611.  
For Metal Corner Reinforcement.  
Use since Oct. 23, 1953.

SN 664,844. Carr, Adams & Collier Company, Dubuque, Iowa. Filed Apr. 20, 1954.



Applicant claims ownership of Reg. Nos. 141,030 (expired), 388,175, and 524,094.

For Wood Trim and Wood Moulding; Fabricated Woodwork—Namely, Sashes; Entrance Doors; Room Doors; Garage Doors; Shutters; Transoms; Window and Door Screens; and Louvers; and Sets of Pre-Cut Millwork for the Construction of the Following Permanent Type Installations: Fireplace Mantels; Stairs and Stairways; Window, Door and Louver Frames; Exterior and Interior Doorway Entrances; Kitchen, Telephone, Medicine, Corner, Office, China, Linen, and Ironing Board Cabinets; and Breakfast Nooks.

Use since May of 1920 on stairs and stairways.

SN 667,537. The Kawneer Company, Niles, Mich., to Kawneer Company. Filed June 2, 1954.

# KAWPORT

For Kit of Constructional Materials Including Louvers, Fasciae, Supports and Fastening Means for Constructing Patio Covers, Breezeway Covers, Carports, Covers for Sidewalks and the Like.

Use since Apr. 20, 1954.

SN 668,927. Precisionwood, Auburn, Maine. Filed June 25, 1954.



For Synthetic Wood Produced in Sheet Form.  
Use since Nov. 5, 1952.

SN 669,337. The Johnson Rubber Company, Middlefield, Ohio. Filed July 2, 1954.

# TILE-ALL

For Plastic Wall Tiles in Various Sizes, Shapes and Colors.  
Use since on or about Dec. 3, 1953.

SN 673,626. Structo Company Limited, Ottawa, Ontario, Canada. Filed Sept. 22, 1954.



Applicant claims ownership of Canadian Reg. No. N. S. 165/42159, dated Jan. 15, 1952.

For Metal Structural Elements in the Form of Angles, Bars, and Plates Provided With Series of Bolting Holes.

SN 673,716. Walter Bates Company, Inc., Joliet, Ill. Filed Sept. 24, 1954.

# BATES SERRATES

Applicant claims ownership of Reg. No. 512,995.  
For Metal Grates.  
Use since Sept. 14, 1954.

SN 674,240. Ferro Corporation, Cleveland, Ohio. Filed Oct. 4, 1954.

# GLASFACE

For Cement and Concrete Building Blocks Having a Ceramic Glaze Fired on at Least One Surface Thereof.  
Use since July 22, 1954.

SN 676,008. Eldoer Rupno, d. b. a. Merrill Door Company, Merrill, Wis. Filed Nov. 3, 1954.



The drawing is lined for red and black.  
For Overhead Garage Doors and Hardware Sold Together.  
Use since Aug. 1, 1952.

SN 677,344. The S. Obermayer Company, d. b. a. The Ramtite Company, Chicago, Ill. Filed Nov. 26, 1954.



Applicant claims ownership of Reg. No. 192,777.  
For Fire Brick in Plastic Form Suitable for Furnace Lining and Kindred Uses.  
Use since Oct. 15, 1954.

SN 678,610. C. H. Dragert Company, Inc., Dallas, Tex. Filed Dec. 20, 1954.



For Pipe Thread Sealing Compound.  
Use since Nov. 1, 1954.

SN 678,999. Locke Manufacturing Company, Lodi, Ohio. Filed Dec. 27, 1954.

# VERSA

For Wrought Iron Railings, Columns, Valances and Other Wrought Iron Ornamental Products.  
Use since Dec. 2, 1954.

SN 679,140. Crawford Door Company, Detroit, Mich. Filed Dec. 30, 1954.



For Garage Doors, and Parts Thereof.  
Use since Aug. 6, 1949.



Applicant claims ownership of the mark shown in Reg. No. 335,134 and expired Reg. No. 287,470 and others.  
For Plastic Asbestos Roof Cement, Crack Filler, and Putty.  
Use since on or about Oct. 1, 1935, on putty.

SN 679,739. Boach & Musser Co., Muscatine, Iowa. Filed Jan. 11, 1955.



No claim is made to the word "Removable" apart from the mark shown. Applicant claims ownership of Reg. Nos. 598,285, 383,917, and 592,924.  
For Removable Sliding Window Units.  
Use since on or about Dec. 7, 1954.

SN 679,791. New York State Longspan Steel Truss Council, Buffalo, N. Y. Filed Jan. 12, 1955. COLLECTIVE MARK.



The drawing is lined for color to show contrast between the components of the mark, but no particular color is intended. The representation of a map of New York State, and of the goods, are disclaimed.

For Fabricated Steel Trusses.  
Use since Dec. 29, 1954.

SN 679,988. Paul Heinley, Santa Monica, Calif. Filed Jan. 17, 1955.

# Paul Heinley

For Shutters, Finished or Unfinished, for Forming Partitions, Doors, and Window Shutters and Screens, as Permanent Parts of a Building.  
Use since Mar. 5, 1952.

## CLASS 13

SN 673,160. Bart Manufacturing Corporation, Belleville, N. J. Filed Sept. 11, 1954.

# LECTRO-CLAD

For Electro-Plated Commercial Pipes and Fittings—Namely, Connectors, L's, T's, Flanges, Reducers and Caps, Which Are Nickel-Lined by Electrodeposition.  
Use since January 1946.

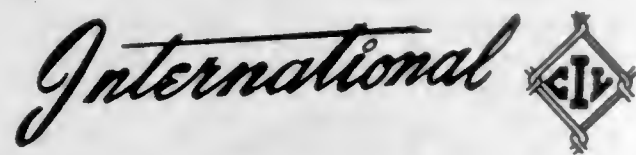


SN 673,161. Bart Manufacturing Corporation, Belleville, N. J. Filed Sept. 14, 1954.



The drawing is lined for blue and yellow.  
For Electro-Plated Commercial Pipes and Fittings—Namely, Connectors, L's, T's, Flanges, Reducers and Caps, Which Are Nickel-Lined by Electrodeposition.  
Use since June 1946.

SN 678,540. Phillip W. Jones, d. b. a. International Chain Link Company, Tulsa, Okla. Filed Dec. 17, 1954.



For Chain Link Fencing.  
Use since Nov. 2, 1954.

SN 678,592. Bridgeport Brass Company, Bridgeport, Conn. Filed Dec. 20, 1954.



For Skillets, Frying Pans, Saucepans, and Similar Kitchen Utensils Made of Metal.  
Use since Oct. 26, 1954.

SN 678,997. Robert K. Little, Philadelphia, Pa. Filed Dec. 27, 1954.

# RKL

For Pinch-Type Valves.  
Use since July 7, 1954.

SN 679,075. Malcolm Arthur Ball, d. b. a. Ball Drainage Co., Elgin, Ill. Filed Dec. 29, 1954.

# HI-HAT

For Grate Top for Catch Basins.  
Use since Aug. 3, 1954.

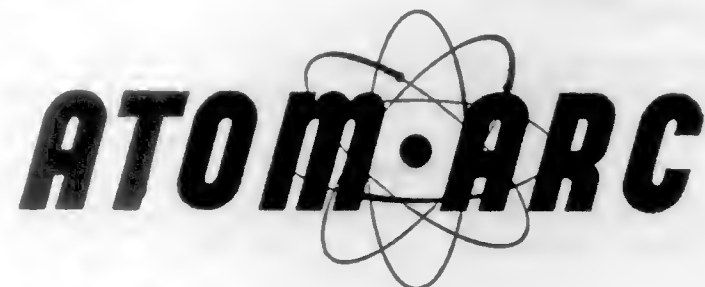
## CLASS 14

SN 665,984. Air Reduction Company, Incorporated, New York, N. Y. Filed May 10, 1954.

# AIR-MANG

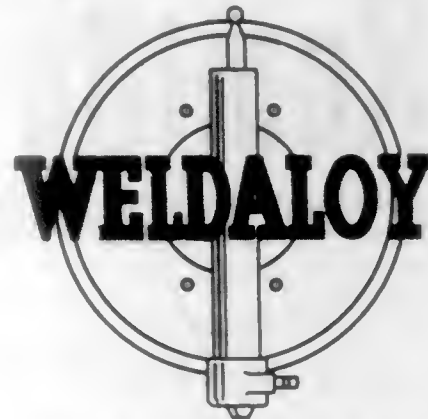
For Alloys for Use in Hard Facing Metals.  
Use since March 1951.

SN 674,782. Alloy Rods Company, York, Pa. Filed Oct. 13, 1954.



For Welding Rods.  
Use since July 12, 1954.

SN 678,897. Weldaloy Products Co., East Detroit, Mich. Filed Dec. 23, 1954.



For Copper Alloy Rod and Bar Stock and Copper Alloy Castings and Forgings.  
Use since Feb. 10, 1947.

## CLASS 15

SN 679,095. Gain Corporation, Chicago, Ill. Filed Dec. 29, 1954.



For Oil Additives for Reducing Engine Friction; Lubricant Additives for Reducing Friction in Gears and Transmissions; Fuel Additives for Reducing Engine Friction; Fuel Additives for Cleaning Carburetors and Prevention of Freezing in Fuel Lines.  
Use since on or about Sept. 30, 1954.

## CLASS 16

SN 647,927. Interchemical Corporation, New York, N. Y. Filed May 29, 1953.

# Vynafoam

For Finish Compositions, Which After Application to a Surface Are Expanded by Heat To Form a Sponge or Foamed Coating.  
Use since Apr. 13, 1953.

SN 665,138. Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Filed Apr. 23, 1954. Sec. 2(f) as to "Phelan's."



The drawing is lined for red, but no claim to color is made. Applicant claims ownership of Reg. Nos. 154,364, 592,656, and others.

For Synthetic Rubber Type Primer-Sealer for Dry-Wall Construction, Cured Plaster, Masonry, and Similar Porous Surfaces.

Use since Aug. 1, 1950; and since August 1919 as to "Phelan's."

SN 675,938. Watson-Standard Company, Pittsburgh, Pa. Filed Nov. 2, 1954.

# P-5

For Chemical Resistant Paints and Chemical Resistant Enamels.  
Use since Dec. 1, 1945.

SN 675,939. Watson-Standard Company, Pittsburgh, Pa. Filed Nov. 2, 1954.

# SO-E-ZY

Applicant claims ownership of Reg. No. 121,940. For Enamels, Varnishes, Stains, Paints, Aluminum Bronze, and Gold Bronze.  
Use since Nov. 1, 1916.

SN 680,583. The Buckeye Cotton Oil Company, Cincinnati, Ohio. Filed Jan. 27, 1955.

# BUCKEYE PRO-COTE

Applicant claims ownership of Reg. Nos. 119,428, 578,151, and others.

For Protein Product for Thickening and Stabilizing Latex Paint.

Use since Dec. 6, 1954.

SN 680,807. William E. Sailors, d. b. a. Longview Paint and Varnish Co., Longview, Wash. Filed Jan. 31, 1955.

# Plyhyde

For Plastic Compositions for Coating and Filling Plywood and Other Wood Surfaces.  
Use since Nov. 1, 1954.

## CLASS 17

SN 677,674. One Twenty One Tobacco Incorporated, New York, N. Y. Filed Dec. 2, 1954.

# One Twenty One

For Cigarettes.  
Use since on or about Nov. 19, 1954.

## CLASS 18

SN 666,243. Winthrop-Stearns Inc., New York, N. Y. Filed May 12, 1954.

# OTAMYLON

Applicant claims ownership of Reg. Nos. 431,858 and 556,352.

For Preparation for the Treatment of Infections of the External and Middle Ear.

Use since Apr. 15, 1954.

SN 666,627. E. T. Browne Drug Company, Inc., New York, N. Y. Filed May 19, 1954. Sec. 2(f).



Applicant claims ownership of Reg. Nos. 305,601, 305,635, and others.

For Ointment, Salve, or Pomade Used in and for the Mitigation and Treatment of Skin Affections, Diseases, Disorders, and Eruptions.

Use since 1840.

SN 667,649. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed June 3, 1954.

# ENTEROBIOTICO

For Antibiotic Preparation.  
Use since May 12, 1954.

SN 674,112. Charles T. Warren, Lexington, Ky. Filed Sept. 30, 1954.

# STYPTIN

For Styptic Antiseptic.  
Use since the year 1940.

SN 675,757. Bernhoff Laboratories, Inc., d. b. a. Bernhoff Laboratories, Bremerton, Wash. Filed Nov. 1, 1954.

# BENECYCLES

For Medicinal Preparation for Internal Use in the Treatment of Neurasthenia Characterized by Chronic Tiredness and Mental Depression.  
Use since May 10, 1953.



SN 678,146. Pacific States Laboratories, Inc., San Francisco, Calif. Filed Dec. 10, 1954.

## PACTOSTYL

For Methyltestosterone.  
Use since Nov. 17, 1954.

SN 678,394. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Dec. 15, 1954.

## Muco-Trope

For Antacid Absorbent Antispasmodic Mixture Used for the Temporary Relief of Gastric Hyperacidity.  
Use since Nov. 23, 1954.

SN 678,395. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Dec. 15, 1954.

## Calsiron

For Brand of Prenatal Nutritional Supplement With Ferrous Sulfate and Aluminum Hydroxide Gel.  
Use since Nov. 23, 1954.

SN 678,415. Merck & Co., Inc., Rahway, N. J. Filed Dec. 15, 1954.

## FLUDROCORTONE

Applicant claims ownership of Reg. Nos. 531,347, 598,401, and 563,020.  
For Hormones and Hormonal Substances.  
Use since Nov. 29, 1954.

SN 678,457. Irwin, Neisler and Company, Decatur, Ill. Filed Dec. 16, 1954.

## DESTROL

For Synthetic Hormone Product for Treating Menopausal Disturbances.  
Use since Mar. 27, 1941.

SN 678,564. Otto A. H. Wolfer, Hamburg, Germany. Filed Dec. 17, 1954.

## STEINONIT

Applicant claims ownership of German Reg. No. 463,826, dated Nov. 15, 1933.  
For Medical Preparation for Gallstones.

SN 678,603. Cutter Laboratories, Berkeley, Calif. Filed Dec. 20, 1954.

## Cytal

For Medical Preparation—Namely, a Concentrated Urologic Irrigating Fluid.  
Use since before October 1952.

SN 678,604. Cutter Laboratories, Berkeley, Calif. Filed Dec. 20, 1954.

## Fringol

For Medical Preparation—Namely, a Bacterin for Immunization of Livestock Against Enterotoxemia.  
Use since Nov. 30, 1953.

SN 678,644. Eli Lilly and Company, Indianapolis, Ind. Filed Dec. 20, 1954.

## Stilbosol

For Preparation of Diethylstilbestrol for Use in Animal Feed To Stimulate Growth in Fattening Cattle.  
Use since Nov. 29, 1954.

SN 679,342. Schering Corporation, Bloomfield, N. J. Filed Jan. 3, 1955.

## ANTICEL

For Drug for the Treatment of Vascular Conditions.  
Use since Nov. 8, 1954.

SN 679,423. Tablerock Laboratories, Inc., Greenville, S. C. Filed Jan. 4, 1955.

## SERTABS

For Product for the Treatment of Hypertension.  
Use since Dec. 11, 1954.

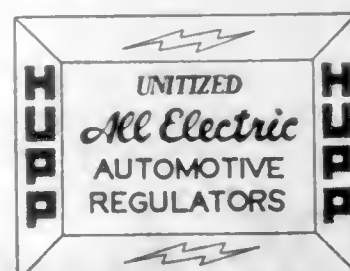
SN 679,424. Tablerock Laboratories, Inc., Greenville, S. C. Filed Jan. 4, 1955.

## Rauja

For Product for the Treatment of Hypertension.  
Use since Dec. 23, 1954.

### CLASS 19

SN 632,889. Hupp Corporation, Cleveland, Ohio. Filed July 22, 1952. Sec. 2(f) as to "Hupp."



Applicant disclaims the words "All Electric Automotive Regulators" apart from the mark as shown.

For Automotive Accessories—Namely, Electrically Operated Window Regulators, Convertible Top Lift Mechanisms, and Seat Adjusters.

Use since March 1952 on automotive window regulators; and since 1908 as to "Hupp."

SN 635,675. Austin Trailer Equipment Company, Muskegon, Mich. Filed Sept. 24, 1952. Sec. 2(f). SN 662,210. The Gabriel Company, Cleveland, Ohio. Filed Mar. 8, 1954.

## AUSTIN

For Trailer Fifth-Wheel Units (Being a Portion of Coupling Units Pivotally Connecting a Trailer to a Tractor Vehicle).  
Use since 1932.

SN 649,715. Daniel C. Larkin, d. b. a. The Crest Company, Detroit, Mich. Filed July 2, 1953.

## "Cushion Topper"

For Automobile Seat Covers.  
Use since about May 1, 1953.

SN 650,816. Daniel C. Larkin, d. b. a. The Crest Company, Detroit, Mich. Filed July 24, 1953.



For Automobile Seat Covers.  
Use since about May 1, 1953.

SN 658,402. Frank E. Linke, d. b. a. Evergreen Trailer Co., Seattle, Wash. Filed Dec. 22, 1953.



For Truck Trailers, Truck Bodies, and House-Moving Dollies.  
Use since on or about Jan. 1, 1939.

SN 660,605. Packard Motor Car Company, Detroit, Mich., now by change of name Studebaker-Packard Corporation. Filed Feb. 4, 1954.

## PANTHER

For Passenger Automobiles.  
Use since Jan. 28, 1954.

## BRIGGS

For Shock Absorbers for Motor Vehicles.  
Use since on or about June 1, 1947.

SN 663,816. Metalastik Limited, Leicester, England. Filed Apr. 2, 1954.

## METACONE

Applicant claims ownership of British Reg. No. B. 690,367, dated July 1, 1950.  
For Resilient Mountings for Vehicle Bodies and for Other Parts of Vehicles.

SN 666,156. Air Associates, Inc., Teterboro, N. J. Filed May 12, 1954.



No claim is made to the exclusive use of the words "Air Associates, Inc." apart from the mark as shown. Applicant claims ownership of Reg. No. 544,041.

For Passenger Safety Belts for Use in Motor Vehicles and Airplanes.  
Use since Apr. 1, 1954.

SN 668,172. Inter-Hemisphere Imports, Inc., New York, N. Y. Filed June 14, 1954.



The word "Cycle" is disclaimed apart from the mark. For Bicycles.  
Use since Jan. 11, 1954.  
Subj. to Intf. with Reg. No. 603,538.

SN 673,804. Brooks & Perkins, Inc., Detroit, Mich. Filed Sept. 27, 1954.

## Pusharound

For Portable Hand Trucks—Namely, Merchandise Moving Trucks, Shelf Trucks, Cabinet Trucks, Transfer Trucks, Marking Trucks, and Marking Table Trucks.  
Use since Jan. 8, 1954.



SN 682,852. Arnold, Schwinn & Co., Chicago, Ill. Filed Mar. 7, 1955. Sec. 2(f).

**Cycle-Truck**

Applicant claims ownership of Reg. No. 371,422.  
For Bicycles.  
Use since Feb. 2, 1939.

SN 682,980. Queen City Chevrolet Company, Cincinnati, Ohio. Filed Mar. 7, 1955.

**Stagecoach**

For Motor Buses—Namely, Specially Rebuilt, Eleven Passenger Automotive Coaches.  
Use since Jan. 18, 1955.

SN 683,242. Thompson Products, Inc., Cleveland, Ohio. Filed Mar. 10, 1955.

**SKY-RIDE**

For Automobile Shock Absorbers.  
Use since Jan. 12, 1955.

SN 683,656. Norman Bennett, Washington, D. C. Filed Mar. 17, 1955.

**ELBOWACTION - BODYGUARD**

For Automobile Bumpers.  
Use since Sept. 12, 1952.

SN 683,732. Warren E. von Stetten, Jr., Charles Seaboldt, C. Edward Crane, and F. J. Malatesta, Coatesville, Pa. Filed Mar. 17, 1955.

**Von**

For Low Bed Industrial Trailers.  
Use since Jan. 12, 1955.

SN 683,760. John H. Cook, d. b. a. Brahma Brand Products Co., Grants Pass, Ore. Filed Mar. 18, 1955.

**Jiffy**

For Truck Tops Made of Canvas and Including Steel Frame Therefor.  
Use since on or about Oct. 15, 1951.

SN 684,040. The Gabriel Company, d. b. a. Hadees Heater Division of The Gabriel Company, Rockford, Ill. Filed Mar. 23, 1951.

**Chief**

Applicant claims ownership of Reg. No. 319,901.  
For Automobile Heaters and Parts and Accessories Therefor, and More Particularly Heaters Heated by the Engine-Cooling Medium.  
Use since Feb. 1, 1954.

#### CLASS 21

SN 639,558. The English Electric Company Limited, London, England. Filed Dec. 16, 1952.

**MAGAMP**

Applicant claims ownership of British Reg. No. 696,077, dated Feb. 16, 1951.  
For Electrical Servo-Systems, Magnetic Amplifiers, and Controllers for Electric Motors.  
Subj. to Intf. with SN 665,796.

SN 649,402. V-M Corporation, Benton Harbor, Mich. Filed June 25, 1953.



The words "The Recorded Voice of Music" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 542,812.

For Automatic Electrically Operated Record Changers for Use as Parts of Electric Phonographs, Automatic Electrically Operated Record Changers Adapted To Play Through Separate Radio Receivers, Electric Phonographs With Record Changers, Automatic Portable Electric Phonographs, Manually Controlled Electrically Operated Record Players and Electric Tape Recorders.  
Use since May 28, 1953.

SN 653,697. The Lincoln Electric Company, Cleveland, Ohio. Filed Sept. 24, 1953.

**INERTARC**

For Self-Contained Electric Arc-Welding Machine Including the Controls and Associated Apparatus for Alternating Current Arc Welding.  
Use since on or before June 24, 1953.

SN 660,762. Varo Manufacturing Co., Inc., Garland, Tex. Filed Feb. 8, 1954.

**VARO**

For Electric Power Supply Equipment, Converters, Inverters, Phase Adapters, Transformers, and Electrical Standards.  
Use since Oct. 24, 1946.

SN 662,608. L. L. Constantin & Co., Lodi, N. J. Filed Mar. 15, 1954.



**PERMA-GUARD**

Applicant claims ownership of Reg. No. 371,326.  
For Storage Batteries.  
Use since Apr. 29, 1954.

SN 665,966. Snyder & Black, New York, N. Y. Filed May 7, 1954.

**COLORAMA**

For Color Transparencies for Lamp Shades.  
Use since Sept. 30, 1953.  
Subj. to Intf. with SN 663,155.

SN 666,892. Gold Prize Coffee Co., Inc., Chicago, Ill. Filed Apr. 27, 1954.



For Electrical Coffee Makers.  
Use since Apr. 15, 1946.

SN 667,856. Wizard Mfg. Co., North Hollywood, Calif. Filed June 7, 1954.



For Radio Controlled Garage Door Operators.  
Use since Aug. 17, 1953.

SN 670,634. U. S. Components, Inc., New York, N. Y. Filed July 26, 1954.



For Electrical Connectors.  
Use since June 1952.

For Crystal Holders, Multi-Pin Headers, Transistor Mounts, Terminals, End Seals for Capacitors, Resistors, Semi-Conductors and Other Housings for Electrical Devices; Connector Plugs; Vacuum Coating Equipment for the Processing of Quartz Crystals by Means of Metal Evaporation Under Vacuum for Electrical Uses; Mechanical Precision Parts as Used in the Manufacture of Electrical Devices Such as Computers, Gyroscopes, Radios, Television, and Electrical Measuring Instruments; and Special Seals of a Fused Glass or Ceramic to Metal Construction as Used in Electrical and Electronic Equipment.  
Use since Dec. 28, 1953.

SN 663,155. Arch Lamp Manufacturing Corp., New York, N. Y. Filed Mar. 24, 1954.

**COLORAMA LAMPS**

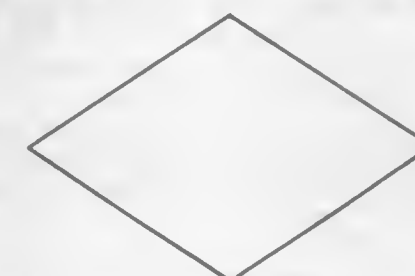
The term "Lamps" is disclaimed apart from the mark.  
For Electric Illuminating Lamps.  
Use since November 1952.  
Subj. to Intf. with SN 665,966.

SN 664,283. Boeing Airplane Company, Seattle, Wash. Filed Apr. 12, 1954.



For Wire Bundle Supports.  
Use since Mar. 18, 1954.

SN 665,099. Diamond Wire & Cable Company, Sycamore, Ill. Filed Apr. 23, 1954.



For Electrical Plugs, Cord Sets, Electrical Wire Harnesses, Insulated Electric Wire, and Insulated Electric Cable.  
Use since on or about Jan. 1, 1898.

SN 665,796. Westinghouse Electric Corporation, Pittsburgh, Pa. Filed May 5, 1954.

**MAGAMP**

For Magnetic Amplifiers, That Is, Electro-Magnetic Devices Using Saturable Reactors Either Alone or in Combination With Other Circuit Elements To Secure Amplification or Control.  
Use since Mar. 12, 1951.  
Subj. to Intf. with SN 639,558.



SN 672,247. Radio Shack Corporation, Boston, Mass. Filed Aug. 25, 1954. SN 660,502. Nintendo Playing Card Co., Ltd., Shimokyo-ku, Kyoto, Japan. Filed Feb. 2, 1954.

# Archer

For Head-Phones, Loud-Speakers, Amplifiers, Radio Receivers, and Parts Thereof, Recording Tape, Electrical Phonograph Needles, Electrical Phonographs, and Microphones. Use since May 1, 1954.

SN 673,281. J F D Manufacturing Co., Inc., Brooklyn, N. Y. Filed Sept. 18, 1954.

## "The RAINBOW Antenna"

The letters of the word "Rainbow" are lined for the colors purple, red, blue, green, yellow, orange, and pink. For Television Antennae. Use since Sept. 3, 1954.

SN 673,669. Howard S. Lee, d. b. a. Lee Electric Products Co., Danvers, Mass. Filed Sept. 23, 1954.

## HOTWATT

For Electrical Heating Units. Use since August 1952.

SN 675,404. Milton H. Kreines, d. b. a. Valet Industries, Chicago, Ill. Filed Oct. 25, 1954.

## ELECTRISHINE

For Portable, Hand-Supported Polishing Machines. Use since on or about Sept. 20, 1954.

### CLASS 22

SN 660,501. Nintendo Playing Card Co., Ltd., Shimokyo-ku, Kyoto, Japan. Filed Feb. 2, 1954.

# 大統領

The Japanese characters mean "president." Applicant claims ownership of Japanese Reg. No. 221,256, dated Jan. 7, 1931. For Playing Cards.

# 金天狗

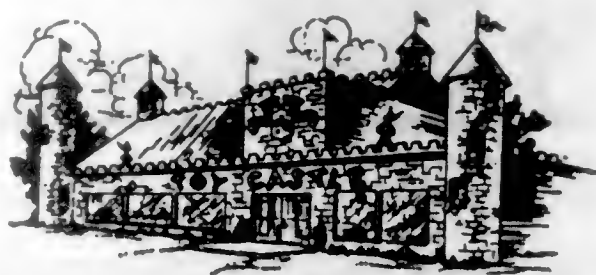
The Japanese characters mean "long-nosed goblin." For Playing Cards. Use since Oct. 11, 1887.

SN 662,067. Henry L. Boisclair, New Haven, Conn. Filed Mar. 5, 1954.



For Top of the Bandalore Type. Use since Mar. 10, 1952.

SN 663,288. Conrad G. Lambert, d. b. a. Lambert's Cycle & Toy Shop, Claremont, N. H. Filed Mar. 25, 1954.



For Archery Sets; Blackboards; Log Sets, Building Sets; Dolls and Doll Carriages; Card Games, Pingpong Sets, and Board; Games; Mechanical Toys; Toy Accordions, Toy Pianos, Toy Musical Instruments, Toy Music Boxes; Pool Tables; Rocking Horses; Scooters; Sleds; Skis; Stuffed Toys; Children's Tricycles; and Toy Building Sets, Cars, Chests, Coloring Sets, Dishes, Guns, Holster Sets, Molding Sets, Pistols, Printing Sets, Soldiers, Stoves, Tools, Toolboxes, Planes, Tractors, Trains, Trucks, and Wagons. Use since Jan. 6, 1954.

SN 664,104. Uneda Doll Company, Inc., New York, N. Y. Filed Apr. 7, 1954.

## "BABY TRIX"

For Dolls. Use since on or about Mar. 12, 1954.

SN 665,741. Yankee Sports Goods Company, Carmichael, Calif. Filed May 4, 1954.

## YANKEE DANDY

For Artificial Fish Lures. Use since Feb. 25, 1954.

SN 665,816. Murray Hantman, Nyack, N. Y. Filed May 6, 1954. SN 673,574. Helen Cole Inc., New York, N. Y. Filed Sept. 22, 1954.



For Parlor Game With a Board and Detachable Pieces. Use since Apr. 7, 1954.

SN 666,677. Eugene R. Miller, d. b. a. Miller Lures, Kansas City, Mo. Filed May 19, 1954.

## TOP KICK

For Artificial Fish Lures. Use since Apr. 20, 1954.

SN 667,007. The Worth Company, Stevens Point, Wis. Filed May 24, 1954.

## MUSKY FIN

For Artificial Fishing Lure for Fresh Water Game Fish. Use since Jan. 2, 1953.

SN 668,687. Packard Toy Mfg. Co. Inc., New York, N. Y. Filed June 22, 1954.

## DING-A-LING

For Toy Bead Stringing Kits and Containers Thereof and Toy School Supplies Kit Sets Comprising a Blackboard, Chalk and Eraser, a Coloring Book, Crayons, a Pad and the Containers Thereof. Use since Apr. 25, 1954.

SN 670,525. Dorothea Alcock, Covina, Calif. Filed July 26, 1954.

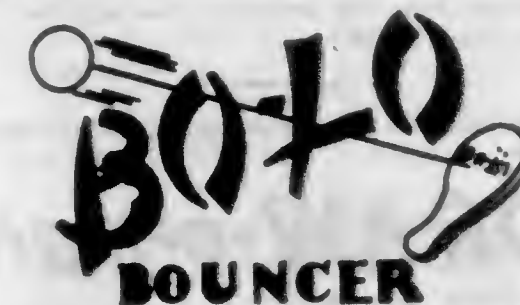


For Educational Reading Game Played With Cards. Use since Oct. 29, 1953.

## BOTTOMS UP

For Novelty Figure in the Nature of a Puppet. Use since Aug. 20, 1954.

SN 673,890. All-Metal Bottle Cooler Corporation, d. b. a. The Bo-Lo Company, Atlanta, Ga. Filed Sept. 28, 1954.



Applicant claims ownership of Reg. No. 300,763, expired. For Toy of the Bandalore Type—Namely, a Wooden Bat or Paddle, Tennis Racket Shaped With Rubber Ball Attached by Rubber Thread to Bat or Paddle. Use since Sept. 1, 1932.

SN 675,153. The Linen Thread Co., Inc., New York, N. Y. Filed Oct. 20, 1954. Sec. 2(f).

## ADAMS'

For Nets Used in the Games of Tennis, Badminton, Volley Ball, Water Polo, Soccer, Sket, Lacrosse, Field and Ice Hockey, Basketball, Paddle Tennis, Deck Tennis, Hand Tennis, Ring Tennis, and for Gymnasium Nets, Golf Practice and Baseball Batting Cages, Baseball Protection and Baseball and Tennis Backstop Nets, and Nets for Dividing or Partitioning Gymnasium and Other Sports and Game Areas, and Nets Used in Sports Fishing, Such as Landing Nets, Crab Nets, and Bait Nets. Use since 1920 on tennis nets.

SN 675,249. American Machine & Foundry Company, New York, N. Y. Filed Oct. 22, 1954.

## PINVISOR

For Decorative Panels and/or Masking Units Used With Bowling Pin Spotting Machines and/or Bowling Alleys. Use since May 14, 1953.

SN 675,531. Art Wire & Stamping Company, Newark, N. J. Filed Oct. 27, 1954.



Applicant claims ownership of the mark shown in canceled Reg. No. 425,737.

For Fishing Tackle Accessories—Namely, Artificial Fish Bait, Fish Lines, Swivels, Snaps, Connecting Links, Leaders, and Spinners. Use since July 1, 1907.



SN 676,453. L. G. Arpin Co., West Caldwell, N. J. Filed Nov. 12, 1954. SN 633,270. Pease, Anthony Equipment Co., Newtonville, Mass. Filed July 30, 1952.

# DIVAIR

For Underwater Breathing Equipment—Namely, a Breathing Regulator Adapted To Be Held in a Diver's Mouth and Attachable to a Source of Breathable Gas, and Parts Thereof. Use since June 7, 1954.

SN 676,469. Carnell Manufacturing Co. Inc., Brooklyn, N. Y. Filed Nov. 12, 1954.

# DRAW-o-matic

For Toy Pistol and Holster Sets. Use since Apr. 1, 1954.

SN 676,646. MacGregor Sport Products, Inc., Cincinnati, Ohio. Filed Nov. 15, 1954.

# THE MITY MITE

For Golf Clubs. Use since Nov. 3, 1954.

SN 676,823. Paul J. Miller, d. b. a. Miller Sport Spectacles, Rochester, N. Y. Filed Nov. 17, 1954.

# PERMA-T

For Golf Tees. Use since Oct. 23, 1954.

SN 683,631. The Shurtliff Manufacturing Company, Pocatello, Idaho. Filed Mar. 16, 1955.

# Jumping Jack

For Baby Jumper-Exerciser. Use since Nov. 15, 1944.

CLASS 23

SN 631,399. American Machine Works, Inc., Racine, Wis. Filed June 19, 1952.

# AMERICAN

For Wire Stitching Machines Not Including Shoe Repairing Machines. Use since Oct. 28, 1946.

# P-A

For Venturi-Type Gas Scrubbers for Cleaning and Washing Gases. Use since May 20, 1952.

SN 633,271. Pease, Anthony Equipment Co., Newtonville, Mass. Filed July 30, 1952. Sec. 2(f).

# PEASE-ANTHONY

For Cyclonic and Venturi-Type Gas Scrubbers for Cleaning and Washing Gases. Use since 1930.

SN 633,708. Bondwel, Inc., Oakland, Calif. Filed Aug. 11, 1952.

# BONDWEL

For Spraying and Blasting Equipment and Pumps for Said Spraying and Blasting Equipment—Namely, Flame Spray Guns, Paint Spray Guns, and Sand Blast Guns, and Parts Thereof. Use since on or about Mar. 17, 1949.

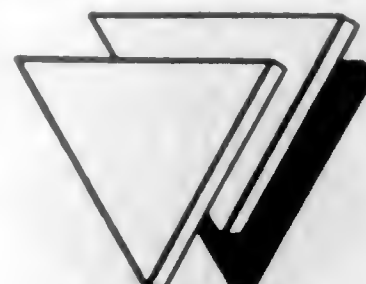
SN 635,579. The British Tap and Die Company Limited, Edmonton, London, England. Filed Sept. 22, 1952.



No claim is made to the word "Stronghold" apart from the mark shown. Applicant claims ownership of British Reg. No. 476,791, dated Jan. 17, 1927.

For Taps, Dies, Chasers, and Screwing Tackle for Cutting Screw Threads.

SN 635,580. The British Tap and Die Company Limited, Edmonton, London, England. Filed Sept. 22, 1952.



# TRIANGLE

Applicant claims ownership of British Reg. No. 552,749, dated July 20, 1934.

For Taps, Dies, Chasers, and Screwing Tackle for Cutting Screw Threads. Use since July 20, 1934.

SN 635,581. The British Tap and Die Company Limited, Edmonton, London, England. Filed Sept. 22, 1952.

# WHIRLWIND

Applicant claims ownership of British Reg. No. 476,792, dated Jan. 17, 1927.

For Taps, Dies, Chasers, and Screwing Tackle for Cutting Screw Threads.

SN 645,151. Innes Company, Bettendorf, Iowa. Filed Apr. 13, 1953. Sec. 2(f).

# Innes

For Farm Machinery—Namely, Shockers, Windrowers, Windrow Feeders, Pick-Ups, and Attachments for Tractors and Combines. Use since 1923 on shockers.

SN 648,869. Kreidler's Metall- u. Drahtwerke G. m. b. H., Stuttgart-Zuffenhausen, Germany. Filed June 16, 1953.



Applicant claims ownership of German Reg. No. 623,855, dated July 14, 1952.

For Internal Combustion Engines, Particularly Motor Cycle Engines.

SN 649,436. Ch. J. Neuman Limited, South Croydon, Surrey, England. Filed June 26, 1953.



The words "Tite-Seal" are disclaimed apart from the mark shown. Priority is claimed under Sec. 44(d). British applications filed Mar. 26, 1953; Reg. Nos. 716,165 and 716,166; and application filed Apr. 24, 1953, Reg. No. 717,155.

For Lubricating Pumps, Grease Guns, and Lubricators (Parts of Machines); and Parts Thereof; Lubricators (Not Being Parts of Machines) and Parts Thereof.

SN 650,496. Fortuna-Werke Spezialmaschinenfabrik Aktiengesellschaft, Stuttgart-Bad Cannstatt, Germany. Filed July 20, 1953.

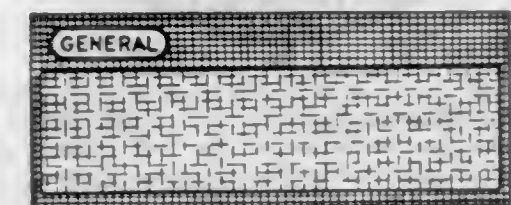
# SAS

Applicant claims ownership of German Reg. No. 205,240, dated Aug. 19, 1915; and U. S. Reg. No. 179,644 (expired).

For Machines and Apparatus for Working Leather and Other Soft Materials and for the Manufacturing of Shoes and

Boots—Namely, Heel Machines, Tapering Machines, Finishing Machines, Blocking Machines, Indenting Machines, Leveling Machines, Channelling Machines, Glazing Machines, Skiving Machines, Slitting Machines, Cutting Machines, and Splitting Machines, Turn-Over Machines, Pulling Machines, Lasting Machines, Boarding and Graining Machines, Machines for Taking Shoes Off the Last, Knives; Machine Tools for Working Metal, Wood and Stone; Machines and Apparatus for the Production and Treatment of Paper and Paper Articles—Namely, Printing Presses, Label Machines, Shrinking Machines, Folding Machines, Tacking Machines, Calendering Machines, Pasting Machines, Rolling Machines, Eyeletting Machines, Eyelet Presses, Plating Machines, Stamping Machines, and Labeling Machines, and Bell-Ringing Machines, Winches, Nailing Machines.

SN 655,053. General Hardware Mfg. Co., Inc., New York, N. Y. Filed Oct. 20, 1953.



The mark includes a yellow band between two black bands and the drawing is lined to indicate such colors. The yellow band is disclaimed apart from the mark. Applicant claims ownership of Reg. No. 518,284.

For Circle Cutters, Cornering Tools, Doweling Jigs, Drill Grinding Jigs, File and Tool Handles, Tube Flaring Tools, Hand Vises, Pin Vises, Machinist's Jacks, Utility Knives and Blades Thereof, Mortising Chisels and Bits, Plane Blade and Chisel Sharpeners, Automatic Center Punches, Drive Pin Punches, Self-Centering Punches, Reamers, Plier-Type Tools for Setting the Teeth of Saws, Saw Vises, Awls, Screw Drivers, Offset Screw Drivers, Jeweler's Screw Drivers, Ratchet Offset Screw Drivers, Scribers and Points Thereof, Wire Strippers, Tap Wrenches, Ratchet Tap Wrenches, Tubing Benders, Tubing Cutters, Tweezers for Tool Makers, Machinists and Factory Workers, Washer and Gasket Cutters, Parallel Clamps and Permanent Magnet Pick-Up Pencil Comprising a Permanent Magnet Carried at the End of a Pencil-Size Rod of Tube of Non-Ferrous Material. Use since 1950.

SN 660,187. Chicago Pump Company, Chicago, Ill. Filed Jan. 27, 1954.



Applicant claims exclusive right to the use of the words "Close-Coupled" as a part of its trademark, but not otherwise. For Pumps. Use since on or about May 4, 1953.

SN 661,814. Logan Co., Louisville, Ky. Filed Mar. 1, 1954.

# NEOPLASTIC

For Roller Type Conveyors. Use since Feb. 9, 1954.

SN 662,361. Hydraulic Service Company, Cheltenham, Pa. Filed Mar. 10, 1954.

# HYSECO

For Hydraulic Pumping Units and Hand Pumps, Hydraulic Cylinders, Accumulators, Control Valves, and Tube Fittings. Use since January 1949.



SN 663,326. Walker-Neer Machine Company, Wichita Falls, Tex. Filed Mar. 25, 1954.



The words "Wichita Falls, Texas," "Spudders," "Walker-Neer" and the representation of the well digging machinery are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 583,748.

For Spudders, Clean-Out Machines, Rotary Rigs, Winches, and Tool Holsts.

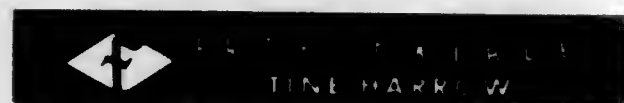
Use since Oct. 15, 1951.

SN 663,496. Kenneth G. Niblack, Buffalo, N. Y. Filed Mar. 29, 1954.

**Colonel Carver**

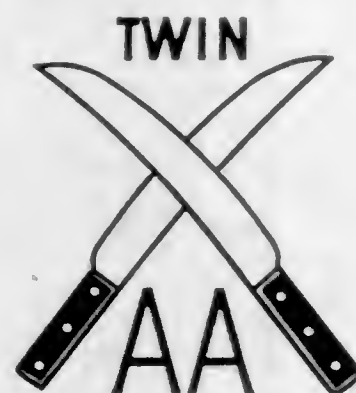
For Combination Knife, Saw, and Fork.  
Use since September 1953.

SN 664,145. Fuerst Brothers (New York) Incorporated, New York, N. Y. Filed Apr. 8, 1954.



Applicant makes no claim to the words "First," "Tine," "Flexible" or "Harrow," apart from the mark as shown.  
For Tine Harrows.  
Use since Mar. 12, 1954.

SN 665,658. Twin A A Cutlery Company, Abilene, Kans. Filed May 3, 1954.



No claim is made to the representation of the knives apart from the mark as shown.

For Cutlery—Namely, Spatulas, Cleavers, Knives, Forks, Hones, Steels, and Sharpening Tools Therefor.  
Use since Feb. 7, 1954.

SN 666,472. Louis A. Hunziker, d. b. a. Lou Hunziker Specialty Motors, Kelso, Wash. Filed May 17, 1954.



The drawing is lined for red but no claim is made to color.  
For Machines for Reconditioning Guide Bars for Use on Endless Chain Saws by Replacement and Shaping of Worn Parts.

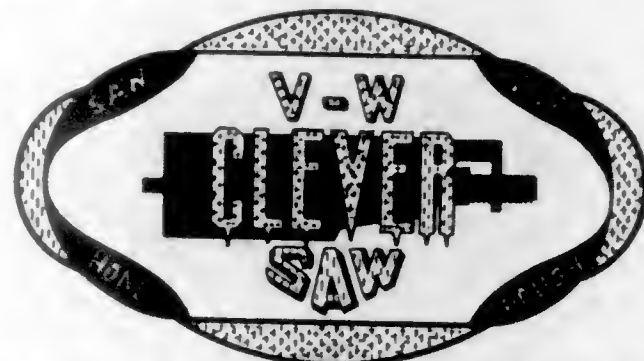
Use since Nov. 13, 1952.

SN 667,110. Robert G. Evans Co., Kansas City, Mo. Filed May 26, 1954.



The drawing is lined for gold.  
For Abrasive Blades, Safety Blades, and Diamond Blades for Masonry Saws.  
Use since June 23, 1952.

SN 667,275. Henry F. Vaché, d. b. a. V. W. Specialists, Upper Darby, Pa. Filed May 27, 1954.



The drawing is lined for yellow. The words "Saw," "Hone," "File," and "Polish" are disclaimed apart from the mark shown.

For Power Converters for Converting Rotary Motion Into Reciprocatory Motion.

Use since Apr. 1, 1948.

SN 667,691. Henry N. Goertz, d. b. a. Bail-Master Company, Hillsboro, Kans. Filed June 4, 1954.



For Suction-Type Mechanical Bailing Device for Motor Boats.

Use since May 12, 1954.

SN 668,496. Hans G. Zelinka, d. b. a. Vindebona Importing Co., New York, N. Y. Filed June 18, 1954.

**VIC**

For Pliers and Pincers.  
Use since Apr. 18, 1950.

SN 672,686. Fred Rienecker, Jr., d. b. a. Zyton Company, San Francisco, Calif. Filed Sept. 2, 1954.



For Portable Sandblasters and Parts Thereof.  
Use since Jan. 28, 1954.

SN 673,044. National Silver Company, New York, N. Y. Filed Sept. 10, 1954.

**BLACK MODERNE**

For Cutlery and Kitchen Cutlery Made of Stainless Steel With Composition or Wood Handles—Namely, Boning Knives, Slicers, Ham Slicers, Spatulas, Pot Forks, Carving Forks, Vegetable Lifters, and Steak Knives.  
Use since June 7, 1954.

SN 674,345. Ohio Tool & Engineering Company, Springfield, Ohio. Filed Oct. 5, 1954.

**ELECTRIC EEL**

For Sewer and Drain Cleaning Apparatus.  
Use since Jan. 15, 1939.

SN 674,371. Camillus Cutlery Company, Camillus, N. Y. Filed Oct. 6, 1954. Sec. 2(f).

**KENT**

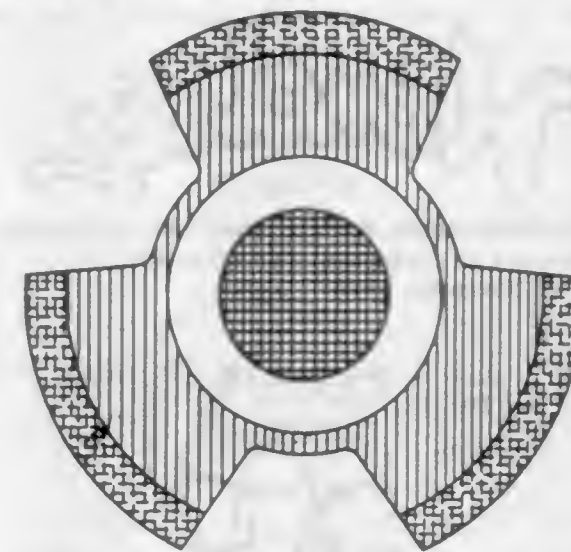
For Hunting Knives, Kitchen Knives, Butcher Knives, Carving Knives, Utility Knives, and Pocket Knives.  
Use since Apr. 29, 1931.

SN 677,579. A. Kimball Company, New York, N. Y. Filed Dec. 1, 1954.

**MIDGET**

For Machines for Marking Price Tags, Tickets, and Labels.  
Use since January 1930.

SN 677,690. The Aetna-Standard Engineering Company, Pittsburgh, Pa. Filed Dec. 3, 1954.



The trademark consists of a bull's-eye on the ends of the wobblers of the rolls. The drawing is lined for black, red, and yellow.

For Metal Rolls for Rolling Mills.  
Use since January 1954.

SN 677,927. Wilhelm Baier K. G. Webasto-Werk, Stockdorf-Munich, Germany. Filed Dec. 8, 1954.

**Webasto**

For Pumps.  
Use since March 1951.

SN 678,004. Triangle Steel Rule Die Co., Chicago, Ill. Filed Dec. 8, 1954.

**"Chaseless"**

For Steel Rule Dies.  
Use since on or about Sept. 1, 1953.

SN 678,022. Empire Crafts Corporation, Newark, N. Y. Filed Dec. 9, 1954.

**WINDWARD**

For Stainless Steel Tableware.  
Use since Nov. 5, 1954.

SN 678,023. Empire Crafts Corporation, Newark, N. Y. Filed Dec. 9, 1954.

**BROOKLEA**

For Stainless Steel Tableware.  
Use since Nov. 5, 1954.

SN 678,032. Home Decorators, Incorporated, Newark, N. Y. Filed Dec. 9, 1954.

**SEA BREEZE**

For Stainless Steel Tableware.  
Use since Oct. 8, 1954.

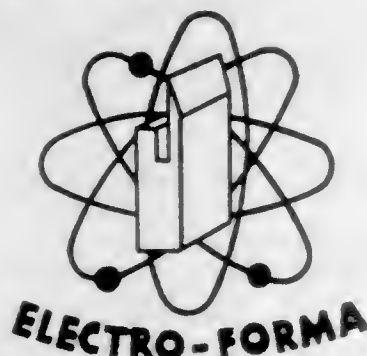


SN 678,225. Jackson & Church Company, Saginaw, Mich. Filed Dec. 13, 1954. Sec. 2(f).

**Hendry**

For Plastic Working Machine, Particularly Injection Molding Machines, and Component Parts Thereof.  
Use since November 1949.

SN 678,301. A. & S. Steel Rule Die Corporation, New York, N. Y. Filed Dec. 14, 1954.



For Dies and Jigs Used in Connection With Heat Sealing of Plastic Materials.  
Use since September 1954.

SN 678,352. The Union Fork and Hoe Company, Columbus, Ohio. Filed Dec. 14, 1954.

**Idiot Stick**

For Hand-Operated Farm, Lawn, and Garden Tools—Namely, Cultivators, Vegetation Cutters, Lawn and Turf Edgers, Forks, Hoes, Rakes, Lawn Brooms and Combs, Shovels, Spades, Trowels, Weeders, and Grass Whips.  
Use since Oct. 19, 1954.

SN 678,405. Little Beaver Industries, Inc., Willoughby, Ohio. Filed Dec. 15, 1954.



For Shop Hammers.  
Use since on or about July 15, 1954.

SN 678,590. Bramley Machinery Corp., Edgewater, N. J. Filed Dec. 20, 1954. Sec. 2(f).

**BEKEN**

For Mixing, Dispersing, Kneading, Wetting, Compounding, and Blending Machinery, and Parts Thereof.  
Use since July 25, 1947.

SN 678,591. Bramley Machinery Corp., Edgewater, N. J. Filed Dec. 20, 1954. Sec. 2(f).

**BRAMLEY**

For Crushing, Rubbing, Grinding, and Comminuting Mills, and Parts Thereof.  
Use since June 1, 1926.

SN 678,636. International Business Machines Corporation, New York, N. Y. Filed Dec. 20, 1954.

**DIRECCION**

For Typewriting Machines.  
Use since Sept. 30, 1954.

SN 678,677. The Shredmaster Corporation, Brooklyn, N. Y. Filed Dec. 20, 1954.

**Bantam 10**

For Paper Shredding Machines.  
Use since Dec. 15, 1953.

SN 678,962. Colorado Iron Works Company, Denver, Colo. Filed Dec. 27, 1954. Sec. 2(f).

**AKINS**

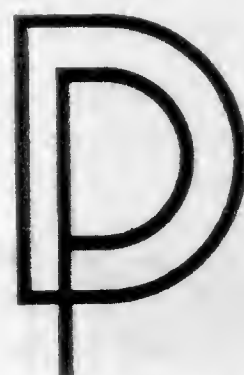
For Spiral Type, Mechanical Classifiers.  
Use since on or about Dec. 24, 1908.

SN 679,035. Commercial Controls Corporation, Rochester, N. Y. Filed Dec. 28, 1954.

**TICKETOGRAPH**

Applicant claims ownership of Reg. No. 367,389.  
For Coupon or Ticket Printing Machines.  
Use since on or before Nov. 1, 1921.

SN 679,037. Dayton Perforators, Inc., Dayton, Ohio. Filed Dec. 28, 1954.



For Punch Assemblies and Parts Thereof, Specifically Punches, Retainers, and Die Inserts.  
Use since Feb. 6, 1954, on punches.

SN 679,052. The Midland Company, South Milwaukee, Wis. Filed Dec. 28, 1954.



The words "Power" and "For Yard and Garden" are disclaimed apart from the mark.  
For Tractors.  
Use since Mar. 3, 1954.

SN 679,147. Bruce Dempster, Denver, Colo. Filed Dec. 30, 1954.



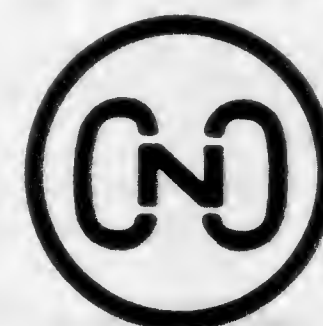
For Gasoline and Air Mixer for Internal Combustion Engines.  
Use since Dec. 7, 1954.

SN 679,192. Standard Commodities Import and Export Corp., Los Angeles, Calif. Filed Dec. 30, 1954.

**SCOWARE**

For Axes, Chisels, Crowbars, Hammers, Nippers, Pliers, Screw Drivers, Tool Bits, and Wrenches.  
Use since Aug. 20, 1954.

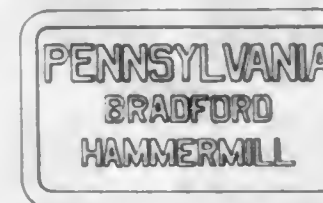
SN 679,208. C. Conradty, Nurnberg, Germany. Filed Dec. 31, 1954.



Applicant claims ownership of German Reg. No. 649,852, dated Dec. 11, 1953.

For Carbon and Graphite Bearings for Liquid Meters, Pumps, and Textile Machinery.

SN 679,236. Pennsylvania Crusher Company, Philadelphia, Pa. Filed Dec. 31, 1954.



No claim is made to the word "Hammermill" or to the outline representation of the name plate apart from the mark.

Applicant claims ownership of Reg. No. 565,562 and No. 163,665, expired.

For Crushing Machinery Including Crushers and Hammermills Having a Perforated Rotatable Drum With Rotatable Hammers Inside for Comminuting Coal, Limestone, Cement, Gypsum, and the Like.  
Use since 1905.

## CLASS 24

SN 669,948. Visioneering Company, Inc., Cleveland, Ohio. Filed July 13, 1954.



Applicant claims ownership of Reg. No. 430,760.  
For Automatic Washing Machines and Ironers.  
Use since on or about Jan. 1, 1942.

SN 677,680. Shields Engineering & Mfg. Co., Cleveland, Ohio. Filed Dec. 2, 1954.

**SOLVATROL**

For Dry Cleaning Machines.  
Use since Oct. 1, 1954.

SN 678,322. Geuder, Paeschke & Frey Co., Milwaukee, Wis. Dec. 14, 1954.

**Cream City**

Applicant claims ownership of Reg. No. 103,059.  
For Ironing Tables and Pads and Covers Therefor.  
Use since May 19, 1954, on ironing tables.

SN 678,704. Bock Laundry Machine Co., Toledo, Ohio. Filed Dec. 21, 1954. Sec. 2(f).

**BOCK**

For Laundry Machines and Particularly Centrifugal Extractors.  
Use since Aug. 2, 1923.

SN 680,299. Pantex Manufacturing Corporation, Central Falls, R. I. Filed Jan. 21, 1955.

**Pantex Perk-o-matic**

Applicant claims ownership of Reg. Nos. 232,210, 435,892, and others.  
For Dry Cleaning Machines.  
Use since Aug. 3, 1954.



## CLASS 25

SN 676,944. Jade M. Donner, d. b. a. Donner Manufacturing Company, North Hollywood, Calif. Filed Nov. 19, 1954.

**POCKET DOR**

For Locks and Door Locks for Sliding Doors.  
Use since Aug. 5, 1953.

SN 678,019. Alfred B. Castle, d. b. a. Castle Lock Company, Brookmont, Md. Filed Dec. 9, 1954.

**CASTLE LOCK**

For Locks.  
Use since May 16, 1949.

SN 679,191. Standard Commodities Import and Export Corp., Los Angeles, Calif. Filed Dec. 30, 1954.

**SCOWARE**

For Latches, Locks, and Padlocks.  
Use since Aug. 20, 1954.

## CLASS 26

SN 635,507. Rudolf Hell, d. b. a. Firma Dr. Ing. Rudolf Hell, Kiel-Dietrichsdorf, Germany. Filed Sept. 15, 1952.

*Klischograph*

Applicant claims ownership of German Reg. No. 643,885, dated Sept. 9, 1953, and German Reg. No. 643,478, dated Sept. 2, 1953.

For Photo-Electric Engraving Machines for Producing Printing Plates in Accordance With the Point System, and Parts Thereof.

SN 639,964. Synchromatic Products Company, Bayonne, N. J. Filed Dec. 23, 1952.

*Synchroslide*

For Automatic Slide Projectors and Apparatus for Automatically Controlling Slide Projectors.  
Use since Apr. 25, 1952.

SN 654,387. Economics Laboratory, Inc., St. Paul, Minn. Filed Oct. 8, 1953.

**SOLUTION-IZER**

For Apparatus for Automatically Dissolving Detergents and Controlling the Dispensing of Detergents Into the Wash Tanks of Washing Machines.  
Use since Sept. 18, 1953.

SN 657,010. Max Braun, Frankfort am Main, Germany. Filed Nov. 27, 1953.

**BRAUN**  
*Herby*

For Photographic Flash Equipment Including High Speed Flash Apparatus.  
Use since September 1952.

SN 657,021. Eastman Kodak Company, Flemington, N. J. Filed Nov. 27, 1953.

**Autoscreen**

For Sensitized Photographic Film.  
Use since Nov. 19, 1953.

SN 658,561. Carl Zeiss, Oberkochen, Wurttemberg, Germany. Filed Dec. 24, 1953.

**PUNKTAL**

Applicant claims ownership of German Reg. No. 164,621, dated Sept. 28, 1912.

For Lenses, Eye-Glasses, Magnifying Glasses, Reading Glasses, Spectacles, Spectacle Glasses, Magnifying Lens Spectacles; Scientific Instruments—Namely, Microscopes, Microscope Objectives, Microscope Condensers, Microscope Lamps, Refractometers, Photometers, Spectrometers, Colorimeters, Ophthalmometers, Slit Lamps, Perimeters, Photographic Cameras, Projectors and Enlargers, Air Photographic Apparatus, Apparatus for Plotting From Air-Photographs, View Finders for Surgical Purposes.

SN 665,002. Ames Company, Inc., Elkhart, Ind. Filed Apr. 22, 1954.

**SANGUTEST**

For Kit for Testing for Blood Sugar, Consisting of Reagent Tablets, Filter Cones, Dropper, Test Tubes, Test Tube Rack, and Color Scale.  
Use since Apr. 1, 1954.

SN 670,127. A. O. Smith Corporation, Milwaukee, Wis. Filed July 16, 1954.



Applicant claims ownership of Reg. Nos. 394,190, 421,119, and 424,432.

For Electrical Transmitters, Receivers, and Control Switches for Use With Counting Devices.  
Use since August 1953.

SN 673,853. North American Instruments, Inc., Altadena, Calif. Filed Sept. 27, 1954.

**NORTHAM**

For Frequency Meters, Transducers for the Measurement of Pressure, Force, and Motion, Anemometers, and Wind Velocity Computers.  
Use since Apr. 6, 1953, on transducers.

SN 676,633. International Equipment Company, -Boston, Mass. Filed Nov. 15, 1954.

**INTERNATIONAL**

Applicant claims ownership of the mark disclosed in Reg. No. 294,216 (expired).

For Centrifuges, Centrifugal Separators, Centrifuge Accessories and Equipment, Bottle Shaking Machines and Microtomes, Especially for Laboratory Use.  
Use since the summer of 1901.

SN 678,890. Taller & Cooper, Inc., Brooklyn, N. Y. Filed Dec. 23, 1954.

**Toll-O-Matic**

For Automatic Toll Collection Equipment, and Parts Thereof.  
Use since Nov. 5, 1954.

## CLASS 27

SN 653,795. Spini Manufacturing Jeweler, New York, N. Y. Filed Aug. 21, 1953.



For Watch Cases.  
Use since Jan. 2, 1952.

SN 659,665. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Jan. 18, 1954.

**TEMP'N TIME**

For Timers Comprising Essentially Clock Mechanisms.  
Use since Dec. 15, 1953.

*White-a-loy*

For Watch Parts—Namely, Springs.  
Use since Mar. 1, 1954.

SN 663,432. Calame et Cie, Le Locle, Switzerland. Filed Mar. 29, 1954.

**ZODIAC AUTOGRAPHIC**

The word "Autographic" is disclaimed apart from the trademark as shown.

For Watches.  
Use since February 1949.

SN 664,805. Societe Anonyme de Commentry-Fourchambault et Decazeville, Paris, France. Filed Apr. 19, 1954.

**PHYNOX**

Priority under Sec. 44(d). French application filed Mar. 11, 1954, Reg. No. 31,001, dated Mar. 11, 1954.  
For Springs for Time Pieces.

SN 667,325. Norman M. Morris Corporation, New York, N. Y. Filed May 28, 1954.

*Sapphette*

For Watches and Clocks.  
Use since Apr. 19, 1954.

SN 670,613. Popper Watch Co. Inc., New York, N. Y. Filed July 26, 1954.

**BELFONT**

For Watches.  
Use since Jan. 1, 1954.

SN 673,120. David A. Ott, Gresham, Ore. Filed Sept. 13, 1954.

**LA MER**

For Watches.  
Use since Sept. 3, 1954.

SN 678,481. Shubkin-Retchin, Inc., Charlotte, N. C. Filed Dec. 16, 1954.

**ZEGA**

For Watches.  
Use since Dec. 3, 1954.



SN 680,347. Alanjack Inc., New York, N. Y. Filed Jan. 24, 1955.

*Desire*

For Watches.  
Use since Nov. 1, 1953.

SN 680,589. Degumols & Co., S. A., Neuchatel, Switzerland.  
Filed Jan. 27, 1955.

**AVIA**

Applicant claims ownership of Swiss Reg. No. 89,825, dated Jan. 30, 1937.

For Watches, Watch Dials and Parts, and Watch Cases.

**CLASS 28**

SN 674,665. Coro, Inc., New York, N. Y. Filed Oct. 12, 1954. Sec. 2(f).

*Smart Set*

Applicant claims ownership of Reg. No. 511,528.

For Necklaces, Bracelets, Rings, Earrings, Jewelry Clips, Brooches, Locketts, and the Following Goods Made in Whole or in Part of Precious Metal or Plated With the Same, Beads, Pins, Hat Ornaments, Jewelry Initials, Pearl Necklaces, Pearl Bracelets, Pearl Earrings, and All Pearls for Personal Wear.  
Use since January 1935.

SN 676,284. Martha Weathered Shops, Inc., Chicago, Ill.  
Filed Nov. 8, 1954.

*Martha Weathered*

For Ladies' Jewelry—Namely, Rings, Bracelets, Earrings, Brooches, Necklaces, Hair Ornaments, and Cuff Links Made Wholly or Partly of Precious Metals.  
Use since March 1921.

SN 677,986. Reed and Barton Corporation, Taunton, Mass.  
Filed Dec. 8, 1954.

**SILVER BLOSSOMS**

For Silverware—Namely, Silver Plated Flatware.  
Use since Nov. 29, 1954.

SN 678,024. Empire Crafts Corporation, Newark, N. Y.  
Filed Dec. 9, 1954.

**WIND SONG**

For Silver-Plated Flatware and Hollowware.  
Use since Nov. 10, 1954.

SN 678,619. A. Edward Fisher, Inc., New York, N. Y. Filed Dec. 20, 1954.

**MAGNIFICENT**

For Diamond Finger Rings.  
Use since June 1954.

SN 678,627. Goodman and Company, Indianapolis, Ind.  
Filed Dec. 20, 1954.

**MAGNI-TOP**

Applicant claims ownership of Reg. No. 528,372.  
For Finger Rings, Brooches, Scarf Pins, and Earrings,  
Made in Whole or in Part of Precious Metals.  
Use since Sept. 9, 1954.

SN 679,014. Spedel Corporation, Providence, R. I. Filed Dec. 27, 1954.

*IN THE GROOVE*

For Watch Bracelets (Not Including Watches).  
Use since Dec. 9, 1954.

SN 679,417. Spedel Corporation, Providence, R. I. Filed Jan. 4, 1955.

*RIPPLING WATERS*

For Watch Bracelets (Not Including Watches).  
Use since Dec. 23, 1954.

SN 679,979. Leslie Claymont, d. b. a. Claymont Company, Jackson Heights, N. Y. Filed Jan. 17, 1955.

*exotica*

For Pearls and Jewelry—Viz., Necklaces, Earrings, Bracelets, Pins, Brooches, Studs, Clips, Cuff Links, and Pendants.  
Use since 1937.

SN 680,459. Flex-Let Corporation, East Providence, R. I. Filed Jan. 25, 1955.

**Princess Peg**

For Expansion Type Watch Bracelets.  
Use since Jan. 3, 1955.

SN 680,462. Flex-Let Corporation, East Providence, R. I. Filed Jan. 25, 1955.

**Golden Strand**

For Expansion Type Watch Bracelets.  
Use since Jan. 3, 1955.

SN 680,463. Flex-Let Corporation, East Providence, R. I. Filed Jan. 25, 1955.

**Princess Pam**

For Expansion Type Watch Bracelets.  
Use since Jan. 3, 1955.

SN 680,464. Flex-Let Corporation, East Providence, R. I. Filed Jan. 25, 1955.

**Princess Pat**

For Expansion Type Watch Bracelets.  
Use since Jan. 3, 1955.

SN 680,527. Gemex Company, Union, N. J. Filed Jan. 26, 1955.

**ST.REGIS**

For Bracelets and Watch Bracelets and Watch Straps.  
Use since Nov. 10, 1952.

**CLASS 29**

SN 652,683. Stanley Home Products, Inc., Westfield, Mass. Filed Sept. 2, 1953. Sec. 2(f).

*Quality plus*

Applicant claims ownership of Reg. No. 367,912.  
For Brushes for Personal and Household Use, Jewelry Brushes, Brooms, and Floor and Dish Mops.  
Use since Mar. 15, 1938.

SN 676,912. Red & White Corporation, Chicago, Ill. Filed Nov. 18, 1954.



For Brooms.  
Use since Nov. 5, 1954.

SN 677,251. Stanley Home Products, Inc., Westfield, Mass. Filed Nov. 24, 1954.

**CADET**

For Hair Brushes.  
Use since Nov. 5, 1954.

SN 677,534. Ettore Steccone, d. b. a. Steccone Products Co., Oakland, Calif. Filed Nov. 30, 1954.

*ETTORE*

For Squeegees.  
Use since October 1952.

**CLASS 30**

SN 660,144. Lipper & Mann, Inc., New York, N. Y. Filed Jan. 26, 1954.

**BLUE FJORD**

For Chinaware Consisting of Tea Cups and Saucers, Coffee Cups and Saucers, After-Dinner Coffee Cups and Saucers, Dinner Plates, Salad Plates, Bread and Butter Plates, Platters, Vegetable Dishes, Soup Tureens With Trays, Teapot, Sugar and Creamer, Fruit Saucers, Gravy Boat, Covered Soup Ramekins, and Soup Plates.  
Use since Dec. 15, 1953.

SN 664,614. Krister Porzellan-Manufaktur Aktiengesellschaft, Landstuhl, Rheinland, Germany. Filed Apr. 15, 1954.

**KPM**  
**Krister**  
**Germany**

The surname "Krister" and the geographical term "Germany" are disclaimed apart from the mark as shown. Applicant claims ownership of German Reg. No. 646,506, dated Oct. 22, 1953.

For Articles Made of Porcelain—Namely, Dinner Sets, Coffee Sets, Tea Sets, Mokka Sets, Chocolate Sets, Bowls and Vases; Articles Made of Glazed Earthenware—Namely, Dinner Sets, Coffee Sets, Tea Sets, Mokka Sets, Chocolate Sets, Bowls and Vases; and Glassware—Namely, Wine Glasses, Champagne Glasses, Liquor Glasses, Milk and Sugar Sets, Vases, Bowls, and Basins.

SN 664,632. Swedish-Manor Co., Inc., New York, N. Y. Filed Apr. 15, 1954.

**SWEDISH-MANOR CO.**  
**STOCKHOLM**  
**SWEDEN**

Applicant disclaims the words "Stockholm Sweden." For Cups, Saucers, Plates, Service Plates, Platters, Creamers, Bowls, Decorative Plaque Type Plates, Made of Kaolin, China, or Porcelain.  
Use since Jan. 22, 1954.



SN 671,603. Shenango Pottery Company, New Castle, Pa. Filed Aug. 12, 1954.

## BALTRANITE

For Clay Refractory Articles Such as Saggers, Hillers, Cranks, Racks, Tiles, Setters, Glast Compacts, Burner Blocks, Crucibles, Slabs and Posts, and for China Dinnerware. Use since Apr. 1, 1954.

SN 680,555. Stetson China Co., Inc., Lincoln, Ill. Filed Jan. 26, 1955.

## LA PLUME

For China Dinnerware. Use since Sept. 24, 1954.

SN 682,020. Vernon Kilns, Los Angeles, Calif. Filed Feb. 21, 1955.

## TICKLED PINK

For Dinnerware and Tableware Formed of Semi-Porcelain. Use since Jan. 5, 1955.

### CLASS 31

SN 660,019. Harborlite Corp., Chula Vista, Calif. Filed Jan. 25, 1954.

## GLACELITE

For Filter-Aids. Use since July 1, 1953.

SN 669,968. Cochrane Corporation, Philadelphia, Pa. Filed July 14, 1954.

## ZEO-FLO

For Water Softener. Use since June 11, 1954.

SN 677,287. American Motors Corporation, Detroit, Mich. Filed Nov. 26, 1954.

## FOODARAMA

For Refrigerators. Use since Oct. 19, 1954.

### CLASS 32

SN 651,828. Charles J. Hoffman, York, Pa. Filed Aug. 14, 1953.

## Air Lite

For Finished Sets of Metallic Shelving Used Particularly for Storing Food Products, Provided With Openings Therein for the Passage of Light and Air and To Permit Any Settling Dust To Sift Through the Shelving to the Floor. Use since Aug. 5, 1953.

SN 662,183. Atlas Manufacturing Company, St. Paul, Minn. Filed Mar. 8, 1954.

## STOW-AWAY

For Cabinets for the Storage of Household Appliances, Clothing, and Sporting Goods. Use since Sept. 15, 1947.

SN 674,342. Master Manufacturing Company, Lorain, Ohio. Filed Oct. 5, 1954.

## BACK-SAVER

For Shelves With Hooks for Holding Containers. Use since Aug. 19, 1954.

SN 677,306. Dreamytime Corporation, Cohoes, N. Y. Filed Nov. 26, 1954.

## Dreamytime

For Pillows. Use since Jan. 3, 1952.

### CLASS 34

SN 630,526. Chambers Corporation, Shelbyville, Ind. Filed May 31, 1952. Sec. 2(f).

## COOKS WITH THE GAS TURNED OFF

Applicant claims ownership of Reg. No. 523,269. For Gas Ranges. Use since on or about Mar. 1, 1923.

SN 662,963. Sunbeam Corporation, Chicago, Ill. Filed Mar. 19, 1954.

## Sunbeam

Applicant claims ownership of Reg. No. 540,165. For Portable Room Air Conditioners. Use since Mar. 3, 1954.

SN 663,556. G. W. Berkhelmer Co., Inc., Gary, Ind. Filed Mar. 30, 1954.

## BERCOR

For Furnaces, Boilers, and Water Heaters. Use since April 1946.

SN 664,518. Feastmore Products Company, Denver, Colo. Filed Apr. 14, 1954.



For Charcoal Broilers. Use since Dec. 14, 1953.

SN 667,988. Safety Fuel & Chemical Corporation, South Meriden, Conn. Filed June 9, 1954.



For Warning Road Flares for Use by Disabled Vehicles, Etc. Use since May 15, 1954.

SN 667,990. Safety Fuel & Chemical Corporation, South Meriden, Conn. Filed June 9, 1954.

## SF

For Warning Road Flares for Use by Disabled Vehicles, Etc. Use since Sept. 25, 1940.

SN 671,048. The Miller Company, Meriden, Conn. Filed Aug. 3, 1954.

## SUPERMARKETER

For Illumination Equipment—Namely, Glass, Plastic, Metal, and Combinations of Glass and Metal, and Plastic and Metal, Globes, Reflectors, Refractors, and Fixtures. Use since May 19, 1954.

SN 677,112. The Vendo Company, Kansas City, Mo. Filed Nov. 22, 1954.

## Vendo

Applicant claims ownership of Reg. Nos. 384,527, 406,001, and 433,122. For Air Conditioners. Use since Mar. 15, 1954.



## MR. CONTROLS

Applicant claims ownership of Reg. No. 592,990. For Main and Pilot Burner Gas Valves and Pilot Burners. Use since Aug. 6, 1953.

SN 677,737. Research Products Corporation, Madison, Wis. Filed Dec. 3, 1954.

## Aprilaire

For Apparatus for Humidifying Ventilating Air. Use since Nov. 16, 1954.

### CLASS 35

SN 666,174. Connare Manufacturing Corporation, Manchester, N. H. Filed May 12, 1954.

## SAFTI-KING

For Re-Capped Tires. Use since Apr. 15, 1954.

SN 669,209. Resistoflex Corporation, Belleville, N. J. Filed June 30, 1954.

## FLUOROFLEX

Applicant claims ownership of Reg. No. 555,678. For Hose, Hose Assemblies, and Back-Up Rings for Use in O-Ring Seals. Use since on or about Jan. 9, 1953, as to back-up rings.

SN 678,353. United States Rubber Company, New York, N. Y. Filed Dec. 14, 1954. Sec. 2(f) as to "U. S."

## U. S. ROYAL FLYWEIGHT

Applicant claims ownership of Reg. Nos. 551,027 and 554,247. For Pneumatic Tires. Use since Dec. 28, 1949.



SN 678,628. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Dec. 20, 1954. Sec. 2(f).  
 SN 673,683. Radio Corporation of America, New York, N. Y. Filed Sept. 23, 1954.

## ROAD LUG

Applicant claims ownership of Reg. No. 419,433.  
 For Tires Composed Wholly or Principally of Rubber.  
 Use since Dec. 29, 1944.

SN 682,054. Pacific Tire & Rubber Co., Oakland, Calif. Filed Feb. 21, 1955.

## EL CAMINO

For Pneumatic Tires Composed of Rubber, Either Natural or Synthetic, Tire Tread Capping Material Composed of Rubber, Either Natural or Synthetic, and Tubes for Pneumatic Tires Composed of Rubber, Either Natural or Synthetic.  
 Use since Sept. 3, 1954.

SN 684,005. American Brake Shoe Company, New York, N. Y. Filed Mar. 23, 1955.

## REDIPAK

For Lubricating Pads for Use in Journal Boxes of Railway Equipment.  
 Use since Feb. 25, 1955.

SN 684,969. Richmond Rubber Company, Inc., Richmond, Va. Filed Apr. 5, 1955. Sec. 2(f) as to "Richmond."

## RICHMOND TUFF-TRAC

Applicant claims ownership of Reg. Nos. 406,507, 585,754, and others.  
 For Vehicle Tires.  
 Use since Feb. 21, 1955; and since 1937 as to "Richmond."

SN 685,102. The Kelly-Springfield Tire Company, Cumberland, Md. Filed Apr. 8, 1955.

## ROADSTER

For Tires.  
 Use since Mar. 15, 1955.

### CLASS 36

SN 648,501. Joseph Rogers, Jr. & Son, Inc., Farmingdale, N. J., now by change of name Joseph Rogers, Inc. Filed June 9, 1953.

*Joe. Rogers Jr.*  
**UNION BRAND**

The phrase "Union Brand" is disclaimed apart from the present trademark as shown. Applicant claims ownership of the trademark shown in expired Reg. No. 280,318.  
 For Banjo and Drum Heads and Drums.  
 Use since on or about Jan. 2, 1953.



For Grooved Phonograph Records.  
 Use since Aug. 13, 1954.

### CLASS 37

SN 649,029. The Sorg Paper Company, Middletown, Ohio. Filed June 18, 1953.

## KAY-PEES

For Paper Products in the Nature of Wiping Tissues, General Purpose Towels, Dental Bibs, and Table and Tray Covers for Medical and Dental Uses.  
 Use since Apr. 11, 1951, for wiping tissues.

SN 649,491. Dohrmann and Bishop, San Mateo, Calif. Filed June 29, 1953.

## Tip-Outs!

For Pre-Assembled Carbon Interleaved Forms.  
 Use since May 15, 1953.

SN 657,888. Cory Corporation, Chicago, Ill. Filed Dec. 14, 1953.

*Autopoint*

Applicant claims ownership of Reg. Nos. 125,149, 242,098, and 420,387.  
 For Mechanical Pencils, Erasers, Lead Refill Packages, Ball Point Pens, Ball Point Pen Desk Sets, Memorandum Cases, Telephone Indexes, and Desk Calendars.  
 Use since on or about July 15, 1918, on mechanical pencils.

SN 663,046. A. C. Nielsen Company, Chicago, Ill. Filed Mar. 22, 1954.

## AUDILOG

For Diary in Which Entries Are Made of Information Pertinent to the Listening Habits of Wave Signal Receiver Users.  
 Use since Jan. 15, 1954.

SN 668,386. Havilah S. Hawkins, Sedgwick, Maine. Filed June 17, 1954.

## COURSER

For Lined Plastic Sheet for Use in Connection With Navigation Maps.  
 Use since April 1946.

SN 678,486. Thomson Paper Mills, Inc., New York, N. Y. Filed Dec. 16, 1954.

## SOFT TOUCH

For Facial Cleansing Tissues.  
 Use since Nov. 10, 1953.

SN 678,639. Kimberly-Clark Corporation, Neenah, Wis. Filed Dec. 20, 1954.



For Wallpaper.  
 Use since Oct. 1, 1954.

SN 685,067. Norman Harrower, d. b. a. Linton Brothers & Company, Fitchburg, Mass. Filed Apr. 22, 1955.

## ROLLSTONE

Applicant claims ownership of the trademark shown in Reg. No. 317,243.  
 For Bristol Board.  
 Use since Jan. 1, 1925.

SN 685,069. Norman Harrower, d. b. a. Linton Brothers & Company, Fitchburg, Mass. Filed Apr. 22, 1955.

## LINE-TONE

Applicant claims ownership of the trademark shown in Reg. No. 318,541.  
 For Bristol Board and Paper Used as Companion Sheets to Bristol Boards.  
 Use since Jan. 1, 1930.

SN 685,070. Norman Harrower, d. b. a. Linton Brothers & Company, Fitchburg, Mass. Filed Apr. 22, 1955.

## QUEEN

Applicant claims ownership of the trademark shown in Reg. No. 318,542.  
 For Bristol Board and Paper Used as Companion Sheets to Bristol Boards.  
 Use since Jan. 1, 1910.  
 TM 696 O. G.—3

### CLASS 38

SN 663,226. Telecourses, Incorporated, Richmond, Va. Filed Mar. 24, 1954.



For Periodically Issued Publications—Namely, Courses of Instruction Distributed Periodically as a Series of Lessons, and Lessons in Rapid Writing as by Longhand Transcriptions of Words in Abbreviated Form and Rapid Shorthand Symbolic Writing.  
 Use since Jan. 22, 1954.

SN 663,229. Telecourses, Incorporated, Richmond, Va. Filed Mar. 24, 1954.

## TELECOURSES

For Periodically Issued Publications—Namely, Courses of Instruction Distributed Periodically as a Series of Lessons, and Lessons in Rapid Writing as by Longhand Transcriptions of Words in Abbreviated Form and Rapid Shorthand Symbolic Writing.  
 Use since Jan. 22, 1954.

SN 676,287. Western Family, Inc., Los Angeles, Calif. Filed Nov. 8, 1954.

*Western Family*

Applicant claims ownership of Reg. No. 509,817.  
 For Monthly Periodical.  
 Use since June 12, 1941.

SN 676,917. Stanmor Publications, Inc., New York, N. Y. Filed Nov. 18, 1954.



For Printed Periodical.  
 Use since Mar. 15, 1952.

SN 679,771. Good Comics, Inc., New York, N. Y. Filed Jan. 12, 1955.

**RUSTY**  
**BOY DETECTIVE**

For Comic Books.  
 Use since Jan. 10, 1955.



SN 679,867. Song Dex, Inc., New York, N. Y. Filed Jan. 13, 1955. SN 680,327. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

# CHORDMASTER

For Self-Instruction Charts and Booklets for the Playing of Musical Instruments.

Use since on or about Jan. 5, 1955.

SN 679,868. Song Dex, Inc., New York, N. Y. Filed Jan. 13, 1955.

# SONG DEX

For Sheet Music and Self-Instruction Books and Charts for the Playing of Musical Instruments.

Use since on or about Dec. 15, 1949.

SN 679,869. Song Dex, Inc., New York, N. Y. Filed Jan. 13, 1955.

# ORGANMASTER

For Self-Instruction Charts and Booklets for the Playing of an Organ.

Use since on or about Jan. 5, 1955.

SN 680,094. William G. Patterson, San Antonio, Tex. Filed Jan. 18, 1955.

# GOTA CRYPE

For Column in a Periodical Publication.

Use since Oct. 20, 1954.

SN 680,191. General Features Corporation, New York, N. Y. Filed Jan. 20, 1955.

# Wilbert

For Newspaper Cartoon Panel.

Use since Dec. 30, 1954.

SN 680,282. Magnafacts Corporation, Chicago, Ill. Filed Jan. 21, 1955.

# Magnafacts

For House Publication, Issued Periodically.

Use since Dec. 1, 1953.

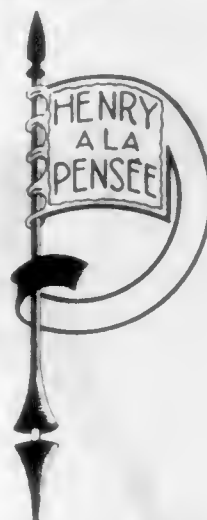
# VETERINARY SCOPE

Applicant claims ownership of Reg. No. 395,782. For Periodical Magazine.

Use since Aug. 27, 1954.

## CLASS 39

SN 655,779. Henry A La Pensee a Responsabilite Limitee, Paris, France. Filed Nov. 3, 1953.



Applicant claims ownership of Reg. No. 443,582. For Clothing for Men, Women, and Children—Namely, Trousers, Jackets, Overcoats, Suits, Coats; Dresses and Sweaters for Women and Children; Ladies' Belts.

Use since Nov. 1, 1951.

SN 662,979. Brookdale Fashions, Inc., New York, N. Y. Filed Mar. 22, 1954.

# Candee Floss

For Ladies' Coats.

Use since June 1, 1953.

SN 664,513. Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Société a Responsabilité Limitée, Paris, France. Filed Apr. 14, 1954. Sec. 2(f).

# D I O R

Applicant claims ownership of Reg. Nos. 523,754, 582,398, and others.

For Men's and Boys' Coats, Suits, Jackets, Dressing Gowns, Evening Capes, Knitted Scarves, Sweaters, Underwear, An-

kleets, Socks, Stockings, Shoes, Slippers, Hats, Handkerchiefs, T-Shirts, Ski-Suits, Swimming and Bathing Suits, Pants, Vests, Outer Shirts, Outer Shorts, Neckties, Bow Ties, Pajamas, Beach Coats, House Robes, Bathrobes, Gloves Made of Leather, Fabric and Combinations Thereof; Scarves and Collars Made of Fur.

Use since Feb. 27, 1947.

SN 668,316. Gardiner Shoe Company, Inc., Gardiner, Maine. Filed June 16, 1954.

# Pueblos

For Men's Moccasins.

Use since on or before May 2, 1954.

SN 668,563. Lady Lynne Lingerie, Inc., New York, N. Y. Filed June 21, 1954.

# NYLDACRA

by *Lady Lynne*

For Slips, Nightgowns, Brassières, and Foundation Garments for Women.

Use since Apr. 1, 1954.

SN 668,925. Plymouth Shoe Company, Middleboro, Mass. Filed June 25, 1954.

# CONESTOGA

For Shoes for Men.

Use since Apr. 29, 1954.

SN 672,691. Sanville Studios, Van Nuys, Calif. Filed Sept. 2, 1954.

# Ani Mitts

No claim is made to the word "Mitts" apart from the other features of the trademark.

For Children's Mittens, Made of Printed Corduroy in the Forms of Animal Heads.

Use since June 16, 1954.

SN 674,206. United States Rubber Company, New York, N. Y. Filed Oct. 1, 1954.

# SPRING-STEP

For Children's Shoes Having Fabric Uppers and Rubber Soles.

Use since Sept. 2, 1954.



The phrase "Made in Italy" is disclaimed apart from the mark as shown.

For Women's Shoes and Gloves.

Use since Apr. 15, 1954.

SN 675,709. P. W. Minor & Son Inc., Batavia, N. Y. Filed Oct. 29, 1954.

# VENTI-MESH

For Shoes for Women and Misses.

Use since Sept. 3, 1954.

SN 676,042. Dalsan, Inc., Dolgeville, N. Y. Filed Nov. 4, 1954.

# Gino Dalsini

For Shoes for Women.

Use since June 10, 1953.

SN 676,078. Saks & Company, New York, N. Y. Filed Nov. 4, 1954.

# Pacelle

For Women's and Misses' Shoes.

Use since Oct. 1, 1954.

SN 676,315. L. Greif & Bro., Inc., Baltimore, Md. Filed Nov. 9, 1954.

# Maltese Grey

For Suits, Top Coats, Overcoats, Slacks, Sport Coats, and Jackets for Men, Boys, and Youths.

Use since Sept. 10, 1954.



SN 677,047. Fern Shoe Company, Los Angeles, Calif. Filed Nov. 22, 1954.

*So Bel*

The trademark is "So Bel."  
For Ladies' Shoes.  
Use since at least as early as 1944.

SN 677,233. Merker Counter Company, Inc., Haverhill, Mass. Filed Nov. 24, 1954.

**VELVET-FLEX**

For Shoe Counters.  
Use since August 1950.

SN 677,593. The Mayer Company, Inc., New York, N. Y. Filed Dec. 1, 1954. Sec. 2(f).

**MAYER**

Applicant claims ownership of Reg. No. 524,017.  
For Women's and Misses' Hosiery.  
Use since January 1945.

SN 677,687. Wayne Knitting Mills, Fort Wayne, Ind. Filed Dec. 2, 1954.



No claim is made herein to the representation of the hosiery apart from the mark shown. Applicant claims ownership of Reg. Nos. 341,893 and 540,299.  
For Hosiery.  
Use since August 1932.

SN 678,015. Bates Shoe Company, Webster, Mass. Filed Dec. 9, 1954.

*Cavalry Cordo*

For Men's Leather Shoes.  
Use since May 1, 1953.

SN 678,130. Majestic Manufacturing Company, Inc., Atlanta, Ga. Filed Dec. 10, 1954.

*Pleasant Day*

For Ladies' Dresses, Skirts, Blouses, and Dusters.  
Use since Nov. 22, 1954.

SN 678,224. International Shoe Company, St. Louis, Mo. Filed Dec. 13, 1954.

*Signor*

For Men's and Boys' Shoes.  
Use since Nov. 26, 1954.

SN 678,662. Neumode Hosiery Co., Chicago, Ill. Filed Dec. 20, 1954.

**IN-B-TWEEN**

For Women's Hosiery.  
Use since Aug. 18, 1954.

SN 678,780. Andrew Geller, Inc., Brooklyn, N. Y. Filed Dec. 22, 1954. Sec. 2(f).

**GELLER SHOES**

Applicant claims ownership of the marks shown in Reg. Nos. 306,947 and 308,194.

For Ladies' and Misses' Shoes Made From Leather, Fabric, Plastic Material, and Combinations Thereof.  
Use since Nov. 1, 1907.

SN 678,862. Edith Henry, Cincinnati, Ohio. Filed Dec. 23, 1954.

*"whis-purrs"*

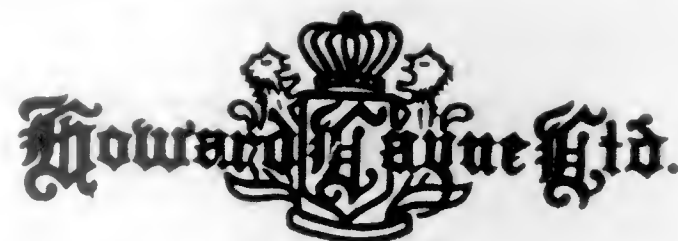
For Women's Shoes.  
Use since Oct. 1, 1953.

SN 678,873. Lorimer Hosiery Mills, Inc., Burlington, N. C. Filed Dec. 23, 1954.

*Flexi-Fit*

For Men's Hose.  
Use since Nov. 1, 1952.

SN 678,877. Modiste Shoes, Inc., New York, N. Y. Filed Dec. 23, 1954.



For Ladies' and Misses' Shoes.  
Use since Sept. 1, 1953.

SN 679,997. I. C. Isaacs & Company, Inc., Baltimore, Md. Filed Jan. 17, 1955.

**COWBELLE**

For Misses' and Girls' Jeans.  
Use since June 1952.

SN 680,245. Banner Bros. Pant Co., Inc., Boston, Mass. Filed Jan. 21, 1955.



For Men's and Women's Slacks, Outer Shorts, Jackets Including Ski Jackets, Ski Pants, and Men's Trousers.  
Use since Jan. 1, 1950.

#### CLASS 40

SN 676,357. Beltz Corporation, St. Louis, Mo. Filed Nov. 10, 1954. Sec. 2(f).

**SAFTI-GRIPS**

For Clasps Used on Sanitary Belts.  
Use since 1935.

SN 677,248. E. C. Scherrer, Inc., New York, N. Y. Filed Nov. 24, 1954.

**DELECE**

For Braids Used in the Manufacture of Hat Bodies.  
Use since Nov. 1, 1954.

SN 678,191. C. J. Bates & Son, Chester, Conn. Filed Dec. 13, 1954.

**JOY**

For Knitting Needles, Tatting Shuttles, Crochet Hooks, Stitch Holders, Bodkins, Stiletos, Safety Pins, Sewing Kits Comprising Measuring Tapes and Rules, Scissors, Needles, Thimbles, and Thread.  
Use since Nov. 8, 1954.

#### CLASS 42

SN 653,103. Beverly Vogue Company, Los Angeles, Calif. Filed Sept. 14, 1953.

**BEVERLY VOGUE**  
*Mermaid*  
*Lace*

Applicant disclaims the use of the word "Lace" apart from the mark as shown.  
For Lace Piece Goods.  
Use since June 5, 1953.

SN 689,419. The Eskimo Interlining Company Limited, London, England. Filed July 6, 1954.



No claim is made to "Interlining" apart from the mark as shown. Applicant claims ownership of British Reg. No. 570,804, dated Aug. 10, 1936.  
For Woollen Interlining Fabrics in the Piece.

SN 689,476. Thomas Ratcliffe & Company Limited, Mytholmroyd, near Halifax, England. Filed July 6, 1954. Sec. 2(f).

**MODERNA**

For Bed Blankets.  
Use since in the year 1934.

SN 675,002. Princeton Knitting Mills, Inc., New York, N. Y. Filed Oct. 18, 1954.

*Slumborlon*

For Blankets.  
Use since June 22, 1954.

SN 675,411. Robert McBratney & Company, Incorporated, New York, N. Y. Filed Oct. 25, 1954.

**"GLENERIE"**

Applicant claims ownership of Reg. No. 556,360.  
For Blended Linen and Spun Rayon Fabric Piece Goods.  
Use since on or about May 22, 1951.

SN 675,995. Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Filed Nov. 3, 1954.

**PROSPERITY**

Applicant claims ownership of Reg. No. 143,720.  
For Woven Cotton Fabrics—Namely, Cotton Duck, Sheet- ing, and Cotton Piece Goods.  
Use since July 31, 1944.

SN 677,407. D. B. Fuller & Co., Inc., New York, N. Y. Filed Nov. 29, 1954.

**REPPTONE**

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres, and Mixtures Thereof.  
Use since Aug. 10, 1953.



SN 677,573. Joanna Western Mills Company, Chicago, Ill. Filed Dec. 1, 1954.

# EXLITE

For Window Shade Cloth.  
Use since Nov. 15, 1949.

SN 677,733. Peirce and Company, Los Angeles, Calif. Filed Dec. 3, 1954.

# VELVATEX

For Wool Carpeting.  
Use since July 10, 1953.

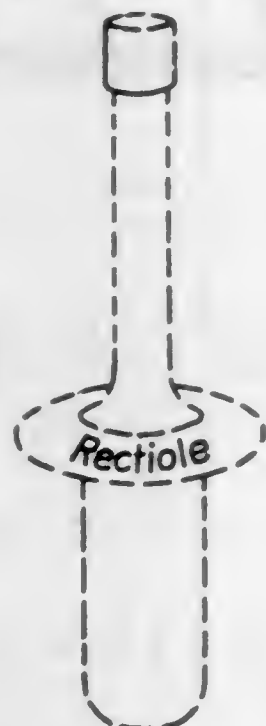
SN 677,798. C. H. Masland & Sons, Carlisle, Pa. Filed Dec. 6, 1954.

# SARANETTE

For Needled Pile Carpets and Rugs.  
Use since Mar. 26, 1953.

## CLASS 44

SN 664,542. Dr. Gerhard Mann, Berlin-Charlottenburg, Germany. Filed Apr. 14, 1954.



Applicant claims ownership of German Reg. No. 643,205, dated Aug. 27, 1953.

For Containers—Namely, Phials Made of Plastic Material and Dispensers for Fluid Discharge and in Particular for Introducing Medicated Preparations Into the Rectum.

Use since Feb. 8, 1954.

SN 666,429. Beltz Corporation, St. Louis, Mo. Filed May 17, 1954.

# Santy Panty

For Sanitary Panties.  
Use since Oct. 6, 1952.

SN 669,852. A. C. Barnes Company, New Brunswick, N. J. Filed July 13, 1954.

# TAMPULE

For Medicated Tampon for Vaginal Use.  
Use since May 26, 1954.

SN 669,964. Bomac Laboratories Inc., Beverly, Mass. Filed July 14, 1954.

# Bomair

For Electrostatic Precipitators To Remove Pollen, Dust, and Other Irritants From the Air for Relief of Hay Fever, Asthma, and Allergy Sufferers.  
Use since July 1, 1954.

SN 672,016. Revlon Products Corporation, New York, N. Y. Filed Aug. 20, 1954.

# 'MANIGROOM'

For Specially Formed Implement Constituting a Nail File, Nail Cleaner, Cuticle Implement.  
Use since Aug. 2, 1954.

SN 672,380. The Burdick Corporation, Milton, Wis. Filed Aug. 30, 1954. Sec. 2(f).

# Burdick

Applicant claims ownership of Reg. Nos. 252,654, 512,694, and 516,353.

For Electrocardiographs, Equipment for Producing Ultrasonic Waves for Therapeutic Uses, Metabolism Apparatus, and Stomach Pumps.

Use since June 1949 on electrocardiographs; and since Dec. 19, 1923, as to "Burdick."

SN 672,712. Richard H. Yohe, d. b. a. Trinity Industries, Salem, Ill. Filed Sept. 2, 1954.



The representation of the goods is disclaimed apart from the mark as shown.

For Colostomy Irrigating Device.  
Use since Aug. 10, 1954.

SN 672,783. C. J. Bates & Son, Chester, Conn. Filed Sept. 7, 1954.

# MICRO-GROUND

Applicant claims ownership of Reg. No. 426,171.  
For Manicure Implements Including Nail Files, Nail Clips, Tweezers, Nail Buffers, Manicure-Sticks, Manicure Knives, Nail-Scissors, Nail Nippers and Nail Polishers.  
Use since May 29, 1944.

SN 675,009. Will Ross, Inc., Milwaukee, Wis. Filed Oct. 18, 1954.



No registration rights are claimed for the word "Prepackaged" except in association with the other features of the mark. Applicant claims ownership of Reg. Nos. 577,948 and 582,747.

For Surgical Dressings—Namely, Obstetrical Pads Consisting of an Absorbent Filler Within a Gauze Wrapper, and Sponges for Use in Surgery.

Use since Jan. 1, 1954.

## CLASS 46

SN 633,481. American Maize-Products Company, New York, N. Y. Filed Aug. 5, 1952.

# Amazo PARTI- KORN

Applicant claims ownership of Reg. No. 96,381.  
For Puffed Parched Corn.  
Use since July 16, 1952.

SN 634,454. Frank H. Fleer Corporation, Philadelphia, Pa. Filed Aug. 26, 1952.

# FUN!

For Chewing Gum.  
Use since Mar. 24, 1952.

SN 637,079. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Oct. 23, 1952.

# CHAMPION MAXI-LAS

Applicant claims ownership of Reg. No. 147,761.  
For Feed for Cattle.  
Use since Aug. 13, 1951.

SN 641,707. Bremer Chocolate-Fabrik Hachez & Co., Bremen-Neustadt, Germany. Filed Feb. 4, 1953. Sec. 2(f).

# HACHEZ



The drawing is lined for red. Applicant claims ownership of German Reg. No. 450,398, dated Nov. 21, 1932.  
For Candy.

SN 646,765. H. & M. Packing Company, Inc., Brooklyn, N. Y. Filed May 11, 1953.



The words "Clover Pure Honey" are disclaimed apart from the mark as shown.  
For Honey.  
Use since Feb. 25, 1941.

SN 647,784. Joe Lowe Corporation, New York, N. Y. Filed May 27, 1953.

# BIGGA BA

For Frozen Confections on Sticks and a Chocolate Coating for Such Frozen Confections.  
Use since May 19, 1953.

SN 648,565. Plumrose, Inc., New York, N. Y. Filed June 10, 1953.



Exclusive registration rights to the word "Copenhagen" are not claimed apart from the rest of the mark.  
For Cheese Spread.  
Use since Feb. 10, 1953.



SN 648,662. General Mills, Inc., Wilmington, Del. Filed June 12, 1953.

## SUREBALANCE

Applicant claims ownership of Reg. Nos. 128,522, 331,029, and others.  
For Poultry Feed.  
Use since Feb. 1, 1953.

SN 649,158. The Jolly Rancher, Incorporated, Wheat Ridge, Colo. Filed June 22, 1953.

# SMOKE STIX

The word "Stix" is disclaimed. The drawing is lined for red and yellow. Applicant claims ownership of Reg. No. 579,454.

For Candy.  
Use since on or about Jan. 1, 1953.

SN 650,524. The Maas-Keefe Company, St. Paul, Minn. Filed July 20, 1953.



The word "Brand" is disclaimed apart from the mark. Applicant claims ownership of Reg. No. 304,731.

For Almond Paste, Cocoa, Coconut Oil and Coconut Butter Used for Food Flavoring Purposes, Shredded Coconut, Flavors and Extracts for Food Flavoring, Food Gelatine, Honey, Jams and Jellies, Milk Powder, Mince Meat, Molasses, Nut Meats, Essential Oils for Food Flavoring, Pie Fillings, Spices and Seeds for Food Flavoring, Marshmallow Powder, Meringue Powder, Baking Powder, Fudge Bases, Doughnut Sugar, Fondants, Colors (Food), Coated and Iced Fruits, Colored Sugars, and Canned Fruits, Canned Berries, and Canned Pumpkin.

Use since Nov. 1, 1926.

SN 650,788. Fred M. Drew Company, San Jose, Calif., to United States Products Corporation, Ltd. Filed July 24, 1953. Sec. 2(f).

# DREW

For Canned Fruits, Canned Vegetables, Canned Hominy, Canned Spanish Rice, and Canned Prepared Meal Consisting of Macaroni, Onions, Tomato Paste, Sweet Peppers, Sugar, Vinegar, Starch, Flour, Cottonseed Oil and Spices.  
Use since June 5, 1931, on canned fruits and vegetables.

SN 654,143. Mazur Bros. & Jaffe Fish Co., Inc., New York, N. Y. Filed Oct. 2, 1953.

# Sea-Breeze

For Fresh, Frozen, and Processed Fish and Shellfish.  
Use since Feb. 15, 1953.

SN 655,234. H. C. Brill Company, Inc., Newark, N. J. Filed Oct. 23, 1953. Sec. 2(f) as to "Brill's."

*Brill's*  
**POLAR FROST**

Applicant claims ownership of Reg. Nos. 252,067, 252,141, and others.

For Icing Base for Bakery Products.  
Use since Sept. 15, 1952.

SN 656,874. American Chic Company, Long Island City, N. Y. Filed Nov. 24, 1953.

# IVORYNE

Applicant claims ownership of Reg. Nos. 403,668, 444,701, and 444,779.

For Chewing Gum Containing Calcium Peroxide.  
Use since June 27, 1939.

SN 657,197. Chickasha Milling Company, d. b. a. Oklahoma Improved Seed Co., Chickasha, Okla. Filed Dec. 1, 1953.

# OKISCO

For Packaged Mung Beans for Human Consumption.  
Use since Oct. 3, 1949.

SN 657,639. J. C. Perry & Co., Inc., d. b. a. J. C. Perry & Co., Indianapolis, Ind. Filed Dec. 8, 1953.

# CADET

For Canned Fruits, Canned Vegetables, Canned Salmon, Canned Sauerkraut, Canned Pumpkin, Pork and Beans, Salad Dressing, Table Salt, Vinegar, Food Flavoring Extracts and Food Colors for Food Purposes.

Use since Apr. 10, 1900.  
Subj. to Intf. with Reg. No. 86,067.

SN 657,709. Fox Valley Canning Company, Hortonville, Wis. Filed Dec. 9, 1953.

*Mother's*  
**CHOICE**

Applicant claims ownership of the mark shown in Reg. No. 257,451.

For Canned Vegetables.  
Use since Dec. 1, 1927.

SN 658,444. General Grocer Company, St. Louis, Mo. Filed Dec. 23, 1953. Sec. 2(f).

# Like Fresh

For Canned Vegetables, Canned Fruits, and Canned Citrus Fruit Juices.

Use since May 1, 1922.  
Subj. to Intf. with Reg. No. 583,802.

SN 660,935. Fred Fear & Co., Brooklyn, N. Y. Filed Feb. 11, 1954.

# NATURE'S

For Pure Maple Syrup Used for Food Flavoring Purposes.  
Use since approximately in the year 1932.  
Subj. to Intf. with Reg. No. 356,228.

SN 661,627. Florida Citrus Exchange, Tampa, Fla. Filed Feb. 25, 1954.

# OFFICIAL

For Fresh and Canned Citrus Fruit and Canned Citrus Fruit Juices.  
Use since Dec. 12, 1953, on canned orange juice.

SN 663,168. Circus Foods, Inc., San Francisco, Calif. Filed Mar. 24, 1954.

# CIRCUS

Applicant claims ownership of Reg. Nos. 260,343, 360,756, and 424,245.

For Unshelled Nuts, and Shelled, Salted Nuts, Peanut Butter, Peanut Oil for Food Purposes, Candy and Canned Raw and Popped Popcorn.

Use since Aug. 18, 1945.  
Subj. to Intf. with SN 646,404.

SN 663,797. Jos. A. Johnson, d. b. a. Beakon Bean Company, Gooding, Idaho. Filed Apr. 2, 1954.



The word "Idaho" is hereby disclaimed apart from the mark shown.

For Dry Beans.  
Use since Jan. 5, 1954.

SN 663,818. Mymama's Food Distributors, Monticello, N. Y. Filed Apr. 2, 1954.

# Mymama's

For Canned Chick Peas.  
Use since Jan. 20, 1954.

SN 663,922. Nick Kozik, d. b. a. N. K. Coffee Co., Salt Lake City, Utah. Filed Apr. 5, 1954.

# NK

For Coffee Specially Processed by Freezing, in the Bean or Ground.

Use since Dec. 19, 1953.  
TM 696 O. G.—4

# ROYAL CORONA

Applicant claims ownership of Reg. Nos. 73,674, expired, 285,141, expired, and 545,045.

For Coffee; Tea; Instant Hot Chocolate Powder and Cocoa; Spices; Dehydrated and Dried Soups and Soup Mixes; Preservative for Peeled Vegetables and Fruit; Barbecue Sauce; Worcestershire Sauce; Gravy Sauce; Pure and Imitation Food Flavoring Extracts; Colorings for Food Purposes; Pudding Powders; Salad Dressing; French Dressing; and Mayonnaise.  
Use since 1925.

SN 664,421. Cotton Products Co., Inc., d. b. a. Opelousas Oil Refinery, Opelousas, La. Filed Apr. 13, 1954.

# PERFECTO

For Oil Shortening and Refined Peanut Oil for Cooking Purposes.

Use since in the year 1941.

SN 664,486. United States Products Corporation, Ltd., San Jose, Calif. Filed Apr. 13, 1954.

# PASHA

Applicant claims ownership of Reg. No. 211,386, expired.  
For Canned Fruits.

Use since Nov. 24, 1925.  
Subj. to Intf. with Reg. No. 574,737.

SN 664,968. Ohio Potato Growers Association, Columbus, Ohio. Filed Apr. 21, 1954. COLLECTIVE MARK.



Applicant disclaims the representation of the geographical outline of the State of Ohio and the descriptive words "Graded Dependable Quality."

For Potatoes in the Natural State.  
Use since July 1, 1940.

SN 665,833. Vale Mayes & Co., Edinburg, Tex. Filed May 6, 1954.

# Tan Baby

Applicant claims ownership of Reg. No. 570,162.  
For Fresh Vegetables.  
Use since Feb. 15, 1954.



SN 666,997. Darling & Company, Chicago, Ill. Filed May 11, 1954. SN 668,737. Evelyn N. Dunham, d. b. a. Brekke Foods, Fremont, Nebr. Filed June 23, 1954.

## DAR - STA - FAT

For Fats—Namely, Tallow and Grease—for Use in Live-stock and Poultry Feeds.  
Use since June 1953.

SN 666,385. Radiant Products Inc., Minneapolis, Minn. Filed May 14, 1954.

# handy-sandy

For Sandwiches, Sold Uncooked, Partly Cooked, and Cooked.  
Use since Sept. 21, 1953.

SN 667,248. McCormick & Company, Incorporated, Baltimore, Md. Filed May 27, 1954.



Applicant claims ownership of Reg. Nos. 541,469, 559,374, and others.  
For French Dressing.  
Use since on or about Jan. 28, 1954.

SN 667,779. F. W. Bryce Inc., d. b. a. F. W. Bryce Inc., Detroit, Mich. Filed June 7, 1954.

# Bryco

For Prepared Fish Products—Namely, Salted Fish and Frozen Fish Fillets.  
Use since Feb. 5, 1947, on salted fish.

SN 668,153. Consumers Packing Company, Lancaster, Pa. Filed June 14, 1954. Sec. 2(f).

# DUTCH FARMS

Applicant claims ownership of Reg. No. 535,834.  
For Frozen Fruits, Frozen Berries, and Frozen Vegetables.  
Use since Sept. 3, 1946, on frozen vegetables.

SN 668,502. Monkhouse & Glasscock Limited, London, England. Filed Aug. 12, 1954.

# FRUIT HEART

Applicant claims ownership of British Reg. No. 715,957, dated Mar. 12, 1953.

For Fruit Flavoured Preparations in Slab, Crystal or Powdered Form for Use in Making Jellies.

# READY ROLL

For Frozen Prepared Pie Crust.  
Use since Feb. 12, 1954.

SN 669,203. The National Sugar Refining Company, New York, N. Y. Filed June 30, 1954.



For Sugar.  
Use since on or about May 8, 1930.

SN 670,319. H. S. Whiteside & Co. Limited, Camberwell, London, England. Filed July 20, 1954.

# Sun-Pat

Applicant claims ownership of British Reg. Nos. 646,531, 646,532, and 646,533, dated Apr. 3, 1946.

For Peanut Butter, Jellies, Jams, Canned Peas, Allimentary Pastes, Candles, Shelled and Unshelled Nuts Sold by Type and in Packages of Mixed Nuts, Roasted and Salted Nuts Sold by Type and in Packages of Mixed Nuts, Candied Nuts, Almonds, Shelled, Unshelled and Candied, Dried and Crystallized Fruits, Dates Stoned and Unstoned and Plain, Salted, Flavored and Sugared Popcorn Sold in Popped and Unpopped Condition.

SN 670,623. James H. Smith, d. b. a. Turlock Fruit Company, Turlock, Calif. Filed July 26, 1954.



For Fresh Melons.  
Use since 1952.

SN 670,736. The Frozen Food Forum Inc., Atlanta, Ga. Filed July 28, 1954.

# FROSTY ACRES

For Frozen Foods—Namely, Vegetables, Fruits, and Fish.  
Use since June 18, 1954.

SN 671,213. Charles G. Stevens, d. b. a. R. B. & C. G. Stevens, Jonesport, Maine. Filed Aug. 5, 1954. Sec. 2(f) as to "Jonesport." SN 673,351. Grands Vemp Food Co., Denver, Colo. Filed Sept. 17, 1954.



For Canned Fish, Fishflakes, Clams.  
Use since in the year 1934.

SN 671,343. Fred G. Hilvert Company, Inc., Distributors, d. b. a. Fred G. Hilvert Co., Inc., Phoenix, Ariz. Filed Aug. 9, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 403,722.  
For Fresh Vegetables and Melons.  
Use since Mar. 8, 1937.

SN 671,427. Giant Distributing Company, Oakland, Calif. Filed Aug. 10, 1954.

# Piggy Puffs

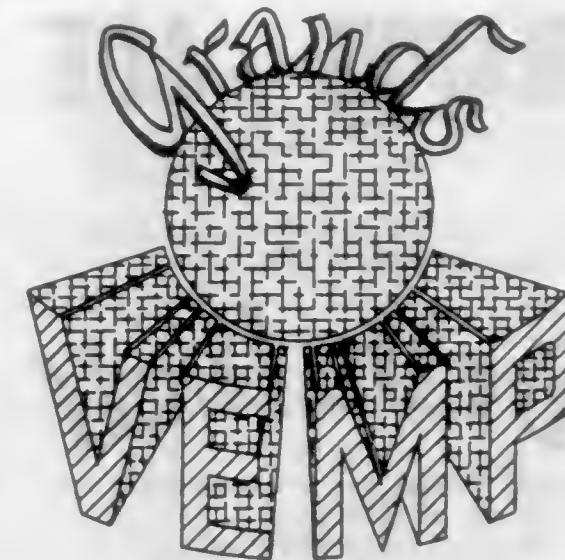


For Fried Pork Skins.  
Use since July 23, 1952.

SN 671,940. G. P. Gundlach & Co. Inc., Cincinnati, Ohio. Filed Aug. 19, 1954.

# COUNTRY Flake

For Buttermilk.  
Use since Apr. 28, 1954.



The drawing is lined for gold and brown.  
For Bread.  
Use since Dec. 15, 1953.

SN 673,694. Truefruit Syrup Corporation, Brooklyn, N. Y. Filed Sept. 23, 1954.

# Tru-Maid

For Chocolate Syrups for Food Purposes, Crushed Fruits, and Cocoa for Making Hot Chocolate.  
Use since in the year 1929.

SN 673,840. Lettuce Incorporated, Salinas, Calif. Filed Sept. 27, 1954. COLLECTIVE MARK.



Applicant claims ownership of Reg. No. 583,374 and of the mark shown in canceled Reg. No. 407,410.  
For Fresh Vegetables and Fresh Melons.  
Use since July 10, 1952.

SN 673,918. H. J. Heinz Company, Pittsburgh, Pa. Filed Sept. 28, 1954.

# 57

Applicant claims ownership of Reg. Nos. 61,051, 600,093, and others.  
For Canned and Bottled Grape Juice.  
Use since in July 1942.



SN 674,212. Albers Milling Company, Los Angeles, Calif. Filed Oct. 4, 1954.

# RAPID - ADE

For Rabbit Feed.  
Use since Dec. 10, 1953.

SN 674,278. Mario S. Pencin, d. b. a. Dr. DuWell Foods Co.,  
Puente, Calif. Filed Oct. 4, 1954.

# Dr. DuWell

For Tamales, Without Meat, Pork and Beans, Spiced Beans.  
Use since Mar. 30, 1954.

SN 674,304. Vitality Mills, Inc., Chicago, Ill. Filed Oct. 4,  
1954.

# VITALITY

For Poultry Feeds and Dog Food.  
Use since Mar. 1, 1919.

SN 674,305. Vitality Mills, Inc., Chicago, Ill. Filed Oct. 4,  
1954.



No claim is made to the red coloring indicated by the shading in the drawing.  
For Poultry Feeds and Dog Food.  
Use since Aug. 16, 1954.

SN 674,530. Salinas Valley Vegetable Exchange, Salinas,  
Calif. Filed Oct. 8, 1954.

# GOLD STAR



Applicant claims ownership of Reg. Nos. 292,419 and  
507,513.  
For Fresh Vegetables.  
Use since 1928.

SN 674,556. Fred J. Borelli, d. b. a. Davelli Produce Co.,  
Fresno, Calif. Filed Oct. 11, 1954.

# ICE KREEM

For Fresh Vegetables.  
Use since July 7, 1954.

SN 674,630. Louis Segal, d. b. a. Joel-Honey Candy Co.,  
Philadelphia, Pa. Filed Oct. 11, 1954.

# Old Dutch

For Candy.  
Use since June 1934.

SN 674,688. Nuchief Sales, Inc., Wenatchee, Wash. Filed  
Oct. 12, 1954.



The representation of the apple is disclaimed. Applicant  
claims ownership of Reg. Nos. 409,969 and 549,800.  
For Fresh Apples.  
Use since Sept. 4, 1954.

SN 674,753. Maplecrest Turkey Farms, Wellman, Iowa.  
Filed Oct. 13, 1954.



Applicant claims ownership of Reg. No. 321,325.  
For Dressed Turkeys.  
Use since Oct. 1, 1931.

SN 674,774. Swift & Company, d. b. a. White Provision Com-  
pany. Filed Oct. 13, 1954.

# STONE MOUNTAIN

For Bacon and Smoked Ham.  
Use since at least as early as 1926.

SN 674,885. Gooch Feed Mill Co., Lincoln, Nebr. Filed Oct.  
15, 1954. Sec. 2(f) as to "Gooch's."

# GOOCH'S BEST PEP

For Dog Food.  
Use since Aug. 2, 1954.

SN 674,905. Penn Maid Dairy Products, Philadelphia, Pa. Filed Oct. 15, 1954.



For Fluid Milk, Cheese, Fluid Cream, and Butter.  
Use since Oct. 1, 1954.

SN 675,132. Central Soya Company, Inc., Fort Wayne, Ind.  
Filed Oct. 20, 1954.

# MASTER SOY

Applicant claims ownership of Reg. No. 323,726.  
For Stock Food—Namely, Soy Bean Oil Meal With Min-  
erals.  
Use since Oct. 25, 1934.

SN 675,311. Sam F. Powell, Edna, Tex. Filed Oct. 22, 1954.

# PORKIE DOG

For Batter Mixture for Use in Preparing Batter in Which  
Frankfurters Are Enclosed.  
Use since on or about Jan. 1, 1954.

SN 675,423. Pelton's Spudnuts, Incorporated, Salt Lake  
City, Utah. Filed Oct. 25, 1954.

# Spudnut

Applicant claims ownership of Reg. Nos. 425,225, 600,798,  
and others.  
For Bakery Products—Namely, Filled and Unfilled Pastry  
Bars and Rolls.  
Use since Aug. 3, 1954.

SN 675,451. Washington Pecan Co., Inc., Gulfport, Miss.  
Filed Oct. 25, 1954. Sec. 2(f).

# Washington

For Candies; Shelled and Unshelled Pecans; Vanilla,  
Orange, and Spice Flavored Pecans; Frosted Pecans; and  
Pecan Topping for Food Purposes.  
Use since Oct. 1, 1934.

# YAKIES

Applicant claims ownership of Reg. No. 592,503.  
For Canned Deep-Fried Cocktail Chicken Liver Croquettes.  
Use since Mar. 11, 1954.

SN 675,611. Mandarin Food Products, Incorporated, d. b. a.  
Brownie's, Los Angeles, Calif. Filed Oct. 22, 1954.

# YAKITY-YAKS

Applicant claims ownership of Reg. No. 592,503.  
For Canned Deep-Fried Cocktail Lobster Patties.  
Use since Mar. 11, 1954.

SN 675,612. Mandarin Food Products, Incorporated, d. b. a.  
Brownie's, Los Angeles, Calif. Filed Oct. 22, 1954.

# YAKS

Applicant claims ownership of Reg. No. 592,503.  
For Canned Cocktail Shrimp.  
Use since Mar. 11, 1954.

SN 675,684. Baltic Trading Company, Ltd., New York, N. Y.  
Filed Oct. 29, 1954.

# Danish Flag

For Canned Cooked Hams.  
Use since Oct. 19, 1954.

SN 675,799. Jewett & Sherman Company, d. b. a. Holsum  
Products, Milwaukee, Wis. Filed Nov. 1, 1954.



For Food Flavoring Extracts, Pickles, Olives, Prepared  
Mustard, Peanut Butter, Fruit Preserves, Fruit Jams, Fruit



Jellies, Mayonnaise, Salad Dressing, French Dressing, Thousand Island Dressing, Tartar Sauce, Sandwich Spread, and Spices.

Use since January 1954.

SN 675,809. J. R. McClellan, d. b. a. Spanish Village Cafe, Dallas, Tex. Filed Nov. 1, 1954.

MRS. WIMBERLY'S  
**SPANISH VILLAGE**

For Hot Sauce and Chili Spice Seasoning.  
Use since June 1, 1954.

SN 675,832. Sequoia Foothill Fruit Growers, Incorporated, d. b. a. Sequoia Foothill Fruit Growers, Woodlake, Calif. Filed Nov. 1, 1954.



The Spanish word "Montaña" is translated as "Mountainous."

For Fresh Grapes.  
Use since Oct. 11, 1954.

SN 675,964. The Capital City Products Company, Columbus, Ohio. Filed Nov. 3, 1954.

**GOLDEN  
BLOOM**

Applicant claims ownership of Reg. No. 280,932.  
For Peanut Oil for Use as Popcorn Seasoning.  
Use since Sept. 28, 1954.

SN 676,070. Omaha Cold Storage Company, d. b. a. Phelps County Creamery & Produce Co., Omaha, Nebr. Filed Nov. 4, 1954.

*Lynbrook*

For Dressed Poultry.  
Use since June 26, 1953.

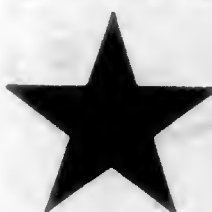
SN 676,180. Conrad Associates, Maspeth, N. Y. Filed Nov. 8, 1954.

**POLY BAKE**

For Liquid Vegetable Oil Pan Grease for Use in the Baking Trade.  
Use since Oct. 4, 1954.

SN 676,335. Red Star Yeast & Products Company, Milwaukee, Wis. Filed Nov. 9, 1954.

**STAR  
ZYME**



For Amylase and Protease Fungal Enzyme Tablets for Baking Purposes.

Use since Sept. 8, 1954.

SN 676,768. Swift & Company, d. b. a. V. W. Joyner & Company, Division of Swift & Company, Chicago, Ill. Filed Nov. 16, 1954.

**SURREY FARM**

For Smoked Ham.  
Use since about Sept. 7, 1954.

SN 677,544. Paul F. Belch Company, Bloomington, Ill. Filed Dec. 1, 1954.

**Big  
Square**

For Candy.  
Use since Nov. 5, 1954.

SN 677,571. Inn Maid Products, Inc., Millersburg, Ohio. Filed Dec. 1, 1954. Sec. 2(f).

**Inn Maid**

Applicant claims ownership of Reg. No. 509,486.  
For Fresh Frozen Chickens and Parts Thereof, Coffee, Noodles, Apple Butter, Biscuit Mix, French Dressing, Peach Preserve and Strawberry Preserve.

Use since Jan. 15, 1947, on fresh frozen chickens and parts thereof, coffee, noodles, apple butter, peach preserve, and strawberry preserve.

SN 677,762. The Borden Company, New York, N. Y. Filed Dec. 6, 1954.

*Charlotte Freeze*

For Imitation Ice Cream.  
Use since May 22, 1952.

SN 678,127. List Grape Association, Exeter, Calif. Filed Dec. 10, 1954. SN 678,586. Archer-Daniels-Midland Company, Minneapolis, Minn. Filed Dec. 20, 1954.

**CORINTHIAN**

For Fresh Grapes.  
Use since October 1927.

SN 678,128. List Grape Association, Exeter, Calif. Filed Dec. 10, 1954. SN 678,641. Krackets Company, Richardson, Tex. Filed Dec. 20, 1954.

**SAILBOAT**

For Fresh Grapes.  
Use since October 1951.

SN 678,129. List Grape Association, Exeter, Calif. Filed Dec. 10, 1954.

*Silver Maple*

For Fresh Grapes.  
Use since October 1940.

SN 678,452. G. F. Heublein & Bro., Inc., Hartford, Conn. Filed Dec. 16, 1954.

*Better Breakfast Kit*

The drawing is lined for red.  
For Breakfast Cereals.  
Use since Dec. 2, 1954.

SN 678,495. Yum-Burger, Garnett, Kans. Filed Dec. 16, 1954. SN 678,870. Lance, Inc., Charlotte, N. C. Filed Dec. 23, 1954.

**YUM-BURGER MIX**

For Seasoning in Powder Form for Ground Meat, Meat Stews, Baked Beans, Lima Beans, Corn, Rice Dishes, Tomato Dishes, Shrimp Sauce, and Chili.  
Use since during the summer of 1946.

SN 678,531. Wendell G. Hendricks, d. b. a. Hendricks Laboratories, also d. b. a. Hendricks Research Foundation, Los Angeles, Calif. Filed Dec. 17, 1954.

**DELECTOSE**

For Sugar Substitute.  
Use since Nov. 8, 1954.

**Nutri-Wite**

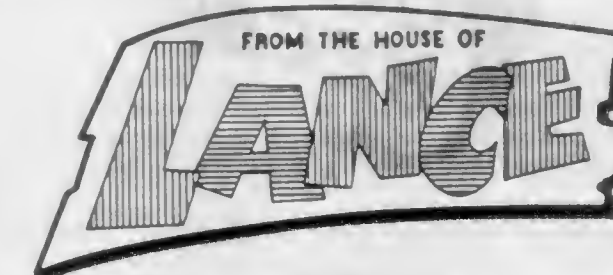
For Soybean Flour Particularly for Use as a Supplemental Additive in Bakery Products.  
Use since on or about July 20, 1954.



Applicant claims ownership of Reg. Nos. 565,452 and 565,453.

For Tomato, Onion, Potato, and Cheese Flavored Puffs.  
Use since on or about June 15, 1949.

SN 678,869. Lance, Inc., Charlotte, N. C. Filed Dec. 23, 1954.



The drawing is lined for red and blue. Applicant claims ownership of Reg. Nos. 170,701, 554,573, and others.  
For Peanut Butter Sandwiches, Cookies, Crackers, Candy, Raisins, Pretzels, Peanuts, Peanut Butter, and Cracker Meal.  
Use since Dec. 16, 1954.



The drawing is lined for red and blue, but no claim is made as to color. Applicant claims ownership of Reg. Nos. 170,701, 554,573, and others.

For Peanut Butter Sandwiches, Cookies, Crackers, Candy, Raisins, Pretzels, Peanuts, Peanut Butter, and Cracker Meal.  
Use since Dec. 16, 1954.

SN 678,912. Elderwood Citrus Association, Woodlake, Calif. Filed Dec. 24, 1954. Sec. 2(f).

**GENUINE**

Applicant claims ownership of Reg. No. 344,923.  
For Fresh Citrus Fruits.  
Use since Nov. 27, 1923.



SN 679,396. J. Clair Lanning, Lincoln, Nebr. Filed Jan. 4, 1955.

# Whiffen Chips

For Food Chips Comprising Vegetable-Flavored Wafer Products Which Are Fried and Which Simulate Potato Chips. Use since during September 1949.

SN 679,727. Robert J. Ghiglia, d. b. a. Merced Produce & Packing Co., Chowchilla, Calif. Filed Jan. 11, 1955.

## MERCED BEAUTY

For Fresh Fruits and Fresh Vegetables. Use since Dec. 17, 1954.

SN 679,731. Cecile D. Harris, Attleboro, Mass. Filed Jan. 11, 1955.

# Cee's COCKTAIL HEESE

For Cheese. Use since in or about April 1954.

SN 679,758. Clover Farm Stores Corporation, Cleveland, Ohio. Filed Jan. 12, 1955.

# WHITE CUP

For Coffee. Use since Jan. 2, 1941.

SN 679,862. Rockwood & Co., Brooklyn, N. Y. Filed Jan. 13, 1955.

# PARTYETTES

For Chocolate Candy Pieces. Use since Dec. 29, 1954.

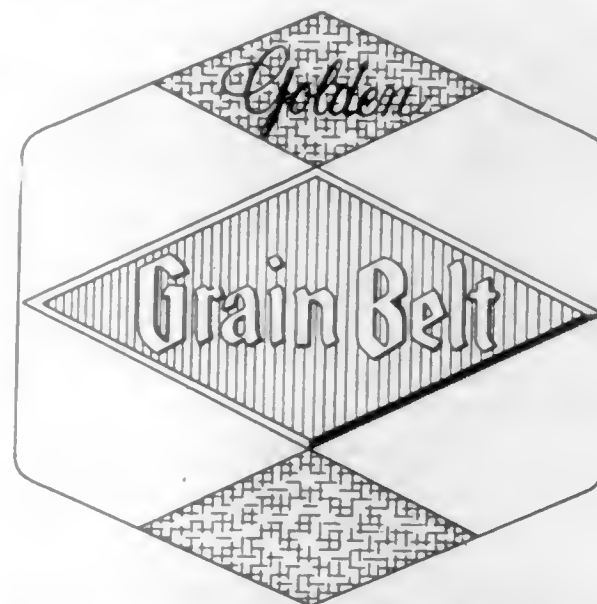
## CLASS 48

SN 663,202. Miller Brewing Company, Milwaukee, Wis. Filed Mar. 24, 1954.



Applicant claims ownership of Reg. Nos. 151,345, 546,447, and others. For Beer. Use since Feb. 15, 1954; and on Dec. 30, 1903, as to "High Life."

SN 665,842. Minneapolis Brewing Company, Minneapolis, Minn. Filed May 6, 1954.



The term "Golden" is disclaimed apart from the mark as shown. The drawing is lined for the colors red and gold. Applicant claims ownership of Reg. Nos. 54,643, 415,764, and others.

For Beer. Use since Mar. 29, 1954.

SN 673,671. Richard W. Marland, d. b. a. Pikes Peak Sales Co., Los Angeles Calif. Filed Sept. 23, 1954.



Applicant disclaims at this time all wording except "Pikes Peak," reserving rights which may accrue in any part thereof acquiring, in the course of time, a secondary meaning.

For Beer. Use since June 11, 1954.

SN 674,888. Hampden Brewing Company, Williamansett, Mass. Filed Oct. 15, 1954.



Applicant claims ownership of Reg. Nos. 287,287, 395,603, and others. For Beer. Use since Sept. 14, 1954.

## CLASS 49

SN 662,475. Schenley Distillers, Inc., d. b. a. Many, Blanc & Co., New York, N. Y. Filed Mar. 11, 1954.

## COCKTAILS FOR TWO

For Prepared Alcoholic Cocktails. Use since Dec. 8, 1953.

SN 672,541. Societe Anonyme Maison Albert Robin, Cognac (Charente), France. Filed Aug. 31, 1954.

# NIGHT CLUB

Applicant claims ownership of French Reg. No. 506,387, dated Dec. 12, 1951. For Cognac.

SN 677,414. D. Johnston & Company (Laphroaig) Limited, Laphroaig, Port Ellen, Isle of Islay, Scotland. Filed Nov. 29, 1954.

## LAPHROAIG

Applicant claims ownership of British Reg. No. 368,918, dated Aug. 25, 1915. For Whisky.

## CLASS 50

SN 648,299. The Douglas Company, Minneapolis, Minn. Filed June 5, 1953.

## CHROME CRAFT

For Signs in the Nature of Metallic Name Plates. Use since June 17, 1952.

SN 649,073. Schlage Lock Company, San Francisco, Calif. Filed June 19, 1953. Sec. 2(f).

# SCHLAGE

Applicant claims ownership of Reg. Nos. 205,373, 539,861, and 565,022.

For Metal and Plastic Key Tags, Metal and Plastic Key Bows, and Metal Instruction Plates. Use since Jan. 1, 1924.

# deltex

Applicant claims ownership of Reg. Nos. 399,954, 421,036, and 511,368. For Artists' Materials—Namely, Stretcher Strips. Use since Nov. 18, 1953.

SN 659,671. The Silicone Paper Company of America, Inc., New York, N. Y. Filed Jan. 18, 1954.



No claim is made to the words "Heavy Duty" and "Lens Cleaning Station" apart from the mark as shown. The drawing is lined for yellow and red, but color is not considered a material feature of the mark. Applicant claims ownership of Reg. No. 528,634.

For Lens Cleaning Station for Serving Needs of Workmen in Industrial Plants and Consisting of a Multi-Compartment Cabinet and a Lens Cleaning Fluid Dispenser Associated in Controlled Separable Relation Therewith, Said Cabinet Having Compartments for Storing and Dispensing Interfolded Sheets of Soft Surfacted Paper and for Disposal of Same After Use.

Use since Nov. 17, 1953.

SN 665,454. United States Rubber Company, New York, N. Y. Filed Apr. 29, 1954.

## FOOT - EASE

For Rubber Floor Matting. Use since Mar. 3, 1954.

SN 666,983. Permark Company, Inc., New York, N. Y. Filed May 24, 1954.

## PERMARKER

Applicant claims ownership of Reg. No. 547,116. For Identification Tags and Labels, Each of Said Labels Comprising a Tag and a Support Therefor, for Use in Connection With Plants and in Gardens. Use since during April 1951.

SN 669,821. Streamline Plastics Co., New York, N. Y. Filed July 12, 1954.

## "SPEED SPEK"

For Hen Blinders for Mounting on Hens' Beaks to Inhibit Their Picking on One Another. Use since on or about Apr. 15, 1954.



SN 670,737. Gaetjens, Berger & Wirth, Inc., Brooklyn, N. Y.  
Filed July 28, 1954.

# G.B.W

For Materials Used in Applying Ink to Paper in the Lithographic Art—Namely, Rubber Blankets, Flannel Shaped to Fit, Cotton Velvet Shaped to Fit, and Zinc and Aluminum or Other Metal Lithographic Plates.  
Use since May 19, 1954.

SN 674,580. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Oct. 11, 1954.

# COTTAGEAIRE

For Tents.  
Use since February 1937.

SN 674,581. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Oct. 11, 1954.

# VISTA

For Tents.  
Use since March 1932.

SN 674,582. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Oct. 11, 1954.

# DEFIANCE

For Tents.  
Use since April 1932.

SN 674,583. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Oct. 11, 1954.

# SCOTTY

For Tents.  
Use since January 1936.

SN 674,585. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Oct. 11, 1954.

# TRAIL BLAZER

For Tents.  
Use since February 1939.

SN 674,875. Dictaphone Corporation, Bridgeport, Conn. Filed Oct. 15, 1954.

# DICTAMAILER

Applicant claims ownership of Reg. Nos. 66,997, 591,186, and others.

For Plastic Forms for Holding and Protecting Thin Plastic Belt Dictating Machine Records.  
Use since November 1953.

## CLASS 51

SN 604,215. Jack B. Nethercutt, d. b. a. Nethercutt Laboratories, Santa Monica, Calif. Filed Sept. 29, 1950.

# LATAN

For Foundation Cream.  
Use since July 25, 1950.

SN 657,407. Borun Bros., also d. b. a. Betty Woods Laboratories, Los Angeles, Calif. Filed Dec. 4, 1953. Sec. 2(f).

# BETTY WOODS

Applicant claims ownership of Reg. No. 300,115, now expired.

For Theatrical Cold Cream, Hair Setting Lotion, Hand Cream, All Over Body Lotion, Liquid Lanolin Lotion, Non-Smear Liquid Nail Polish Remover, and Deodorant Cream.  
Use since Dec. 30, 1930.

SN 659,344. Helene Curtis Industries, Inc., Chicago, Ill. Filed Jan. 12, 1954.

# Suave

For Hair Dressing.  
Use since June 1, 1937.

SN 663,952. Hans Schwarzkopf, Hamburg-Altona, Germany. Filed Apr. 5, 1954.



Applicant claims ownership of German Reg. No. 69,147, dated May 10, 1904, No. 87,486, dated May 5, 1906, and U. S. Reg. Nos. 67,897, expired, and 317,195.

For Preparations for Dyeing, Lacquering, and Bleaching Hair, Eyebrows and Eyelashes, Removing Gloss of Hair, Hair Lotions, Hair Tonic, Fixatives, Skin Lotions, Skin Creams, and Cold Wave Preparations.

SN 666,364. Kay-Lee Company, New York, N. Y. Filed May 14, 1954.

# Tweez-Aid

For Cosmetic Preparation Comprising an Analgesic Eyebrow Cream for Use on Eyebrows.  
Use since Apr. 8, 1954.

SN 666,720. Helene Brent Coasmetic Company, San Jose, Calif. Filed May 20, 1954. SN 670,823. Beauty Treasures, Inc., Seattle, Wash. Filed July 30, 1954.

# HELENE BRENT'S

The mark constitutes a portion of the name of a particular living individual whose consent to its use is of record.

For Skin Lotion.  
Use since Feb. 8, 1954.

SN 666,954. Richard Hudnut, New York, N. Y. Filed May 24, 1954.

# big bad wolf

For Cologne and After Shave Lotion.  
Use since May 18, 1954.

SN 666,955. Richard Hudnut, New York, N. Y. Filed May 24, 1954.

# TWO LITTLE INDIANS

For Perfume.  
Use since May 18, 1954.

SN 667,052. Helena Rubenstein, Inc., New York, N. Y. Filed May 25, 1954.

# Everpoint Eye Pencil

The words "Eye Pencil" are disclaimed apart from the mark shown.

For Eye Pencils.  
Use since Mar. 16, 1954.

SN 667,321. The Mennen Company, Morristown, N. J. Filed May 28, 1954.



The portrait is that of the infant Valerie Ann Vaughan, consent having been granted. The drawing is lined for red, brown, and green.

For Skin Lotion, Borated Baby Powder, and Baby Oil.  
Use since Oct. 7, 1953.

# Beauty Treasures

For Beauty Preparations, and Namely Foundation Creams, Dry-Skin Cream, Cleansing Cream, Night Cream, Hand Lotion, Complexion Lotion, Deodorant, Powder, Rouge, and Lipstick.  
Use since on or about Nov. 1, 1953.

SN 671,756. Klefer-Stewart Company, Indianapolis, Ind. Filed Aug. 16, 1954.

# Old Gibraltar

Applicant claims ownership of Reg. Nos. 82,652 and 579,786. For Witch Hazel Jelly for Improving and Protecting the Texture of the Skin.  
Use since on or about Jan. 1, 1885.

SN 672,654. Henry Gustin, Saint-Maur, France. Filed Sept. 2, 1954.

# Montin

Priority under Sec. 44(d). French application, filed Mar. 5, 1954, Reg. No. 439,647, dated Mar. 5, 1954.

For Face, Hand, and Skin Creams, Cleansing Creams, Powders, Lipsticks, Rouges, Mascara, Eye Makeup, Face and Hand Lotions, Essential Oils for Making Perfumes, and Toothpaste.

SN 673,055. The Rilling-Dermetics Company, d. b. a. Rilling Dermetics Co., New York, N. Y. Filed Sept. 10, 1954.

# PINK DRESS

For Cosmetic Skin Lotions and Deodorants.  
Use since August 1953.

SN 673,167. Frances Denney, Philadelphia, Pa. Filed Sept. 14, 1954.

# SLIM-TRIM

For Cosmetic Sets Containing a Face Cosmetic, a Skin Lotion, and a Dietary Supplement and Case for Holding the Same, Sold as a Complete Unit.  
Use since Sept. 1, 1954.

SN 674,520. Lee Limited, Beverly Hills, Calif. Filed Oct. 8, 1954.

# DRI-MIST

For Personal Deodorant Anti-Perspirant.  
Use since Sept. 22, 1954.



SN 676,150. J. G. Waldner, Jr., d. b. a. Rendlaw Laboratories, Chicago, Ill. Filed Nov. 5, 1954.

**Manné**

For Cosmetic Creams, Baby Creams, Hair Creams, and Perfume.  
Use since 1937 on cosmetic creams.

SN 676,235. Sea Reed Products, Chicago, Ill. Filed Nov. 8, 1954.

**Sea Reed**

For Hair Pomade.  
Use since Aug. 24, 1954.

SN 676,622. Gaylord Products, Incorporated, Chicago, Ill. Filed Nov. 15, 1954.

**Gayla**

For Preparation To Be Sprayed Upon Human Hair to Keep Same Set.  
Use since Oct. 8, 1954.

SN 677,420. R. H. Laird Manufacturing Company, Inc., New York, N. Y. Filed Nov. 29, 1954. Sec. 2(f).

**Quix-Set**

Applicant claims ownership of Reg. No. 324,627.  
For Wave Lotion.  
Use since Apr. 12, 1954.

SN 677,831. Vitamins, Inc., d. b. a. Kushin Laboratories, Glendale, Calif. Filed Dec. 6, 1954.

**hand'n glove**

For Hand Lotion.  
Use since Nov. 5, 1954.

SN 677,935. Carter Products, Inc., New York, N. Y. Filed Dec. 8, 1954.

**SNOW**

For Dentifrice.  
Use since Nov. 14, 1954.

SN 677,941. Helene Curtis Industries, Inc., Chicago, Ill. Filed Dec. 8, 1954.

**Heavenly**

For Hair Waving Lotion.  
Use since Nov. 11, 1954.

## CLASS 52

SN 664,291. The Cobb Manufacturing Co., Inc., Richmond, Va. Filed Apr. 12, 1954.

**NYLON SNOW**

For Bleach-Detergent for Fabrics and Clothing.  
Use since at least as early as Feb. 15, 1953.

SN 671,712. Bennett Marine Utility, Inc., San Francisco, Calif. Filed Aug. 16, 1954.

**BENNE KLEEN**

For Composition for Cleaning and Eliminating Scale and Corrosion, and Treating Boilers, Tanks, and the Like.  
Use since May 25, 1954.

SN 674,182. National Soap and Chemical Company, Minneapolis, Minn. Filed Oct. 1, 1954.

**HTST**

For Sodium Bisulphate Type Cleansing Powder.  
Use since Jan. 4, 1952.

SN 676,671. Skin Tested Drug Products, Inc., New York, N. Y. Filed Nov. 15, 1954.

**Montego**

Applicant claims ownership of Reg. No. 591,412.  
For Shampoo.  
Use since Nov. 4, 1954.

SN 678,688. Telex, Inc., Telex Park, St. Paul, Minn. Filed Dec. 20, 1954.

**TELE-KLEEN**

For Cleaning Solution for Ear molds of Hearing Aids, Plastics, Metals, and Jewelry.  
Use since Dec. 30, 1948.

## SERVICE MARKS

## CLASS 100

SN 654,114. Farrington Manufacturing Company, Boston, Mass. Filed Oct. 2, 1953.

**CHARGA-MATIC**

Applicant claims ownership of Reg. No. 576,688.  
For Advisory Services in Connection With the Installation and Maintenance of Credit Identification Systems.  
Use since February 1952.

SN 662,187. Best Value Motels, Inc., Jacksonville, Fla. Filed Mar. 8, 1954.



*Travelers' Best Buy*

For Lodging and Eating Services.  
Use since July 7, 1953.

SN 665,123. Marble Institute of America, Inc., Mount Vernon, N. Y. Filed Apr. 23, 1954.



For Promoting the Use of Marble and Marble Products by Dissemination of Information Concerning Such Products and Their Uses.  
Use since in July 1946.

SN 668,614. Wood Office Furniture Institute, Washington, D. C. Filed June 21, 1954.

**C O P S**

For Advising Retail Office Furniture Dealers and Furnishing Them With Material To Aid Them and Improve Their Standards in Planning, Decorating, and Furnishing Offices for Their Customers.  
Use since on or about Mar. 21, 1953.

SN 669,134. S. John Nitta, d. b. a. American Chick Sexing Association and as American Chick Sexing Association School, Lansdale, Pa. Filed June 29, 1954.

**AMCHICK**

For Determining the Sex of Chicks and Poults for Hatcheries.  
Use since in or about August 1947.

## CLASS 101

SN 618,866. Martin Stern, New York, N. Y. Filed Sept. 15, 1951. Sec. 2(f).

**SWIM FOR HEALTH**

For Advertising and Publicity Services Rendered Through the Medium of Posters, Handbills, Pamphlets, Press and Publicity Releases and Publicity Campaigns, Concerning Contests, Shows and Exhibitions Stimulating Interest in Swimming and for the Furtherance of Sale of Bathing and Swimming Equipment, as Particularly Rendered to the Bathing Suit Industry and Others.  
Use since May 1, 1929.

SN 632,738. Morris, Lee & Company, Spokane, Wash. Filed July 18, 1952.

**UFAX**

For Services of Collecting Facts Relating to Business Operations in the Fruit Industry Including All Matters That Affect Operations of the Business Such as Cost of Harvesting, Cleaning, Packing, Shipping Methods and Costs, Etc. in Various Areas Where Fruit is Grown, Stored, Processed and Packed for Shipment, Analyzing Such Facts Through the Use of Uniform Accounting Procedures and Transmitting the Information So Obtained to Firms and Individuals in the Fruit Industry.  
Use since May 6, 1940.

SN 648,625. Professional Budget Plan, Madison, Wis. Filed June 11, 1953.



For Planning, Installation, and Maintenance of Bookkeeping and Business Management Methods and Practices.  
Use since Feb. 26, 1953.

SN 665,188. Dunlap and Associates, Inc., Stamford, Conn. Filed Apr. 26, 1954.



For Designing Equipment for Industrial Use, for Personnel Evaluation, and for Studies to Better Allow Men To Work With Equipment for More Efficient Production.  
Use since Dec. 17, 1953.



## CLASS 102

SN 656,077. R. M. Hibbs, d. b. a. Mallsales Productions, Philadelphia, Pa. Filed Nov. 9, 1953.

**"Selling Demons"**

For Advertising Services—Namely, Designing, Preparing, and Distributing Advertising Copy and Layouts in Direct Mail Campaigns.

Use since Oct. 15, 1953.

## CLASS 103

SN 666,175. Cook Machinery Co., Inc., Dallas, Tex. Filed May 12, 1954.

**WASHETTE**

Applicant claims ownership of Reg. No. 588,980. For Laundry Services. Use since Oct. 21, 1949.

## CLASS 105

SN 677,594. Mid-States Freight Lines, Inc., Chicago, Ill. Filed Dec. 1, 1954. Sec. 2(f).

**MID-STATES**

For Transporting by Motor Truck General Commodities. Use since 1932.

## TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

## CLASS 1

- 608,157. GLO CHARFIRE AND DESIGN. Arthur G. Meier, d. b. a. Inland Products Co. SN 661,903. Pub. 4-5-55. Filed 3-2-54.  
608,158. DURLON. Mohawk Carpet Mills, Inc. SN 666,372. Pub. 4-5-55. Filed 5-14-54.

## CLASS 2

- 608,159. SIDES TIED. Oskaloosa Manufacturing Company. SN 661,585. Pub. 4-12-55. Filed 2-24-54.  
608,160. SOFIA OF ZELL. The Zell Products Corporation, d. b. a. Zell Products Corp. SN 662,345. Pub. 4-12-55. Filed 2-8-54.  
608,161. POLY-PLY. The Greif Bros. Cooperage Corporation. SN 670,928. Pub. 4-12-55. Filed 8-2-54.  
608,162. PILOT. Marathon Corporation. SN 672,006. Pub. 4-12-55. Filed 8-20-54.

## CLASS 3

- 608,163. TRAVEL-TRIX. Catherine M. de Sanno. SN 668,537. Pub. 4-12-55. Filed 6-21-54.  
608,164. CAPRI. Hickok Manufacturing Co. Inc. SN 670,106. Pub. 3-1-55. Filed 7-16-54.  
608,165. CAPRICE. Nash Inc. SN 671,361. Pub. 2-8-55. Filed 8-9-54.  
608,166. JACQUELINE COCHRAN. R. H. Macy & Co., Inc. SN 671,444. Pub. 3-22-55. Filed 8-10-54.

## CLASS 4

- 608,167. SUR LUSTER AND DESIGN. Joe W. Robinson. SN 662,677. Pub. 4-12-55. Filed 3-15-54.

## CLASS 5

- 608,168. KWIK-FIX. Reading Plastics Co. SN 664,467. Pub. 3-29-55. Filed 4-13-54.  
608,169. TESA AND CIRCLE DESIGN. P. Beiersdorf & Co. A. G. SN 667,288. Pub. 3-29-55. Filed 5-28-54.

## CLASS 6

- 608,170. THE MILDEWTECT KIT. Nuodex Products Co., Inc. SN 667,145. Pub. 4-12-55. Filed 5-26-54.  
608,171. COLORFIXE. H. Kohnstamm & Co., Inc. SN 671,439. Pub. 4-12-55. Filed 8-10-54.  
608,172. SUNOLOX. The Pennsylvania Salt Manufacturing Company. SN 671,666. Pub. 4-12-55. Filed 8-13-54.  
608,173. CHE-PLEX. United Chemical Corporation of New Mexico. SN 671,690. Pub. 4-12-55. Filed 8-13-54.

## CLASS 9

- 608,174. PEERLESS. Stoeger Arms Corporation. SN 659,451. Pub. 4-5-55. Filed 12-24-53.  
608,175. HI-STANDARD AND EAGLE DESIGN. The High Standard Manufacturing Corporation. SN 666,582. Pub. 4-5-55. Filed 5-18-54.

## CLASS 10

- 608,176. FERTIL-ADE. Smith Equipment and Supply Co. SN 648,057. Pub. 1-26-54. Filed 6-1-53.

## CLASS 11

- 608,177. DUPLI-TYPER. Dupli-Typer Company. SN 640,852. Pub. 4-12-55. Filed 1-16-53.  
608,178. A. B. DICK. A. B. Dick Company. SN 660,119. Pub. 3-22-55. Filed 1-26-54.  
608,179. A. B. DICK. A. B. Dick Company. SN 667,789. Pub. 4-5-55. Filed 6-7-54.  
608,180. MIRATEX. The Buckeye Ribbon & Carbon Co. SN 672,217. Pub. 3-29-55. Filed 8-25-54.

## CLASS 12

- 608,181. PALLAGE. Tubewrights Limited. SN 649,333. Pub. 3-15-55. Filed 6-24-53.  
608,182. TUBEWRIGHTS. Tubewrights Limited. SN 649,334. Pub. 3-15-55. Filed 6-24-53.  
608,183. SHURSHADE. Kool Breeze Awning Co., d. b. a. Kool-Breeze Manufacturing Co. SN 658,621. Pub. 4-12-55. Filed 12-28-53.  
608,184. DEMICON CURE-HARD. Frederick R. Demarest, d. b. a. Demarest Engineering Company. SN 659,042. Pub. 3-29-55. Filed 1-6-54.  
608,185. RED BAND AND DESIGN. MacMillan & Bloedel Limited. SN 661,142. Pub. 4-5-55. Filed 2-16-54.  
608,186. TROPIGLAS. Russell Reinforced Plastics Corp. SN 663,749. Pub. 4-5-55. Filed 4-1-54.  
608,187. TRIPLE-TILT. The Little-Beaver Company. SN 665,122. Pub. 4-5-55. Filed 4-23-54.  
608,188. CLEARCO. Laclede-Christy Co. of Pa. SN 666,964. Pub. 4-5-55. Filed 5-24-54.  
608,189. DEK-AID. Asbestolith Manufacturing Corporation. SN 668,136. Pub. 4-5-55. Filed 6-14-54.  
608,190. FLOROK. William Chargar, d. b. a. Chargar Products. SN 668,235. Pub. 4-5-55. Filed 6-15-54.  
608,191. LOUV-AIR. Sconzo & Sons. SN 673,136. Pub. 3-29-55. Filed 9-13-54.  
608,192. DUO-DOR AND DESIGN. The Weather-Proof Company. SN 673,416. Pub. 3-29-55. Filed 9-17-54.  
608,193. FOURSOME. Winthrop Mfg. Co., Inc. SN 673,560. Pub. 3-29-55. Filed 9-21-54.  
608,194. E P AND DESIGN. The Eagle-Picher Co. SN 673,971. Pub. 3-29-55. Filed 9-29-54.  
608,195. VITRI NEER AND DESIGN. The Robinson Brick and Tile Company. SN 674,281. Pub. 4-12-55. Filed 10-4-54.  
608,196. WINDRIFT. Medford Veneer and Plywood Corporation. SN 674,405. Pub. 4-12-55. Filed 10-6-54.  
608,197. WEBCO. American Webco Corporation. SN 674,648. Pub. 4-12-55. Filed 10-12-54.

## CLASS 13

- 608,198. LIFETIME. National Brass Company. SN 619,469. Pub. 4-5-55. Filed 10-1-51.  
608,199. I-C SHU AND DESIGN. Harold A. Norton. SN 638,913. Pub. 4-5-55. Filed 12-3-52.  
608,200. POLECAT. Polecata, Inc. SN 652,970. Pub. 4-5-55. Filed 9-9-53.  
608,201. HALSEY TAYLOR. The Halsey W. Taylor Company. SN 655,612. Pub. 3-22-55. Filed 10-30-53.  
608,202. BRECO. Breco Manufacturing Company, Inc. SN 658,512. Pub. 3-22-55. Filed 12-24-53.  
608,203. PANTHER. Western Plastics Corporation. SN 668,064. Pub. 4-5-55. Filed 6-10-54.  
608,204. BIJUR AND DESIGN. Bijur Lubricating Corporation. SN 668,518. Pub. 4-5-55. Filed 6-21-54.  
608,205. EVEREDY SNORKEL-VENT AND DESIGN. The Everedy Company. SN 670,779. Pub. 4-5-55. Filed 7-29-54.  
608,206. RACINE. Racine Hydraulics & Machinery, Inc. SN 671,586. Pub. 4-5-55. Filed 8-12-54.  
608,207. MERCURY. Merit Enterprises. SN 671,846. Pub. 4-5-55. Filed 8-17-54.  
608,208. WINDSOR. Sears, Roebuck and Co. SN 672,354. Pub. 4-5-55. Filed 8-27-54.  
608,209. HARMONY HOUSE AND DESIGN (REPRESENTATION OF A DOOR). Sears, Roebuck and Co. SN 673,042. Pub. 4-5-55. Filed 9-28-54.



608,210. REPRESENTATION OF A MEGAPHONE. The Fyr-Fyter Company. SN 673,981. Pub. 4-5-55. Filed 9-29-54.

## CLASS 14

608,211. W (FANCIFUL) AND DESIGN. The Wallingford Steel Company. SN 654,433. Pub. 4-19-55. Filed 10-8-53.

608,212. WALLINGFORD STEEL AND DESIGN. The Wallingford Steel Company. SN 654,434. Pub. 4-19-55. Filed 10-8-53.

608,213. REFCO. The Dayton Casting Company. SN 662,611. Pub. 4-12-55. Filed 3-15-54.

608,214. FPM AND CHECK MARK IN DOUBLE CIRCLE. Ferro Corporation. SN 662,620. Pub. 4-19-55. Filed 3-15-54.

608,215. MARATHON. Deutsche Edelstahlwerke Aktiengesellschaft. SN 669,534. Pub. 4-19-55. Filed 7-7-54.

608,216. DEW (GEOMETRICAL DESIGN). Deutsche Edelstahlwerke Aktiengesellschaft. SN 669,535. Pub. 4-12-55. Filed 7-7-54.

## CLASS 15

608,217. "THE LUBE HORMONE." Michael W. Freeman, d. b. a. The Freeman Chemical Company. SN 633,053. Pub. 4-12-55. Filed 7-25-52.

608,218. MANNY MOE & JACK. The Pep Boys—Manny, Moe & Jack. SN 651,723. Pub. 4-5-55. Filed 8-12-53.

608,219. RID-O-SCUM. Chas. F. Kellom & Co., Inc. SN 658,742. Pub. 4-12-55. Filed 12-29-53.

608,220. CAB-O-SIL. Godfrey L. Cabot, Inc. SN 667,215. Pub. 3-29-55. Filed 5-27-54.

608,221. ORGANIZOL. Organizol Corporation. SN 672,346. Pub. 3-29-55. Filed 8-27-54.

608,222. MILE-MAKER. The Ohio Oil Company. SN 672,528. Pub. 3-29-55. Filed 8-31-54.

## CLASS 16

608,223. S.I.P. Standard Industrial Products, Inc. SN 569,484. Pub. 12-30-52. Filed 11-26-48.

608,224. MULTI-COLOR. Fred'k A. Stresen-Reuter, Inc. SN 623,484. Pub. 3-22-55. Filed 1-11-52.

608,225. LIKENESS OF BENJAMIN FRANKLIN ON KEYSTONE DESIGN. Benjamin Franklin Paint and Varnish Co. SN 639,817. Pub. 4-12-55. Filed 12-20-52.

608,226. PRUDENTIAL SILVER STAR PRODUCTS AND DESIGN. William Isenberg. SN 642,279. Pub. 4-5-55. Filed 2-16-53.

608,227. SHUR GLO. James Austin Company. SN 646,258. Pub. 4-5-55. Filed 5-1-53.

608,228. VINYLON 100. M. C. J. Billingham, Inc., d. b. a. Surface Coating Engineers. SN 650,934. Pub. 3-29-55. Filed 7-9-53.

608,229. GARD-WELL AND DESIGN. Gardwell Products Manufacturing Company, to Richard V. Aiello. SN 666,187. Pub. 4-12-55. Filed 5-12-54.

608,230. OSPHO. T. T. Holt, d. b. a. Rustleide Products Company. SN 668,322. Pub. 4-12-55. Filed 6-16-54.

608,231. "300." Seattle Bowling & Billiard Supply, Inc., now by change of name Pacific Bowling & Billiard Co. SN 669,488. Pub. 4-5-55. Filed 7-6-54.

608,232. SINGAPORE. International Paint Company, Inc. SN 671,101. Pub. 4-5-55. Filed 8-4-54.

608,233. HIL-TEX. Hillyard Chemical Company. SN 672,818. Pub. 4-5-55. Filed 9-7-54.

608,234. NAFTEK AND DESIGN. Sears, Roebuck and Co., d. b. a. National Affinities, Pacific Paint & Varnish Co., Etc. SN 673,394. Pub. 4-5-55. Filed 9-17-54.

608,235. KITCHEN COLOR. Wooster Finishes Corporation. SN 673,561. Pub. 4-5-55. Filed 9-21-54.

608,236. KIDIE SPRAY. Sheffield Bronze Paint Corporation. SN 673,774. Pub. 4-5-55. Filed 9-24-54.

## CLASS 19

608,237. SAV-A-LIFE. Stein Bros. Mfg. Co. SN 675,598. Pub. 4-12-55. Filed 10-27-54.

608,238. LIFELINE. Aircraft Belt & Trim Corporation. SN 676,444. Pub. 4-12-55. Filed 11-12-54.

608,239. CYCLE-SCHOOL INDIANAPOLIS "500" AND DESIGN. Skirvin Corporation. SN 677,250. Pub. 4-12-55. Filed 11-24-54.

608,240. EMANCIPATOR. Olsen-Montgomery Yacht Corporation. SN 676,750. Pub. 4-12-55. Filed 11-16-54.

608,241. LOAD-HOG. Danall F. Casper, d. b. a. Suamico Machine & Tool Co. SN 677,032. Pub. 4-12-55. Filed 11-22-54.

608,242. COOLEE AND DESIGN. West Coast Sales & Service Company. SN 677,116. Pub. 4-12-55. Filed 11-22-54.

## CLASS 21

608,243. EPM TUBE PARTS AND DESIGN. Electronic Parts Manufacturing Co., Inc. SN 643,477. Pub. 4-12-55. Filed 3-11-53.

608,244. AMPLICORP. Amplifier Corporation of America. SN 644,487. Pub. 3-22-55. Filed 3-31-53.

608,245. BEL-AIRE. Mitchell Manufacturing Company. SN 652,209. Pub. 3-2-54. Filed 8-24-53.

608,246. ELECTROMASTER. Philco Corporation. SN 655,079. Pub. 4-12-55. Filed 10-20-53.

608,247. LOXSWITCH. Robert B. Denison, d. b. a. R. B. Denison Manufacturing Company. SN 658,101. Pub. 4-12-55. Filed 12-17-53.

608,248. ROTRON AND LETTER "R" (FANCIFUL). Rotron Manufacturing Co., Inc. SN 663,833. Pub. 2-15-55. Filed 4-2-54.

608,249. LUNCH MASTER. The L & W Company. SN 667,565. Pub. 4-5-55. Filed 6-2-54.

608,250. AIRCOSPOT AND DESIGN. Air Reduction Company, Incorporated. SN 671,285. Pub. 4-12-55. Filed 8-9-54.

608,251. TAPETTE. Broadcast Equipment Specialties Corp. SN 674,726. Pub. 4-5-55. Filed 10-13-54.

608,252. ALTIVAR. Rotron Manufacturing Co., Inc. SN 675,662. Pub. 4-5-55. Filed 10-28-54.

## CLASS 23

608,253. ELECTROMATIC. The Mojonner-Dawson Company. SN 578,937. Pub. 3-30-54. Filed 5-16-49.

608,254. FASAN. Rudolf Osberghaus. SN 641,227. Pub. 3-29-55. Filed 8-21-52.

608,255. RYANWIRE AND CABLELAYER AND DESIGN. Francis B. Ryan. SN 641,468. Pub. 3-29-55. Filed 1-28-53.

608,256. "UNIFILL." Carlson Trading Corporation. SN 642,617. Pub. 7-13-54. Filed 2-24-53.

608,257. FORFEX. Elsemann G. m. b. H. SN 642,719. Pub. 4-12-55. Filed 2-24-53.

608,258. LOEWE AND DESIGN. Ludw. Loewe & Co. Aktiengesellschaft. SN 643,913. Pub. 4-5-55. Filed 3-19-53.

608,259. TRISON. Trison Manufacturing Co. SN 648,815. Pub. 3-29-55. Filed 6-15-53.

608,260. REMEMBRANCE. Brown & Bigelow. SN 659,983. Pub. 4-19-55. Filed 1-25-54.

608,261. MECH-TRONIC. Benjamin L. Davis. SN 662,085. Pub. 4-19-55. Filed 3-5-54.

608,262. HYDRO-MAGIC. Eversharp, Inc. SN 663,774. Pub. 4-5-55. Filed 4-2-54.

608,263. PRATT PREFERRED MUFFLER AND DESIGN. Maremont Automotive Products, Inc. SN 666,037. Pub. 3-29-55. Filed 5-10-54.

608,264. DUST KING. D. B. Smith & Company, Inc. SN 666,691. Pub. 3-1-55. Filed 5-19-54.

608,265. SMITH GARDEN KING. D. B. Smith & Company, Inc. SN 666,692. Pub. 3-1-55. Filed 5-19-54.

608,266. AZOGRAPH. A. B. Dick Company. SN 667,792. Pub. 4-5-55. Filed 6-7-54.

608,267. PRESSWELD. William H. Mead, d. b. a. Pressteel Company. SN 667,812. Pub. 3-29-55. Filed 6-7-54.

608,268. VACGRUV. Vaco Products Company. SN 670,077. Pub. 3-29-55. Filed 7-15-54.

608,269. WONDERSEW. Best-Built Sewing Machine Supply Co., Inc. SN 670,088. Pub. 3-29-55. Filed 7-16-54.

608,270. DOLLY DAVIS. H. B. Davis Corp. SN 670,094. Pub. 3-29-55. Filed 7-16-54.

608,271. DUROMASTER. Duro Metal Products Co. SN 670,339. Pub. 3-29-55. Filed 7-21-54.

608,272. SOCKETTEER. Penens Corporation. SN 670,499. Pub. 3-29-55. Filed 7-23-54.

608,273. SKY CLIMBER. Armth Corporation. SN 670,528. Pub. 3-29-55. Filed 7-26-54.

608,274. HW (DESIGN OF A DIAMOND). Bendix-Westinghouse Automotive Air Brake Company. SN 670,534. Pub. 3-29-55. Filed 7-26-54.

608,275. HIRED-MAN AND DESIGN. Metalplax Corporation. SN 670,601. Pub. 3-29-55. Filed 7-26-54.

## CLASS 24

608,276. DOT'S . . . DRYERS. Dorothy Jacobson. SN 624,784. Pub. 4-19-55. Filed 2-11-52.

608,277. PAD-O-FOAM AND DESIGN. Trio Novelty Mfg. Corp. SN 661,243. Pub. 12-28-54. Filed 2-17-54.

608,278. DEARBORN AND DESIGN. Dearborn Stove Company. SN 663,002. Pub. 11-16-54. Filed 3-22-54.

## CLASS 25

608,279. GAR-LOK AND DESIGN. R. & E. Engineering Co. SN 659,566. Pub. 4-19-55. Filed 1-15-54.

## CLASS 26

608,280. PHOTOMAT. International Mutoscope Corporation. SN 637,445. Pub. 2-8-55. Filed 10-31-52.

608,281. SPECTROLITE. Timmons & Charles. SN 637,960. Pub. 4-12-55. Filed 11-12-52.

608,282. CALI-BLOCKS AND DESIGN. F. A. Ringler Company. SN 648,797. Pub. 4-12-55. Filed 6-15-53.

608,283. MARX-ALL ETC. AND DESIGN. The Marx-All Corporation. SN 652,961. Pub. 4-19-55. Filed 9-9-53.

608,284. HILLS BROS COFFEE AND DESIGN. Hills Bros. Coffee, Inc. SN 656,307. Pub. 4-12-55. Filed 11-13-53.

608,285. OZACHROME VIEWFOIL. General Aniline & Film Corporation. SN 656,715. Pub. 4-5-55. Filed 11-20-53.

608,286. TELEVIEW. Globe Slicing Machine Co., Inc. SN 657,424. Pub. 4-12-55. Filed 12-4-53.

608,287. DARCVIEW. Greene Dental Products. SN 658,279. Pub. 4-5-55. Filed 12-21-53.

608,288. VANDYKE. Eugene Dietzgen Co. SN 659,463. Pub. 4-12-55. Filed 1-14-54.

608,289. BALLET BALANCE. Donald Seifert, d. b. a. Seifert Manufacturing Company. SN 662,261. Pub. 4-5-55. Filed 3-8-54.

608,290. PLAST-A-DRAIN AND DESIGN OF ARROWS. Vernon W. Powell, d. b. a. Powell Manufacturing Co. SN 664,972. Pub. 4-5-55. Filed 4-21-54.

608,291. AUTOMATIC COLOR CAROUSEL. Standard-Toch Chemicals, Inc. SN 666,604. Pub. 4-5-55. Filed 5-18-54.

608,292. COMPUTROL. The Austin Company. SN 667,075. Pub. 4-19-55. Filed 5-26-54.

608,293. FILTEROID. Comptone Company, Ltd. SN 667,296. Pub. 4-19-55. Filed 5-28-54.

608,294. JECO! Jarvis Electronics Corporation. SN 667,637. Pub. 4-12-55. Filed 6-3-54.

608,295. PARALLEL-GLIDER. Mepro Company. SN 667,643. Pub. 4-5-55. Filed 6-3-54.

608,296. DELTATHERM. Technical Equipment Corporation. SN 669,826. Pub. 4-5-55. Filed 7-12-54.

608,297. POLAROID. Polaroid Corporation. SN 670,230. Pub. 4-5-55. Filed 7-19-54.

608,298. RCA AND DESIGN. Radio Corporation of America. SN 670,855. Pub. 4-19-55. Filed 7-30-54.

608,299. DR. Weston Electrical Instrument Corporation. SN 671,698. Pub. 4-19-55. Filed 8-13-54.

608,300. BUSINESS BUILDERS. Brown & Bigelow. SN 671,716. Pub. 4-19-55. Filed 8-16-54.

608,301. ROLLIN AND DESIGN. Byron Jackson Co. SN 671,719. Pub. 4-19-55. Filed 8-16-54.

608,302. CRONAR. E. I. du Pont de Nemours and Company. SN 672,061. Pub. 4-19-55. Filed 8-23-54.

608,303. EMP. Powers-Samas Accounting Machines Limited. SN 672,098. Pub. 4-19-55. Filed 8-23-54.

608,304. OPTIKON. Styl-Optics, Inc. SN 672,543. Pub. 4-19-55. Filed 8-31-54.

608,305. PRONTOR. Alfred Gauthier, G. m. b. H. SN 672,771. Pub. 4-19-55. Filed 8-23-54.

## CLASS 27

608,306. ZODIAC ROTOGRAPHIC. Calame et Cie. SN 663,431. Pub. 4-19-55. Filed 3-29-54.

608,307. RENCO. Rensie Watch Company, Inc. SN 672,351. Pub. 4-19-55. Filed 8-27-54.

## CLASS 28

608,308. AIR-LUME. Viking Industries, Ltd. SN 658,760. Pub. 4-19-55. Filed 12-29-53.

608,309. MONTE CARLO. Hickok Manufacturing Co., Inc. SN 670,107. Pub. 3-29-55. Filed 7-16-54.

608,310. MAGNACLIP AND DESIGN. H. Horwitz Co. SN 670,682. Pub. 3-29-55. Filed 7-27-54.

608,311. ANGEL. Gemex Company. SN 674,741. Pub. 3-29-55. Filed 10-13-54.

## CLASS 30

608,312. CARNIVAL. The Quaker Oats Company. SN 670,007. Pub. 3-29-55. Filed 7-14-54.

608,313. TABLE TO TERRACE. Stetson China Co., Inc. SN 670,070. Pub. 4-19-55. Filed 7-15-54.

608,314. ANNIE OAKLEY. Annie Oakley Enterprises, Inc. SN 670,222. Pub. 4-19-55. Filed 7-19-54.

## CLASS 31

608,315. VAPE-SORBER AND DESIGN. Selas Corporation of America. SN 636,095. Pub. 4-5-55. Filed 10-2-52.

608,316. S. C. A. B. Collins Enterprises, Inc. SN 667,782. Pub. 4-5-55. Filed 6-7-54.

## CLASS 33

608,317. PLANIPLATE ETC. AND DESIGN. Union Commerciale des Glaceries Belges, Société Anonyme. SN 667,650. Pub. 4-19-55. Filed 6-3-54.

608,318. ANNIE OAKLEY. Annie Oakley Enterprises, Inc. SN 670,223. Pub. 4-19-55. Filed 7-19-54.

608,319. LG. Liberty Glass Company. SN 671,443. Pub. 4-19-55. Filed 8-10-54.

## CLASS 34

608,320. SEALWELD AND DESIGN. S. Blickman, Inc. SN 614,742. Pub. 4-12-55. Filed 6-5-51.

608,321. GULF STREAM (FANCIFUL). Aldrich Company. SN 637,853. Pub. 4-12-55. Filed 11-10-52.

608,322. REFLECT-O-DOT. Peterson Manufacturing Company, Inc. SN 639,773. Pub. 4-12-55. Filed 12-19-52.

608,323. CHARCO-SCREEN. Cribben and Sexton Company. SN 643,081. Pub. 4-5-55. Filed 3-4-53.

608,324. PATROL. The Patrol Valve Company. SN 643,503. Pub. 4-12-55. Filed 3-11-53.

608,325. SAN FERNANDO AND DESIGN. Vimcar Sales Co. SN 657,188. Pub. 4-12-55. Filed 11-30-53.

608,326. SMOKADERO. Smoke Cookery Inc. SN 659,323. Pub. 4-12-55. Filed 1-11-54.

608,327. HUNTER SINCE 1886 AND DESIGN. Hunter Fan and Ventilating Company. SN 659,553. Pub. 4-5-55. Filed 1-15-54.

608,328. KEL-GARD. Michael G. Kelakos, d. b. a. The Avenir Company. SN 666,669. Pub. 4-5-55. Filed 5-19-54.

## CLASS 35

608,329. SAN FERNANDO AND DESIGN. Vimcar Sales Co. SN 657,187. Pub. 4-5-55. Filed 11-30-53.

608,330. K & M REST IN ASBESTOS AND DESIGN. Keasbey & Mattison Company. SN 674,976. Pub. 4-5-55. Filed 10-18-54.

608,331. TRACTION ROCK. The Firestone Tire & Rubber Company. SN 675,140. Pub. 4-5-55. Filed 10-20-54.



- 608,332. MOHAWK MOTRAC CHIEF AND INDIAN DESIGN. The Mohawk Rubber Company. SN 675,218. Pub. 4-5-55. Filed 10-21-54.
- 608,333. M. S. I. The General Tire & Rubber Company. SN 676,372. Pub. 4-5-55. Filed 11-10-54.
- 608,334. HY-T AND DESIGN. The Goodyear Tire & Rubber Company. SN 676,625. Pub. 4-12-55. Filed 11-15-54.
- 608,335. PACIFIC TIRES AND DESIGN. Pacific Tire & Rubber Company. SN 676,830. Pub. 4-12-55. Filed 11-17-54.
- 608,336. CALIFORNIAN. Pacific Tire & Rubber Co. SN 676,831. Pub. 4-12-55. Filed 11-17-54.
- 608,337. WINTER-MASTER. Cooper Tire & Rubber Company. SN 676,872. Pub. 4-12-55. Filed 11-18-54.

## CLASS 37

- 608,338. A B C AND DESIGN. Valley Paper Company. SN 527,597. Pub. 9-28-54. Filed 7-5-47.
- 608,339. CALENDARER. Columbian Art Works, Inc. SN 668,731. Pub. 4-5-55. Filed 6-23-54.
- 608,340. STRIPED MAPLE. Gulf States Paper Corporation. SN 673,024. Pub. 4-5-55. Filed 9-10-54.
- 608,341. NEWCO. Purlan Stationery Company, Inc. SN 674,188. Pub. 4-5-55. Filed 10-1-54.
- 608,342. TUFTED. House Products Corporation. SN 674,247. Pub. 4-5-55. Filed 10-4-54.
- 608,343. UNION 110. Eberhard Faber Pencil Company. SN 674,377. Pub. 4-5-55. Filed 10-6-54.
- 608,344. ROGERSNAP. Rogers Company, Inc. SN 674,419. Pub. 4-5-55. Filed 10-6-54.

## CLASS 38

- 608,345. SOFT TOUCH AND DESIGN. James Dishian. SN 661,861. Pub. 4-12-55. Filed 3-1-54.
- 608,346. LBP IN A CIRCLE DESIGN. The Lord Baltimore Press, Incorporated. SN 664,337. Pub. 4-12-55. Filed 4-12-54.
- 608,347. NATIONAL BIOGRAPHIC. American Institute of Management. SN 670,449. Pub. 4-12-55. Filed 7-23-54.
- 608,348. CATTLE TATTLE. Grand Duchess Steaks, Inc. SN 671,643. Pub. 4-12-55. Filed 8-13-54.
- 608,349. REPRESENTATION OF COW. Grand Duchess Steaks, Inc. SN 671,644. Pub. 4-12-55. Filed 8-13-54.
- 608,350. BETTER HOMES. Meredith Publishing Company. SN 674,604. Pub. 4-12-55. Filed 10-11-54.
- 608,351. THE CHEMICAL DIGEST. Foster D. Snell, Inc. SN 674,906. Pub. 4-12-55. Filed 10-15-54.

## CLASS 39

- 608,352. TODDLER CRAFT WITH MIRACLE HEM. Toddler Craft Co. SN 630,689. Pub. 4-12-55. Filed 6-3-52.
- 608,353. TEENETTES AND DESIGN. Weymouth Shoe Co. SN 633,897. Pub. 4-5-55. Filed 8-13-52.
- 608,354. TEENSWCETTES (FANCIFUL). Weymouth Shoe Co. SN 633,898. Pub. 4-5-55. Filed 8-13-52.
- 608,355. GRANADA. Diamond Hosiery Corp. SN 639,213. Pub. 4-5-55. Filed 12-9-52.
- 608,356. SOLEX. Brooklyn Belt Company. SN 643,533. Pub. 4-12-55. Filed 3-12-53.
- 608,357. WHITTLE-MIDDLE. Kabo, Inc. SN 644,763. Pub. 4-12-55. Filed 4-6-53.
- 608,358. MACY'S RUGBY. R. H. Macy & Co., Inc. SN 651,456. Pub. 4-5-55. Filed 8-6-53.
- 608,359. TRIOMPHE ANTI. Société à Responsabilité Limitée dite: Manufactures de Senones (Vosges). SN 653,038. Pub. 3-29-55. Filed 9-10-53.
- 608,360. PACE CONTINENTALS. Frank Pace Co. SN 653,393. Pub. 4-12-55. Filed 9-18-53.
- 608,361. TRIOMPHE COUTURE. Société à Responsabilité Limitée dite: Manufactures de Senones (Vosges). SN 654,005. Pub. 4-12-55. Filed 9-30-53.
- 608,362. A JANE PARKER JUNIOR. Jane Parker, Inc. SN 656,586. Pub. 4-12-55. Filed 11-18-53.
- 608,363. TEA ROSE. Interstate Dry Goods Syndicate. SN 661,341. Pub. 4-12-55. Filed 2-19-54.

- 608,364. DOMINO AND DESIGN (REPRESENTATION OF HALF-MASK). Jacobovits & Sons Co. SN 664,942. Pub. 4-12-55. Filed 4-21-54.
- 608,365. MAID O' MIST AND DESIGN (REPRESENTATION OF HUMAN FEMALE PROFILES). Buffalo Wholesale Dry Goods Co. SN 665,013. Pub. 4-12-55. Filed 4-22-54.
- 608,366. MAGIKNEE. Continental Overall Company. SN 665,758. Pub. 4-5-55. Filed 5-5-54.
- 608,367. THE WEATHERNECK. White Stag Mfg. Co. SN 665,876. Pub. 4-12-55. Filed 5-6-54.
- 608,368. SUREGUARD SHOES FOR INDUSTRY AND DESIGN. Miller Industrial Corporation. SN 666,859. Pub. 4-12-55. Filed 5-21-54.
- 608,369. MANGEL'S AND DESIGN. Mangel Stores, Inc. SN 667,723. Pub. 4-5-55. Filed 6-4-54.
- 608,370. LADY RENLYN. Lady Renlyn, Ltd. SN 668,101. Pub. 4-12-55. Filed 6-11-54.
- 608,371. MAVERICK. Blue Bell, Inc. SN 668,434. Pub. 4-12-55. Filed 6-18-54.
- 608,372. CONVOY STEEL TOE SAFETY SHOES AND DESIGN. International Shoe Company. SN 668,905. Pub. 4-5-55. Filed 6-25-54.
- 608,373. THE BOW HUNTER. Huth-James Shoe Inc. SN 670,835. Pub. 4-12-55. Filed 7-30-54.
- 608,374. KOOL-DRYE. Modella Manufacturing Company. SN 672,166. Pub. 4-5-55. Filed 8-24-54.
- 608,375. EVERTUFF. M. Beckerman & Sons, Inc. SN 672,559. Pub. 4-5-55. Filed 9-1-54.
- 608,376. FLEXI-BELT. Tex Tan of Yoakum. SN 672,760. Pub. 4-5-55. Filed 9-3-54.
- 608,377. OLD-SOFTIE. Tex Tan of Yoakum. SN 672,761. Pub. 4-5-55. Filed 9-3-54.
- 608,378. TRIM-TURN. Tex Tan of Yoakum. SN 672,762. Pub. 4-5-55. Filed 9-3-54.
- 608,379. VITASOX. The Coward Shoe, Inc. SN 672,870. Pub. 4-5-55. Filed 9-8-54.
- 608,380. "8/80." D. S. & W. Hosiery Co., Inc. SN 672,871. Pub. 4-5-55. Filed 9-8-54.
- 608,381. "1/10." D. S. & W. Hosiery Co., Inc. SN 672,872. Pub. 4-5-55. Filed 9-8-54.
- 608,382. "7/70." D. S. & W. Hosiery Co., Inc. SN 672,873. Pub. 4-5-55. Filed 9-8-54.
- 608,383. PAVLOVAS. Edward D. Caso. SN 673,005. Pub. 4-12-55. Filed 9-10-54.

## CLASS 42

- 608,384. LINENCRAFT. Jerry Rossman Corporation. SN 666,388. Pub. 4-12-55. Filed 5-14-54.
- 608,385. "CREPE REMARQUE." The Barblizon Corporation. SN 669,851. Pub. 4-12-55. Filed 7-13-54.
- 608,386. CALDALE. Callaway Mills Company. SN 670,164. Pub. 4-12-55. Filed 7-19-54.
- 608,387. "LOCKNOT." The Linen Thread Co., Inc. SN 670,203. Pub. 4-12-55. Filed 7-19-54.
- 608,388. WUNDA VELVET. Belrug Mills of South Carolina. SN 672,623. Pub. 4-12-55. Filed 9-2-54.
- 608,389. VICU-MOR. Einiger Mills, Inc. SN 672,648. Pub. 4-12-55. Filed 9-2-54.
- 608,390. RINKONO. Dumari Textile Co., Inc. SN 672,876. Pub. 4-12-55. Filed 9-8-54.

## CLASS 43

- 608,391. SYNFOAM. Synfoam Yarns, Inc. SN 669,296. Pub. 4-12-55. Filed 7-1-54.
- 608,392. HOME SPUN AND DESIGN. A. & H. Shillman Company, Inc. SN 670,314. Pub. 4-12-55. Filed 7-20-54.

## CLASS 44

- 608,393. SEAL-TITE. Allied Latex Corporation. SN 663,993. Pub. 4-5-55. Filed 4-6-54.
- 608,394. SR SEAMLESS AND DESIGN. The Seamless Rubber Company. SN 666,309. Pub. 4-5-55. Filed 5-13-54.
- 608,395. FEDERAL PROSTHETICS INC. DISTINCTIVE DENTAL RESTORATIONS AND DESIGN. Federal Prosthetics, Inc. SN 668,314. Pub. 4-5-55. Filed 6-16-54.

## CLASS 45

- 608,396. REPRESENTATION OF SUN WITH SMILING FACE. Mission Dry Corporation. SN 641,789. Pub. 4-12-55. Filed 2-5-53.
- 608,397. C & C SUPER COOLA AND DESIGN. Cantrell & Cochrane Corporation. SN 647,596. Pub. 4-12-55. Filed 5-25-53.

## CLASS 46

- 608,398. BENSODORP. Bensodorp, Inc., to Bensodorp, N. V. SN 571,840. Pub. 4-12-55. Filed 1-8-49.
- 608,399. "TURKS." Price Candy Company. SN 575,159. Pub. 2-6-51. Filed 3-9-49.
- 608,400. SILVER STAR AND DESIGN. Prince Ice Cream Castles, Inc. SN 577,984. Pub. 7-21-53. Filed 4-29-49.
- 608,401. DIXIE. Dixie Mills Company. SN 589,958. Pub. 4-5-55. Filed 12-27-49.
- 608,402. TABASCO. McIlhenny Company. SN 620,969. Pub. 4-12-55. Filed 11-7-51.
- 608,403. BEER KAESE. Milwaukee Cheese Co. SN 622,116. Pub. 4-5-55. Filed 12-5-51.
- 608,404. YIPPEE. Cho-Cho Company. SN 628,395. Pub. 4-12-55. Filed 4-21-52.
- 608,405. PRODUCER. Henry Fruechtenicht Co. Inc. SN 642,747. Pub. 7-13-54. Filed 2-25-53.
- 608,406. ALCYON. Morris April Bros. SN 646,103. Pub. 4-12-55. Filed 4-29-53.
- 608,407. ROYAL HAWAIIAN. Castle & Cooke, Limited. SN 649,123. Pub. 4-5-55. Filed 6-22-53.
- 608,408. DILLY. D & F Enterprises. SN 652,510. Pub. 4-12-55. Filed 8-31-53.
- 608,409. BRILL'S VELTEX FOR VELVET TEXTURED BREAD AND DESIGN. H. C. Brill Company, Inc. SN 653,898. Pub. 4-12-55. Filed 9-29-53.
- 608,410. REPRESENTATION OF A TURKEY WITH BOW AND ARROW IN A CIRCLE. B. Russell Thrun, d. b. a. Strongbow Turkey Farm and Inn. SN 655,802. Pub. 4-5-55. Filed 11-3-53.
- 608,411. SLIM CHEEZ. Bellbrook Dairies, Inc. SN 657,105. Pub. 4-12-55. Filed 11-30-53.
- 608,412. DOLCOTONE. Dodge & Olcott, Inc. SN 658,975. Pub. 4-12-55. Filed 1-5-54.
- 608,413. BUTTATONE. Dodge & Olcott, Inc. SN 659,043. Pub. 4-12-55. Filed 1-6-54.
- 608,414. DUTCH OVEN AND DESIGN. Dutch Oven, Inc., to Gray Drug Stores, Inc. SN 659,608. Pub. 4-12-55. Filed 1-18-54.
- 608,415. DUTCH OVEN. Dutch Oven, Inc., also d. b. a. Dutch Oven Ice Cream and Candy Co., to Gray Drug Stores, Inc. SN 659,853. Pub. 4-12-55. Filed 1-21-54.
- 608,416. DAWN VALLEY. Producers Poultry Corp. SN 659,891. Pub. 4-5-55. Filed 1-21-54.
- 608,417. LA CRESCENTA. M. G. Recksiek. SN 660,749. Pub. 4-12-55. Filed 2-8-54.
- 608,418. "DARCCO." Fred Wolferman, Inc. SN 661,533. Pub. 4-12-55. Filed 2-23-54.
- 608,419. "KEEPS." Haelan Laboratories, Inc. SN 662,733. Pub. 4-12-55. Filed 3-16-54.
- 608,420. STA-TRIM. Milton Sostrin, d. b. a. Sostrin Food Prod. SN 663,222. Pub. 4-5-55. Filed 3-24-54.
- 608,421. MADE WITH LOVING CARE IN HEART DESIGN. The John Mullane Co. SN 663,494. Pub. 4-12-55. Filed 3-29-54.
- 608,422. TABASCO AND DESIGN. McIlhenny Company. SN 663,815. Pub. 3-1-55. Filed 4-2-54.
- 608,423. BAMBINO AND DESIGN. California Turkey Growers Association. SN 664,129. Pub. 4-12-55. Filed 4-8-54.
- 608,424. EMPSON'S. Kuner-Empson Company. SN 664,231. Pub. 4-12-55. Filed 4-9-54.
- 608,425. KUNER'S. Kuner-Empson Company. SN 664,233. Pub. 4-12-55. Filed 4-9-54.
- 608,426. MARPUFF. The Procter & Gamble Company. SN 665,228. Pub. 4-5-55. Filed 4-26-54.

- 608,427. FAIRFIELD. S. H. Kress and Company. SN 666,034. Pub. 4-5-55. Filed 5-10-54.
- 608,428. HIL-LAU. Norman W. Hill, d. b. a. M. J. Laughery Company. SN 667,310. Pub. 4-12-55. Filed 5-28-54.
- 608,429. BEEFCAKE. Nutrena Mills, Inc. SN 667,428. Pub. 4-5-55. Filed 6-1-54.
- 608,430. "SILENT SCENT." Nutrena Mills, Inc. SN 667,431. Pub. 4-5-55. Filed 6-1-54.
- 608,431. LIRIO. Gehl's Guernsey Farms, Incorporated. SN 669,071. Pub. 4-12-55. Filed 7-27-54.
- 608,432. SALMON DERBY AND DESIGN (MAN AND FISH). Whiz Fish Products Company, Inc., also d. b. a. Whiz Fish Products Co. SN 669,515. Pub. 4-5-55. Filed 7-6-54.
- 608,433. WINDY WOOD FARM. Windy Wood Farm. SN 669,642. Pub. 4-12-55. Filed 7-8-54.
- 608,434. AUNT WINNIE'S AND DESIGN (WOMAN AND STOVE). Aunt Winnie's, Inc. SN 669,654. Pub. 4-5-55. Filed 7-9-54.
- 608,435. DINNER TIME. Trenton Foods, Inc. SN 670,632. Pub. 4-12-55. Filed 7-26-54.
- 608,436. POODLE PRODUCTS AND DESIGN (REPRESENTATION OF A POODLE DOG). Poodle Products. SN 670,973. Pub. 4-5-55. Filed 8-2-54.
- 608,437. OTSEGO. Hubbard Milling Company. SN 671,346. Pub. 4-5-55. Filed 8-9-54.
- 608,438. FRUIT BOWL. Earl Nordberg. SN 671,365. Pub. 4-5-55. Filed 8-9-54.
- 608,439. FULL MEASURE. J. T. Gibbons, Inc. SN 671,428. Pub. 4-12-55. Filed 8-10-54.
- 608,440. CHICKEN DESIGN. Rockingham Poultry Marketing Cooperative, Inc. SN 671,962. Pub. 4-12-55. Filed 8-19-54.
- 608,441. COTTON CLUB. Anheuser-Busch, Incorporated. SN 672,213. Pub. 4-5-55. Filed 8-25-54.
- 608,442. BLUE BONNET. Standard Brands Incorporated. SN 672,256. Pub. 4-12-55. Filed 8-25-54.
- 608,443. MOTHER LEONE'S SINCE 1906 ETC. AND DESIGN. Celestine J. Leone. SN 672,299. Pub. 4-12-55. Filed 8-26-54.
- 608,444. SNELLING'S AND DESIGN (REPRESENTATION OF A BONE). Snelling Dog Food Company. SN 672,318. Pub. 4-5-55. Filed 8-26-54.
- 608,445. QUEEN'S GUARD. Fremont Produce Company. SN 673,016. Pub. 4-12-55. Filed 9-10-54.
- 608,446. FREMONT PEAK. Fremont Produce Company. SN 673,017. Pub. 4-12-55. Filed 9-10-54.
- 608,447. ONE-STEP. Gladness Bakeries, Incorporated, d. b. a. One-Step Products. SN 673,175. Pub. 4-12-55. Filed 9-14-54.
- 608,448. CATALINA MINTS. The May Department Stores Company, d. b. a. May Co. SN 673,536. Pub. 4-12-55. Filed 9-21-54.
- 608,449. MOBY DICK. Pacific Sea Products, Inc. SN 673,541. Pub. 4-12-55. Filed 9-21-54.
- 608,450. OVEN-PROOF. Bay State Milling Co. SN 673,721. Pub. 4-12-55. Filed 9-24-54.

## CLASS 49

- 608,451. "PINCH." Haig & Haig Limited. SN 634,533. Pub. 4-12-55. Filed 8-27-52.

## CLASS 50

- 608,452. GREEN THUMB. Green Thumb Products. SN 635,649. Pub. 4-5-55. Filed 9-23-52.
- 608,453. NECSCO. New England Church Supply Co., Inc. SN 639,142. Pub. 4-5-55. Filed 12-6-52.
- 608,454. SANTA'S TRACKS. Brownie Corporation. SN 654,789. Pub. 4-5-55. Filed 10-15-53.
- 608,455. POLY-SEAL. The Poly-Seal Corporation. SN 657,071. Pub. 6-15-54. Filed 11-27-53.
- 608,456. POLY-SEAL AND DESIGN. The Poly-Seal Corporation. SN 657,072. Pub. 6-15-54. Filed 11-27-53.



- 608,457. DECO-RITE. J. H. Miller Mfg. Corporation. SN 661,480. Pub. 4-5-55. Filed 2-23-54.  
 608,458. ALL-CRAFT. John Tschanz, d. b. a. All-Craft Mfg. Co. SN 666,996. Pub. 4-5-55. Filed 5-24-54.

## CLASS 51

- 608,459. COLOR-NET. Lee Limited. SN 664,159. Pub. 4-12-55. Filed 4-8-54.  
 608,460. ESTODERME YOUTH-DEW. Estée Lauder, d. b. a. Estée Lauder Cosmetic Co. SN 664,870. Pub. 4-12-55. Filed 4-20-54.  
 608,461. FRISCODENT. Ferdinand Mühlens, d. b. a. The Eau de Cologne- & Parfümerie-Fabrik Glockengasse No. 4711, gegenüber der Pferdepost von Ferd. Mühlens. SN 669,905. Pub. 4-12-55. Filed 7-13-54.  
 608,462. SUDDEN DATE. James I. Younghusband, to Saint Cornelius the Centurion Chapel of Valley Forge Military Academy. SN 669,956. Pub. 4-12-55. Filed 7-13-54.  
 608,463. NU-LAN. Lucky Tiger Manufacturing Co. SN 672,423. Pub. 4-12-55. Filed 8-30-54.

## CLASS 52

- 608,464. LANOLOC. Rilling Dermetics Company. SN 638,015. Pub. 12-15-53. Filed 11-13-52.  
 608,465. LIQUID HAIR. Post Institute, Inc. SN 648,949. Pub. 4-5-55. Filed 6-17-53.

- 608,466. ST. AUBREY. Nigel-Aubrey-Jones. SN 650,862. Pub. 4-12-55. Filed 7-27-53.  
 608,467. WHITE-GLO ETC. AND DESIGN. The Barcolene Company. SN 654,300. Pub. 4-5-55. Filed 10-7-53.  
 608,468. NZM. Medimetics, Inc. SN 659,728. Pub. 4-12-55. Filed 1-19-54.  
 608,469. Z-4. U S Chemical & Supply Co. SN 663,405. Pub. 4-5-55. Filed 3-26-54.  
 608,470. MC-3. The Pennsylvania Salt Manufacturing Company. SN 664,695. Pub. 4-5-55. Filed 4-16-54.  
 608,471. RESCUE. Russell B. Kingman. SN 666,029. Pub. 4-12-55. Filed 5-10-54.  
 608,472. SUPER WET. Dico Company. SN 666,269. Pub. 4-12-55. Filed 5-13-54.  
 608,473. TROXIDE. MacDermid Incorporated. SN 668,847. Pub. 4-12-55. Filed 6-24-54.  
 608,474. WETSPLO. Riverside Manufacturing Company. SN 670,238. Pub. 3-29-55. Filed 7-19-54.  
 608,475. MOONLIGHT MIST. H. R. Laboratories, Inc., also d. b. a. Gourlielli and as Gourlielli, Division of H. R. Laboratories, Inc. SN 670,478. Pub. 3-29-55. Filed 7-23-54.  
 608,476. M-O-LENE. Walter Ratner, d. b. a. Grant Chemical Company. SN 671,525. Pub. 4-5-55. Filed 8-11-54.  
 608,477. OMO. Léver Brothers Company. SN 671,838. Pub. 4-5-55. Filed 8-17-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 1

- 608,478. Funk Brothers Seed Company, Bloomington, Ill., now by change of name Funk Bros. Seed Co. SN 669,611. Filed 7-8-54.



**BALANCED 5-STAR PERFORMANCE** is the product of more than 35 years of continuing Research in every major corn growing area of the United States and Canada

Consistently Good YEAR AFTER YEAR

Registration rights are not claimed in any words except "Funk's," "G," and "5-Star," apart from the mark as a whole, and with reservation of all common law rights therein.  
 For Hybrid Seed Corn for Planting.  
 Use since June 4, 1953.

## CLASS 6

- 608,479. Tom J. Wolfe, d. b. a. Eflow Company, Waco, Tex. SN 637,676. Filed P. R. 11-5-52. Am. S. R. 6-7-54.

**Green glo**

For Emulsions or Dispersions Used in Spraying Plants To Impart a Gloss to Their Foliage.  
 Use since May 8, 1952.

## CLASS 7

- 608,480. U. S. Cordage Co., Inc., New York, N. Y. SN 624,908. Filed P. R. 2-13-52. Am. S. R. 9-27-54.



For Twines and Ropes Manufactured From Fibre and Wire.  
 Use since May 1950.

## CLASS 18

- 608,481. Western Condensing Company, Petaluma, Calif. SN 643,255. Filed P. R. 3-6-53. Am. S. R. 10-6-54.



For Sow's Milk Replacement Used as a Feeding Supplement.  
 Use since Feb. 2, 1953.

## CLASS 19

- 608,482. Joel S. Salzburg, Rockville Centre, N. Y. SN 642,842. Filed P. R. 2-26-53. Am. S. R. 5-20-54.

**DRIV-ENT VEEES**

For Rain Interceptors To Be Attached to Motor Vehicle Bodies.  
 Use since Dec. 2, 1952.

## CLASS 21

- 608,483. The Associated Merchandising Corporation, New York, N. Y. SN 677,477. Filed 11-30-54.

**Mansfield**

For Vacuum Cleaners, Television Sets, Electric Phonographs, Electric Ranges and Electric Toasters.  
 Use since May 1953.

## CLASS 22

- 608,484. Winslow Enterprises, Inc., Minneapolis, Minn. SN 640,875. Filed P. R. 1-16-53. Am. S. R. 9-17-54.

**BING O BALL**

For Game Comprising a Game Card on Which the Moves Are Controlled by the Plays in an Actual Ball Game Being Played.  
 Use since on or about Oct. 1, 1951.

- 608,485. Wham-O Powermaster Corporation, d. b. a. Wham-O Manufacturing Company, Alhambra, Calif. SN 660,097. Filed P. R. 1-25-54. Am. S. R. 1-18-55.

**MALAYAN**

For Throwing Knives Used for Amusement.  
 Use since on or about Jan. 2, 1950.

- 608,486. Ideal Toy Corporation, Hollis, N. Y. SN 662,736. Filed P. R. 3-16-54. Am. S. R. 3-10-55.

**SUPER WALKER**

For Dolls.  
 Use since Feb. 25, 1954.

- 608,487. American Toy and Furniture Company, Inc., Chicago, Ill. SN 665,546. Filed P. R. 5-3-54. Am. S. R. 4-20-55.

**TEACH-N-FUN**

For Educational Toys—Namely, Tool Chests Containing Tools, Woodburning Sets, Metal Tapping Sets, Work Benches, Play Benches, Pounding Boards, Wood Wagons, Ironing Boards, Telephones, Sand Pen Sets, Metal Stoves, Push Toys, and Play Lawn Mowers.  
 Use since Mar. 1, 1954.

## CLASS 23

- 608,488. Gellman Manufacturing Co., Rock Island, Ill. SN 642,631. Filed P. R. 2-24-53. Am. S. R. 12-7-54.

**MAGIC NEEDLE**

For Attachment for Domestic Sewing Machines for Controlling Movement of Material To Be Sewed.  
 Use since Dec. 17, 1952.

- 608,489. Spaulding Industries, Inc., Chicago, Ill. SN 650,546. Filed P. R. 7-20-53. Am. S. R. 4-27-55.



For Steel and Stainless Steel Flatware—Namely, Knives, Forks, and Spoons, Stainless Steel Steak and Carving Knives, Stainless Steel Kitchen Utensils—Namely, Potato Mashers, Spatulas, Egg Ladles, Soup Ladles, and Mixing Spoons.  
 Use since Feb. 9, 1953.

- 608,490. Clement Maggia, Arlington, Va. SN 656,162. Filed 11-10-53.

**CLEMENT'S**

For Mechanically Operated Turntable for Supporting Cakes During the Icing Thereof, Whereby To Facilitate the Application of Decorative Designs in Icing, Deposited Upon the Cakes During Such Rotation.  
 Use since on or about July 1, 1948.

- 608,491. Earth Equipment Corp., Los Angeles, Calif. SN 671,314. Filed P. R. 8-9-54. Am. S. R. 3-7-55.

**EVERETT**

For Earth Working Machinery—Namely, a Tractor Mounted Trencher.  
 Use since Jan. 23, 1948.

- 608,492. Paramount Textile Machinery Co., Chicago, Ill. SN 676,995. Filed 11-19-54.

**DUAL HEAT**

For Hosiery Drying and Finishing Forms and Machines Comprising the Same.  
 Use since June 19, 1933.

## CLASS 26

- 608,493. Yugen-Kaisha Sanei Sangyo, Setagaya, Setagaya-Ku, Tokyo-To, Japan. SN 641,258. Filed P. R. 11-29-52. Am. S. R. 10-20-53.

**chicktester**

For Apparatus for Determining the Sex of Birds.  
 Use since Oct. 1, 1951.



608,494. Manuel Sanchez, d. b. a. Tri-Way Gage Company, Detroit, Mich. SN 661,838. Filed P. R. 3-1-54. Am. S. R. 3-31-55.

# Tri-Way

For Precision Locating Gages Adapted for Accurately Locating the Center of a Tool Spindle on a Machine Tool With Respect to a Reference Line on a Work Piece.  
Use since Dec. 1, 1953.

## CLASS 27

608,495. Alan David Wolfe, d. b. a. Remington Watch Company of America, Chicago, Ill. SN 678,299. Filed 12-13-54.

# REMINGTON

For Wrist Watches and Pocket Watches.  
Use since June 1949.

## CLASS 31

608,496. Filterall Co., Inc., La Canada, Calif. SN 657,023. Filed 11-27-53.

# Filterall

For Filtering Devices and Component Parts Thereof; Said Filtering Devices Comprising Engine Lubrication System Filters, Engine Liquid Fuel Filters, Fuel Oil Filters, Cold Water Filters, Hot Water Filters, Steam Filters, Hydraulic System Fluid Filters, Filters for Chemicals, Filters for Air and Gases at Normal Temperatures, and Filters for Air and Gases at Elevated Temperatures.  
Use since Feb. 25, 1948.

## CLASS 34

608,497. Hasche Engineering Company, Johnson City, Tenn. SN 667,032. Filed 5-25-54.

# HASCHE

For Pyrolytic Chemical Furnaces or Reformers for Pyrolysis of Chemical Compounds To Form Other Chemical Compounds—Namely, Pyrolytic Chemical Furnaces or Reformers for Producing Fuel Gases by Pyrolysis and Cracking of Hydrocarbons.  
Use since January 1952.

## CLASS 37

608,498. Modena Paper Mills, Incorporated, Modena, Pa. SN 661,087. Filed P. R. 2-15-54. Am. S. R. 3-30-55.

# WESTWOOD

For Manifold, Mimeograph, Bond, Duplicator and Off-Set Paper.  
Use since May 1953.

## CLASS 38

608,499. Richard Rimbach, d. b. a. The Instruments Publishing Company, Pittsburgh, Pa. SN 664,704. Filed P. R. 4-16-54. Am. S. R. 4-4-55.

# Instruments and AUTOMATION

For Publication Issued Monthly.  
Use since Jan. 19, 1954.

608,500. Norcross, Inc., New York, N. Y. SN 677,269. Filed 11-15-54.

# HONEY BEAR

For Greeting Cards and Printed Greeting Folders.  
Use since on or about Dec. 20, 1949.

## CLASS 42

608,501. Security Mills, Inc., New York, N. Y. SN 664,363. Filed P. R. 4-12-54. Am. S. R. 3-25-55.

# KURLY-TWEED

For Knitted Fabrics in the Piece, Having a Woolen Face and Cotton Back.  
Use since Mar. 15, 1954.

## CLASS 46

608,502. The Mar-Gold Corporation, Atlanta, Ga. SN 624,095. Filed P. R. 2-8-52. Am. S. R. 4-15-55.

# TABLE SPRED

For Oleomargarine.  
Use since June 1951.

608,503. Orange Products Sales, Inc., Winter Haven, Fla. SN 632,685. Filed P. R. 7-17-52. Am. S. R. 5-1-53.



For Frozen Fruit Juice Sold in the Form of Ice Pieces in Wrappers.  
Use since Mar. 12, 1952.

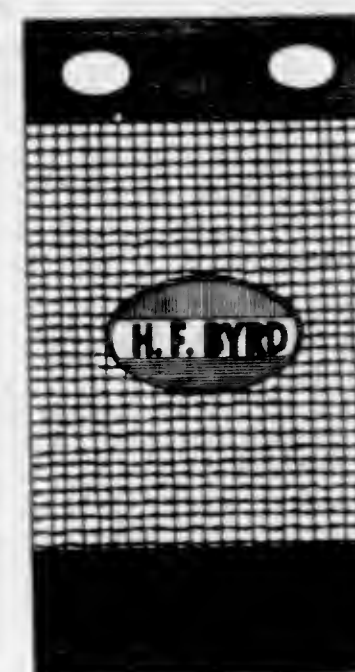
## CLASS 47

608,504. Southland Coffee Company, Inc., Atlanta, Ga. SN 651,136. Filed P. R. 7-30-53. Am. S. R. 9-17-54.



For Coffee.  
Use since Mar. 25, 1953.

608,505. H. F. Byrd, Inc., Winchester, Va. SN 656,489. Filed P. R. 11-17-53. Am. S. R. 10-8-54.



The drawing is lined for red, white and blue.  
For Fresh Apples.  
Use since Sept. 18, 1953.

608,506. G. P. Gundlach & Co. Inc., Cincinnati, Ohio. SN 673,279. Filed P. R. 9-16-54. Am. S. R. 4-18-55.

ONE OF THE GOOD THINGS OF LIFE

For Ice Cream.  
Use since 1937.

608,507. Cucamonga Winery, Cucamonga, Calif. SN 667,098. Filed P. R. 5-26-54. Am. S. R. 2-17-55.

# Original Romano Cucamonga

For Wines.  
Use since June 13, 1953.

## CLASS 49

608,508. G. F. Heublein & Bro. Inc., Hartford, Conn. SN 664,313. Filed P. R. 4-12-54. Am. S. R. 4-5-55.

# RELSKY

For Vodka.  
Use since Sept. 18, 1952.

608,509. Van Munching Imports, Inc., New York, N. Y. SN 667,190. Filed P. R. 5-26-54. Am. S. R. 2-10-55.

# MAC AUSLAND'S

For Whisky.  
Use since June 23, 1953.

## CLASS 51

608,510. Clairol Incorporated, Stamford, Conn. SN 597,593. Filed P. R. 5-17-50. Am. S. R. 8-8-52.

# SPARKLING SHERRY

For Hair Tinting and Coloring Preparations.  
Use since Mar. 1, 1950.

608,511. Clairol Incorporated, Stamford, Conn. SN 597,596. Filed P. R. 5-17-50. Am. S. R. 8-8-52.

# TOPAZ

For Hair Tinting and Coloring Preparations.  
Use since Mar. 1, 1950.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                          |                                                    |
|----------------------------------------------------------|----------------------------------------------------|
| 43,686. AZUREA. Cl. 52. 11-8-04.                         | 105,997. VITALIC. Cl. 39. 9-14-15.                 |
| 44,219. TABLOID. Cl. 6. 2-21-05.                         | 319,609. BELVEDERE. Cl. 39. 12-4-34.               |
| 101,568. ECONOMY. Cl. 21. 12-29-14.                      | 320,503. LAUNCELOT. Cl. 39. 1-1-35.                |
| 103,206. POLDI. Cl. 14. 3-23-15.                         | 320,812. SOFLIN. Cl. 37. 1-8-35.                   |
| 103,738. TANDEM INTERLOCK AND DESIGN. Cl. 23. 4-13-15.   | 320,977. LIBBY'S. Cl. 48. 1-15-35.                 |
| 103,932. THE KAMPTRAMP SHOE AND DESIGN. Cl. 39. 4-20-15. | 321,202. GABRILITE. Cl. 39. 1-22-35.               |
| 103,970. TEMPAX. Cl. 33. 4-20-15.                        | 321,749. CORENCO CRCO AND DESIGN. Cl. 10. 2-12-35. |
| 104,013. BREAKFAST CHEER. Cl. 46. 4-27-15.               | 322,039. L. B. D. Cl. 18. 2-26-35.                 |
| 104,168. TURBOLITE. Cl. 21. 5-4-15.                      | 322,113. ANGLEDOZER. Cl. 23. 2-26-35.              |
| 104,657. REXALL. Cl. 22. 6-8-15.                         | 322,424. SEELI. Cl. 42. 3-5-35.                    |
| 105,314. COLLINS & FAIRBANKS. Cl. 39. 7-20-15.           | 322,480. CELLUNIER. Cl. 1. 3-5-35.                 |
| 105,681. MULSIFIED. Cl. 52. 8-10-15.                     | 322,481. PURAINIER. Cl. 1. 3-5-35.                 |
| 105,996. VITALIC. Cl. 22. 9-14-15.                       | 323,181. RAYONEX. Cl. 1. 4-2-35.                   |
|                                                          | 323,233. CHIPLETS. Cl. 46. 4-9-35.                 |
|                                                          | 323,234. ARISTOCRAT AND DESIGN. Cl. 46. 4-9-35.    |



- 323,239. CORENCO CRCO AND DESIGN. Cl. 6. 4-9-35. 326,816. VINE CITY. Cl. 47. 8-6-35.  
 323,241. CORENCO CRCO AND DESIGN. Cl. 52. 4-9-35. 326,818. CHROMEL. Cl. 21. 8-6-35.  
 323,242. SCREENARATOR. Cl. 23. 4-9-35. 327,135. SPEED. Cl. 12. 8-20-35.  
 323,306. CORENCO CRCO AND DESIGN. Cl. 5. 4-9-35. 327,257. LEADER. Cl. 31. 8-20-35.  
 323,358. CORENCO CRCO AND DESIGN. Cl. 1. 4-9-35. 327,372. DEVEGAN. Cl. 18. 8-27-35.  
 323,523. SHADOW TOE. Cl. 39. 4-16-35. 327,461. KOIN-PACK AND DESIGN. Cl. 44. 8-27-35.  
 323,894. THE ROYAL-SCOT AND DESIGN. Cl. 42. 5-7-35. 327,503. VALVOLINE AND DESIGN. Cl. 6. 8-27-35.  
 324,095. MALECON. Cl. 39. 5-14-35. 327,550. O-SO-EZY. Cl. 29. 8-27-35.  
 324,538. COLORGLO AND DESIGN. Cl. 4. 5-21-35. 327,631. MANOR CLUB AND DESIGN. Cl. 39. 9-3-35.  
 324,591. SILVER KING. Cl. 23. 5-21-35. 327,779. ZIPPER. Cl. 17. 9-3-35.  
 324,756. COLORGLO AND DESIGN. Cl. 4. 5-28-35. 327,807. WARNER BROS. PICTURES, INC. AND DESIGN. Cl. 26. 9-3-35.  
 324,792. PIKESVILLE ETC. AND DESIGN. Cl. 49. 6-4-35. 327,844. NINA. Cl. 47. 9-3-35.  
 324,832. McKENNA. Cl. 49. 6-4-35. 327,906. DESIGN OF PIPETTE WITH RED STRIPE. Cl. 26. 9-10-35.  
 324,867. SCOTTISH CHIEF. Cl. 49. 6-4-35. 328,212. PET-LAC. Cl. 46. 9-17-35.  
 325,499. SPALLAC. Cl. 12. 6-25-35. 328,291. OUR BEST-FRIEND. Cl. 46. 9-24-35.  
 325,517. IMADYL. Cl. 18. 6-25-35. 328,346. BIG BEN. Cl. 17. 9-24-35.  
 325,692. ECLIPSE BRAND ETC. AND DESIGN. Cl. 9. 7-2-35. 328,377. LAFAYETTE AND DESIGN. Cl. 36. 9-24-35.  
 325,735. SNUGTEX. Cl. 42. 7-2-35. 328,424. HEUBLEIN AND DESIGN. Cl. 49. 9-24-35.  
 325,807. JIM DANDY. Cl. 22. 7-2-35. 328,425. APPLE AND HONEY AND DESIGN. Cl. 49. 9-24-35.  
 325,984. KATHERINE THE GREAT. Cl. 51. 7-9-35. 328,434. SOFENZ. Cl. 51. 9-24-35.  
 326,176. SILVERTIP AND DESIGN. Cl. 13. 7-16-35. 328,662. SECONAL. Cl. 18. 10-1-35.  
 326,177. SILVERTIP. Cl. 13. 7-16-35. 328,667. CELLOSIZ. Cl. 6. 10-1-35.

## TRADEMARK REGISTRATIONS CANCELED

## Section 7

- 235,717. SUPER-IRON. Cl. 21. 11-22-27.  
 403,186. PRE-SEARCH. Cl. 38. 9-7-43.  
 519,728. PERDOX. Cl. 6. 1-10-50.

## Section 8

- 27,975. REPRESENTATION OF A HEEL PLATE FOR SHOES. Cl. 13. 3-17-96.  
 52,209. OWL AND REPRESENTATION OF AN OWL PERCHED UPON A BRANCH. Cl. 46. 5-1-06.  
 69,048. VERDICT. Cl. 46. 5-19-08.  
 69,049. JA-SAN-MO. Cl. 46. 5-19-08.  
 69,050. CASCADE. Cl. 46. 5-19-08.  
 69,689. BUCKEYE. Cl. 46. 6-30-08.  
 91,845. VETERAN BRAND AND DESIGN. Cl. 46. 6-3-13.  
 122,430. TOPAN. Cl. 46. 8-20-18.  
 122,635. THISTLE. Cl. 46. 9-3-18.  
 124,453. HOUR GLASS AND DESIGN. Cl. 46. 2-18-19.  
 144,878. FLEXIBLE. Cl. 46. 7-19-21.  
 147,175. ANITA. Cl. 46. 10-4-21.  
 153,022. LA NINFA. Cl. 46. 3-7-22.  
 154,501. "FWD". Cl. 46. 4-18-22.  
 159,129. NAVAHO AND DESIGN. Cl. 46. 9-19-22.  
 170,193. FIX-A-GLOSS. Cl. 6. 7-10-23.  
 186,099. SWANK. Cl. 38. 7-1-24.  
 186,193. TWEEN-MEALS. Cl. 46. 7-1-24.  
 198,672. SEAL BRAND. Cl. 5. 5-26-25.  
 201,715. PELCO. Cl. 1. 8-4-25.  
 205,698. LUZONA. Cl. 39. 11-17-25.  
 208,292. JACK RABBIT. Cl. 46. 1-26-26.  
 215,404. CLIMAX. Cl. 23. 7-20-26.  
 220,541. N JOY AND DESIGN. Cl. 46. 11-9-26.  
 230,153. COLUMBIAN, ETC. AND DESIGN. Cl. 23. 7-12-27.  
 242,116. FAIRCOTE. Cl. 37. 5-15-28.  
 242,966. QUALITY INN AND DESIGN. Cl. 46. 6-5-28.  
 249,830. MYRAPHEN. Cl. 6. 11-20-28.  
 261,568. VALSPAR ETC. AND LABEL DESIGN LINED FOR COLORS BROWN, YELLOW, RED, GREEN, AND BLUE. Cl. 16. 9-17-29.  
 262,614. FARMER BOY. Cl. 46. 10-15-29.  
 289,229. GOLD BAND AND RECTANGULAR DESIGN LINED FOR GOLD. Cl. 46. 11-24-31.  
 293,169. DOMINION. Cl. 52. 4-12-32.  
 299,525. STREAMLINE. Cl. 35. 12-6-32.  
 333,939. LAS FLORES. Cl. 46. 4-14-36.  
 335,523. RAYVOILE. Cl. 42. 6-9-36.  
 336,274. COAST TO COAST BOND. Cl. 37. 6-30-36.  
 346,337. RHEALEE. Cl. 39. 5-25-37.  
 354,789. MIFCO. Cl. 46. 2-22-38.  
 361,757. HOLLY TIME. Cl. 46. 11-1-38.  
 368,997. COMBUSTROL. Cl. 34. 7-11-39.  
 368,998. THERMALIZER. Cl. 34. 7-11-39.  
 369,000. COAL-EIGHTY AUTOMATIC. Cl. 34. 7-11-39.  
 369,002. OIL-EIGHTY AUTOMATIC. Cl. 34. 7-11-39.  
 369,883. SQUAW AND DESIGN. Cl. 46. 8-8-39.  
 370,453. PARA-BACO AND REPRESENTATION OF A LEAF. Cl. 6. 8-29-39.  
 371,215. GAS-EIGHTY. Cl. 34. 9-19-39.  
 375,563. ANCHOR BRAND. Cl. 6. 2-20-40.  
 384,335. WESTERNGRADE. Cl. 32. 1-14-41.  
 391,197. PRODUCERS' CERTIFIED HYBRIDS HY AND DESIGN. Cl. 1. 10-28-41.  
 391,390. MAID-O-THE MIST ETC. AND DESIGN. Cl. 42. 11-4-41.  
 391,913. O X AND DESIGN. Cl. 29. 12-2-41.  
 395,554. NO. 11 GREEN CAST-LEAF AND DESIGN. Cl. 47. 6-2-42.  
 395,831. RIP VAN WINKLE. Cl. 39. 6-16-42.  
 395,849. META-FOLD. Cl. 12. 6-16-42.  
 402,691. "IT'S DIFFERENT YOUR FAVORITE BRAND IN DRY FORM", ETC. AND DESIGN. Cl. 46. 8-10-43.  
 413,522. QUALI-CRAFT. Cl. 50. 5-1-45.  
 422,194. BUDDY. Cl. 23. 7-9-46.  
 422,480. MADEMOISELLE. Cl. 46. 7-23-46.

- 430,282. PERFECUT AND DESIGN. Cl. 23. 6-10-47.  
 434,925. TIP TOP AND DIAMOND DESIGN. Cl. 6. 12-9-47.  
 505,913. PEARLY FOAM. Cl. 6. 1-25-49.  
 505,914. GENERALIFT. Cl. 50. 1-25-49.  
 505,921. HALT. Cl. 6. 1-25-49.  
 505,922. AMINOFERRATOSE. Cl. 6. 1-25-49.  
 505,928. J-C AND REPRESENTATION OF A CANNON WITHIN A CIRCLE. Cl. 21. 1-25-49.  
 505,935. SCOOTER. Cl. 45. 1-25-49.  
 505,936. LIGHTNING. Cl. 21. 1-25-49.  
 505,946. ROYSON. Cl. 13. 1-25-49.  
 505,947. HANGMASTER. Cl. 13. 1-25-49.  
 505,949. FOUKE ST. LOUIS AND DESIGN. Cl. 1. 1-25-49.  
 505,957. MECHANIC-CORE. Cl. 34. 1-25-49.  
 505,959. COMPETIDOR. Cl. 46. 1-25-49.  
 505,969. C G MONOGRAM. Cl. 33. 1-25-49.  
 505,975. FOLDIES. Cl. 50. 1-25-49.  
 505,978. DORO. Cl. 49. 1-25-49.  
 505,979. P L V. V. S. AND DESIGN. Cl. 49. 1-25-49.  
 505,980. THE "346" SHOP AND DESIGN OF A SHEEP. Cl. 50. 1-25-49.  
 505,988. FUNNYMAN AND DESIGN. Cl. 38. 1-25-49.  
 505,999. JULIANA. Cl. 17. 1-25-49.  
 506,002. OTUMBA. Cl. 46. 1-25-49.  
 506,003. LOGAN. Cl. 46. 1-25-49.  
 506,004. ETAH. Cl. 46. 1-25-49.  
 506,014. FLIGHT. Cl. 46. 1-25-49.  
 506,016. SCREAM COMICS. Cl. 38. 1-25-49.  
 506,018. MONKEYSHINES COMICS. Cl. 38. 1-25-49.  
 506,020. CLEMENTE. Cl. 4. 1-25-49.  
 506,024. TERVENIZED. Cl. 46. 1-25-49.  
 506,027. REPRESENTATION OF A WOODEN SHOE WITH TULIPS. Cl. 48. 1-25-49.  
 506,038. VICO. Cl. 42. 1-25-49.  
 506,042. THE ADVANCE LINE. Cl. 21. 1-25-49.  
 506,043. SIXEME COAL. Cl. 1. 1-25-49.  
 506,047. PREMIO DI CALIFORNIA. Cl. 47. 1-25-49.  
 506,071. CZARDA. Cl. 6. 1-25-49.  
 506,082. CAPITAL CLASSIC. Cl. 38. 1-25-49.  
 506,083. VIKANE. Cl. 21. 1-25-49.  
 506,084. THE TOBACCO WORLD. Cl. 38. 1-25-49.  
 506,088. DISULFA-VESS. Cl. 6. 1-25-49.  
 506,100. EMBERLITE. Cl. 42. 1-25-49.  
 506,102. DAYELLA. Cl. 42. 1-25-49.  
 506,103. GLAMYLOL. Cl. 6. 1-25-49.  
 506,108. B P O K AND REPRESENTATION OF A BOWLING PIN AND BALL. Cl. 38. 1-25-49.  
 506,112. EXTRAIT DE MOELLE GARNIER. Cl. 6. 1-25-49.  
 506,114. TATE'S. Cl. 46. 1-25-49.  
 506,116. CARROLL HOUSE. Cl. 1. 1-25-49.  
 506,120. RITE-LIGHT. Cl. 21. 1-25-49.  
 506,123. CASE SWAYNE AND LABEL DESIGN. Cl. 46. 1-25-49.  
 506,124. BEACHTHRO. Cl. 42. 1-25-49.  
 506,127. EVER-KLEEN. Cl. 36. 1-25-49.

## Section 18

- 34,724. ESCALATOR. Cl. 23. 5-29-1900. Canc. 5054.  
 362,351. RED MULE AND DESIGN. Cl. 23. 11-15-38. Canc. 6389.

## Section 37

- 415,719. SILVERBLU. Cl. 1. 8-14-45.  
 415,720. SILVERBLU. Cl. 39. 8-14-45.  
 424,305. BLUFROST. Cl. 39. 10-1-46.  
 429,974. BLUFROST. Cl. 1. 6-3-47.  
 539,283. SILVERBLU. Cl. 39. 3-13-51.  
 547,777. SILVERBLU. Cl. 1. 9-11-51.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 329,234. DECERESOL. Cl. 6. 10-22-35. American Cyanamid & Chemical Corporation, New York, N. Y. Corrected: In the statement, column 1, line 9, for "LIQUORS" read LIQUIDS.  
 528,038. GH&CO AND DESIGN. Cl. 46. 7-25-50. Garrett-Holmes & Co., Inc., Kansas City, Mo. Restricted under the provisions of Sec. 18 of the Trademark Act of 1946 to that area of the United States comprising the States of Michigan, Indiana, Kentucky, Tennessee, Mississippi, and all territory west of said States, by order of the Commissioner dated June 7, 1955, following decision on Concurrent Use.

Proceeding No. 151, I. Reuben Goodman v. Garrett-Holmes & Co., Inc.

606,193. DAIRY FOODS REVIEW, ETC. Cl. 38. 5-17-55. Robert E. Jones, San Francisco, Calif. Corrected: In the certificate, line 5, for the filing date, "14th day of February, 1955" read 4th day of April, 1952; in the heading to the statement, line 3, for "Feb. 14, 1955" read Apr. 4, 1952.

606,363. BREAKER. Cl. 23. 5-24-55. Babson Bros. Co., Chicago, Ill. Corrected: In the statement, column 2, line 1, in the description of goods, strike out "DEVICE".

## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

## CLASS 1

- 356,457. Apr. 26, 1938. G. & A. Laboratories, Inc., Savannah, Ga. Pub. by registrant.

## CLASS 5

- 317,295. Sept. 18, 1934. W. C. Hardesty Co., Inc., New York, N. Y. Pub. by Wallace & Tiernan Incorporated, Belleville, N. J.

GALEX

For Specially Prepared Rosin.  
 TM 696 O. G.—5

HYDIREX

For Preparation of Fatty Acid of Marine, Animal, and Vegetable Origin for Use as a Rubber Compounding Ingredient, as an Aid in the Dispersion of Pigments, as a Binder in the Preparation of Buffing Compounds, and as an Ingredient in the Compounding of Lubricating Greases.



## CLASS 6

100,827. Oct. 27, 1914. Industrial Appliance Company, Chicago, Ill. Pub. by Industrial Appliance Corporation, Belleville, N. J.

# BETA-CHLORA

For Gas for Maturing and Bleaching Flour.

## CLASS 12

267,788. Mar. 4, 1930. Key Boiler Equipment Co., Inc., East St. Louis, Ill. Pub. by Key Company, East St. Louis, Ill.

# KEY-TITE

For Waterproof Pipe-Joint Compound.

367,764. May 30, 1939. Red Cedar Shingle Bureau, Seattle, Wash. Pub. by registrant.

# CERTIGRADE

For Red Cedar Shingles.

394,029. Mar. 17, 1942. Co-Operative Displays, Inc., Cincinnati, Ohio. Pub. by Electrical Products Corporation, Los Angeles, Calif.

# Lumitile

For Advertising Display Structures in the Nature of Panels.

## CLASS 13

290,819. Jan. 19, 1932. Atlas Supply Company, Newark, N. J. Pub. by registrant.

# ATLAS

For Anti-Skid Chains.

429,696. May 13, 1947. California Brass Mfg. Co., Los Angeles, Calif. Pub. by registrant.

# CALCO

For Faucets, Valves, Cocks, Bath Tub Fittings, Shower Fittings, and Sink Fittings.

## CLASS 19

265,501. Dec. 31, 1929. Fairchild Aviation Corporation, New York, N. Y. Pub. by Fairchild Engine and Airplane Corporation, Hagerstown, Md., and Farmingdale, N. Y.



FAIRCHILD

For Aeroplanes.

265,670. Jan. 7, 1930. Fairchild Aviation Corporation, New York, N. Y. Pub. by Fairchild Engine and Airplane Corporation, Hagerstown, Md., and Farmingdale, N. Y.



For Aeroplanes.

## CLASS 23

270,689. May 13, 1930. Fairchild Aviation Corporation, New York, N. Y. Pub. by Fairchild Engine and Airplane Corporation, Hagerstown, Md., and Farmingdale, N. Y.



For Internal-Combustion Engines.

## CLASS 38

270,690. May 13, 1930. Fairchild Aviation Corporation, New York, N. Y. Pub. by Fairchild Engine and Airplane Corporation, Hagerstown, Md., and Farmingdale, N. Y.



FAIRCHILD

For Internal-Combustion Engines.

## CLASS 26

394,757. Apr. 28, 1942. Laboratory Equipment Corporation, St. Joseph, Mich. Pub. by registrant.

# LECO

For Scientific Laboratory Combustion Furnaces, Cabinets, Various Glass and Pyrex Parts for Laboratory Use, Such as Burettes, Pipettes, Vessels, Jars, Instruments for Analysis, Such as Carbon, Sulphur, Phosphorous and Silicon Determination, Combustion Boats, Shields, Combustion Tubes, and Other Ceramic Parts and Certain Types of Glass Tubing.

## CLASS 35

288,702. Nov. 3, 1931. Atlas Supply Company, Newark, N. J. Pub. by registrant.



For Rubber Tires.

## CLASS 37

384,918. Feb. 11, 1941. Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis. Pub. by registrant.

# FLASH GLOSS COATED

For Coated Book Paper.

198,531. May 19, 1925. Robert Le Roy Ripley, New York, N. Y. Pub. by Robert J. Hyland and The New York Trust Company, trustees of the estate of Robert L. Ripley, New York, N. Y.

# BELIEVE IT OR NOT

For Series of Cartoons.

355,388. Mar. 15, 1938. Robert L. Ripley, Mamaroneck, N. Y. Pub. by Robert J. Hyland and The New York Trust Company, trustees of the estate of Robert L. Ripley, New York, N. Y.

# Ripley

For Graphics, Cartoons, Sketches, Drawings, and Illustrations, as Contributions to and Components of Newspapers, Periodicals, Books, Advertising Matter, and Motion Pictures.

355,396. Mar. 15, 1938. Robert L. Ripley, Mamaroneck, N. Y. Pub. by Robert J. Hyland and The New York Trust Company, trustees of the estate of Robert L. Ripley, New York, N. Y.

# Believe It or Not!

# Ripley

For Graphics, Cartoons, Sketches, Drawings, and Illustrations, as Contributions to and Components of Newspapers, Periodicals, Books, Advertising Matter, and Motion Pictures.

## CLASS 39

429,843. May 20, 1947. Jack Spiro & Co., Inc., New York, N. Y. Pub. by registrant.

# Lil Bee

For Children's Dresses.

432,542. Sept. 2, 1947. Sol Sherman, New York, N. Y. Pub. by registrant.

# TWINSOME

For Neckties.

436,501. Feb. 10, 1948. The Faultless Rubber Company, also d. b. a. Ashland Rubber Works, Ashland, Ohio. Pub. by registrant.

# Challenge

For Household Rubber Gloves.



## CLASS 44

184,473. May 27, 1924. The Faultless Rubber Company, Ashland, Ohio. Pub. by registrant.

**Faultless WONDER**

For Nursing Nipples.

376,325. Mar. 19, 1940. The Faultless Rubber Company, Ashland, Ohio. Pub. by registrant.

**Take-along**

For Syringes and Parts Thereof, and Attachments Therefor.

376,380. Mar. 19, 1940. The Faultless Rubber Company, d. b. a. Ashland Rubber Works, Ashland, Ohio. Pub. by registrant.

**Journey-Gem**

For Syringes and Parts Thereof, and Attachments Therefor.

435,457. Dec. 30, 1947. The Faultless Rubber Company, Ashland, Ohio. Pub. by registrant.

**Wearever**

For Baby Hot Water Bottles, Breast Pumps, Bulb Syringes, Hot Water Bottles, Hot Water Bottle Syringe Attachments, Sponge Rubber Hot Water Bottle Covers, Combination Syringes, Crutch Tips, Syringe Douches, Ear Syringes, Face Bottles, Douche Syringes, Fountain Syringes, Ice Caps, Infant Syringes, Invalid Cushions, Vaginal Syringes, Medicine Droppers, Nursing Nipples, Pessaries, Syringe Tubing, Syringe Accessory Assortments, Throat Ice Bags, and Surgical Tubing.

## CLASS 46

260,343. Aug. 20, 1929. Hawley & Hoops, New York, N. Y. Pub. by Circus Foods Inc., San Francisco, Calif.

**CIRCUS ANIMALS**

For Candy and Chocolate.

302,669. Apr. 25, 1933. Arthur J. Capone, d. b. a. Ellos, New York, N. Y. Pub. by Fratelli Berio, Oneglia, Italy.

**Umberto Berio**

For Olive Oil.

378,163. May 28, 1940. R. A. Nemanick, Salinas, Calif. Pub. by Gerry Horton, El Centro and Watsonville, Calif.

**Kreme-De-Koke**

For Fresh Vegetables and Fresh Deciduous Fruits.

423,581. Sept. 3, 1946. R. A. Nemanick, Watsonville, Calif. Pub. by Gerry Horton, El Centro and Watsonville, Calif.

**BY GOSH**

For Fresh Deciduous Fruits and Vegetables.

443,619. Dec. 13, 1949. Hoefler's Centennial Chocolates, Inc., Ltd., Alameda, Calif. Pub. by registrant.

**CENTENNIAL**

For Chocolate Coated Cream Center Candles of Various Flavors.

## CLASS 49

314,025. June 19, 1934. Popper Morson Co., Inc., Jersey City, N. J. Pub. by Popper Morson Company, New York, N. Y.

**King Charles**

For Whiskey.

314,421. June 26, 1934. Popper Morson Co., Inc., Jersey City, N. J. Pub. by Popper Morson Company, New York, N. Y.

**FORT WILLIAM**

For Whiskey.

## LIST OF REGISTRANTS OF TRADEMARKS

- Ace Periodicals Inc., New York, N. Y. 506,018, canc. Cl. 38.  
 Adams Brothers, Boston, Mass., to Adams Brothers, Inc., Pittsfield, N. H. 103,932, ren. 4-20-55. Cl. 39.  
 Adams Brothers, Inc.: See—  
 Adams Brothers.  
 Aiello, Richard V.: See—  
 Gardwell Products Mfg. Co.  
 Aircraft Belt & Trim Corp., Los Angeles, Calif. 608,238, pub. 4-12-55. Cl. 19.  
 Air Reduction Co., Inc., New York, N. Y. 608,250, pub. 4-12-55. Cl. 21.  
 Akwell Corp.: See—  
 Kohn-Pak Sales Corp.  
 Albemarle Paper Mfg. Co., The, Richmond, Va. 242,116, canc. Cl. 37.  
 Aldrich Co., Wyoming, Ill. 608,321, pub. 4-12-55. Cl. 34.  
 Alert Products Co.: See—  
 Coan, N. C.  
 Alexander, G. W., & Co., Inc., Reading, Pa. 327,631, ren. 9-3-55. Cl. 39.  
 All-Craft Mfg. Co.: See—  
 Tschanz, John  
 Allied Latex Corp., East Newark, N. J. 608,393, pub. 4-5-55. Cl. 44.  
 American Cyanamid & Chemical Corp., New York, N. Y. 329,234, cor. Cl. 6.  
 American Institute of Management, New York, N. Y. 608,347, pub. 4-12-55. Cl. 38.  
 American-Marietta Co.: See—  
 O-Cedar Corp.  
 American Pop Corn Co., Sioux City, Iowa. 361,757, canc. Cl. 46.  
 American Road Machinery Co., Inc., Kennett Square, Pa. 215,404, canc. Cl. 23.  
 American Toy and Furniture Co., Inc., Chicago, Ill. 608,487. Cl. 22.  
 American Webco Corp., Sewickley, Pa. 608,197, pub. 4-12-55. Cl. 12.  
 Ames Co., Inc., Elkhart, Ind. 506,088, canc. Cl. 6.  
 Amplifier Corp. of America, New York, N. Y. 608,244, pub. 3-22-55. Cl. 21.  
 Anheuser-Busch, Inc., St. Louis, Mo. 608,441, pub. 4-5-55. Cl. 46.  
 Animal Foods Co.: See—  
 Coan, N. C.  
 April, Morris Bros., Bridgeton, N. J. 608,406, pub. 4-12-55. Cl. 46.  
 Armuth Corp., Redwood City, Calif. 608,273, pub. 3-29-55. Cl. 23.  
 Armour and Co., Chicago, Ill. 505,959, canc. Cl. 46.  
 Asbestolith Mfg. Corp., Brooklyn, N. Y. 608,189, pub. 4-5-55. Cl. 12.  
 Ashland Oil & Refining Co.: See—  
 Valvoline Oil Co.  
 Ashland Rubber Works: See—  
 Faultless Rubber Co., The.  
 Associated Merchandising Corp., The, New York, N. Y. 608,483. Cl. 21.  
 Atkins, E. C., & Co., Indianapolis, Ind. 230,153, canc. Cl. 23.  
 Atlas Fabrics Corp.: See—  
 Atlas Mills, Inc.  
 Atlas Mills, Inc., to Atlas Fabrics Corp., New York, N. Y. 322,424, ren. 3-5-55. Cl. 42.  
 Atlas Supply Co., Newark, N. J. 288,702, 12(c) pub. 7-5-55. Cl. 35.  
 Atlas Supply Co., Newark, N. J. 290,819, 12(c) pub. 7-5-55. Cl. 13.  
 Aubrey-Jones, Nigel, Montreal, Quebec, Canada. 608,466, pub. 4-12-55. Cl. 52.  
 Aunt Winnie's, Inc., Omaha, Nebr. 608,434, pub. 4-5-55. Cl. 46.  
 Austin Co., The, New York, N. Y. 608,292, pub. 4-19-55. Cl. 26.  
 Austin, James Co., Mars, Pa. 608,227, pub. 4-5-55. Cl. 16.  
 Avenir Co., The: See—  
 Kelakos, Michael G.  
 Babson Bros. Co., Chicago, Ill. 606,363, cor. Cl. 23.  
 Barbizon Corp., The, New York, N. Y. 608,385, pub. 4-12-55. Cl. 42.  
 Barcolene Co., The, Boston, Mass. 608,467, pub. 4-5-55. Cl. 52.  
 Bar-None Sales Co.: See—  
 Coan, N. C.  
 Bartmann & Bixler, Inc., New York, N. Y. 335,523, canc. Cl. 42.  
 Bartmann & Bixler Inc., New York, N. Y. 391,390, canc. Cl. 42.  
 Bay State Milling Co., Winona, Minn. 608,450, pub. 4-12-55. Cl. 46.  
 Beardsley & Piper Co., The, to Pettibone Mulliken Corp., Chicago, Ill. 323,242, ren. 4-9-55. Cl. 23.  
 Beckerman, M., & Sons, Inc., New York, N. Y. 608,375, pub. 4-5-55. Cl. 39.  
 Belersdorf, P., & Co. A. G., Hamburg, Germany. 608,169, pub. 3-29-55. Cl. 5.  
 Bellbrook Dairies, Inc., San Francisco, Calif. 608,411, pub. 4-12-55. Cl. 46.  
 Bellevue Creamery & Produce Co.: See—  
 Omaha Cold Storage Co.  
 Belrug Mills of South Carolina, Greenville, S. C. 608,388, pub. 4-12-55. Cl. 42.  
 Bendix-Westinghouse Automotive Air Brake Co., Elyria, Ohio. 608,274, pub. 3-29-55. Cl. 23.  
 Benscorp Inc., to Benscorp, N. V., Bussum, Netherlands. 608,398, pub. 4-12-55. Cl. 46.  
 Benscorp, N. V.: See—  
 Benscorp Inc.  
 Berkshire Knitting Mills, Wyomissing, Pa. 323,523, ren. 4-16-55. Cl. 39.  
 Bersted Mfg. Co., Fostoria, Ohio. 505,936, canc. Cl. 21.  
 Best-Built Sewing Machine Supply Co., Inc., New York, N. Y. 608,269, pub. 3-29-55. Cl. 23.  
 Beverage Distributors, Inc., d. b. a. Marlboro Beverage Co., from Safeway Stores Inc., d. b. a. Marlboro Beverage Co., San Francisco, Calif. 505,935, canc. Cl. 45.  
 Bijur Lubricating Corp., Rochelle Park, N. J. 608,204, pub. 4-5-55. Cl. 13.  
 Billingham, M. C. J., Inc., d. b. a. Surface Coating Engineers, Kalamazoo, Mich. 608,228, pub. 3-29-55. Cl. 16.  
 Blickman, S., Inc., Weehawken, N. J. 608,320, pub. 4-12-55. Cl. 34.  
 Blue Bell, Inc., Greensboro, N. C. 608,371, pub. 4-12-55. Cl. 39.  
 Breco Mfg. Co., Inc., Baltimore, Md. 608,202, pub. 3-22-55. Cl. 13.  
 Brewster, E. Franklin, Rochester, N. Y. 91,845, canc. Cl. 46.  
 Brewster, Gordon & Co., Rochester, N. Y. 122,430, canc. Cl. 46.  
 Brewster, Gordon & Co., Rochester, N. Y. 122,635, canc. Cl. 46.  
 Brewster, Gordon & Co., Rochester, N. Y. 154,501, canc. Cl. 46.  
 Brill, H. C., Co., Inc., Newark, N. J. 608,409, pub. 4-12-55. Cl. 46.  
 Broadcast Equipment Specialties Corp., Richmond Hill, N. Y. 608,251, pub. 4-5-55. Cl. 21.  
 Brooklyn Belt Co., Brooklyn, N. Y. 608,356, pub. 4-12-55. Cl. 39.  
 Brooks Brothers, New York, N. Y. 505,980, canc. Cl. 50.  
 Brown & Bigelow, St. Paul, Minn. 608,260, pub. 4-19-55. Cl. 23.  
 Brown & Bigelow, St. Paul, Minn. 608,300, pub. 4-19-55. Cl. 26.  
 Brown & Williamson Tobacco Corp., Louisville, Ky. 327,779, ren. 9-3-55. Cl. 17.  
 Brown & Williamson Tobacco Corp., Louisville, Ky. 328,346, ren. 9-24-55. Cl. 17.  
 Brownie Corp., Montgomery, Ala. 608,454, pub. 4-5-55. Cl. 50.  
 Bruun, Knud I.: See—  
 Elrod, Henry E.  
 Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. 608,180, pub. 3-29-55. Cl. 11.  
 Buffalo Wholesale Dry Goods Co., Buffalo, N. Y. 608,365, pub. 4-12-55. Cl. 39.  
 Burroughs Wellcome & Co. (U. S. A.) Inc.: See—  
 Wellcome, Henry S.  
 Burrus Mill & Elevator Co., Fort Worth, Tex. 262,614, canc. Cl. 46.  
 Byrd, H. F., Inc., Winchester, Va. 608,505. Cl. 46.  
 Cabot, Godfrey L., Inc., Boston, Mass. 608,220, pub. 3-29-55. Cl. 15.  
 Calame et Cie, Le Locle, Switzerland. 608,306, pub. 4-19-55. Cl. 27.  
 California Brass Mfg. Co., Los Angeles, Calif. 429,696, 12(c) pub. 7-5-55. Cl. 13.  
 California Grape Products Co., Ltd., New York, N. Y. 506,047, canc. Cl. 47.  
 California Turkey Growers Association, San Francisco, Calif. 608,423, pub. 4-12-55. Cl. 46.  
 Callaway Mills Co., La Grange, Ga. 608,386, pub. 4-12-55. Cl. 42.  
 Calo Dog Food Co., Inc.: See—  
 Victory Packing Co.  
 Campbell & Woods Co., The, Pittsburgh, Pa. 104,013, ren. 4-27-55. Cl. 46.  
 Cannon Electric Development Co.: See—  
 Cannon, James H.  
 Cannon, James H., d. b. a. Cannon Electric Development Co., Los Angeles, Calif. 505,928, canc. Cl. 21.  
 Cantrell & Cochrane Corp., New York, N. Y. 608,397, pub. 4-12-55. Cl. 45.  
 Capital Classic Association, Washington, D. C. 506,082, canc. Cl. 38.  
 Capone, Arthur J., d. b. a. Ellos, New York, N. Y., by F. Berio, Oneglia, Italy. 302,669, 12(c) pub. 7-5-55. Cl. 46.  
 Carbide and Carbon Chemicals Corp., to Union Carbide and Carbon Corp., New York, N. Y. 328,667, ren. 10-1-55. Cl. 6.  
 Carlson Trading Corp., Geneva, Ill. 608,256, pub. 7-13-54. Cl. 23.  
 Carpenter, E. W., Mfg. Co., The, Bridgeport, Conn. 505,946, canc. Cl. 13.  
 Case-Swayne Co., Inc., Santa Ana, Calif. 506,123, canc. Cl. 46.  
 Caso, Edward D., New Haven, Conn. 608,383, pub. 4-12-55. Cl. 39.  
 Casper, Danall F., d. b. a. Suamico Machine & Tool Co., Suamico, Wis. 608,241, pub. 4-12-55. Cl. 19.



- Castle & Cooke, Ltd., Honolulu, Hawaii. 608,407, pub. 4-5-55. Cl. 46.  
 Chargar Products: See—  
 Chargar, William.  
 Chargar, William, d. b. a. Chargar Products, New Haven, Conn. 608,190, pub. 4-5-55. Cl. 12.  
 Chase, G. W., and Son Mercantile Co., St. Joseph, Mo. 186,193, can. Cl. 46.  
 China & Glass Distributors, Inc., New York, N. Y. 505,969, can. Cl. 33.  
 Cho-Cho Co., Los Angeles, Calif. 608,404, pub. 4-12-55. Cl. 46.  
 Circus Foods Inc.: See—  
 Hawley & Hoops.  
 Clairol Inc., Stamford, Conn. 608,510-11. Cl. 51.  
 Coan, N. C., d. b. a. Animal Foods Co., Alert Products Co., Bar-None Sales Co., Delight Dog Food Co., and Hi-Test Products Co., San Jose, Calif., and Houston, Tex. 402,691, can. Cl. 46.  
 Coast Mfg. & Supply Co., Livermore, Calif. 325,692, ren. 7-2-55. Cl. 9.  
 Collin County Mill & Elevator Co., McKinney, Tex. 289,220, can. Cl. 46.  
 Collins & Fairbanks Co., to Federated Department Stores, Inc., Boston, Mass. 105,314, ren. 7-20-55. Cl. 39.  
 Collis Enterprises, Inc., Mundelein, Ill. 608,316, pub. 4-5-55. Cl. 31.  
 Colorado Fuel and Iron Corp., The: See—  
 Colorado Fuel and Iron Products Co., The.  
 Colorado Fuel and Iron Products Co., The, to The Colorado Fuel and Iron Corp., Denver, Colo. 326,176-7, ren. 7-16-55. Cl. 13.  
 Colorgo Products, to Colorgo Products, Inc., Whittier, Calif. 324,538, ren. 5-21-55. Cl. 4.  
 Colorgo Products, to Colorgo Products, Inc., Whittier, Calif. 324,756, ren. 5-28-55. Cl. 4.  
 Colorgo Products, Inc.: See—  
 Colorgo Products.  
 Colson-Merriam Co., The: See—  
 Merriam Co., Inc., The.  
 Columbian Art Works, Inc., Milwaukee, Wis. 608,339, pub. 4-5-55. Cl. 37.  
 Comptone Co., Ltd., New York, N. Y. 608,293, pub. 4-19-55. Cl. 26.  
 Consolidated Rendering Co., Boston, Mass. 321,749, ren. 2-12-55. Cl. 10.  
 Consolidated Rendering Co., Boston, Mass. 323,239, ren. 4-9-55. Cl. 6.  
 Consolidated Rendering Co., Boston, Mass. 323,241, ren. 4-9-55. Cl. 52.  
 Consolidated Rendering Co., Boston, Mass. 323,306, ren. 4-9-55. Cl. 5.  
 Consolidated Rendering Co., Boston, Mass. 323,358, ren. 4-9-55. Cl. 1.  
 Consolidated Water Power & Paper Co., Wisconsin Rapids, Wis. 384,918, 12(c) pub. 7-5-55. Cl. 37.  
 Continental Overall Co., Oskaloosa, Iowa. 608,366, pub. 4-5-55. Cl. 39.  
 Continental Rubber Works, Erie, Pa. 105,996, ren. 9-14-55. Cl. 22.  
 Continental Rubber Works, Erie, Pa. 105,997, ren. 9-14-55. Cl. 39.  
 Cooper Tire & Rubber Co., Findlay, Ohio. 608,337, pub. 4-12-55. Cl. 35.  
 Co-Operative Displays, Inc., Cincinnati, Ohio, by Electrical Products Corp., Los Angeles, Calif. 394,029, 12(c) pub. 7-5-55. Cl. 12.  
 Cornell-Dubilier Electric Corp., South Plainfield, N. J. 506,083, can. Cl. 21.  
 Coward Shoe, Inc., The, New York, N. Y. 608,379, pub. 4-5-55. Cl. 39.  
 Cribben and Sexton Co., Chicago, Ill. 608,323, pub. 4-5-55. Cl. 34.  
 Cucamonga Winery, Cucamonga, Calif. 608,507. Cl. 47.  
 Current Books, Inc., New York, N. Y. 506,016, can. Cl. 38.  
 D & F Enterprises, St. Paul, Minn. 608,408, pub. 4-12-55. Cl. 46.  
 D. S. & W. Hoslery Co., Inc., Reading, Pa. 608,380-2, pub. 4-5-55. Cl. 39.  
 Davis, Benjamin L., Washington, D. C. 608,261, pub. 4-19-55. Cl. 23.  
 Davis, H. B., Corp., New York, N. Y. 608,270, pub. 3-29-55. Cl. 23.  
 Dayton Casting Co., The, Dayton, Ohio. 608,213, pub. 4-12-55. Cl. 14.  
 Dearborn Stove Co., Dallas, Tex. 608,278, pub. 11-16-54. Cl. 24.  
 Delight Dog Food Co.: See—  
 Coan, N. C.  
 Demarest Engineering Co.: See—  
 Demarest, Frederick R.  
 Demarest, Frederick R., d. b. a. Demarest Engineering Co., Newark, N. J. 608,184, pub. 3-29-55. Cl. 12.  
 Denison, R. B., Mfg. Co.: See—  
 Denison, Robert B.  
 Denison, Robert B., d. b. a. R. B. Denison Mfg. Co., Cleveland, Ohio. 608,247, pub. 4-12-55. Cl. 21.  
 De Sanno, Catherine M., Phoenixville, Pa. 608,163, pub. 4-12-55. Cl. 3.  
 Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. 608,215, pub. 4-19-55. Cl. 14.  
 Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. 608,216, pub. 4-12-55. Cl. 14.  
 Dexter Bishop Co., Inc., New York, N. Y. 323,233-4, ren. 4-9-55. Cl. 46.  
 Diamond Hosiery Corp., New York, N. Y. 608,355, pub. 4-5-55. Cl. 39.  
 Dick, A. B., Co., Niles, Ill. 608,178, pub. 3-22-55. Cl. 11.  
 Dick, A. B., Co., Niles, Ill. 608,179, pub. 4-5-55. Cl. 11.  
 Dick, A. B., Co., Niles, Ill. 608,266, pub. 4-5-55. Cl. 23.  
 Dico Co., Des Moines, Iowa. 608,472, pub. 4-12-55. Cl. 52.  
 Dietzgen, Eugene, Co., Chicago, Ill. 608,288, pub. 4-12-55. Cl. 26.  
 Dishan, James, Los Angeles, Calif. 608,345, pub. 4-12-55. Cl. 38.  
 Distilled Liquors Import Co., Inc., New York, N. Y. 505,978-9, can. Cl. 49.  
 Dixie Mills Co., East St. Louis, Ill. 608,401, pub. 4-5-55. Cl. 46.  
 Dodge & Olcott, Inc., New York, N. Y. 608,412-13, pub. 4-12-55. Cl. 46.  
 Duff Gordon & Co.: See—  
 Shaw, Alex D., & Co., Inc.  
 Dumari Textile Co., Inc., New York, N. Y. 608,390, pub. 4-12-55. Cl. 42.  
 Dupli-Typer Co., New York, N. Y. 608,177, pub. 4-12-55. Cl. 11.  
 Du Pont, E. I., de Nemours and Co., Wilmington, Del. 519,728, can. Cl. 6.  
 Du Pont, E. I., de Nemours and Co., Wilmington, Del. 608,302, pub. 4-19-55. Cl. 26.  
 Duro Metal Products Co., Chicago, Ill. 608,271, pub. 3-29-55. Cl. 23.  
 Dutch Oven Ice Cream and Candy Co.: See—  
 Dutch Oven, Inc.  
 Dutch Oven, Inc., Canton, to Gray Drug Stores, Inc., of Pennsylvania, Cleveland, Ohio. 608,414, pub. 4-12-55. Cl. 46.  
 Dutch Oven, Inc., d. b. a. Dutch Oven Ice Cream and Candy Co., Canton, to Gray Drug Stores, Inc., of Pennsylvania, Cleveland, Ohio. 608,415, pub. 4-12-55. Cl. 46.  
 Eagle-Picher Co., The, Cincinnati, Ohio. 608,194, pub. 3-29-55. Cl. 12.  
 Earth Equipment Corp., Los Angeles, Calif. 608,491. Cl. 23.  
 Eau de Cologne & Parfümerie-Fabrik Glockengasse No. 4711, gegenüber der Pferdepost von Ferd. Mühlens, The: See—  
 Mühlens, Ferdinand.  
 Economy Fuse & Mfg. Co., to Economy Fuse and Mfg. Co., Chicago, Ill. 101,568, ren. 12-29-54. Cl. 21.  
 Economy Fuse and Mfg. Co.: See—  
 Economy Fuse & Mfg. Co.  
 Edison Electric Appliance Co., Chicago, Ill. 235,717, can. Cl. 21.  
 Edlow Co.: See—  
 Wolfe, Tom J.  
 Elmler Mills, Inc., New York, N. Y. 608,389, pub. 4-12-55. Cl. 42.  
 Elsmann G. m. b. H., Stuttgart, Germany. 608,257, pub. 4-12-55. Cl. 23.  
 Electrical Products Corp.: See—  
 Co-Operative Displays, Inc.  
 Electronic Parts Mfg. Co., Inc., Jersey City, N. J. 608,243, pub. 4-12-55. Cl. 21.  
 Ellos: See—  
 Capone, Arthur J.  
 Ellis, A. D., Mills Inc., Monson, Mass. 506,100, can. Cl. 42.  
 Elrod, Henry E., Dallas, to K. I. Bruun, Houston, Tex. 104,168, ren. 5-4-55. Cl. 21.  
 Escalante, Jose, & Co., Chicago, Ill. 505,999, can. Cl. 17.  
 Everedy Co., The, Frederick, Md. 608,205, pub. 4-5-55. Cl. 13.  
 Ever-Kleen Sales Co.: See—  
 McDonald, Robert L.  
 Everlastik, Inc., Chelsea, Mass. 325,735, ren. 7-2-55. Cl. 42.  
 Eversharp, Inc., Chicago, Ill. 608,262, pub. 4-5-55. Cl. 23.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 608,343, pub. 4-5-55. Cl. 37.  
 Fairchild Aviation Corp., New York, N. Y., by Fairchild Engine and Airplane Corp., Hagerstown, Md., and Farmingdale, N. Y. 265,501, 12(c) pub. 7-5-55. Cl. 19.  
 Fairchild Aviation Corp., New York, N. Y., by Fairchild Engine and Airplane Corp., Hagerstown, Md., and Farmingdale, N. Y. 265,670, 12(c) pub. 7-5-55. Cl. 19.  
 Fairchild Aviation Corp., New York, N. Y., by Fairchild Engine and Airplane Corp., Hagerstown, Md., and Farmingdale, N. Y. 270,689-90, 12(c) pub. 7-5-55. Cl. 23.  
 Fairchild Engine and Airplane Corp.: See—  
 Fairchild Aviation Corp.  
 Fan Male, Inc., to Magazine Enterprises, Inc., New York, N. Y. 505,988, can. Cl. 38.  
 Fate-Root-Heath Co., The, Plymouth, Ohio. 324,591, ren. 5-21-55. Cl. 23.  
 Faultless Rubber Co., The, Ashland, Ohio. 184,473, 12(c) pub. 7-5-55. Cl. 44.  
 Faultless Rubber Co., The, Ashland, Ohio. 376,325, 12(c) pub. 7-5-55. Cl. 44.  
 Faultless Rubber Co., The, d. b. a. Ashland Rubber Works, Ashland, Ohio. 376,380, 12(c) pub. 7-5-55. Cl. 44.  
 Faultless Rubber Co., The, Ashland, Ohio. 435,457, 12(c) pub. 7-5-55. Cl. 44.  
 Faultless Rubber Co., The, also d. b. a. Ashland Rubber Works, Ashland, Ohio. 436,501, 12(c) pub. 7-5-55. Cl. 39.  
 Federal Prosthetics, Inc., Brooklyn, N. Y. 608,395, pub. 4-5-55. Cl. 44.  
 Federated Department Stores, Inc.: See—  
 Collins & Fairbanks Co.  
 Ferro Corp., Cleveland, Ohio. 608,214, pub. 4-19-55. Cl. 14.  
 Fields, Edward S., d. b. a. Fields Mfg. Co., Morgantown, W. Va. 422,194, can. Cl. 23.  
 Fields Mfg. Co.: See—  
 Fields, Edward S.  
 Filterall Co., Inc., La Canada, Calif. 608,406. Cl. 31.  
 Firestone Tire & Rubber Co., The, Akron, Ohio. 608,331, pub. 4-5-55. Cl. 35.  
 Fitzgibbons Boiler Co., Inc., New York, N. Y. 368,997-8, can. Cl. 34.  
 Fitzgibbons Boiler Co., Inc., New York, N. Y. 369,000, can. Cl. 34.  
 Fitzgibbons Boiler Co., Inc., New York, N. Y. 369,002, can. Cl. 34.

- Fitzgibbons Boiler Co., Inc., New York, N. Y. 371,215, can. Cl. 34.  
 Flaccornio, Joseph V.: See—  
 Maryland-Pikesville Distillery, Inc.  
 Flaccornio, Vincent: See—  
 Maryland-Pikesville Distillery, Inc.  
 Fouke Fur Co., St. Louis, Mo. 505,949, can. Cl. 1.  
 Franklin, Benjamin, Paint and Varnish Co., Philadelphia, Pa. 608,225, pub. 4-12-55. Cl. 16.  
 Fratelli, Berio: See—  
 Capone, Arthur J.  
 Freeman Chemical Co., The: See—  
 Freeman, Michael W.  
 Freeman, Michael W., d. b. a. The Freeman Chemical Co., Detroit, Mich. 608,217, pub. 4-12-55. Cl. 15.  
 Fremont Produce Co., Salinas, Calif. 608,445-6, pub. 4-12-55. Cl. 46.  
 Fruechtenicht, Henry, Co., Inc., Louisville, Ky. 608,405, pub. 7-13-54. Cl. 46.  
 Fruhman, Sidney, Dallas, Tex. 346,337, can. Cl. 39.  
 Fruit Growers Co-Operative, Sturgeon Bay, Wis. 506,002, can. Cl. 46.  
 Funk Bros. Seed Co.: See—  
 Funk Brothers Seed Co.  
 Funk Brothers Seed Co., Bloomington, Ill., now by change of name Funk Bros. Seed Co. 608,478. Cl. 1.  
 Fyr-Fyter Co., The, Dayton, Ohio. 608,210, pub. 4-5-55. Cl. 13.  
 G. & A. Laboratories, Inc., Savannah, Ga. 356,457, 12(c) pub. 7-5-55. Cl. 1.  
 Gardwell Products Mfg. Co., to R. V. Alelio, Wampum, Pa. 608,229, pub. 4-12-55. Cl. 16.  
 Garret-Holmes & Co., Inc., Kansas City, Mo. 528,038, restricted. Cl. 46.  
 Gauthier, Alfred, G. m. b. H., Calmbach-Enz, Germany. 608,305, pub. 4-19-55. Cl. 26.  
 Gehl's Guernsey Farms, Inc., Milwaukee, Wis. 608,431, pub. 4-12-55. Cl. 46.  
 Gellman Mfg. Co., Rock Island, Ill. 608,488. Cl. 23.  
 Gemex Co., Union, N. J. 608,311, pub. 3-29-55. Cl. 28.  
 General Aniline & Film Corp., New York, N. Y. 608,285, pub. 4-5-55. Cl. 26.  
 General Box Co., Chicago, Ill. 505,914, can. Cl. 50.  
 General Tire & Rubber Co., The, Akron, Ohio. 299,525, can. Cl. 35.  
 General Tire & Rubber Co., The, Akron, Ohio. 608,333, pub. 4-5-55. Cl. 35.  
 Gibbons, J. T., Inc., New Orleans, La. 608,439, pub. 4-12-55. Cl. 46.  
 Gilbert, Martin, Reedley, Calif. 208,292, can. Cl. 46.  
 Gilbert, Martin, Reedley, Calif. 369,883, can. Cl. 46.  
 Gladness Bakeries, Inc., d. b. a. One-Step Products, Minneapolis, Minn. 608,447, pub. 4-12-55. Cl. 46.  
 Globe Slicing Machine Co., Inc., Stamford, Conn. 608,286, pub. 4-12-55. Cl. 26.  
 Glostex Products, Inc., Chicago, Ill. 506,124, can. Cl. 42.  
 Goers Flour Mills Co., Newton, Kans. 124,453, can. Cl. 46.  
 Goodyear Tire & Rubber Co., The, Akron, Ohio. 608,334, pub. 4-12-55. Cl. 35.  
 Gourlielli: See—  
 H. R. Laboratories, Inc.  
 Gourlielli, Division of H. R. Laboratories, Inc.: See—  
 H. R. Laboratories, Inc.  
 Grand Duchess Steaks, Inc., Akron, Ohio. 608,348-9, pub. 4-12-55. Cl. 38.  
 Grant Chemical Co.: See—  
 Ratner, Walter.  
 Gray Drug Stores, Inc., of Pennsylvania: See—  
 Dutch Oven, Inc.  
 Great Atlantic and Pacific Tea Co., The, New York, N. Y. 506,014, can. Cl. 46.  
 Green Thumb Products, Toledo, Ohio. 608,452, pub. 4-5-55. Cl. 50.  
 Greene Dental Products, Hollywood, Calif. 608,287, pub. 4-5-55. Cl. 26.  
 Grief Bros. Cooperation Corp., The, Delaware, Ohio. 608,161, ren. 9-24-55. Cl. 36.  
 Gretch, Fred., Mfg. Co., The, Brooklyn, N. Y. 328,377, ren. 9-24-55. Cl. 51.  
 Grove, Howard S., to A. L. Lewis, Los Angeles, Calif. 328,434, ren. 9-24-55. Cl. 51.  
 Gulf States Paper Corp., Tuscaloosa, Ala. 608,340, pub. 4-5-55. Cl. 37.  
 Gundlach, G. P., & Co., Inc., Cincinnati, Ohio. 608,506. Cl. 46.  
 H. R. Laboratories, Inc., d. b. a. Gourlielli and as Gourlielli, Division of H. R. Laboratories, Inc., New York, N. Y. 608,475, pub. 3-29-55. Cl. 52.  
 Haelan Laboratories, Inc., Philadelphia, Pa. 608,419, pub. 4-12-55. Cl. 46.  
 Halg & Halg Ltd., Markinch, Scotland. 608,451, pub. 4-12-55. Cl. 49.  
 Hardesty, W. C., Co., Inc., New York, N. Y., by Wallace & Tiernan Inc., Belleville, N. J. 317,295, 12(c) pub. 7-5-55. Cl. 5.  
 Hasche Engineering Co., Johnson City, Tenn. 608,407. Cl. 34.  
 Hawley & Hoops, New York, N. Y., by Circus Foods Inc., San Francisco, Calif. 260,343, 12(c) pub. 7-5-55. Cl. 46.  
 Heublein, G. F., & Bro., to G. F. Heublein & Bro. Inc., Hartford, Conn. 328,424-5, ren. 9-24-55. Cl. 49.  
 Heublein, G. F., & Bro. Inc.: See—  
 Heublein, G. F., & Bro.  
 Heublein, G. F., & Bro. Inc., Hartford, Conn. 608,508. Cl. 49.  
 Hickok Mfg. Co. Inc., Rochester, N. Y. 608,164, pub. 3-1-55. Cl. 3.  
 Hickok Mfg. Co. Inc., Rochester, N. Y. 608,309, pub. 3-29-55. Cl. 28.

- High Standard Mfg. Corp., The, Hamden, Conn. 608,175, pub. 4-5-55. Cl. 9.  
 Hill, Norman W., d. b. a. M. J. Laughery Co., Pittsburgh, Pa. 608,428, pub. 4-12-55. Cl. 46.  
 Hills Bros. Coffee, Inc., San Francisco, Calif. 608,284, pub. 4-12-55. Cl. 26.  
 Hillyard Chemical Co., St. Joseph, Mo. 608,233, pub. 4-5-55. Cl. 16.  
 Hi-Test Products Co.: See—  
 Coan, N. C.  
 Hoefler's Centennial Chocolates, Inc., Ltd., Alameda, Calif. 443,619, 12(c) pub. 7-5-55. Cl. 46.  
 Hoffmann-La Roche Inc., Nutley, N. J. 325,517, ren. 6-25-55. Cl. 18.  
 Hollins, William, and Co. Ltd., Nottingham, England. 506,102, can. Cl. 42.  
 Holt, T. T., d. b. a. Rusticle Products Co., Cleveland, Ohio. 608,230, pub. 4-12-55. Cl. 16.  
 Hooker-Inter Co., Los Angeles, Calif. 506,114, can. Cl. 46.  
 Horton, Gerry: See—  
 Neimanick, R. A.  
 Horwitz, H., Co., Chicago, Ill. 608,310, pub. 3-29-55. Cl. 28.  
 Hoskins Mfg. Co., Detroit, Mich. 326,818, ren. 8-6-55. Cl. 21.  
 House Products Corp., New York, N. Y. 608,342, pub. 4-5-55. Cl. 37.  
 Hubbard Milling Co., Mankato, Minn. 608,437, pub. 4-5-55. Cl. 46.  
 Hudson, J. L., Co., The, Detroit, Mich. 205,698, can. Cl. 39.  
 Hunter Fan and Ventilating Co., Memphis, Tenn. 608,327, pub. 4-5-55. Cl. 34.  
 Huth-James Shoe Inc., Milwaukee, Wis. 608,373, pub. 4-12-55. Cl. 39.  
 Hyland, Robert J.: See—  
 Ripley, Robert L.  
 Ideal Toy Corp., Hollis, N. Y. 608,486. Cl. 22.  
 Industrial Appliance Co., Chicago, Ill., by Industrial Appliance Corp., Belleville, N. J. 100,827, 12(c) pub. 7-5-55. Cl. 6.  
 Industrial Appliance Corp.: See—  
 Industrial Appliance Co.  
 Inland Products Co.: See—  
 Meier, Arthur G.  
 Instruments Publishing Co., The: See—  
 Rimbach, Richard.  
 Interchemical Corp., New York, N. Y. 506,038, can. Cl. 42.  
 International Mutoscope Corp., Long Island City, N. Y. 608,280, pub. 2-8-55. Cl. 26.  
 International Paint Co., Inc., New York, N. Y. 608,232, pub. 4-5-55. Cl. 16.  
 International Shoe Co., St. Louis, Mo. 608,372, pub. 4-5-55. Cl. 39.  
 Interstate Dry Goods Syndicate, Huntington, W. Va. 608,363, pub. 4-12-55. Cl. 39.  
 Isenberg, William, Los Angeles, Calif. 608,226, pub. 4-5-55. Cl. 16.  
 Jackson, Byron, Co., Los Angeles, Calif. 608,301, pub. 4-19-55. Cl. 26.  
 Jacobovits & Sons Co., New York, N. Y. 608,364, pub. 4-12-55. Cl. 39.  
 Jacobson, Dorothy, Los Angeles, Calif. 608,276, pub. 4-19-55. Cl. 24.  
 Jarvis Electronics Corp., Chicago, Ill. 608,294, pub. 4-12-55. Cl. 26.  
 Jenaer Glaswerk Schott & Gen.: See—  
 Schott & Gen.  
 Jones, Robert E., San Francisco, Calif. 606,193, cor. Cl. 38.  
 Kabo, Inc., Chicago, Ill. 608,357, pub. 4-12-55. Cl. 39.  
 Kenasby & Mattison Co., Ambler, Pa. 608,330, pub. 4-5-55. Cl. 35.  
 Keglers of America, Inc., Spokane, Wash. 506,108, can. Cl. 38.  
 Kelakos, Michael G., d. b. a. The Avenir Co., Washington, D. C. 608,328, pub. 4-5-55. Cl. 34.  
 Kellom, Chas. F., & Co., Inc., Philadelphia, Pa. 608,219, pub. 4-12-55. Cl. 13.  
 Key Boiler Equipment Co., Inc., by Key Co., East St. Louis, Ill. 267,788, 12(c) pub. 7-5-55. Cl. 12.  
 Key Co.: See—  
 Key Boiler Equipment Co., Inc.  
 Kingman, Russell B., Orange, N. J. 608,471, pub. 4-12-55. Cl. 52.  
 Kohnstamm, H., & Co., Inc., New York, N. Y. 608,171, pub. 4-12-55. Cl. 6.  
 Kohn-Pak Sales Corp., to The Akwell Corp., Akron, Ohio. 327,461, ren. 8-27-55. Cl. 44.  
 Kool Breeze Awning Co., d. b. a. Kool-Breeze Mfg. Co., Salt Lake City, Utah. 608,183, pub. 4-12-55. Cl. 12.  
 Kool-Breeze Mfg. Co.: See—  
 Kool Breeze Awning Co.  
 Kramer, Herman, d. b. a. Kramer Mfg. Co., Tulsa, Okla. 362,351, can. Cl. 23.  
 Kramer Mfg. Co.: See—  
 Kramer, Herman.  
 Krank, Alfred J., St. Paul, Minn. 170,193, can. Cl. 6.  
 Kress, S. H., and Co., New York, N. Y. 608,427, pub. 4-5-55. Cl. 46.  
 Kurer-Empson Co., Brighton, Colo. 608,424-5, pub. 4-12-55. Cl. 46.  
 L. B. Chemical Co., The: See—  
 L. B. Drug Co., The.  
 L. B. Drug Co., The, to The L. B. Chemical Co., Gadsden, Ala. 322,039, ren. 2-26-55. Cl. 18.  
 L & W Co., The Lebanon, Oreg. 608,249, pub. 4-5-55. Cl. 21.  
 Laboratoire Garnier, Paris, France. 506,112, can. Cl. 6.  
 Laboratory Equipment Corp., St. Joseph, Mich. 394,757, 12(c) pub. 7-5-55. Cl. 26.  
 Laclede-Christy Clay Products Co., to Laclede-Christy Co., St. Louis, Mo. 325,499, ren. 6-25-55. Cl. 12.



Laclede-Christy Co.: See—  
Laclede-Christy Clay Products Co.  
Laclede-Christy Co. of Pa., Osceola Mills, Pa. 608,188, pub. 4-5-55. Cl. 12.  
Lady Kenlyn, Ltd., New York, N. Y. 608,370, pub. 4-12-55. Cl. 39.  
Lauder, Estée, d. b. a. Estée Lauder Cosmetic Co., New York, N. Y. 608,460, pub. 4-12-55. Cl. 51.  
Lauder, Estée, Cosmetic Co.: See—  
Lauder, Estée.  
Laughery, M. J. Co.: See—  
Hill, Norman W.  
Lee Ltd., Beverly Hills, Calif. 608,459, pub. 4-12-55. Cl. 51.  
Leone, Celestine J., Hallendale, Fla. 608,443, pub. 4-12-55. Cl. 46.  
Le Tourneau, R. G., Inc., Longview, Tex., and Vicksburg, Miss. 322,113, ren. 2-26-55. Cl. 23.  
Lever Brothers Co., New York, N. Y. 608,477, pub. 4-5-55. Cl. 52.  
Lewis, Arnold L.: See—  
Grove, Howard S.  
Libby, McNeill & Libby, Chicago, Ill. 320,977, ren. 1-15-55. Cl. 48.  
Liberty Glass Co., Sapulpa, Okla. 608,319, pub. 4-10-55. Cl. 33.  
Liberty Mills, San Antonio, Tex. 333,939, can. Cl. 46.  
Lilly, Eli, and Co., Indianapolis, Ind. 328,662, ren. 10-1-55. Cl. 18.  
Linen Thread Co., Inc., The, New York, N. Y. 608,387, pub. 4-12-55. Cl. 42.  
Little-Beaver Co., The, Baltimore, Md. 608,187, pub. 4-5-55. Cl. 12.  
Lord Baltimore Press, Inc., The, Baltimore, Md. 608,346, pub. 4-12-55. Cl. 38.  
Los Angeles Soap Co., Los Angeles, Calif. 506,020, can. Cl. 4.  
Louisville Cement Co., Louisville, Ky. 327,135, ren. 8-20-55. Cl. 12.  
Lucky Tiger Mfg. Co., Kansas City, Mo. 608,463, pub. 4-12-55. Cl. 51.  
Ludw. Loewe & Co. Aktiengesellschaft, West Berlin, Germany. 608,258, pub. 4-5-55. Cl. 23.  
Luxana, S. A., Barcelona, Spain. 506,071, can. Cl. 6.  
Machermid Inc., Waterbury, Conn. 608,473, pub. 4-12-55. Cl. 52.  
MacMillan & Bloedel Ltd., Vancouver, British Columbia, Canada. 608,185, pub. 4-5-55. Cl. 12.  
Macy, R. H., & Co., Inc., New York, N. Y. 608,166, pub. 3-22-55. Cl. 3.  
Macy, R. H., & Co., Inc., New York, N. Y. 608,358, pub. 4-5-55. Cl. 39.  
Magazine Enterprises, Inc.: See—  
Fan Male, Inc.  
Maggia, Clement, Arlington, Va. 608,490. Cl. 23.  
Mandel and Cohen, Inc., New York, N. Y. 395,831, can. Cl. 39.  
Mangel Stores, Inc., New York, N. Y. 608,369, pub. 4-5-55. Cl. 39.  
Marathon Corp., Menasha, Wis. 608,162, pub. 4-12-55. Cl. 2.  
Maremont Automotive Products, Inc., Chicago, Ill. 608,263, pub. 3-29-55. Cl. 23.  
Mar-Gold Corp., The, Atlanta, Ga. 608,502. Cl. 46.  
Marlboro Beverage Co.: See—  
Beverage Distributors, Inc.  
Marswell, Inc., Wantagh, N. Y. 249,830, can. Cl. 6.  
Marx-All Corp., The, Portland, Oreg. 608,283, pub. 4-10-55. Cl. 26.  
Maryland Pikesville Distillery, Inc., to V. and J. V. Flacomio, Baltimore, Md. 324,792, ren. 6-4-55. Cl. 49.  
May Co.: See—  
May Department Stores Co., The.  
May Department Stores Co., The, d. b. a. May Co., St. Louis, Mo. 608,448, pub. 4-12-55. Cl. 46.  
McDonald, Robert L., d. b. a. Ever-Kleen Sales Co., San Diego, Calif. 506,127, can. Cl. 36.  
McIlhenny Co., New Iberia, La. 608,402, pub. 4-12-55. Cl. 46.  
McIlhenny Co., New Iberia, La. 608,422, pub. 3-1-55. Cl. 46.  
McKenna, H., Inc., to H. McKenna, Inc., Fairfield, Ky. 324,832, ren. 6-4-55. Cl. 49.  
Mead, William H., d. b. a. Presteel Co., El Monte, Calif. 608,267, pub. 3-29-55. Cl. 23.  
Mechanical Home Systems, Inc., Chicago, Ill. 505,957, can. Cl. 34.  
Medford Veneer and Plywood Corp., White City, Oreg. 608,196, pub. 4-12-55. Cl. 12.  
Medmetics, Inc., Seattle, Wash. 608,468, pub. 4-12-55. Cl. 52.  
Meier, Arthur G., d. b. a. Inland Products Co., Roanoke, Va. 608,157, pub. 4-5-55. Cl. 1.  
Mepro Co., Chicago, Ill. 608,295, pub. 4-5-55. Cl. 26.  
Merced Publishing Co., Des Moines, Iowa. 608,350, pub. 4-12-55. Cl. 38.  
Merit Enterprises, Queens Village, New York, N. Y. 608,207, pub. 4-5-55. Cl. 13.  
Merriam Co., Inc., The, Columbus, Ohio, Baltimore, Md., and Washington, D. C., to The Colson-Merriam Co., Baltimore, Md. 506,042, can. Cl. 21.  
Meta-Fold Awning Co., Bluffton, Ohio. 395,849, can. Cl. 12.  
Metaplast Corp., Springfield, Mo. 608,275, pub. 3-29-55. Cl. 23.  
Meyer Brothers Coffee and Spice Co., St. Louis, Mo. 52,209, can. Cl. 46.  
Meyer Brothers Coffee and Spice Co., St. Louis, Mo. 69,048-50, can. Cl. 46.  
Meyer Brothers Coffee and Spice Co., St. Louis, Mo. 69,689, can. Cl. 46.  
Miller Industrial Corp., Nashville, Tenn. 608,368, pub. 4-12-55. Cl. 39.  
Miller, J. H., Mfg. Corp., Quincy, Ill. 608,457, pub. 4-5-55. Cl. 50.  
Milwaukee Cheese Co., Milwaukee, Wis. 608,403, pub. 4-5-55. Cl. 46.  
Mission Dry Corp., Los Angeles, Calif. 608,396, pub. 4-12-55. Cl. 45.  
Mission Fruit & Vegetable Co., Inc., Mission, Tex. 354,789, can. Cl. 46.  
Mitchell Mfg. Co., Chicago, Ill. 608,245, pub. 3-2-54. Cl. 21.  
Modella Mfg. Co., Port Chester, N. Y. 608,374, pub. 4-5-55. Cl. 39.  
Modena Paper Mills, Inc., Modena, Pa. 608,498. Cl. 37.  
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. 608,158, pub. 4-5-55. Cl. 1.  
Mohawk Rubber Co., The, Akron, Ohio. 608,332, pub. 4-5-55. Cl. 35.  
Mojonnier-Dawson Co., The, Franklin Park, Ill. 608,253, pub. 3-30-55. Cl. 23.  
Mullhens, Ferdinand, d. b. a. The Eau de Cologne & Parfumerie-Fabrik Glockengasse No. 4711, gegenüber der Pferdepost von Ferd. Mullhens, Cologne (Rhine), Germany. 608,461, pub. 4-12-55. Cl. 51.  
Mullane, John, Co., The, Cincinnati, Ohio. 608,421, pub. 4-12-55. Cl. 46.  
Mutation Mink Breeders Association: See—  
Silverblu Mink Breeders Association.  
Mutation Mink Breeders Association, Elkhorn, Wis. 424,306, can. Cl. 39.  
Mutation Mink Breeders Association, Elkhorn, Wis. 429,974, can. Cl. 1.  
Mutation Mink Breeders Association, Elkhorn, Wis. 539,283, can. Cl. 39.  
Mutation Mink Breeders Association, Elkhorn, Wis. 547,777, can. Cl. 1.  
Napa & Sonoma Wine Co., San Francisco, Calif. 395,554, can. Cl. 47.  
Nash, Ben, Inc., New York, N. Y. 403,186, can. Cl. 38.  
Nash, Inc., Jersey City, N. J. 608,165, pub. 2-8-55. Cl. 8.  
Nation Wide Papers, Inc., Omaha, Nebr. 336,274, can. Cl. 37.  
National Affiliates, Pacific Paint & Varnish Co.: See—  
Sears, Roebuck and Co.  
National Brass Co., Grand Rapids, Mich. 608,198, pub. 4-5-55. Cl. 13.  
National Licorice Co., Brooklyn, N. Y. 144,878, can. Cl. 46.  
National Licorice Co., Brooklyn, N. Y. 186,099, can. Cl. 88.  
National Oil Products Co.: See—  
Nopco Chemical Co.  
National Retailer-Owned Grocers, Inc.: See—  
Northern Paper Mills.  
Nemanick, R. A., Sallinas, by G. Horton, El Centro and Watsonville, Calif. 378,163, 12(c) pub. 7-5-55. Cl. 46.  
Nemanick, R. A., Watsonville, by G. Horton, El Centro and Watsonville, Calif. 423,581, 12(c) pub. 7-5-55. Cl. 46.  
New England Church Supply Co., Inc., Springfield, Mass. 608,453, pub. 4-5-55. Cl. 50.  
New York Trust Co., The: See—  
Ripley, Robert L.  
Nopco Chemical Co., Harrison, N. J., by change of name from National Oil Products Co. 505,913, can. Cl. 6.  
Norcross, Inc., New York, N. Y. 608,500. Cl. 38.  
Nordberg, Earl, Selah, Wash. 608,438, pub. 4-5-55. Cl. 46.  
Northern Paper Mills, Green Bay, Wis., to National Retailer-Owned Grocers, Inc., Chicago, Ill. 320,812, ren. 1-8-55. Cl. 37.  
Norton, Harold A., Chippewa Falls, Wis. 608,199, pub. 4-5-55. Cl. 13.  
Nuodex Products Co., Inc., Elizabeth, N. J. 608,170, pub. 4-12-55. Cl. 6.  
Nutrena Mills, Inc., Minneapolis, Minn. 608,429-30, pub. 4-5-55. Cl. 46.  
Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. 608,314, pub. 4-10-55. Cl. 30.  
Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. 608,318, pub. 4-10-55. Cl. 33.  
O-Cedar Corp., to American-Marletta Co., Chicago, Ill. 327,550, ren. 8-27-55. Cl. 29.  
Ohio Oil Co., The, Findlay, Ohio. 608,222, pub. 3-29-55. Cl. 15.  
Olsen-Montgomery Yacht Corp., St. Simons Island, Ga. 608,240, pub. 4-12-55. Cl. 19.  
Omaha Cold Storage Co., d. b. a. Bellevue Creamery & Produce Co., Omaha, Nebr. 506,003, can. Cl. 46.  
One-Step Products: See—  
Gladness Bakeries, Inc.  
Orange Products Sales, Inc., Winter Haven, Fla. 608,503. Cl. 46.  
Organizol Corp., New York, N. Y. 608,221, pub. 8-29-55. Cl. 15.  
Osberghaus, Rudolf, Solingen, Germany. 608,254, pub. 3-29-55. Cl. 23.  
Oskaloosa Mfg. Co., Oskaloosa, Iowa. 608,159, pub. 4-12-55. Cl. 2.  
Ox Fibre Brush Co., Inc., New York, N. Y. 391,913, can. Cl. 29.  
Pace, Frank, Co., New York, N. Y. 608,360, pub. 4-12-55. Cl. 39.  
Pacific Bowling & Billiard Co.: See—  
Seattle Bowling & Billiard Supply, Inc.  
Pacific Sea Products, Inc., San Francisco, Calif. 608,449, pub. 4-12-55. Cl. 46.  
Pacific Tire & Rubber Co., Oakland, Calif. 608,335-6, pub. 4-12-55. Cl. 35.  
Paramount Textile Machinery Co., Chicago, Ill. 608,492. Cl. 23.  
Parker, Jane, Inc., New York, N. Y. 608,362, pub. 4-12-55. Cl. 39.

Patrol Valve Co., The, Cleveland, Ohio. 608,324, pub. 4-12-55. Cl. 34.  
Patt, Conrad J., Chicago, Ill. 505,947, can. Cl. 13.  
Penbody Leather Co., Inc., Quakertown, Pa. 201,715, can. Cl. 1.  
Penens Corp., Schiller Park, Ill. 608,272, pub. 3-29-55. Cl. 23.  
Pennsylvania Salt Mfg. Co., The, Philadelphia, Pa. 608,172, pub. 4-12-55. Cl. 6.  
Pennsylvania Salt Mfg. Co., The, Philadelphia, Pa. 608,470, pub. 4-5-55. Cl. 52.  
Pep Boys—Manny, Moe & Jack, The, Philadelphia, Pa. 608,218, pub. 4-5-55. Cl. 15.  
Perfecut Scissors Co., Oklahoma City, Okla. 430,282, can. Cl. 23.  
Pet Milk Co., St. Louis, Mo. 328,212, ren. 9-17-55. Cl. 46.  
Peterson Mfg. Co., Inc., Kansas City, Mo. 608,322, pub. 4-12-55. Cl. 34.  
Pettibone Mulliken Corp.: See—  
Heardsley & Piper Co., The.  
Pfeiffer Glass, Inc.: See—  
Pfeiffer, William.  
Pfeiffer, William, to Pfeiffer Glass, Inc., Rochester, N. Y. 327,906, ren. 9-10-55. Cl. 26.  
Philadelphia Quartz Co., Philadelphia, Pa. 198,672, can. Cl. 5.  
Philco Corp., Philadelphia, Pa. 608,246, pub. 4-12-55. Cl. 21.  
Piver, L. T. & Cie., to Societe Anonyme Parfumerie L. T. Piver, Paris, France. 43,686, ren. 11-8-54. Cl. 52.  
Plymouth Wholesale Dry Goods Corp., New York, N. Y. 506,116, can. Cl. 1.  
Polaroid Corp., Cambridge, Mass. 608,297, pub. 4-5-55. Cl. 26.  
Poldihutte Tiegelgußstahlfabrik, Vienna and Kladno, Austria-Hungary, to Spojene Ocelarny, Narodni podnik (United Steel Works, National Corp.), Kladno, Czechoslovakia. 103,206, ren. 3-23-55. Cl. 14.  
Polecats, Inc., Lyme, Conn. 608,200, pub. 4-5-55. Cl. 13.  
Pollak, Henry, Inc., to Pollak Industrial Corp. (Henry Pollak Co. Division), New York, N. Y. 319,609, ren. 12-4-54. Cl. 39.  
Pollak, Henry, Inc., to Pollak Industrial Corp. (Henry Pollak Co. Division), New York, N. Y. 320,503, ren. 1-1-55. Cl. 39.  
Pollak, Henry, Inc., to Pollak Industrial Corp. (Henry Pollak Co. Division), New York, N. Y. 324,095, ren. 5-14-55. Cl. 39.  
Pollak Industrial Corp. (Henry Pollak Co. Division): See—  
Pollak, Henry, Inc.  
Poly-Seal Corp., The, New York, N. Y. 608,455-6, pub. 6-15-54. Cl. 50.  
Poodle Products, Saratoga, Calif. 608,436, pub. 4-5-55. Cl. 46.  
Popper Morson Co.: See—  
Popper Morson Co., Inc.  
Popper Morson Co., Inc., Jersey City, N. J., by Popper Morson Co., New York, N. Y. 314,025, 12(c) pub. 7-5-55. Cl. 49.  
Popper Morson Co., Inc., Jersey City, N. J., by Popper Morson Co., New York, N. Y. 314,421, 12(c) pub. 7-5-55. Cl. 49.  
Post Institute, Inc., Tarpon Springs, Fla. 608,465, pub. 4-5-55. Cl. 52.  
Powell Mfg. Co.: See—  
Powell, Vernon W.  
Powell, Vernon W., d. b. a. Powell Mfg. Co., Decatur, Ill. 608,290, pub. 4-5-55. Cl. 26.  
Powers Samas Accounting Machines Ltd., London, England. 608,303, pub. 4-19-55. Cl. 26.  
Presteel Co.: See—  
Mead, William H.  
Price Candy Co., Kansas City, Mo. 608,399, pub. 2-6-51. Cl. 46.  
Prince Ice Cream Castles, Inc., Sterling, Ill. 608,400, pub. 7-21-53. Cl. 46.  
Prince Matchabell, Inc.: See—  
Prince Matchabell Perfumery, Inc.  
Prince Matchabell Perfumery, Inc., to Prince Matchabell, Inc., New York, N. Y. 325,984, ren. 7-9-55. Cl. 51.  
Procter & Gamble Co., The, Cincinnati, Ohio. 608,426, pub. 4-5-55. Cl. 46.  
Producers' Crop Improvement Association, Piper City, Ill. 391,197, can. Cl. 1.  
Producers Poultry Corp., Buffalo, N. Y. 608,416, pub. 4-5-55. Cl. 46.  
Puritan Stationery Co., Inc., Philadelphia, Pa. 608,341, pub. 4-5-55. Cl. 37.  
Quaker Oats Co., The, Chicago, Ill. 608,312, pub. 3-29-55. Cl. 30.  
R. & E. Engineering Co., Culver City, Calif. 608,279, pub. 4-19-55. Cl. 25.  
Racine Hydraulics & Machinery, Inc., Racine, Wis. 608,206, pub. 4-5-55. Cl. 13.  
Radio Corp. of America, New York, N. Y. 608,298, pub. 4-19-55. Cl. 26.  
Rainier Pulp & Paper Co., San Francisco, Calif., to Rayonier Inc., New York, N. Y. 322,480-1, ren. 3-5-55. Cl. 1.  
Rainier Pulp & Paper Co., San Francisco, Calif., to Rayonier Inc., New York, N. Y. 323,181, ren. 4-2-55. Cl. 1.  
Ranides Grocery Co., Inc., Alexandria, La. 220,541, can. Cl. 46.  
Rare Chemicals, Inc., Harrison, N. J. 505,922, can. Cl. 6.  
Ratner, Walter, d. b. a. Grant Chemical Co., Chicago, Ill. 608,476, pub. 4-5-55. Cl. 52.  
Rayonier Inc.: See—  
Rainier Pulp & Paper Co.  
Reading Plastics Co., Reading, Pa. 608,168, pub. 3-29-55. Cl. 5.  
Reckalek, M. G., Burbank, Calif. 608,417, pub. 4-12-55. Cl. 46.  
Red Cedar Shingle Bureau, Seattle, Wash. 367,764, 12(c) pub. 7-5-55. Cl. 12.  
Red Jacket Coal Sales Co., Columbus, Ohio. 506,043, can. Cl. 1.  
Remington Watch Co. of America: See—  
Wolfe, Alan D.  
Rensie Watch Co., Inc., New York, N. Y. 608,307, pub. 4-19-55. Cl. 27.  
Rexall Drug Co.: See—  
United Drug Co.  
Richmond-Chase Co., San Jose, Calif. 242,966, can. Cl. 46.  
Rilling Dermetics Co., New York, N. Y. 608,464, pub. 12-15-53. Cl. 52.  
Rimbach, Richard, d. b. a. The Instruments Publishing Co., Pittsburgh, Pa. 608,499. Cl. 38.  
Ringier, F. A., Co., New York, N. Y. 608,282, pub. 4-12-55. Cl. 26.  
Ripley, Robert L., Mamaroneck, by R. J. Hyland and The New York Trust Co., trustees of The Estate of R. L. Ripley, New York, N. Y. 355,388, 12(c) pub. 7-5-55. Cl. 38.  
Ripley, Robert L., Mamaroneck, by R. J. Hyland and The New York Trust Co., trustees of The Estate of R. L. Ripley, New York, N. Y. 355,396, 12(c) pub. 7-5-55. Cl. 38.  
Ripley, Robert L., The Estate of: See—  
Ripley, Robert L.  
Ripley, Robert L., by R. J. Hyland and The New York Trust Co., trustees of The Estate of R. L. Ripley, New York, N. Y. 198,531, 12(c) pub. 7-5-55. Cl. 38.  
Riverside Mfg. Co., St. Louis, Mo. 608,474, pub. 3-29-55. Cl. 52.  
Robinson Brick and Tile Co., The, Denver, Colo. 608,195, pub. 4-12-55. Cl. 12.  
Robinson, Joe W., Long Beach, Calif. 608,167, pub. 4-12-55. Cl. 4.  
Rockingham Poultry Marketing Cooperative, Inc., Broadway, Va. 608,440, pub. 4-12-55. Cl. 46.  
Rogers Co., Inc., Dallas, Tex. 608,344, pub. 4-5-55. Cl. 37.  
Rosenfeld, L., & Co., Inc., New York, N. Y. 506,120, can. Cl. 21.  
Rossman, Jerry, Corp., New York, N. Y. 608,384, pub. 4-12-55. Cl. 42.  
Rotron Mfg. Co., Inc., Woodstock, N. Y. 608,248, pub. 2-15-55. Cl. 21.  
Rotron Mfg. Co., Inc., Woodstock, N. Y. 608,252, pub. 4-5-55. Cl. 21.  
Russell Reinforced Plastics Corp., Lindenhurst, N. Y. 608,186, pub. 4-5-55. Cl. 12.  
Rusticide Products Co.: See—  
Holt, T. T.  
Ryan, Francis B., Charlton, Iowa. 608,255, pub. 3-29-55. Cl. 23.  
Sacharow, Benjamin F., New York, N. Y. 505,921, can. Cl. 6.  
Sacks, Louis, Newark, N. J. 27,975, can. Cl. 13.  
Safeway Stores Inc.: See—  
Beverage Distributors, Inc.  
Saint Cornelius the Centurion Chapel of Valley Forge Military Academy: See—  
Younghusband, James L.  
Salzburg, Joel S., Rockville Centre, N. Y. 608,482. Cl. 19.  
Sanchez, Manuel, d. b. a. Tri-Way Gage Co., Detroit, Mich. 608,494. Cl. 26.  
Schoeneman, J., Inc., Baltimore, Md. 321,202, ren. 1-22-55. Cl. 39.  
Schott & Gen., Jena, to Jenaer Glaswerk Schott & Gen., Mainz, Federal Republic of Germany. 103,970, ren. 4-20-55. Cl. 33.  
Sconzo & Sons, Bayport, N. Y. 608,191, pub. 3-29-55. Cl. 12.  
Seamless Rubber Co., The, New Haven, Conn. 608,394, pub. 4-5-55. Cl. 44.  
Sears, Roebuck and Co., Chicago, Ill. 608,208-9, pub. 4-5-55. Cl. 13.  
Sears, Roebuck and Co., d. b. a. National Affiliates, Pacific Paint & Varnish Co., etc., Chicago, Ill. 608,284, pub. 4-5-55. Cl. 16.  
Seattle Bowling & Billiard Supply, Inc., Seattle, Wash., now by change of name Pacific Bowling & Billiard Co. 608,231, pub. 4-5-55. Cl. 16.  
Security Mills, Inc., New York, N. Y. 608,501. Cl. 42.  
Seeburger, Charles D., New York, N. Y. 34,724, can. Cl. 23.  
Seeman Brothers, Inc., New York, N. Y. 506,004, can. Cl. 46.  
Selfert, Donald, d. b. a. Selfert Mfg. Co., Highland Park, Mich. 608,280, pub. 4-5-55. Cl. 26.  
Selfert Mfg. Co.: See—  
Selfert, Donald.  
Selas Corp. of America, Philadelphia, Pa. 608,315, pub. 4-5-55. Cl. 31.  
Shakespeare Co., Kalamazoo, Mich. 325,807, ren. 7-2-55. Cl. 22.  
Shaw, Alex. D., & Co., Inc., New York, N. Y., to Duff Gordon & Co., Port St. Mary's, Spain. 327,844, ren. 9-3-55. Cl. 47.  
Sheffield Bronze Paint Corp., Cleveland, Ohio. 608,236, pub. 4-5-55. Cl. 16.  
Shelby Craftco Corp., Chicago, Ill. 505,975, can. Cl. 50.  
Sherman, Sol, New York, N. Y. 432,542, 12(c) pub. 7-5-55. Cl. 39.  
Sherwin-Williams Co., The, Cleveland, Ohio. 413,522, can. Cl. 50.  
Shillman, A. & H., Co., Inc., Baltimore, Md. 608,392, pub. 4-12-55. Cl. 43.  
Silverblu Mink Breeders Association, Elkhorn, Wis., now by change of name Mutation Mink Breeders Association. 415,719, can. Cl. 1.



Silverblu Mink Breeders Association, Elkhorn, Wis., now by change of name Mutation Mink Breeders Association. 415,720, can. Cl. 39.  
 Skirvin Corp., Indianapolis, Ind. 608,239, pub. 4-12-55. Cl. 19.  
 Smith, D. B. & Co., Inc., Utica, N. Y. 608,264-5, pub. 3-1-55. Cl. 23.  
 Smith Equipment and Supply Co., Chicago, Ill. 608,176, pub. 1-26-54. Cl. 10.  
 Smoke Cookery Inc., New York, N. Y. 608,326, pub. 4-12-55. Cl. 34.  
 Snell, Foster D., Inc., New York, N. Y. 608,351, pub. 4-12-55. Cl. 38.  
 Snelling Dog Food Co., Bay City, Mich. 608,444, pub. 4-5-55. Cl. 46.  
 Société à Responsabilité Limitée dite: Manufactures de Senones (Vosges), Paris, France. 608,359, pub. 3-29-55. Cl. 39.  
 Société à Responsabilité Limitée dite: Manufactures de Senones (Vosges), Paris, France. 608,361, pub. 4-12-55. Cl. 39.  
 Societe Anonyme Parfumerie L. T. Piver: See—  
 Piver, L. T. & Co.  
 Solvay Process Co., The, Syracuse, N. Y. 293,160, can. Cl. 52.  
 Solvay Process Co., The, New York, N. Y. 370,453, can. Cl. 6.  
 Solvay Process Co., The, New York, N. Y. 375,563, can. Cl. 6.  
 Sostrin Food Prod.: See—  
 Sostrin, Milton.  
 Sostrin, Milton, d. b. a. Sostrin Food Prod., Chicago, Ill. 608,420, pub. 4-5-55. Cl. 46.  
 Southland Coffee Co., Inc., Atlanta, Ga. 608,504. Cl. 46.  
 Spaulding Industries, Inc., Chicago, Ill. 608,489. Cl. 23.  
 Spiro, Jack, & Co., Inc., New York, N. Y. 429,843, 12(c) pub. 7-5-55. Cl. 39.  
 Spojene Ocelarny, Narodni podnik (United Steel Works, National Corp.): See—  
 Poldhutte Tiegelgussstahlfabrik.  
 Standard Brands Inc., New York, N. Y. 608,442, pub. 4-12-55. Cl. 46.  
 Standard Industrial Products, Inc., Evansville, Ind. 608,223, pub. 12-30-52. Cl. 16.  
 Standard-Toch Chemicals, Inc., Staten Island, N. Y. 608,291, pub. 4-5-55. Cl. 26.  
 Stein Bros. Mfg. Co., Chicago, Ill. 608,237, pub. 4-12-55. Cl. 19.  
 Sterling Drug Inc.: See—  
 Watkins, R. L. Co., The.  
 Stetson China Co., Inc., Lincoln, Ill. 608,313, pub. 4-10-55. Cl. 30.  
 Stoeger Arms Corp., New York, N. Y. 608,174, pub. 4-5-55. Cl. 6.  
 Stresen-Reuter, Fred'k A., Inc., Chicago, Ill. 608,224, pub. 3-22-55. Cl. 16.  
 Strongbow Turkey Farm and Inn: See—  
 Thrun, B. Russell.  
 Styl-Optics, Inc., New York, N. Y. 608,304, pub. 4-10-55. Cl. 26.  
 Suamico Machine & Tool Co.: See—  
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 Surface Coating Engineers: See—  
 Billingham, M. C. J., Inc.  
 Synfoam Yarns, Inc., Lowell, Mass. 608,391, pub. 4-12-55. Cl. 43.  
 Taylor, Halsey W., Co., The, Warren, Ohio. 608,201, pub. 3-22-55. Cl. 13.  
 Technical Equipment Corp., Denver, Colo. 608,296, pub. 4-5-55. Cl. 26.  
 Terven, Lewis A., d. b. a. Lewis A. Terven Co., to Lewis A. Terven Co., Salinas, Calif. 506,024, can. Cl. 46.  
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 Terven, Lewis A.  
 Texas Star Flour Mills, Galveston, Tex. 147,175, can. Cl. 46.  
 Texas Star Flour Mills, Galveston, Tex. 153,022, can. Cl. 46.  
 Texas Star Flour Mills, Galveston, Tex. 159,129, can. Cl. 46.  
 Tex Tan of Yoakum, Yoakum, Tex. 608,376-8, pub. 4-5-55. Cl. 39.  
 Thompson Chemical Co., Pawtucket, R. I. 434,925, can. Cl. 6.  
 Thrun, B. Russell, d. b. a. Strongbow Turkey Farm and Inn, Valparaiso, Ind. 608,410, pub. 4-5-55. Cl. 46.  
 Timmons & Charles, Jersey City, N. J. 608,281, pub. 2-12-55. Cl. 26.  
 Tobacco By-Products and Chemical Corp., Louisville, Ky. 352,421, can. Cl. 23.  
 Tobacco World Corp., The, Philadelphia, Pa. 506,084, can. Cl. 38.  
 Toddler Craft Co., Philadelphia, Pa. 608,352, pub. 4-12-55. Cl. 39.  
 Trenton Foods, Inc., Kansas City, Mo. 608,435, pub. 4-12-55. Cl. 46.  
 Trio Novelty Mfg. Corp., New York, N. Y. 608,277, pub. 12-28-54. Cl. 24.  
 Trison Mfg. Co., Jersey City, N. J. 608,259, pub. 3-29-55. Cl. 23.  
 Tri-Way Gage Co.: See—  
 Sanchez, Manuel.  
 Techanz, John, d. b. a. All-Craft Mfg. Co., Butler, Wis. 608,458, pub. 4-5-55. Cl. 50.  
 Tubewrights Ltd., London, England. 608,181-2, pub. 3-15-55. Cl. 12.  
 Union Carbide and Carbon Corp.: See—  
 Carbide and Carbon Chemicals Corp.

Union Commerciale des Glaceries Belges, Société Anonyme, Saint-Gilles-Bruxelles, Belgium. 608,317, pub. 4-19-55. Cl. 33.  
 Union Special Machine Co., Chicago, Ill. 103,738, ren. 4-13-55. Cl. 23.  
 United Chemical Corp. of New Mexico, Hobbs, N. Mex. 608,173, pub. 4-12-55. Cl. 6.  
 United Drug Co., Boston, Mass., to Rexall Drug Co., Los Angeles, Calif. 104,657, ren. 6-8-55. Cl. 22.  
 U S Chemical & Supply Co., Kansas City, Mo. 608,469, pub. 4-5-55. Cl. 52.  
 U. S. Cordage Co., Inc., New York, N. Y. 608,480. Cl. 7.  
 Vaco Products Co., Chicago, Ill. 608,268, pub. 3-29-55. Cl. 23.  
 Valentine & Co., New York, N. Y. 261,568, can. Cl. 16.  
 Valley Paper Co., Holyoke, Mass. 608,338, pub. 9-28-54. Cl. 37.  
 Valvoline Oil Co., Edgewater, N. J., and New York, N. Y., to Ashland Oil & Refining Co., Ashland, Ky. 327,503, ren. 8-27-55. Cl. 6.  
 Van Munching Imports, Inc., New York, N. Y. 608,509. Cl. 40.  
 Victory Packing Co., to Calo Dog Food Co., Inc., Oakland, Calif. 328,291, ren. 9-24-55. Cl. 46.  
 Viking Industries, Ltd., New York, N. Y. 608,308, pub. 4-19-55. Cl. 28.  
 Vimcar Sales Co., Van Nuys, Calif. 608,325, pub. 4-12-55. Cl. 34.  
 Vimcar Sales Co., Van Nuys, Calif. 608,329, pub. 4-5-55. Cl. 35.  
 Walker, Hiram, & Sons Inc.: See—  
 Walker, Hiram, & Sons Ltd.  
 Walker, Hiram, & Sons Ltd., Walkerville, Ontario, Canada, to Hiram Walker & Sons Inc., Peoria, Ill. 324,867, ren. 6-4-55. Cl. 49.  
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 Hardesty, W. C., Co., Inc.  
 Wallace & Tiernan Products, Inc., Belleville, N. J. 506,103, can. Cl. 6.  
 Wallingford Steel Co., The, Wallingford, Conn. 608,211-12, pub. 4-19-55. Cl. 14.  
 Walters, Edgar B., Organization Inc., New York, N. Y. 323,894, ren. 5-7-55. Cl. 42.  
 Warner Bros. Pictures, Inc., New York, N. Y. 327,807, ren. 9-3-55. Cl. 26.  
 Watkins, R. L. Co., The, Cleveland, Ohio, to Sterling Drug Inc., New York, N. Y. 105,681, ren. 8-10-55. Cl. 52.  
 Weather-Proof Co., The, Cleveland, Ohio. 608,192, pub. 3-29-55. Cl. 12.  
 Wellcome, Henry S., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 44,219, ren. 2-21-55. Cl. 6.  
 West Coast Sales & Service Co., Tulare, Calif. 608,242, pub. 4-12-55. Cl. 19.  
 Western Auto Supply Co., Kansas City, Mo. 327,257, ren. 8-20-55. Cl. 31.  
 Western Condensing Co., Petaluma, Calif. 608,481. Cl. 18.  
 Western (Illinois) Venetian Blind Co., Chicago, Ill. 384,335, can. Cl. 32.  
 Western Plastics Corp., Tacoma, Wash. 608,203, pub. 4-5-55. Cl. 13.  
 Weston Electrical Instrument Corp., Newark, N. J. 608,299, pub. 4-19-55. Cl. 26.  
 Weymouth Shoe Co., Lewiston, Maine. 608,353-4, pub. 4-5-55. Cl. 39.  
 Wham-O Mfg. Co.: See—  
 Wham-O Powermaster Corp.  
 Wham-O Powermaster Corp., d. b. a. Wham-O Mfg. Co., Alhambra, Calif. 608,485. Cl. 22.  
 White Stag Mfg. Co., Portland, Ore. 608,367, pub. 4-12-55. Cl. 39.  
 Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. 422,480, can. Cl. 46.  
 Whiz Fish Products Co.: See—  
 Whiz Fish Products Co., Inc.  
 Whiz Fish Products Co., Inc., d. b. a. Whiz Fish Products Co., Seattle, Wash. 608,432, pub. 4-5-55. Cl. 46.  
 Widmer's Wine Cellars, Inc., Naples, N. Y. 326,816, ren. 8-6-55. Cl. 47.  
 Windy Wood Farm, Barre, Vt. 608,433, pub. 4-12-55. Cl. 46.  
 Winslow Enterprises, Inc., Minneapolis, Minn. 608,484. Cl. 22.  
 Winthrop Chemical Co., Inc., to Winthrop-Stearns Inc., New York, N. Y. 327,372, ren. 8-27-55. Cl. 18.  
 Winthrop Mfg. Co., Inc., Brooklyn, N. Y. 608,193, pub. 3-29-55. Cl. 12.  
 Winthrop-Stearns Inc.: See—  
 Winthrop Chemical Co., Inc.  
 Wolfe, Alan D., d. b. a. Remington Watch Co. of America, Chicago, Ill. 608,495. Cl. 27.  
 Wolfe, Tom J., d. b. a. Effow Co., Waco, Tex. 608,479. Cl. 6.  
 Wolferman, Fred, Inc., Kansas City, Mo. 608,418, pub. 4-12-55. Cl. 46.  
 Wooden Shoe Brewing Co., The, Minster, Ohio. 506,027, can. Cl. 48.  
 Wooster Finishes Corp., Wooster, Ohio. 608,235, pub. 4-5-55. Cl. 16.  
 Younghusband, James L., Chicago, Ill., to Saint Cornelius the Centurion Chapel of Valley Forge Military Academy, Wayne, Pa. 608,462, pub. 4-12-55. Cl. 51.  
 Yugen-Kaisha Sanei Sangyo, Setagaya, Setagaya-ku, Tokyo-to, Japan. 608,493. Cl. 26.  
 Zell Products Corp.: See—  
 Zell Products Corp., The.  
 Zell Products Corp., The, d. b. a. Zell Products Corp., Norwalk, Conn. 608,160, pub. 4-12-55. Cl. 2.

U. S. GOVERNMENT PRINTING OFFICE: O—1995

# OFFICIAL GAZETTE + UNITED STATES PATENT OFFICE

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## PATENTS NOTICES

### Adjudicated Patents

(D. C. Ill.) Kirby Patent No. 1,969,176, for a washing machine. Claims 7, 20, 21, 22, 29, and 45 Held invalid and not infringed. *The Apex Electrical Manufacturing Company v. Altorfer Bros. Company*, 130 F. Supp. 152; 105 USPQ 94.

(D. C. Del.) Hall Patent No. 2,002,891, for bronze, bronze powders, and method of making the same. Claims 2 to 5, 7, and 10 Held valid and infringed. *Metals Disintegrating Company, Inc. v. Reynolds Metals Company*, 130 F. Supp. 227; 104 USPQ 361.

(D. C. Ill.) Motycka Patent No. 2,033,146, for a washing machine. Claims 15 to 17 Held invalid and not infringed. *The Apex Electrical Manufacturing Company v. Altorfer Bros. Company*, 130 F. Supp. 152; 105 USPQ 94.

(D. C. Ill.) Te Pas Patent No. 2,060,454, for a centrifugal laundry extractor. Claims 1 and 2 Held invalid and not infringed. *Id.*

(D. C. Wash.) Wood, Smith, and McGeachy Patent No. 2,076,330, for measurement of distances by echo reception method. Claim 4 Held valid but not infringed. *National-Simplex-Bludworth, Inc., et al. v. Prothero et al., doing business as Prothero Boat Co.*, 130 F. Supp. 146; 104 USPQ 140.

(D. C. Ill.) Kirby Patent No. 2,105,218, for a laundry machine. Claims 2 and 6 Held invalid and not infringed. *The Apex Electrical Manufacturing Company v. Altorfer Bros. Company*, 130 F. Supp. 152; 105 USPQ 94.

(D. C. Del.) Ziehl Patent No. 2,144,953, for bronze or metallic paste pigments. Claims 1, 3, and 4 Held valid and infringed. *Metals Disintegrating Company, Inc. v. Reynolds Metals Company*, 130 F. Supp. 227; 104 USPQ 361.

(D. C. N. J.) Frank and Macy Patent No. 2,493,063, for sausage, Held invalid. *Tipper Tie, Inc., et al. v. Hercules Fasteners, Inc.*, 130 F. Supp. 3; 105 USPQ 182.

### Disclaimer

2,468,741.—*John H. Emerson*, Cambridge, Mass. BREATHING APPARATUS. Patent dated May 3, 1949. Disclaimer filed June 14, 1955, by the inventor.

Hereby enters this disclaimer to claims 1 to 8 inclusive, and claims 10 to 18 inclusive of said patent.

### Patents Available for Licensing or Sale

2,710,393. Fire Alarm. Ralph Goldberg, 4848 Pimlico Road, Baltimore 15, Md.

2,708,435. Humidifier. Raymond F. Lewis, 718 Walnut St., Iowa City, Iowa.

General Electric Company will grant non-exclusive licenses under the following six patents upon reasonable terms to domestic manufacturers. Applications for license may be addressed to: General Electric Company, Transformer Division, 100 Woodlawn Ave., Pittsfield, Mass. Attention Patent Counsel.

2,671,363. Electrically-Controlled Cable Stripping Machine.

2,694,102. Electrostatic Shielding.

2,694,120. Load Break Device.

2,702,374. Spacer Member for Electrical Coils.

2,702,375. Tapered Miter Joint Magnetic Core.

2,703,852. Overvoltage Protected Induction Apparatus.

### Decisions of the Commissioner of Patents

The 1954 Edition of the Decisions of the Commissioner of Patents has been published. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Price: Buckram bound \$2.00.

### New Applications Received During May 1955

Patents	7,253
Plants	7
Reissues	16
Designs	555
Total	7,831

### Issue

Patents	517—No. 2,712,648 to No. 2,713,164, incl.
Designs	41—No. 175,098 to No. 175,138, incl.
Reissues	3—No. 24,035 to No. 24,037, incl.
Total	561



# CONDITION OF PATENT APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding Designs)	220, 623
Total number of pending Design applications	6, 896
Total number of applications awaiting action (excluding Designs)	137, 812
Total number of Design applications awaiting action	2, 978
Date of oldest new application	May 27, 1954
Date of oldest amended application	Aug 6, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 60, 70.
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.
VI. MURPHY, T. P., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.

DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage.	10-7-54	3-9-54
2. (III) HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers.	12-8-54	6-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions.	8-31-54	11-3-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.	9-14-54	10-29-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	10-15-54	2-23-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.	8-4-54	1-12-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus.	9-13-54	11-6-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture.	8-3-54	3-1-54
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines.	10-18-54	12-14-53
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	1-7-55	5-27-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls.	9-20-54	10-12-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	10-1-54	12-9-53
14. (III) MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	11-5-54	1-4-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass.	10-19-54	3-5-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders.	9-10-54	9-17-53
17. (IV) LEIOHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	10-20-54	2-25-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.	9-2-54	9-11-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners.	8-18-54	1-15-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	11-12-54	3-24-54
21. (III) MADER, R. C., Textiles.	10-8-54	1-25-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	11-29-54	2-4-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education.	5-27-54	8-7-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.	11-22-54	8-10-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	9-1-54	12-4-53
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism.	11-1-54	6-1-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making.	12-2-54	4-7-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expansible Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	10-5-54	4-8-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	9-13-54	2-1-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.	11-24-54	12-23-53

DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.	7-28-54	1-12-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	11-1-54	4-21-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	9-7-54	12-10-53
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.	9-2-54	11-16-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.	11-8-54	2-15-54
36. (V) McFADYEN, A. D., Measuring and Testing.	11-15-54	6-11-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.	6-25-54	1-26-54
38. (I) MARMELSTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.	9-1-54	12-2-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).	12-24-54	1-28-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.	12-2-54	4-1-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	6-1-54	9-11-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.	9-27-54	3-10-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).	9-3-54	10-6-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	10-13-54	6-3-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.	11-29-54	5-10-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.	6-11-54	8-6-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.	9-28-54	4-23-54
50. (I) BENDEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber.	10-18-54	3-9-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.	9-23-54	3-9-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.	11-8-54	2-26-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	10-6-54	12-8-53
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications.	8-11-54	12-18-53
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	5-28-54	12-30-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.	11-1-54	3-2-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-14-55	5-4-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.	9-15-54	10-1-53
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.	12-2-54	2-2-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-1-54	5-27-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	10-12-54	3-1-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.	8-30-54	8-11-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions.	9-10-54	11-19-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.	8-5-54	12-25-53
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	10-4-54	3-29-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.	8-26-54	10-23-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.	6-9-54	8-18-53
DESIGNS: A—BREHM, O. L., Industrial Arts.	10-8-54	10-26-54
B—GRAY, M. A., Household, Personal and Fine Arts.	10-25-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during July 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents ..... Numbers 2,122,394 to 2,125,262, inclusive



## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

IN RE ROUSSO

No. 6114. Decided March 30, 1955

[— F.2d —; 105 USPQ 281]

PATENTABILITY — PARTICULAR SUBJECT MATTER — TOWEL CABINET.

Certain claims to a towel cabinet held properly rejected as non-inventive over the cited prior art.

APPEAL from the Patent Office. Serial No. 98,603. AFFIRMED.

Joshua R. H. Potts (Anthony J. Turchetti of counsel) for Roussou.

E. L. Reynolds (Clarence W. Moore of counsel) for the Commissioner of Patents.

Before GARRETT, Chief Judge, and O'CONNELL, JOHN-SON, WORLEY, and COLE, Associate Judges

COLE, J., delivered the opinion of the court.

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming the Primary Examiner's rejection for lack of invention over the prior art of claims 1, 5, 6, 9, 11, 12, and 13 of appellant's application for a patent on "Towel Cabinets." No claims were allowed.

The towel cabinet structure defined in the appealed claims is designed to dispense individual cloth towels for use in public washrooms. Claims 1, 5, 6, and 9 are generic. Claims 11, 12, and 13 are drawn to the elected species illustrated in Figures 1 to 12 of the application. Claims 1 and 11 are representative and read:

1. A towel cabinet comprising a plurality of side walls and a bottom, said walls defining a used towel compartment and a clean towel compartment having an opening through which clean towels may be dispensed, a towel support in said clean towel compartment adapted to support a plurality of clean towels, means constantly urging said support and the towels thereon toward said opening, towel retaining means carried by said side walls and partially overlying said opening at the edges thereof to retain clean towels in said clean towel compartment against the influence of said urging means, and a towel guide mounted in fixed position on said cabinet to retain said towels and to deliver soiled towels to the soiled towel compartment subsequent to use.

11. A towel dispenser comprising a plurality of walls and a bottom, a towel support in said cabinet adapted to hold a plurality of towels dividing the dispenser into a soiled towel compartment and a clean towel compartment, said cabinet having an open top through which towels may be dispensed, means constantly urging said shelf into its uppermost position and the towels thereon towards said open top, retaining flanges carried by an opposed pair of said walls at their top edges and extending into said open top to normally maintain towels within said clean towel compartment against the influence of said edging means and means to retain and guide the towels from the clean towel compartment to the soiled towel compartment.

Appellant, in his brief, has supplemented the foregoing description in this language: "This cabinet consists essentially of a pair of side walls that upstand from a bottom defining a compartment for receiving used or soiled towels and also a compartment at the top for receiving a supply of clean towels. The cabinet has an opening in its top [claims 11, 12, and 13] (clean towel compartment) through which the clean towels are removed for use. The clean towels are supported by a platform which is biased toward the opening by springs. At the sides of the opening, attached to the side walls, are projections which engage the edges of the towels to prevent them from being expelled from the cabinet by the force of the springs. The towels

are assembled in packs and each pack is attached to a ring which slides on a rigid guide rod that is fixedly secured in position in the cabinet, the said guide rod extending parallel to the direction of movement of the clean towel support and passing into the lower portion of the cabinet. As the clean towels are successively disengaged from the projections at the sides of the dispensing opening and are removed for use, the stack of towels is advanced by the springs to bring the next towel into contact with the projections. When all of the towels of a single pack have been removed and used, the ring which supports the pack slides along the guide carrying the pack of soiled towels into the lower compartment of the cabinet for storage until removed for washing."

The Board of Appeals, in affirming the Examiner's rejection of the appealed claims, cited and relied upon the following prior art references: Solomon, 1,080,855, December 9, 1913; McCracken, 1,104,207, July 21, 1914; Ammann, 1,258,733, March 12, 1918; Forman, 2,244,833, June 10, 1941.

Each of the reference patents is for a towel cabinet or dispenser, and there is little disagreement as to what is basically disclosed thereby. The patent to Ammann shows a cabinet with an upper clean towel compartment and a lower soiled towel compartment. The towel supporting platform is vertically disposed and is mounted on rollers and biased by springs in a horizontal direction toward a towel dispensing opening in the side of the cabinet. An abutment at the point of the opening functions as a towel retaining member. The towels are threaded to slide along a flexible "stringer" or towel guide which is fixedly attached at one end to the movable towel support. In operation, an individual towel is removed from the opening in the upper compartment of the cabinet and, after it has been used, is dropped by the user to follow the path of the "stringer" which leads into the lower soiled towel compartment.

The patent to Forman shows an upper clean towel compartment and a lower soiled towel compartment. The towel support is biased upwardly by springs and the clean towels are threaded and slidably guided on a stiff rod rigidly secured to the cabinet. The rod extends parallel to the direction of movement of the towel support and then curves into the lower soiled towel compartment.

The patent to Solomon (one embodiment of the invention) shows a vertically movable towel supporting platform which is constantly urged upwardly in the cabinet by means of weights attached to cables running over pulleys. The towel supporting platform is housed in a rear portion of the cabinet while the front portion is adapted to receive the soiled towels. The clean towels are removed from a narrow slot in the side wall of the rear portion of the cabinet. These towels are threaded on a guide rod in said rear portion or upper compartment of the cabinet. The rod extends from within this upper compartment, bends over the front wall, and descends vertically to a lower soiled towel compartment in the front portion of the cabinet. In operation, the

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U. S. PATENT OFFICE

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towel after use is dropped to follow the path of the guide rod into the soiled towel compartment.

It is apparent from the foregoing that there is marked similarity between the operative principle and general structural form of the respective reference disclosures and appellant's device. The remaining reference, the patent to McCracken, is of little significance and will be discussed only briefly hereinafter.

Appealed claims 1, 5, 6, and 9 were held unpatentable by the Board over the patent to Ammann in view of Forman, and also on Solomon (claims 1 and 5) or on Solomon in view of Ammann (claims 6 and 9). The rejection of claims 11, 12, and 13 was on Solomon in view of either Ammann or McCracken.

It is appellant's position on appeal, as it was before the Board, that generic claims 1, 5, 6, and 9 patentably distinguish over the cited prior art because of the inclusion in such claims of a limitation, as hereinbefore set forth in representative claim 1, of "a towel guide mounted in fixed position on said cabinet to retain said towels and to deliver soiled towels to the soiled towel compartment subsequent to use." This towel retaining guide rod is secured on a lower intumed edge of the front plate of appellant's cabinet. It extends vertically upwardly to above the top of the front plate, then over the top and vertically downwardly to a point below the front plate, and rearwardly and downwardly thereafter through an aperture, and finally secured by a padlock in the rear of the cabinet. The guide rod, thus fixedly secured to the cabinet, prevents unauthorized removal of the towels by the user.

The Board of Appeals held that Ammann's flexible towel guide wire or "stringer" (which is strong through the towels to be dispensed) was fixedly attached at one end to the movable towel support and at the other end to the lower portion of the cabinet (soiled towel compartment). This ruling was predicated on the Board's belief that while Ammann did not specifically show the fixed attachment of the wire to the cabinet in the reference patent, he did show such attachment in his earlier patent for a towel-rack, No. 1,181,983, the disclosure of which, with respect to the "stringer," was incorporated by direct reference into his later patent. Additionally, the Board was of the opinion that Forman showed a stiff guide rod rigidly secured to the towel cabinet, and that it would not involve invention to substitute this rod for the flexible guide wire of Ammann.

While the Board also held, and we think correctly, that Solomon discloses a guide rod which is fixed to the cabinet, or which could be connected without effect on the operation of that inventor's device, it is our opinion that the untenability of appellant's position is sufficiently demonstrated by Ammann taken alone or by Ammann in view of Forman.

First, it is clear that Ammann discloses a towel dispensing mechanism having clean and soiled towel compartments, a dispensing opening, a towel support for the clean towels, means constantly urging that support toward the dispensing opening, towel retaining means, track and roller means for the towel support, and a towel guide to retain the towels and deliver them to the soiled towel compartment subsequent to use. Appellant's suggestion that Ammann's guide wire is attached only to his movable towel support, and that the other end, threaded through the towels, hangs

loosely in the soiled towel compartment necessarily presupposes that the patentee failed to appreciate that one fundamental purpose of his guide wire or "stringer" was to prevent users of the towels from carrying them away. Although it seems to us that if the "stringer" was not attached to the cabinet there would be little need for running it through the towels, the Solicitor for the Patent Office has particularly pointed out, in his brief, how Ammann has provided for attaching his guide wire. Eliminating reference numerals, we quote the Solicitor as follows:

... In his patent, No. 1,258,733 [the reference patent], Ammann refers to his member as a "stringer" and states that that stringer "is strung through the towels in the manner set forth and claimed" in his Patent No. 1,181,983. Claim 7 of said earlier patent is drawn to a plurality of stringers and defines each stringer as "being provided with means whereby it may be attached to a towel stand." As described by Ammann in the specification of his patent, No. 1,181,983, such means comprises the snap hook, which is permanently fastened to one end of [the] wire and which snaps into [a] screw eye, screwed into a slot of [the] soiled towel compartment. In his mention in his patent, No. 1,258,733, of a "stringer," Ammann thus has reference to a wire plus attaching hook. The hook, of course serves to mount that end of the stringer in fixed position pursuant to the requirements of generic claims 1, 5, 6, and 9.

Even assuming Ammann's guide wire to be other than attached to his cabinet (being secured only to the movable towel support), Forman's towel guide rod is stiff and secured to his cabinet and does not move with that inventor's towel support. Assuming further that there is some advantage to be gained by using the latter's rod in place of the former's flexible wire or "stringer," the modification, one to the other, would be an elementary expedient to the worker skilled in the art. It would hardly be, as claimed by appellant, an unfair reconstruction of the references in the light of his own disclosure.

Considering now claims 11, 12, and 13, the appellant urges recognition of patentable achievement over the prior art primarily in the provision of an additional limitation directed to an "open top through which towels may be dispensed." These claims do not specify that the guide rod is mounted in fixed position to the cabinet.

The patents to Solomon and/or Ammann and McCracken were cited by the Board and applied in combination in holding the claims devoid of inventive subject matter. Specifically, it was held that Solomon showed all elements of claims 11, 12, and 13, except that the top of Solomon's cabinet is not completely open. Ammann and McCracken, in the Board's view, did show relatively large removal openings for the towels, and hence no invention was seen in such modification to Solomon.

Solomon's narrow, slot-like opening is in the top rear side portion of his cabinet. As aforesaid, means are provided for urging Solomon's towel support toward this opening. Appellant maintains that extraction of towels from the narrow Solomon opening is difficult, and that although the openings in Ammann and McCracken (which are in the side of those cabinets) may be larger, it is improper to conclude that only the mere mechanical skill of the art would be required to reconstruct the Solomon cabinet to meet the limitation relied upon by appellant. We believe that with or without Ammann and McCracken as prior art, appellant has done nothing more than enlarge the dispensing opening of Solomon. While appellant may have eliminated certain difficulties experienced by the user of



the Solomon cabinet in reaching towels through that inventor's opening, the Solicitor has aptly observed, in his brief on behalf of the Patent Office, that "Solomon's emphasis on a slot in dispensing his towels is in line with his emphasis on maintaining the towels in a sanitary condition. De-emphasis on sanitation leads to enlargement of [the] towel dispensing opening. The situation is akin to that in the ordinary box of [facial] tissues. The freshness of the tissues is maintained if

they are drawn through the slot provided by removing the scored strip on the top of the box. If freshness be not important, the whole top of the box may be removed."

We thus find the details of construction of appellant's cabinet amounting to nothing more than a slight improvement over the cabinets of the references. The decision of the Board of Appeals is therefore affirmed. **AFFIRMED.**

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,284,314, M. E. Wetzler, Clamp, filed Sept. 2, 1954, D. C., N. D. Ill. (Chicago), Doc. 54c1296, *Maz E. Wetzler v. Adjustable Clamp Co.* Cause dismissed with prejudice Feb. 9, 1955.

2,323,852, Seidel and Lowmes, Device for opening and emptying cartons, filed July 7, 1954, D. C., N. D. Ill. (Chicago), Doc. 54c984, *A-B-C Packaging Machine Corp. et al. v. Mogen David Wine Corp. (formerly Wine Corp. of America)*. Consent judgment; claims held valid and infringed; defendant enjoined Apr. 5, 1955.

2,436,543, 2,526,323, J. F. Blaski, Roof construction, filed Aug. 20, 1954, D. C., N. D. Ill. (Chicago), Doc. 54c1221, *MPH Mfg. Corp., Inc. et al. v. Inland Steel Products Co.* On motion of defendant, cause dismissed for improper venue Sept. 20, 1954.

2,445,322, M. C. Fridolph, Body garment, filed May 18, 1955, D. C., S. D. N. Y., Doc. 100/358, *Sarong, Inc. et al. v. Melody Bra & Girdle Co., Inc.*

2,450,152, H. B. Miller, Fruit picker's crane, filed June 24, 1954, D. C., W. D. Wash. (Seattle), Doc. 3737, *Giraffen, Inc. v. Howard B. Miller et al.* Consent judgment; injunction granted; plaintiffs enjoined from infringing patent May 12, 1955.

2,474,904, J. S. Mazzella, Double stranded blasting mat, filed May 12, 1955, D. C., S. D. N. Y., Doc. 100/310, *Mazella Blasting Mat Co. v. Vitello Blasting Mat Co.*

2,514,690, Bliss and Prather, Gas detection, filed Aug. 31, 1951, D. C., W. D. Tex. (Pecos), Doc. 1361, *Esme E. Rosaire, and Caran Brothers Engineering Co. (Intervener) v. Rotary Engineering and Mfg. Co., Inc. et al.* Complaint dismissed with prejudice; defendants' counterclaim of declaratory judgment dismissed without prejudice May 13, 1955.

2,526,323. (See 2,436,543.)

2,561,961, P. F. White, Steering wheel spinner; 2,630,539, Sinko and Miller, Cigar lighter knob light, filed Apr. 15, 1954, D. C., N. D. Ill. (Chicago), Doc. 54c548, *Santay Corp. v. Sinko Mfg. & Tool Co.* Patent No. 2,561,961 held invalid and not infringed; Patent No. 2,630,539 held valid and infringed; injunction against plaintiff May 11, 1955.

2,575,219, D. J. Giles, Ferrous alloys and abrasive-resistant articles made therefrom, filed Jan. 31, 1955, D. C., W. D. Mo. (Kansas City), Doc. 9582, *Latrobe Steel Co. v. Marsh Steel Corp. et al.* Cause dismissed May 12, 1955.

2,593,162, L. Markin, Eye-stay assembly for fabric fastening; 2,703,915, same, Hook-stay assembly for fabric fastening, filed May 18, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c738, *Hook-Flex Corp. v. J. Grinchuck Co.*

2,606,588, L. Kaufman, Lady's handbag, filed Dec. 9, 1953, D. C., S. D. N. Y., Doc. 90/35, *Tyrolean Handbag Co. v. Empress Hand Bag, Inc.* Stipulation and order of dismissal May 17, 1955.

2,607,163, R. J. Lohr, Spring driven tandem vehicle toy, filed Oct. 1, 1952, D. C., S. D. N. Y., Doc. 79/82, *Ideal Toy Corp. v. Louis Marx & Co., Inc.* Stipulation and order of dismissal (notice May 10, 1955).

2,630,539. (See 2,561,961.)

2,655,480, J. G. Spitzer et al., Lather producing composition, filed Oct. 13, 1953, D. C. Md. (Baltimore), Doc. 6924, *Carter Products, Inc. et al. v. Colgate-Palmolive Co. et al.* Claims 1 to 21 inclusive of patent held valid May 18, 1955.

2,694,656, M. Camras, Magnetic impulse record member, magnetic material, and method of making magnetic material, filed May 12, 1955, D. C., S. D. N. Y., Doc. 100/324, *Technical Tape Corp. v. Minnesota Mining & Mfg. Co.*

2,700,105, J. R. Winegard, T. V. antenna array, filed May 13, 1955, D. C., S. D. Iowa (Ottumwa), Doc. 1/82, *Winegard Co. v. Thompson's Electric and Refrigerator Service.*

2,703,915. (See 2,593,162.)

2,705,376, J. B. Cox, Depth gauge for saw chains, filed May 11, 1955, D. C. Oreg. (Portland), Doc. 8085, *Oregon Saw Chain Corp. v. Mall Tool Co.*

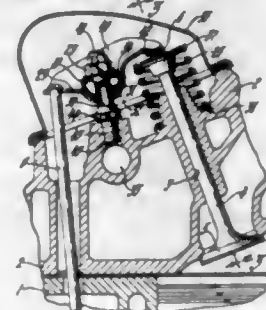
2,707,506, Kontoff and Rubin, Adjustable spacer block for camera cases, filed May 16, 1955, D. C., S. D. N. Y., Doc. 100/339, *Raul Kontoff et al. v. Craftsman Camera Cases et al.*

## REISSUES

JULY 12, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

**24,035**  
**VALVE ROCKER MOUNTING**  
Clayton B. Leach, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Original No. 2,669,981, dated February 23, 1954, Serial No. 183,026, September 2, 1950. Application for reissue April 29, 1954, Serial No. 426,623  
17 Claims. (Cl. 123—90)



13. In an internal combustion engine or the like having a poppet valve with a return spring connected thereto and a reciprocally driven member for operating said valve in the direction opposed by its spring with each stroke of the member in a direction substantially opposite that of the valve, a rocker for transmitting valve operating movements from said member to the valve, said rocker having spaced apart surfaces on one side drivably engageable with oppositely facing surfaces of the member and valve and a bearing surface intermediate and on the opposite side of the rocker from said spaced apart surfaces, said bearing surface having an aperture extending through the rocker from said one side, and means extending through said aperture provided with a seat pivotally journalling said bearing surface about the rocking axis of the rocker.

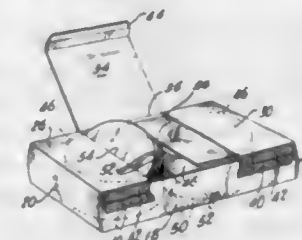
**24,036**  
**PROCESS FOR THE PRODUCTION OF ALKYL AROMATIC HYDROPEROXIDES**  
Michel Marius Mosnier and André Fournet, Lyon, France, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France  
No Drawing. Original No. 2,681,937, dated June 22, 1954, Serial No. 268,682, January 28, 1952. Application for reissue February 14, 1955, Serial No. 488,178  
12 Claims. (Cl. 260—610)

1. Process for the production of alkyl-aromatic hydroperoxides by the oxidation of cumene and homologous alkyl-aromatic hydrocarbons in which at least one alkyl substituent [group is a tertiary alkyl group and contains more than one carbon chain, the tertiary carbon atom being attached directly] containing more than 2 carbon atoms has one hydrogen atom attached to the carbon atom which is directly attached to the aromatic nucleus, which comprises bringing the said hydrocarbon into contact with oxygen at elevated temperature in the presence of a catalyst selected from the class consisting of the formates, oxalates and benzoates of the alkali metals and alkaline earth metals.

4. Process for the production of alkyl-aromatic hydroperoxides by the oxidation of cumene and homologous

alkyl-aromatic hydrocarbons in which at least one alkyl substituent [group is a tertiary alkyl group and contains more than one carbon atom, the tertiary carbon atom being attached directly] containing more than 2 carbon atoms has one hydrogen atom attached to the carbon atom which is directly attached to the aromatic nucleus, which comprises bringing the said hydrocarbon into contact with oxygen at elevated temperature in the presence of calcium formate as catalyst.

**24,037**  
**HOLDER**  
George W. Willits, Hinsdale, Ill., assignor to Johnson & Johnson, a corporation of New Jersey  
Original No. 2,689,643, dated September 21, 1954, Serial No. 232,231, June 18, 1951. Application for reissue January 25, 1955, Serial No. 484,091  
2 Claims. (Cl. 206—57)



2. A package of originally fluffy, voluminous and resilient disks adapted to facilitate sanitary storage and transportation thereof and the removal of individual disks from the package, said package comprising a preformed box-like, completely-sealed sanitary container having top and bottom members between which a stack of such originally fluffy, voluminous and resilient disks is confined in compressed form, said top member including a stationary portion and a future-hinged closure portion defined in part by perforated lines and adapted when opened along said lines to give access to the interior of the container, said disks, when the closure is opened along said perforated lines, being retained under compression in that part of the stack which is in the vicinity of said stationary portion, and being relieved of compression in that part of the stack which is in the vicinity of the opened closure portion, the normal resiliency of the disk material being such as to cause those disks at the top of the stack to bend about an edge of the stationary top portion contiguous to the hinged portion and to spring upwardly beyond the top of the container in that part of the stack wherein compression is relieved, the dimensions of the stationary portion of the top member being sufficiently large to maintain the stack in the vicinity thereof under compression while the topmost disks are removed but sufficiently small to permit removal of the topmost disks without injury during such removal, and the dimensions of the hinged closure member being such that those portions of the disk at the top which spring upwardly are sufficiently large to facilitate finger grasping thereof and the removal of the disks from the container.



# PATENTS

GRANTED JULY 12, 1955

## GENERAL AND MECHANICAL

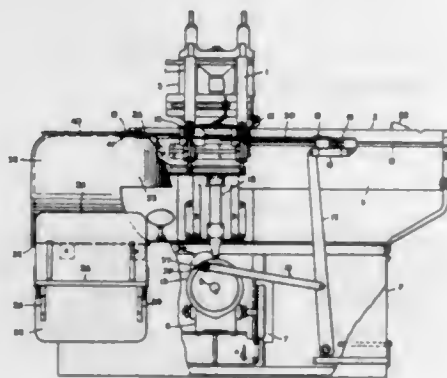
2,712,648

### SIGNATURE FEED FOR STITCHING MACHINES

John W. Miller, Benton Harbor, Mich., assignor to F. P. Rosback Company, Benton Harbor, Mich., a corporation of Michigan

Application January 17, 1952, Serial No. 266,855

8 Claims. (Cl. 1-7)



1. In a signature stitching machine wherein the signatures to be stitched are moved along a saddle to a stitching machine, the combination of a saddle, an elongated member reciprocable longitudinally of said saddle, a plurality of fingers carried by and spaced along said member, means adapted to reciprocate the latter in synchronism with operation of the stitching machine, said fingers projecting laterally beyond said saddle and being shaped to engage correspondingly spaced signature assemblies resting thereon upon movement towards the stitching machine, one of said fingers being so located as to move the signature assembly engaged thereby into position to be stitched when said member reaches the limit of its reciprocatory movement towards the stitching machine and another of said fingers being so located as simultaneously to move a previously stitched signature beyond the discharge end of said saddle, and means adapted automatically to change the throw of said reciprocatory means upon successive reciprocations of said finger-carrying member, whereby the stitching of successive assemblies may be staggered.

2,712,649

### INSERTION OF FASTENINGS

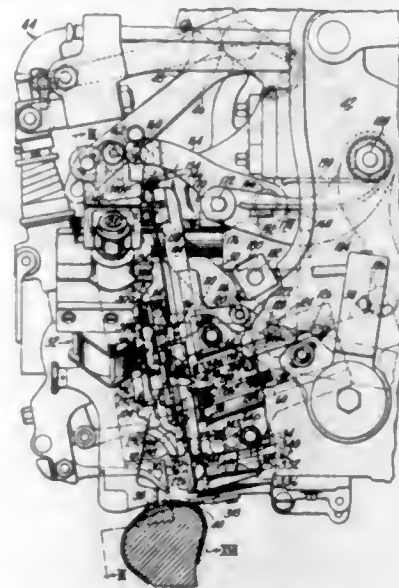
Ernest L. Butler and Andrew Eppler, Jr., Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application January 22, 1953, Serial No. 332,643

25 Claims. (Cl. 1-20)

1. A staple forming and inserting mechanism having, in combination, a member provided with a driver passage, a staple driver, an inside former normally disposed in the path of movement of said driver and mounted for retractive movement out of said path, an outside former mounted for movement relatively to said inside former to form a length of wire into a substantially U-shaped staple, means for intermittently advancing wire between the inside and outside formers, means for severing successive lengths of wire, means for moving the driver to clamp the advanced wire against the inside former during the operation of said shearing means and said outside former, further continued movement of said driver by said

means being limited only by the inside former, and means for removing said inside former from the path of move-



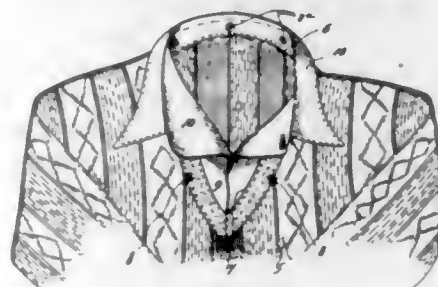
ment of said driver to allow further movement of the driver to drive the formed staple.

2,712,650  
GARMENT

James Francis Harrington, Fairfield, Victoria, Australia

Application November 4, 1954, Serial No. 466,783

2 Claims. (Cl. 2-119)



1. A garment comprising in combination a knitted sleeveless pull-over having a front V-opening, a number of parts of fastening devices arranged around the said front opening at spaced apart intervals, a dickey-type front of fabric material, a collar integral with said front, parts of fastening devices secured around the said front and collar, said parts of fastening devices being complementary to the parts of fastening devices around the said front opening of the pull-over, and overlapping parts on the said fabric front to simulate the front of a formal shirt, said overlapping parts having buttons and button holes whereby they may be fastened together.

2,712,651

### COLLAR STAY

James T. Schmidt, Kankakee, Ill.

Application March 5, 1953, Serial No. 340,537

1 Claim. (Cl. 2-132)

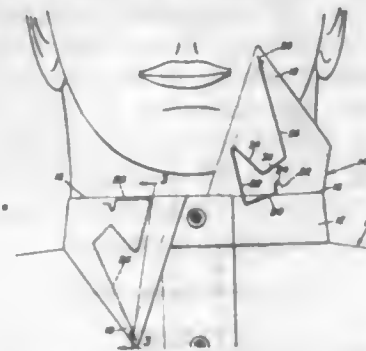
A collar stay comprising a length of rod-like material comprising a base portion, an arm portion and intermediate flights, said base portion terminating at one end in an anchor means adapted to engage the inner surface of the upper edge of a collar at a point spaced circumferentially from the vertical edge of a collar, said base

JULY 12, 1955

## GENERAL AND MECHANICAL

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portion extending therefrom upwardly so as to engage the vertical edge of a collar, one of said flights extending laterally from the other end of said base portion so as to lie generally parallel to and adjacent the vertical edge of a collar, a second flight extending angularly from the first flight and toward said anchor means, a third



flight extending laterally of the second flight in a generally parallel direction to said base portion, said arm portion extending laterally of the third flight in a direction away from the base portion and substantially parallel to the first flight, said arm portion terminating in an anchor means adapted to engage the point of a collar.

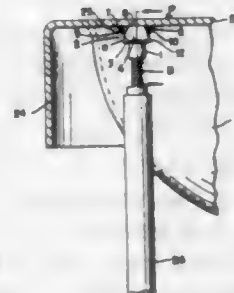
2,712,652

### UNIVERSAL LAVATORY LEG ADAPTER

Erwin Reed, University Heights, Ohio; William Friedman, executor of the estate of Erwin Reed, deceased, assignor to Reed-Cromex Corporation, South Euclid, Ohio, a corporation of Ohio

Application July 31, 1952, Serial No. 301,949

6 Claims. (Cl. 4-170)



1. An adapter of the character described comprising a metallic member having a cylindrical stem and a body portion surmounting the stem, said body portion having a flat bottom of substantially rectangular outline and spaced side walls forming an open-ended channel, said side walls having upper edges parallel with a flat bottom, said side walls also having ends, one of which is inclined oppositely to the other, said ends terminating at points intermediate the bottom and upper edges, and short ledges extending from said points parallel with the bottom.

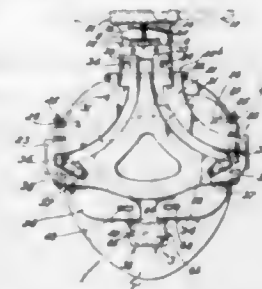
2,712,653

### COLLAPSIBLE BABY TRAINER

Louis Nika and Claire M. Nika, also known as Peggy C. Nika, Plainfield, N. J., assignors to Jiffy Products, New York, N. Y., a corporation of New Jersey

Application September 2, 1950, Serial No. 183,061

11 Claims. (Cl. 4-239)



1. An infant's toilet seat attachment for adult toilet seats having a hinge rod at the rear thereof, comprising

696 O. G.—12

an infant's seat adapted to rest on the adult seat, rear and side walls pivotally secured to the infant's seat and adapted to collapse on the seat in the substantially flat condition, a hinge member provided with means for attaching the same to the hinge rod of the adult seat, and means pivotally connecting the forward edge of said member to the rear portion of the infant's seat forwardly of the hinge rod, whereby the collapsed toilet seat attachment may be swung rearwardly on said pivotal connection to a position past the vertical plane passing through such connection.

2,712,654

### MECHANISM FOR AUTOMATICALLY APPLYING AND REMOVING A SANITARY, PAPER TOILET SEAT COVER

George X. Batlas, Astoria, and Emmanuel N. Pantazis and Stephen Baranski, New York, N. Y.

Application September 2, 1954, Serial No. 453,882

19 Claims. (Cl. 4-243)



1. In combination with a toilet seat mounted on a toilet bowl for swinging about a transverse axis disposed adjacent the back end of said seat between a horizontal operative position and an upstanding inoperative position; a device for applying and removing a toilet seat cover comprising a dispensing receptacle for toilet seat covers disposed adjacent the location of the front end of said seat when the latter is in said operative position and effective to project the toilet seat covers one at a time therefrom, means on said seat engageable with a seat cover projecting from said receptacle when said seat is in said inoperative position and gripping the projecting seat cover during movement of said seat to its operative position thereby to withdraw the gripped seat cover from the receptacle for disposition on said seat, and cover removing means operative in response to movement of said seat from said operative position toward said inoperative position of the seat to effect removal of the seat cover from said seat and discharge of the removed seat cover into said toilet bowl prior to the arrival of said seat at said inoperative position.

2,712,655

### BED SETTEES

Donald John Hatton, Dudley Port, Tipton, England, assignor to Vono Limited, Dudley Port, Tipton, England, a British company

Application March 1, 1952, Serial No. 274,317

3 Claims. (Cl. 5-21)

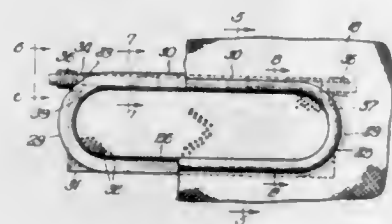


1. In an article of furniture such as a bed settee or chair having a supporting structure comprising a pair



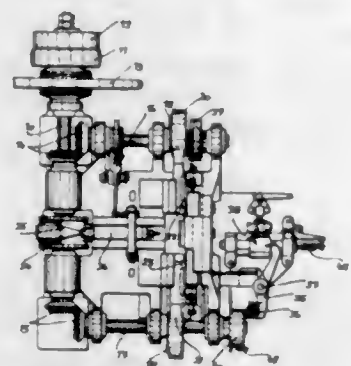
of upstanding side arm sections, and a seat section fixedly secured to said side arm sections and holding them in rigid spaced relation, in combination, a withdrawable lower frame slidably mounted beneath said seat section, an upper frame, a plurality of parallel links supporting the upper frame from the lower frame, said links holding said frames parallel while permitting said upper frame to be elevated with respect to the lower frame, means on the side arm sections providing an inclined and a vertical guide way, laterally extending means on the upper frame for successively engaging the inclined and vertical guide way as the frames are withdrawn from their retracted position, a vertical surface on said upper frame for engaging said seat section as the upper frame is raised, said guide means and laterally extending means cooperating with said vertical surface to lock said upper frame to said side arm and seat sections, and means on the lower frame for stopping the withdrawal of the lower frame when the links reach a position inclined toward the seat section.

**2,712,656**  
**VENTILATING DEVICES FOR MATTRESSES**  
Frank E. Radzik, Chicago, Ill.  
Application May 5, 1952, Serial No. 286,051  
7 Claims. (Cl. 5-347)



1. In a mattress including a casing, said casing having an opening, a frame affixed to said casing along the marginal portion thereof adjacent said opening, a flap carried by said frame, and tensioning means for normally urging said flap towards said frame for normally closing said opening.

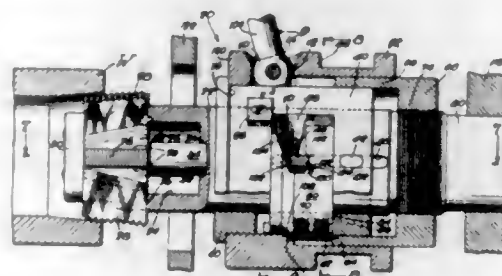
**2,712,657**  
**MACHINE FOR THE MANUFACTURE OF WIRE TACKS**  
Hans Stutzer, Koln-Bickendorf, Wilhelm Watter, Koln-Zollstock, and Matthias Hermann, Koln-Raderberg, Germany  
Application July 10, 1950, Serial No. 172,866  
Claims priority, Application Germany July 25, 1949  
6 Claims. (Cl. 10-49)



1. Machine for the manufacture of wire tacks, comprising a main shaft and two side shafts at right angles to said main shaft, a heading die slide, an eccentric carried by said main shaft and a connecting rod coaxing with said eccentric to actuate said heading die slide, a pair of knife slides, and means actuated by each of said side shafts for positively reciprocating said knife slides respectively, in combination therewith means for reducing

the shank of a tack, a reducing cam on one of said side shafts for operating said shank reducing means several times during the production of a single tack, a gripper member for feeding the wire stock, a feed cam on the other of said side shafts, transmission means between said gripper member and said feed cam, said feed cam having a sequence of successively rising swells adapted through the intermediary of said transmission means to move said gripper member in the feeding direction in a sequence of steps asynchronous to the operation of said reducing means during the production of a single tack, and also having a run off portion following upon the sequence of successively rising swells to allow said gripper to return into its initial position.

**2,712,658**  
**IMPROVEMENT IN LATCH MEANS FOR COLLAPSING TAPS**  
Royce M. Strickland, New Haven, Conn., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a corporation of Massachusetts  
Application February 16, 1953, Serial No. 337,012  
3 Claims. (Cl. 10-145)

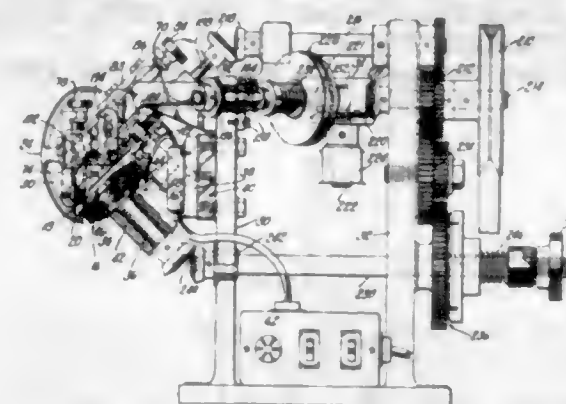


1. In a collapsible tap having a centrally recessed and longitudinally slotted carrier provided with an external stop shoulder and substantially radial guideways for a plurality of chasers, and an operating member axially movable in said carrier recess for moving said chasers, the combination of a spring-urged plunger movable axially of said carrier and having a longitudinally slotted head slidable on the outer periphery of said carrier and provided with an outer peripheral groove; an open-ring latch received in said peripheral groove in the plunger head and guided therein for radial movement; a coupling between said latch and member for their joint axial movement, said latch being normally yielding urged radially into locking engagement with said shoulder to hold said plunger against spring-return from an advance position into a retract position in which said member holds said chasers in and out of cutting engagement with work, respectively; and means for depressing said latch radially out of locking engagement with said shoulder, said coupling being formed by a transverse key in said member extending through said slots in said carrier and plunger head and having opposite follower ends, and opposite cam slots in said open-ring latch receiving said follower ends, respectively, and cooperating therewith, on depression of said latch out of locking engagement with said shoulder, to move said member axially for slight retraction of said chasers from a normal cut to a finer cut on work.

**2,712,659**  
**APPLYING PROTECTIVE COVERS TO SHOES**  
Hans C. Paulsen, Medford, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application September 30, 1950, Serial No. 187,784  
31 Claims. (Cl. 12-1)

22. In a shoe-cover-applying machine, a yieldable, driven wiper roll movable across the bottom of the shoe at an acute angle to the side thereof, a presser member for attaching the cover to the periphery of the shoe, a guide roll adjacent to the presser member and engaging

the shoe bottom, said guide roll being driven to assist the operator in feeding the work, and an indenting tool en-



gaging the cover between the guide roll and the attaching member.

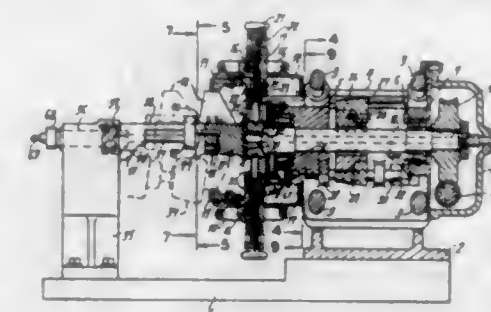
**2,712,660**  
**MACHINES FOR APPLYING PRESSURE TO SHOE BOTTOMS**  
Lawrence Mawbey, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application March 7, 1952, Serial No. 275,426  
Claims priority, application Great Britain March 27, 1951  
7 Claims. (Cl. 12-33)



1. In a cement sole attaching machine, the combination of a vertically movable pad, an abutment for a last in a shoe, an abutment for the forepart of the shoe, a bar on which the abutments are mounted, a lever rigidly secured to the bar, a manually operated cam acting to move the lever bodily with the abutments toward the shoe on the pad, and to hold the abutments positively against upward movement, a slide carrying the pad, a slide below the pad slide, a spring between the slides, power-operated means acting on the lower slide and including a non-repeating one-revolution clutch for delivering a single percussional upward impulse to the pad slide through the spring to force the sole against the shoe bottom, and means acting after operation of the cam to initiate operation of the power-operated means.

**2,712,661**  
**MACHINE FOR BREASTING LOUIS HEELS**  
Justin P. Quirk, St. Louis County, and Ludwig G. P. Hafner, St. Louis, Mo., assignors to Quirk Machinery Company, St. Louis, Mo., a corporation of Delaware  
Application March 26, 1952, Serial No. 278,634  
13 Claims. (Cl. 12-47.1)

1. In a heel breasting machine of the character described having a rotary cutter, a work head mounted for rotation adjacent said cutter, a plurality of work-holding



means operating upon such movement to temporarily connect said loader with said head to cause the former to move with the latter during such delivery.

**2,712,662**  
**CREASER FOOT CARRIERS FOR FOLDING MACHINES**  
Walter E. Naugler, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application October 29, 1953, Serial No. 388,963  
4 Claims. (Cl. 12-55.1)



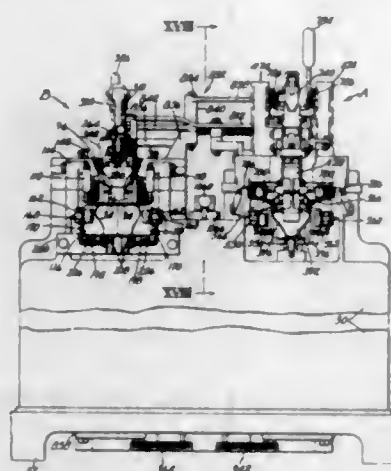
1. In a folding machine, a work support, a folding finger movable heightwise thereof in a path inclined to the surface of the work support, a creaser foot cooperating with the folding finger to determine the line of fold of a work piece being operated upon, a pivot for said creaser foot located at a substantial distance from the path of movement of the folding finger providing for heightwise movement of the creaser foot in a path substantially parallel with the path of movement of the folding finger, means normally acting to oppose such movement of the creaser foot, means mounting said pivot for movement in a path substantially normal to the path of movement of the folding finger whereby the creaser foot is movable toward and away from the folding finger, and means normally maintaining said pivot in such position that the creaser foot is close to the folding finger.

**2,712,663**  
**PREWELT UPPER SHAPING MACHINES**  
René E. Duplessis, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application January 19, 1952, Serial No. 267,265  
129 Claims. (Cl. 12-97)

1. In a machine for shaping prewelt uppers, the combination with means for supporting a prewelt upper by engagement with the upper attaching face of the welt, of an inner form for shaping the upper, a carrier for the inner form, means for actuating the carrier to advance the inner form into the supported upper, a stop for ter-



minating the advancement of the inner form, and a dent constructed and arranged to engage the carrier and



to hold it positively against movement away from the stop.

2,712,664

## HINGED LAST

Alexander W. McNeill, Saugus, Mass.

Application February 5, 1954, Serial No. 408,446

5 Claims. (Cl. 12-136)



1. In a last including toe and heel parts having inter-fitting curved surfaces to permit relative rotation of the parts about a fixed axis, a hinge comprising a single link of sheet steel provided with a pair of circumferentially spaced arcuate slots, the slots dividing the major portion of the link into a substantially straight side member, a flexible curved side member, and a rib interconnecting the intermediate portion of each of said side members.

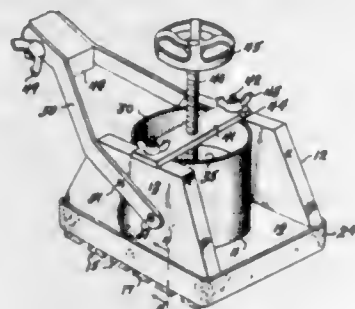
2,712,665

## PASTE WAX APPLYING DEVICE

Joel S. Lambert, Middleton, Tenn.

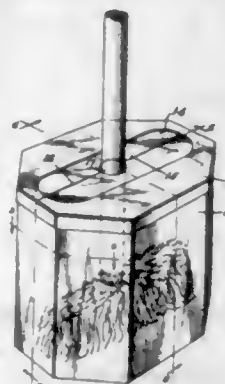
Application June 26, 1950, Serial No. 170,309

6 Claims. (Cl. 15-131)



2. A paste wax applying device comprising a flat base member having a cylindrical opening therethrough, a cylinder adapted to contain paste and having an opening in its lower end, said cylinder being of a size no larger than said first opening and having its lower end mounted therein, paste spreading means fixed with respect to said base and extending across the bottom thereof, said spreading means having spaces for the passage therethrough of paste from the bottom of said container, said spreading means engaging and supporting the lower edge of said container, and means for forcing said paste downwardly for discharge through said spreading means.

2,712,666  
DUST MOP CLEANER  
Lloyd G. Copeman, Metamora, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan  
Application November 17, 1950, Serial No. 196,328  
1 Claim. (Cl. 15-142)



A dust mop cleaner which comprises a thin-walled box having a bottom and a top shaped octagonally and vertical side walls extending upwardly from said bottom confined between vertical edges of a rim surrounding the top, means to reinforce said box comprising opposed frame members extending in parallel relation between the edges of two opposed, vertical walls of the box, said walls being recessed to retain said frames, and means for cleaning a mop which is vertically reciprocated in said box comprising spaced, horizontal members mounted on said frames and extending transversely across the box to define an enclosure centrally of the box for receiving said dust mop.

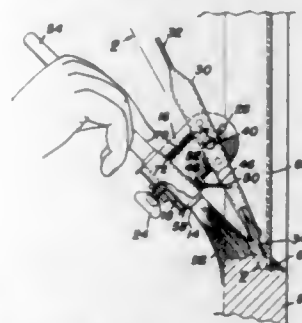
2,712,667

## PAINT BRUSH GUIDE ATTACHMENT

Wilmer T. Stearn, Philadelphia, and Nickolas Thesen, Roslyn, Pa.

Application February 1, 1952, Serial No. 269,374

1 Claim. (Cl. 15-246)



A paint brush guide comprising a holder adapted to have mounted therein a paint brush, a mounting bracket carried by said holder, an arm rotatably mounted on said bracket, a guide wheel carried by said arm, said arm being secured to said mounting bracket by an adjustable fastener, said fastener passing through an aperture in said bracket, said bracket being provided with a plurality of apertures adapted to selectively receive said fastener for adjustably mounting said arm.

2,712,668

## SCRUB BUCKET

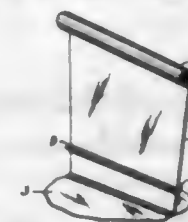
Hazel L. Thiele, St. Louis, Mo.

Application June 18, 1951, Serial No. 232,080

3 Claims. (Cl. 15-264)

1. In a bucket for the purpose described, a body having a cylindrical bottom portion having its lower end closed and provided peripherally with draw-off means, an upper portion having sides rising from the top edge of the lower portion, said sides having opposed portions vertically aligned with the sides of the lower portion at one diameter of the lower portion and flaring upwardly away from each other in a plane perpendicular to said diameter,

a partition having a width fitting in the lower portion and between the side vertically aligned parts of the upper portion with the side edges and lower edge of the partition sealed to the side walls of said body and the bottom wall of the bottom portion respectively so as to divide



said body into two separate compartments, a pair of substantially semi-circular perforated strainer plates fitting the top of said bottom portion, and ledge members fixed on the opposite sides of the partition and the top of said lower portion whereon said strainer plates removably rest.

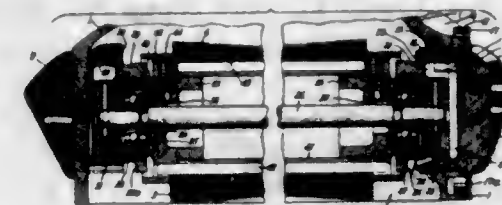
2,712,669

## SUCTION CLEANER WITH ADJUSTABLE BRUSH

Clarence Frere, Bridgeport, Conn., and Frank T. Grothouse, South Euclid, Ohio, assignors to General Electric Company, a corporation of New York

Application August 26, 1949, Serial No. 112,618

6 Claims. (Cl. 15-368)



6. In a suction cleaner of the type having a floor nozzle and a rotary brush within the mouth of the floor nozzle, means for adjusting the position of the brush with respect to the nozzle mouth comprising a cylindrical, brush adjusting knob positioned in one end of said nozzle and rotatable about a horizontal axis, said knob being fitted in said nozzle so as to be movable relative thereto but to be frictionally held in any position to which moved, said knob including an outer surface extending externally of and above said nozzle for rotation thereof, a cap carried by said knob, a second cap rotatably supported in the other end of said nozzle, a shaft having its ends secured to said caps eccentrically, said brush being rotatably supported on said shaft.

2,712,670

## GARAGE DOOR HINGE

Henry P. Lipking, Fresno, Calif., assignor to Harlan E. Stocks, Fresno, Calif.

Application July 31, 1952, Serial No. 301,881

6 Claims. (Cl. 16-129)



6. A hinge mounting for an overhead, swinging door comprising a bracket adapted for mounting on a door jamb, fastening means adapted for vertical positioning on a door adjacent the door jamb to which the bracket is attached, a pair of links pivoted at their ends to said bracket and said fastening means, the ends of said links pivoted to said bracket being longitudinally

spaced from one another along the length of the bracket, the ends of said links pivoted to said fastening means being vertically spaced from one another on said fastening means, and a coil spring connected at its ends to said fastening means and said bracket, said spring being attached to said bracket above said links.

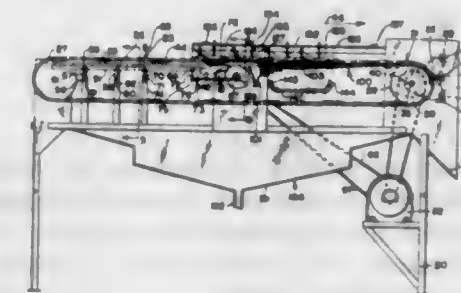
2,712,671

## GIZZARD SPLITTING AND CLEANING METHOD

William J. Patterson, La Grange, and Joseph Weissenstein, Chicago, Ill., assignors to Swift &amp; Company, Chicago, Ill., a corporation of Illinois

Original application December 3, 1952, Serial No. 323,804, now Patent No. 2,695,418, dated November 30, 1954. Divided and this application January 27, 1954, Serial No. 406,406

6 Claims. (Cl. 17-45)



1. The method of opening poultry gizzards including the steps of cutting one wall of the gizzard to partially open the interior thereof, directing a forceful liquid spray into said cut to at least partially dislodge the contents of the gizzard, and cutting the walls of the gizzard adjacent said one wall from said first cut substantially as far as the gizzard wall opposite said one wall.

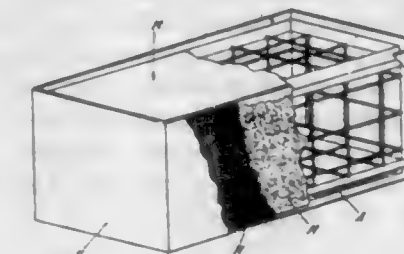
2,712,672

## PROCESS FOR PREPARING PROTEIC SPONGES

Luigi Calcagno, Milan, Italy

Application January 28, 1952, Serial No. 268,630

7 Claims. (Cl. 18-48)

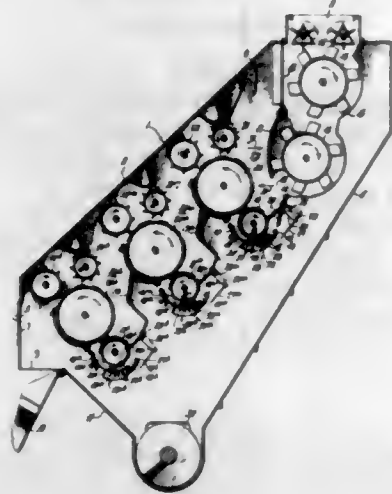


1. A process of preparing proteic sponges, comprising the steps of locating a rigid liquid-permeable cage-like structure completely within an aqueous solution of at least one protein; freezing said aqueous solution of said protein while said rigid structure is still located therein so as to form a substantially solid frozen block of said aqueous solution of said protein adhering to said rigid structure; treating said substantially solid frozen block of said aqueous solution of said protein adhering to said rigid structure with a liquid organic dehydrating agent so as to dehydrate said frozen aqueous solution and simultaneously coagulate the protein of said aqueous solution, thereby forming a spongy mass which adheres to said rigid structure which prevents substantial contracting of said spongy mass, said liquid organic dehydrating agent forming with the water of said aqueous solution an aqueous-agent mixture; drying the thus formed protein spongy mass by removal of said aqueous-agent mixture, thereby forming a proteic sponge; and separating the thus formed proteic sponge from said rigid cage-like structure.



2,712,673

**COTTON PRECLEANING APPARATUS**  
 Jeffrey J. Wallace, Amite, La., assignor to Gullett Gin Company, Amite, La., a corporation of Louisiana  
 Application September 25, 1951, Serial No. 248,149  
 6 Claims. (Cl. 19-37)



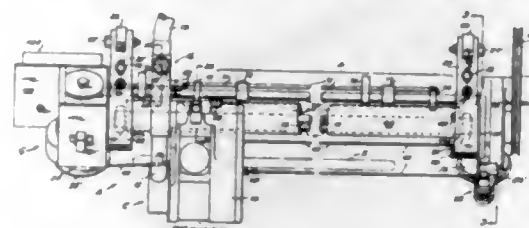
1. Precleaner for cotton comprising a casing having an inlet opening at the top and having an inclined lower wall, that part of the chamber of said casing which lies adjacent said lower wall constituting a debris passage, driven speed regulatable feeding means at said opening controlling the rate of feed of cotton therethrough, a cotton directing drum below said feeding means, a screen casing the drum on one side and beneath, a baffle casing the drum on the other side terminating short of said screen defining therebetween a lateral opening, means defining with said baffle and the plane of said opening between the adjacent ends of said baffle and screen, a chamber, said chamber defining means comprising a series of cylinders in serial substantial tangency, said cylinders including a saw cylinder intermediate in said series laterally confronting said lateral opening, a striker roll above said saw cylinder laterally confronting said baffle, and a reclaiming cylinder below said lateral opening spaced from the lower end of said screen, and a brush normally occluding said space, said reclaiming cylinder being peripherally contacted by the bristles of said brush, said reclaiming cylinder and brush constituting the bottom of said chamber, said directing drum being driven in a direction to throw cotton through said lateral opening transversely of said chamber above the bottom thereof against said saw cylinder, the latter being driven to move upwardly on the chamber side to said striker roll, the latter being driven in a direction to remove debris from said saw cylinder and dash it against said baffle, the latter functioning to check the velocity of said debris causing it to drop toward said reclaiming cylinder, the latter being driven toward said brush on the chamber side to engage cotton falling to the bottom of said chamber and carry it through the bristles of said brush to said saw cylinder, the bristles of said brush yielding to the pressure of debris riding on the cotton carried by said reclaiming cylinder, to permit the escape of said debris into said debris passage, and a doffer in operative proximity to said saw cylinder at a point in the upper arc of rotation thereof.

2,712,674

**CARD CLOTHING TREATMENT PROCESS**  
 Guy W. Vaughan, Jr., Pelham Manor, N. Y., and Columbus R. Sacchini, Willoughby, Ohio, assignors to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio  
 Application May 24, 1954, Serial No. 431,973  
 9 Claims. (Cl. 19-109)

1. A process of maintaining a card clothed cylinder of a carding machine in condition to produce useful sliver and during productive operation of the machine; com-

prising removing a relatively narrow ribbon or strand of fiber from a fleece supporting region of the rotating cylinder by locally applying suction force close to the cylinder, progressively and unidirectionally therealong until an uninterrupted peripheral area of the cylinder of

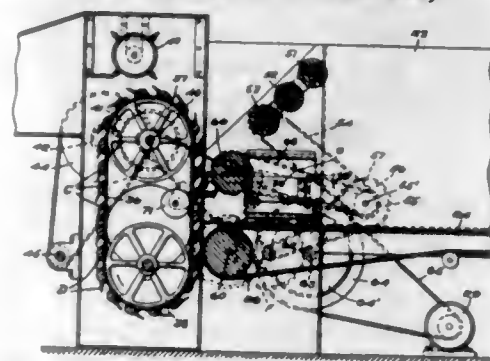


considerable axial extent has been subjected to the suction, and then, after a period of time which is a small percentage of that consumed during traversal of said area, repeating the foregoing procedure, starting at approximately the same axial location on the cylinder as before.

2,712,675

**METHODS OF AND MACHINES FOR BLENDING TEXTILE FIBERS**

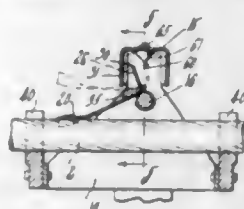
Eugene Cleveland Gwaltney, Biddeford Pool, and William Shaw and Elliot B. MacLean, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine  
 Application August 12, 1949, Serial No. 109,976  
 6 Claims. (Cl. 19-146)



2. In a machine organization for blending textile fibers of different kinds, the combination of a series of hopper feeders, a feed table on to which all of said hopper feeders deliver the streams of fiber produced, respectively, by them, a bat building mechanism, means for mixing the fiber constituents of said streams and conveying the mixture to said bat building mechanism, a support for the completed bat, means operable to transfer the bat produced by said building mechanism to said support, means cooperating with said support for raking across the edge face of the bat mounted on said support transversely to the layers of which the bat is composed and thereby removing increments of fiber from all of said layers, and means cooperating with said support for feeding said bat to said raking mechanism at substantially a predetermined speed.

2,712,676

**STRAND CONTROLLED MECHANISM**  
 Donald B. McIntyre, Wellesley, Mass.  
 Application July 2, 1952, Serial No. 296,825  
 4 Claims. (Cl. 19-165)

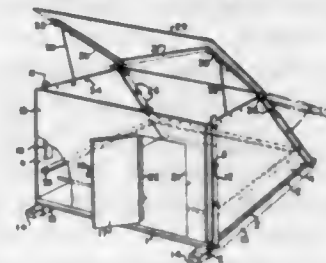


3. A device of the class described, comprising a pivot rod, a flipper journaled on said rod and slidable axially thereof for a limited distance, and having an end portion shaped to ride on a strand, said flipper having a tail, an

inverted channel-shaped element supported above and parallel to said rod and adapted to be contacted by said tail when a strand is not present and said end portion drops below its strand-engaging position, and a yieldable post carried by said channel-shaped element between its sides in position to be engaged by said tail and releasably hold said flipper out of strand-engaging position and out of element-engaging position.

2,712,677

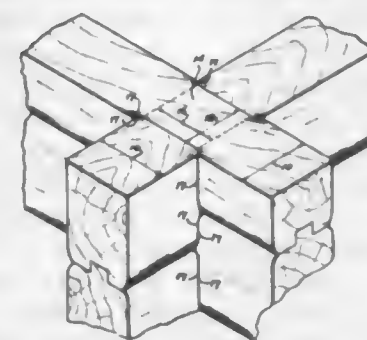
**PORTABLE ANIMAL SHELTER**  
 Cecil M. Hyde, Connorsville, Ind.  
 Application February 24, 1950, Serial No. 146,036  
 2 Claims. (Cl. 20-2)



1. An animal shelter comprising a bottom member of rectangular configuration, oppositely disposed side walls each having a quadrilateral shape, said side walls having front edges with a greater vertical height than the rear edges thereof, front and rear walls having rectangular configuration and mounted between said side walls, said front wall being vertical and said rear wall converging toward said front wall, detachable elements fastening said front wall to said side walls, said rear wall having flange means along the lateral edges thereof engaging said side walls, a series of additional detachable elements spaced along the length of said flange means and directed through openings in said side walls and said flange means, one of said additional detachable elements being located at the upper ends of said flange means whereby on the removal of the other said additional elements said rear wall may be pivoted about its upper edge, and a top member pivotally mounted on the upper edge of said rear wall.

2,712,678

**TIMBER JOINT CONSTRUCTION IN WALLS, PANELS, PARTITIONS, AND PREFABRICATED TIMBERS THEREFOR**  
 Aage Jensen, Vancouver, British Columbia, Canada  
 Application March 22, 1950, Serial No. 151,078  
 3 Claims. (Cl. 20-4)

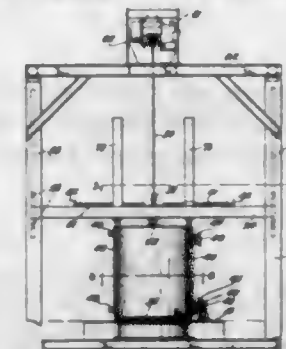


1. In a building structure, a plurality of similarly notched elongate timbers interfitted in criss cross relation, one upon the other, each of said timbers having transverse notches in their top and bottom surfaces and vertical notches in their opposite side faces intersecting the transverse notches to define a core of reduced height and width, the length of each core being appreciably less than the overall width of the timbers so that the vertical edges of the timbers on opposite sides of the vertical notches effect interference with corresponding portions of the similar timbers interfitted therewith, the longitudinal edges of the timbers, at least in the vicinity im-

mediately adjacent opposite sides of the vertical notch, being rounded whereby to effect a gradual interference when interfitted with like timbers.

2,712,679

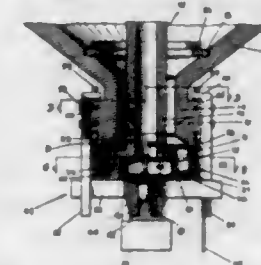
**MEANS FOR FORMING ARGILLACEOUS PIPE**  
 John O. Everhart, Karl E. Krill, and Robert E. Dine, Columbus, Ohio, assignors, by mesne assignments, to The National Clay Pipe Research Corporation, Logan, Ohio, a corporation of Ohio  
 Application August 29, 1951, Serial No. 244,212  
 12 Claims. (Cl. 25-37)



12. Tamper apparatus for deep molds of the type employed in molding cylindrical pipe members, said molds being formed to comprise an outer jacket and an inner cylindrical core, the core and jacket being concentrically disposed and relatively spaced to define between the same an annular molding space for the reception of a compacted material, said tamper apparatus comprising: a frame including a vertically adjustable and horizontally disposed cross member; means carried by said frame for raising and lowering said cross member; a pair of spaced guide devices carried by said cross member; means for adjusting said guide devices relatively to cause the same to register with annular spaces of varying diameter; a tamper casing mounted for confined vertical movement in each of said guide devices, each of said casings extending directly into the annular molding space of an associated deep mold; motor means mounted in each of said casings in the portion thereof extending into and occupying said molding space during normal operation of said tamping apparatus; reciprocatory heads carried by the lower ends of said casings; and rod means carried by said motor means and extending beyond and below the lower part of each casing for connection with an associated head, said rod means occupying but a portion of the total height of said space.

2,712,680

**TILE FORMING MACHINE**  
 Joseph Albert Bryant, Lehigh, Iowa  
 Application January 21, 1952, Serial No. 267,470  
 4 Claims. (Cl. 25-39)



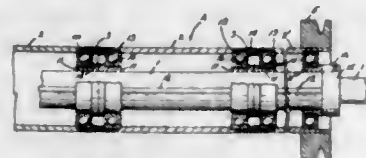
1. A forming machine for making elbow tile including an upright outer die shell having a tubular outlet portion, a movable inner die member movable axially relative to said outlet portion into and out of a tile forming position, a tubular outer die shell extension integral with said inner die member for axial movement therewith as a unit, said outer die shell extension being in abutting engagement with said outlet portion when said inner die member is in a tile forming position, and means for releasably locking said inner die member in said tile forming position against axial movement.



2,712,681

## SPREADER GUIDE ROLL

Sterling W. Warner, Fredericksburg, Va., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware  
Application November 24, 1953, Serial No. 394,105  
12 Claims. (Cl. 26-63)

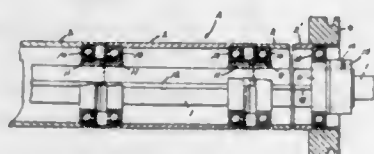


12. A spreader guide roll assembly comprising a bowed shaft, a plurality of sleeves journaled on said shaft, and a short resilient drive connector between each adjacent pair of sleeves.

2,712,682

## SPREADER GUIDE ROLL

Sterling W. Warner, Fredericksburg, Va., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware  
Application November 24, 1953, Serial No. 394,106  
1 Claim. (Cl. 26-63)

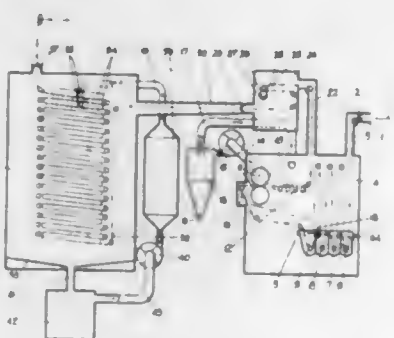


A spreader guide roll comprising a bowed shaft, a key affixed to the shaft, flanged bushings fitted along the shaft and held in place by the key, bearing assemblies positioned around the bushings, and sleeves positioned over the bearing assemblies, each sleeve end having a recessed portion and a projecting portion whereby the sleeves are locked together to form a single unit.

2,712,683

## TREATMENT OF TEXTILES

Alfred Gaunt, Batley, Norman K. Earle, Brighouse, and Herbert John Ross, Runcorn, England, assignors to T. F. Firth and Sons Limited and Imperial Chemical Industries Limited, both corporations of Great Britain  
Application July 17, 1951, Serial No. 237,082  
Claims priority, application Great Britain July 27, 1950  
8 Claims. (Cl. 28-74)

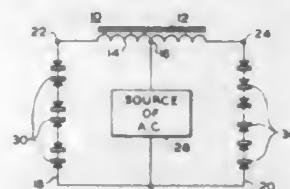


1. In a process for the manufacture of fabrics comprising a backing and upstanding pile, the yarns making up the fabric comprising an appreciable proportion of wool, the combination of steps comprising treating said fabric comprising wool while in a greasy, unsized condition with a volatile organic grease solvent to remove grease and accompanying dirt, thereafter applying to the thus cleaned fabric while it is still wet with solvent a sizing agent which is soluble in the organic solvent and finally removing the solvent from the sized fabric.

2,712,684

## POWER TRANSMISSION

Frank G. Logan, Kirkwood, Mo., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan  
Application July 30, 1949, Serial No. 107,799  
13 Claims. (Cl. 29-25.3)

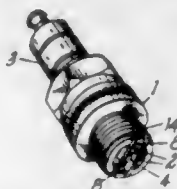


1. An electroforming circuit comprising a pair of parallel connected electroforming branches, each branch having connected therein a plurality of formable rectifier cells, said branches being energizable with alternating current, an inductive winding in circuit with one of said branches, and a second inductive winding in circuit with the other of said branches, said windings being inductively coupled and operable in response to excess current in one branch to transform said current and induce additive voltage in the winding of the other branch, thereby to increase the current in said other branch.

2,712,685

## METHOD OF MANUFACTURING SPARK PLUG SHELL AND GROUND ELECTRODE ASSEMBLIES

Stephen I. Johnson, Rex J. L. Dutterer, and Anthony J. Hein, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich.  
Application August 6, 1951, Serial No. 240,586  
4 Claims. (Cl. 29-25.12)



1. The method of making spark plug shell and ground electrode assemblies comprising the steps of forming a tubular metal spark plug shell, cutting opposed pairs of aligned slots through the inner end edge thereof with the planes of the pairs of slots parallel and laterally spaced and on opposite sides of and in laterally spaced relation to the axial center of the shell, pressure inserting electrode elements of flat section and having a rounded edge edge-wise into diagonally opposite slots with their rounded edges contacting the bottoms of the slots and with their inner ends in spaced relation to the opposed aligned slot and projecting beyond and in laterally outward spaced relation to the axial center of the shell, applying pressure to the outer edges of the electrode elements and simultaneously therewith applying welding current to produce a welded heat and current conducting joint between the electrode elements and the shell with the electrode elements lying within the plane of the inner end of the shell, the axially inner edges of the electrode elements being deformed by said pressure axially inwardly of the shell along the radially inner ends of the slots in which they are received into heat conducting contact with the inner surface of the shell.

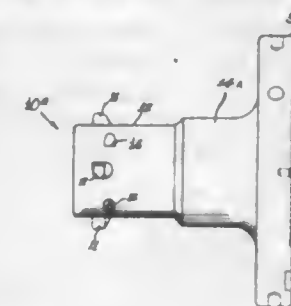
2,712,686

## ADJUSTABLE TOOL CONSTRUCTION

Norman A. Heldt, Allen Park, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan  
Application May 18, 1954, Serial No. 430,517  
6 Claims. (Cl. 29-105)

1. An adjustable cutter head comprising the combination of a body having an axial bore therein and a plu-

rality of generally radial bores communicating with the axial bore, a corresponding plurality of cutting tools in said radial bores, frictional means for opposing movement of said cutting tools longitudinally of said radial bores, an adjusting element telescopically mounted within said axial bore and connected with said body for

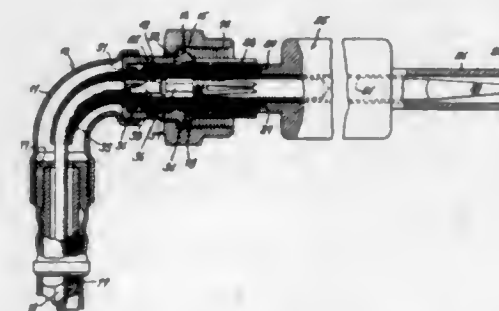


adjustment longitudinally thereof, axially spaced support journals on said adjusting element, and a tapered cam on said adjusting element interposed between said support journals and adapted to bear against the inner ends of said tools for uniformly adjusting the same radially of said body.

2,712,687

## METHOD OF ASSEMBLING ELECTRICAL CONNECTOR ELEMENTS

William A. Uline, Sidney, N. Y., assignor to Bendix Aviation Corporation, Sidney, N. Y., a corporation of Delaware  
Original application March 7, 1946, Serial No. 652,566, now Patent No. 2,603,682, dated July 15, 1952. Divided and this application October 1, 1948, Serial No. 52,213  
5 Claims. (Cl. 29-155.55)



1. A method of assembling a hose and fitting with a cable and contact that comprises the steps of assembling the cable and contact within the hose and fitting, distending a tubular resilient insert adapted to fit snugly within the fitting and around the contact with external and internal flanges of the insert in cooperation with means in the fitting and on the contact, respectively, for holding the insert in position within the fitting and for holding the contact in position within the insert, passing the distended insert over the contact and into position within the fitting, and releasing the insert to engage the contact whereby the parts are accurately positioned with respect to each other.

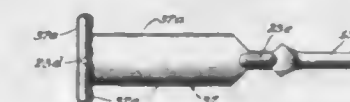
2,712,688

## METHOD OF MAKING FLUID DIRECTING MEMBER

Ralph H. Steinmeyer, Willoughby, and William M. Williams, Mentor, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application June 25, 1948, Serial No. 35,236  
3 Claims. (Cl. 29-156.8)

1. The method of accurately producing fluid-directing members each having a fluid-directing foil section of varying contour along its length and a root portion for anchoring the member on a support which comprises forming a headed metal rod with a stem portion of controlled diameter size and a tapered head portion of controlled tapered size, hot pressing said headed metal rod

into a blank having a flattened blade portion intermediate its ends together with a transversely extending root rib at one end and an undeformed rod portion at the other end, protecting the surfaces of the headed rod with graphite during said hot forging operation to prevent scale formation on the forged areas, flashing excess metal beyond the shaped rib and blade areas during said forging operation, trimming off the excess flashed metal, cleaning the trimmed blank, warm forging the trimmed blank to form the rib and root portions closer to the desired dimensions while protecting the surfaces thereof with graphite and flashing excess metal beyond the rib

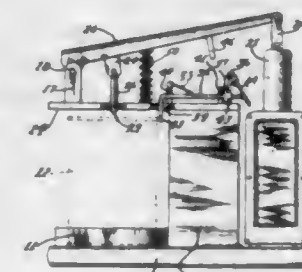


and root portions, removing the thus formed flash metal, annealing the resulting blank, cleaning the annealed blank, and cold coining the annealed clean blank between highly polished dies at pressures of from 150 to 300 tons per square inch to form the blank to exact dimensions while flashing any excess metal laterally of the blank and protecting the finish of the blank with a lubricant, trimming off the rod end of the blank, heat-treating the blank to harden the same, cleaning the heat-treated blank, machining the rib portion of the blank to form locking edges thereon, and trimming the foil section of the blank to the desired length.

2,712,689

## ELECTRICALLY OPERATED AUTOMATIC CAN OPENER

Stanley W. Chambers, Lander, Wyo.  
Application September 28, 1954, Serial No. 458,847  
5 Claims. (Cl. 30-4)



1. In an apparatus for opening containers, a frame providing a container receiving space, a fulcrum carried by said frame adjacent said receiving space, a lever pivotally secured at one end to said fulcrum and extending across said receiving space, a pair of punch members disposed adjacent said space and mounted for movement into and out of said space to puncture spaced apertures in a container disposed in said space, electrically operated solenoid means engaging the other end of said lever for driving said lever about said fulcrum, and said lever having means closer to said fulcrum than to the other end thereof for engaging said punch members to drive the same into said receiving space upon energization of said solenoid means.

2,712,690

## CAN OPENING PUNCH DEVICE

Robert W. Heaviside, Falls Church, Va.  
Application November 3, 1954, Serial No. 466,521  
13 Claims. (Cl. 30-6.1)

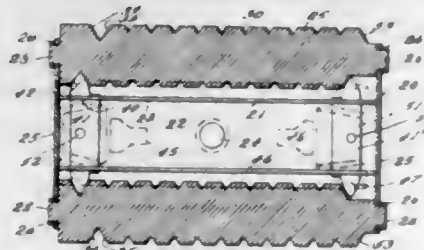
1. A can opening device comprising a supporting bracket adapted to be attached to a support, a member pivotally secured to said bracket adjacent one end thereof, a can holding member slidably mounted on said pivotal member, a can opening punch mounted in align-



ment with said can holding member, means for sliding said can holding member longitudinally along said pivotal



**2,712,691**  
**RECIPROCATING RAZOR**  
Clarke P. Pond, Philadelphia, Pa.  
Application June 17, 1952, Serial No. 293,960  
4 Claims. (Cl. 30-46)



1. In a razor, a frame, a pair of spaced generally parallel rollers rotatably mounted on the frame and adapted to selectively engage the skin of the user during shaving, opposed V cams on the same end of each roller extending around each roller and deflecting longitudinally, the cams undergoing a plurality of reversals in each circumference, longitudinal guide means on the body adjacent to the cams, a lever guided in the guide means and having opposed cam followers on opposite ends, each of the cam followers being convexly curved on each follower face, each of the cam followers substantially continuously engaging one of the opposed cams on each roller, and at the exact limit of travel of the lever when the follower leaves contact with one cam face at the point of reversal, the follower having contact established with the opposite cam face on the same roller, an oscillator reciprocable endwise of the razor and adapted to hold a blade, means on the frame guiding the oscillator and a pivotal interconnection between a mid-point of the lever and the oscillator.

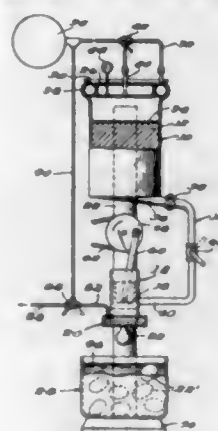
**2,712,692**  
**ENVELOPE OPENER**  
James P. Ross, Glavin, Saskatchewan, Canada  
Application October 28, 1952, Serial No. 317,287  
2 Claims. (Cl. 30-287)



1. An envelope opener comprising a base having a front wall provided with a horizontal guide slot adapted to receive an envelope inserted edgewise therein, a pair of cutter blades each pivoted at one end thereof to the front wall adjacent the ends of the slot for vertical swinging movement transversely of the envelope and at the opposite side edges thereof, a pair of rollers on the other

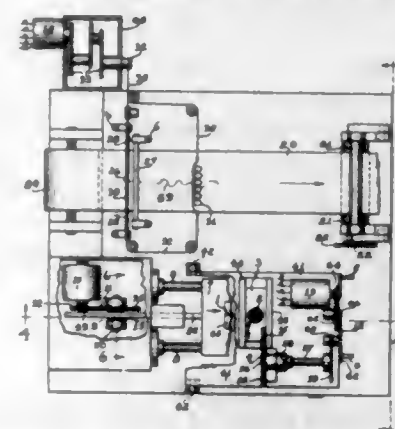
ends of the blades, vertically slidable means carried by the base and having a handle overlying and engaging the rollers on the cutter blades to swing the latter downwardly and spring means raising the blades.

**2,712,693**  
**DEVICE FOR EXTRUDING BALLS OF**  
**MOZELLE CHEESE**  
Virgil G. Comparette, Gardena, Calif.  
Application February 4, 1952, Serial No. 269,798  
7 Claims. (Cl. 31-13)



1. Apparatus for forming pliable material into orbicular units, comprising: a receptacle for said pliable material; a cylinder; conduit means interconnecting said receptacle and said cylinder; means operatively associated with said cylinder for forcing said material out one end of said cylinder; a head for one end of said cylinder formed with a coaxial aperture; a plate arranged adjacent said head and formed with an aperture aligned with the aperture of said head; means operatively associated with said head and plate for producing relative movement between said head and said plate toward and away from each other along the axis of said cylinder; and a rubber-like sleeve disposed coaxial to said apertures between said head and said plate, the opposite ends of said sleeve being secured respectively to said head and to said plate.

**2,712,694**  
**APPARATUS FOR ENLARGING A LINEAR GRAPH**  
Robert J. Herbold, Denver, Colo., assignor to  
Lafayette M. Hughes, Denver, Colo.  
Application March 4, 1952, Serial No. 274,814  
6 Claims. (Cl. 33-23)



1. Apparatus for making a linear record related to a linear graph comprising a movable support for the graph, power operated mechanism for moving the graph support in the direction of one coordinate at a uniform rate, a laterally movable graph follower, manually operated mechanism for moving the follower laterally in the direction of the other coordinate so that it may follow the moving graph, a record strip, means for supporting the strip for an independent linear movement, a laterally movable stylus mounted for marking the strip, power mechanism for moving the record strip in a direction related to the

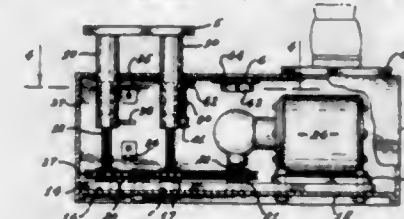
graph movement and at a uniform rate independent of and different from that of the graph movement which determines one coordinate magnification of the graph, and independent mechanism controlled by the lateral movement of the follower for moving the stylus laterally relative to the moving record strip to a variable distance and at a rate coordinated with but different from the graph follower movement which determines the second coordinate magnification, so as to produce a linear record related to the graph in which the two coordinates of the graph are independently varied in the record to predetermined proportions.

**2,712,695**  
**GAUGE BLOCK**  
Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio  
Application May 1, 1953, Serial No. 352,517  
4 Claims. (Cl. 33-168)



1. A gauge setting block for use in setting the indicator position adjustment and the amplification of a gauge instrument controlled by a gauge head having a work contactor, said block having a flat supporting surface for mounting upon a reference surface and a flat surface sloped relative to said supporting surface adapted for contact by the work contactor, the sloped surface having horizontal and vertical components whereby relative movement between the gauge head and the setting block along one component with the work contactor in contact with the sloping surface gives a displacement of the work contactor along the second component, indicia on said block along said sloped surface, said indicia including a first indicium adjacent one end of said sloping surface, a second indicium displaced along said sloping surface from the first indicium, the displacement therebetween along the second component being coordinated with a particular gauging instrument and equalling a desired range of the gauging instrument with a particular definite amplification, and a third indicium displaced along said sloping surface beyond said second indicium, the displacement between the first and third indicia along the second component being coordinated with equalling the range of a gauging instrument with another amplification.

**2,712,696**  
**PELVIC LEVELING AND LEG MEASURING MACHINE**  
Henry L. Johnson, Phoenix, Ariz.  
Application March 5, 1954, Serial No. 414,468  
3 Claims. (Cl. 33-170)



2. A pelvic leveling and leg measuring machine consisting of a case, having a body with a rectangular top, having a tape viewing window, a stationary foot platform attached to one longitudinal end portion of said top, a vertically movable foot platform operating over the opposite end portion of said top; mechanical raising and lowering mechanism for said movable foot platform disposed within said case; a reversible electric motor controlled

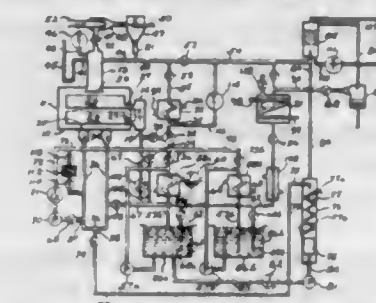
by a switch on a cord extending from said case; and a tape for indicating the difference between the height of said stationary and movable platforms having one end attached to said raising and lowering mechanism within said case and movable thereby, supported beneath and visible through said viewing window in said case top.

**2,712,697**  
**BOREHOLE GAUGE**  
Maurice P. Lebourg, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware  
Application March 30, 1954, Serial No. 419,740  
11 Claims. (Cl. 33-178)



3. Apparatus for gauging a borehole drilled into the earth comprising a fluid-tight housing of non-magnetic material adapted to be moved through a borehole and having a longitudinal axis, a first magnetic circuit element positioned exteriorly of said housing, longitudinally movable with respect thereto, and including a pair of pole sections of opposite magnetic polarities and of substantially spiral configuration relative to said longitudinal axis, a second magnetic circuit element positioned interiorly of said housing, rotatably movable with respect thereto, and having a pair of pole sections of opposite magnetic polarities arranged to coact in opposed polarity relation with said pole sections of said first magnetic circuit element, means for longitudinally displacing said first magnetic circuit element in response to variations in the diameter of the borehole thereby to effect rotational movement of said second magnetic circuit element, and means for indicating rotation of said second magnetic circuit element relative to a reference position.

**2,712,698**  
**REMOVAL OF DEHYDRATING LIQUID FROM**  
**FOODS**  
Wells Alan Webb, Salinas, Calif.  
Application January 15, 1951, Serial No. 206,043  
1 Claim. (Cl. 34-9)

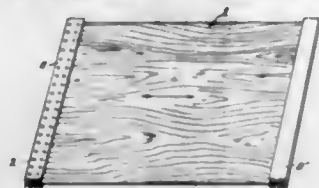


The process for dehydrating solid food objects containing moisture that comprises the steps of: circulating fat at from substantially 150° F. to substantially 250° F. in intimate contact with said objects, then replacing said fat with relatively cool fat of a temperature substantially



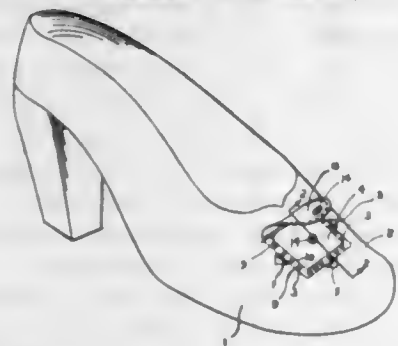
lower than 150° F., then draining off said relatively cool fat and thereafter circulating a volatile, non-toxic, inert oil solvent of relatively high vapor pressure through said product at a pressure above the vapor pressure of said solvent, then reducing pressure upon said food below the vapor pressure of said solvent and heating said food by passing superheated vapors into contact with said food to evaporate said solvent with said vapor being at a temperature of substantially 140° F. to 180° F.

**2,712,699**  
**DEVICE FOR PREVENTING BUCKLING AND CRACKING WHEN DRYING VENEERS**  
Peter Fecht, Mannheim-Rheinau, Germany  
Application April 26, 1951, Serial No. 223,093  
Claims priority, application Germany April 28, 1950  
4 Claims. (Cl. 34-162)



1. A device for drying flat veneer in a continuous drying operation, comprising transport means for transporting the veneer in horizontal position, said transport means including longitudinal striplike members individually disposed parallel and in spaced relation to the surfaces of the marginal portions transverse to the grain of the veneer, and resilient bracket means extending around the edge of the veneer and pairwise interconnecting said members.

**2,712,700**  
**SHOE WITH A PURSE OR POCKET**  
Frank Solomon, Brookline, Mass.  
Application January 16, 1953, Serial No. 331,644  
2 Claims. (Cl. 36-1)

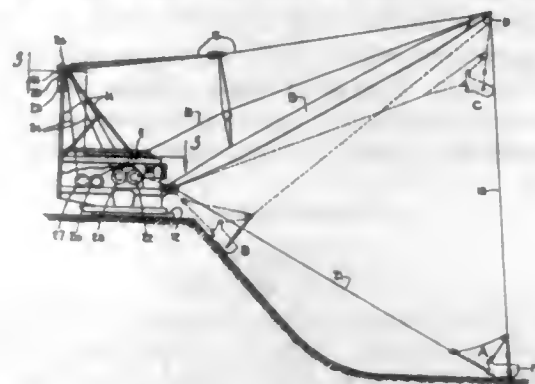


1. In combination with a shoe, a pocket purse formed with the outer face of the purse as a part of the vamp material just forward of the throat of the shoe and back of the toe cap, an opening cut in the vamp transversely just back of the throat of the shoe, a piece of material forming the back wall of the purse secured to the underside of the vamp on all but the side where the opening is situated, and having a flap extending through the opening and lying over the vamp in the direction of the throat of the shoe, a row of stitching across the flap securing it to the vamp between the opening and the throat of the shoe, said flap being folded forward towards the toe cap and means fastening it down on the vamp at the front part of the pocket.

**2,712,701**  
**DRAGLINE COUNTERWEIGHT**  
Trevor O. Davidson, Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware  
Application April 11, 1951, Serial No. 220,370  
6 Claims. (Cl. 37-135)

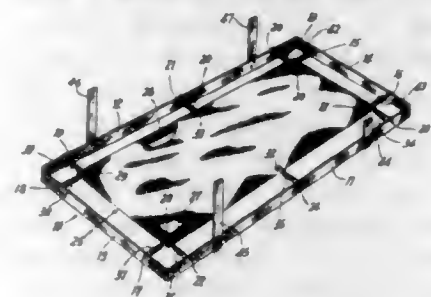
1. In a dragline excavator having a main frame, and a digging bucket supported by a hoist rope and moved for

digging by a drag rope, the combination therewith of: a counterweight tower supported by the main frame; a vertically movable counterweight suspended from the tower by a counterweight rope; first rotatable winch means about which the hoist rope is wound in one direction and about which one end of the counterweight rope



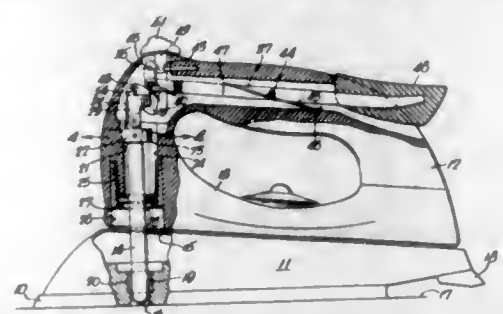
is wound in the other direction; second rotatable winch means about which the drag rope is wound in one direction and about which the other end of the counterweight rope is wound in the other direction; and reversible motor means to at will cause rotation of either or both of said winch means.

**2,712,702**  
**STEAM PRESSING MACHINE**  
Nicholas Crociata, Brooklyn, N. Y.  
Application June 4, 1952, Serial No. 291,759  
13 Claims. (Cl. 38-16)



1. In combination, a pressing machine comprising an upper buck movable down toward a lower buck, a frame, a screen means to resiliently attach said screen to said frame, and means for fixedly supporting the frame in spaced relation below the underside of the upper buck of the pressing machine, said screen extending outwardly beyond said upper buck in all directions.

**2,712,703**  
**FLATIRON**  
John H. Hildale, Glendora, Calif., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application January 4, 1951, Serial No. 204,310  
7 Claims. (Cl. 38-79)



7. In combination, a sad iron having a sole plate, a cover shell therefor and an operating handle secured together in super-imposed relation, a retractable supporting mechanism confined to the forward end of said iron and normally substantially concealed therewithin, said mechanism comprising a plunger arranged for limited

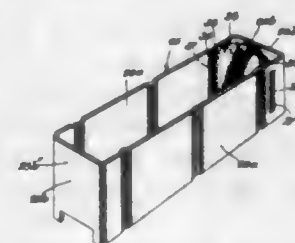
reciprocable movement through super-imposed openings in said sole plate, cover shell and the forward end of said handle, spring means interposed between said iron and said plunger and arranged to elevate the forward end of the iron onto said plunger as the latter is projected downwardly through the opening in said sole plate, interengageable means carried by said retractable supporting mechanism and said iron for normally locking said mechanism in the retracted position thereof until forcibly released by the operator, and control means extending to a point exteriorly of said iron for releasing said interengaging means at the option of the user whereupon said spring means is operative to extend said plunger and elevate said iron to its inclined rest position with the sole plate out of contact with an ironing surface.

**2,712,704**  
**METHOD OF MAKING PRINTED SHEET MATERIAL**

James N. Mason, Winchester, Mass., assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts  
Application March 15, 1954, Serial No. 416,172  
15 Claims. (Cl. 41-19)

1. The method of producing a sheet having a printed surface design comprising applying printing ink to a surface of a sheet in a predetermined design, stretching said sheet in a direction parallel to its plane to elongate it by at least 5% in at least one dimension, and setting said sheet in its stretched condition.

**2,712,705**  
**FIREARM CARTRIDGE PROTECTOR**  
Horace St. Amant, Cheshire, Conn., assignor to Olin Mathieson Chemical Corporation, a corporation of Virginia  
Application May 22, 1952, Serial No. 289,281  
5 Claims. (Cl. 42-50)

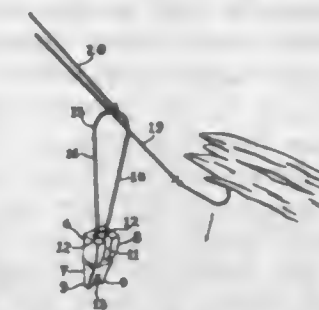


1. A recoil-absorbing box-magazine for use with a firearm, comprising a rigid frame having opposite side-walls and opposite endwalls for the reception of a plurality of cartridges in orderly column arrangement, said side-walls being provided with aligned slots, respectively, near one endwall of the frame confronting the noses of the inserted cartridges; and a leaf-type spring in said frame extending across said side-walls thereof and having opposite ear extensions received in said aligned slots of said side-walls, respectively, for the releasable anchorage of said spring in said frame, said leaf spring confronting those noses of the inserted cartridges in said frame which are within the confines of the latter, and being resiliently bent on impact with the adjacent cartridge noses.

**2,712,706**  
**APPARATUS FOR RELEASING FISH HOOKS**  
Wellington L. M. Gendron, Montreal, Quebec, Canada  
Application October 31, 1951, Serial No. 254,028  
6 Claims. (Cl. 43-17.2)

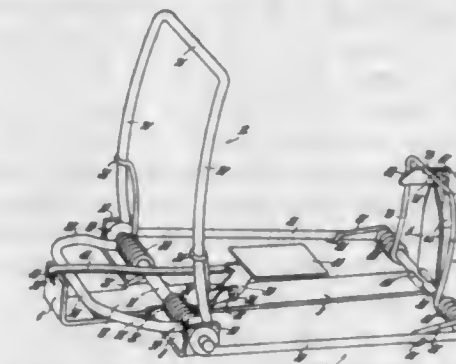
6. Apparatus for releasing fish hooks from an obstruction comprising a block of weighty material provided with a transverse groove extending inwardly from one exposed face and across the entire width of the block, said block also being provided intermediate its width with a longitudinal groove extending inwardly from the same exposed face

of said block at one side of the transverse groove, said longitudinal groove extending from the transverse groove to one end face of the block, the end of the block at the side of the transverse groove remote from the longitudinal groove being notched, said longitudinally extending groove having the opposing side walls thereof undercut adjacent the bottom of the groove to give said longitudinal groove an inverted T-shaped cross-section, and a U-shaped bail member having the free ends of its legs di-



rected outwardly, the legs of said bail member being positioned in the recesses formed by the undercut portions of the side walls of the longitudinal groove with the outwardly directed ends of the legs positioned in the end portions of the transverse groove, the arrangement being such that the bail member may be released from the block by forcing the legs toward each other to free them from said recesses and then moving said legs in the direction of the exposed face portion of the block into which the grooves open.

**2,712,707**  
**ANIMAL TRAP**  
Alexander Cooley, Granville, N. Y.  
Application June 24, 1953, Serial No. 363,722  
3 Claims. (Cl. 43-81)



1. A killer trap comprising in combination, a support, a striker, pivotal connections between one end of said support and said striker for swinging of the latter towards the other end of the support in a striking direction, a retainer, pivotal connections between said support and retainer for swinging of the latter between a set position in retaining engagement with the striker in its set position and in a striker releasing position, a trigger and pivotal connections between said support and trigger for swinging of the latter between set and sprung positions, engageable means carried by said trigger and retainer for releasably holding the retainer in set position of the trigger, means to propel said striker from set to striking position, a hold-down and pivotal connections between said support and hold-down for swinging of the latter from set position towards said one end of the support and adapted to overlies said striker in sprung position thereof, a catch pivoted to said other end of the support having means to releasably receive the hold-down in set position thereof, and means propelling said hold-down from set position to a position overlying said striker, said catch having an inclined position disposed to be engaged and swung to releasing position by said striker in swinging thereof from set position where-by said hold-down is released.



# 2,712,708 FLY SWATTER

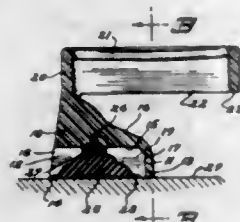
Ulysses G. Hale, Brownwood, Tex.  
Application March 13, 1953, Serial No. 342,131  
1 Claim. (Cl. 43—137)



A fly swatter comprising: a wire handle including a substantially triangular end portion and a substantially rectangular flexible striker sheet mounted for swinging movement on said handle, said striker sheet comprising rear corner portions folded inwardly on diagonal, rearwardly convergent lines providing a reinforced end portion of double thickness and having parallel, abutting, longitudinally extending edge portions, said reinforced end portion being folded transversely on itself through said triangular end portion of the handle and overlying and bridging said corner portions, and fasteners inserted through the folded portion of said reinforced end portion, through the adjacent marginal portions of said corner portions and through said sheet for securing the assembly.

# 2,712,709

HOLDER FOR SOAP, ETC.  
Earl J. Pulrang, Minneapolis, Minn.  
Application March 9, 1953, Serial No. 341,025  
1 Claim. (Cl. 45—28)



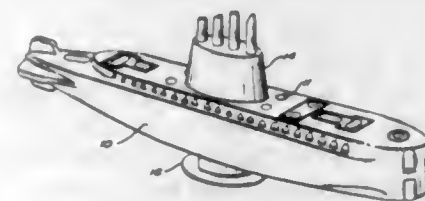
A holder comprising a base constituted as an oblong body member merging at a side thereof in a downwardly extending side flange portion and at its opposite ends in downwardly extending end flange portions and having an upper oblique surface which is curvilinear and extends in a direction away from said oblong body member and toward said side flange portion, outer surfaces of said downwardly extending side and end flange portions lying in a single plane at a substantial distance from and in parallel relation to said oblong body member, the opposite ends of said side flange portion being integral with the adjacent ends of said end flange portions and there being a concavity in said oblong body member formed by the body member and said side and end flange portions and open opposite said side flange portion, a perforated supporting surface extending horizontally from the upper edge of said oblong body member and overlying at least in part said oblique surface, a suction cup situated in said concavity in equally spaced relation to said end flange portions and in spaced relation to said side flange portion, the lower edge of said suction cup normally protruding outwardly beyond the plane of said outer surfaces of said side and end flange portions and adapted to lie in the plane of the outer surfaces of said side and end flange portions when said holder is upon a supporting surface, and means securing said suction cup to said body member.

# 2,712,710

TOY SUBMARINE  
Henry Hirsch and Benjamin L. Hirsch, Toledo, Ohio,  
assignors to Kellogg Company, Battle Creek, Mich., a  
corporation of Delaware  
Application February 17, 1955, Serial No. 488,856  
1 Claim. (Cl. 46—94)

A toy submarine comprising, in combination, a submarine body of a material whose density is slightly less

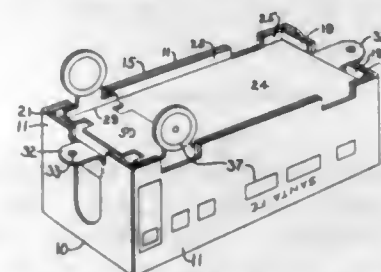
than that of water, having a sealed air chamber, and an open-bottom chamber for holding a powder that effervesces in water, the open-bottom chamber being directly below the air chamber when the submarine is upright, and an upwardly-dished, perforate, flanged cap for the lower chamber, of a material having a density greater than that of the submarine body, the average density



of the submarine, including the air chamber and the cap, being greater than that of water; and the upwardly-dished portion of the cap being shaped to telescope into the open bottom of the lower chamber far enough so that when the lower chamber has been filled with powder the insertion of the cap compresses the powder to about three-fourths of its original volume.

# 2,712,711

TOY VEHICLE FORMED FROM CARTON  
Theodore J. Leyden, Marshall, Mich.  
Application December 10, 1951, Serial No. 260,820  
2 Claims. (Cl. 46—218)



1. A wheeled toy comprising a one piece unitary portion of a carton of right parallelepipedal form, each of the sides of said portion having one edge common with a fifth side whereby to constitute an open faced body structure having a rectangular main wall from the edges of which extend in a common direction the four side walls having their adjacent edges joined together, a generally rectangular member adapted to fit in and close the open face of said structure and form the bottom of the body structure of the toy, downwardly extending flanges on the sides of the rectangular member fitting against the sides of the body structure, cooperating means on the side walls of the body structure and said flanges for joining them together, and a pair of separate truck frames having attaching means joining them to said bottom member, each of said truck frames having downturned end portions, an axle member extending between and engaging said end portions, and rotatable wheels mounted on the end portions of said axle member.

# 2,712,712

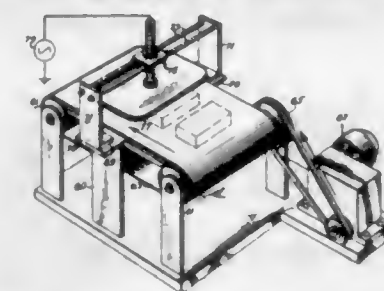
TRUNDLE-TYPE TOY  
Albert Hajek, Lost Springs, and Gene R. Weber,  
Ramona, Kans.  
Application December 11, 1952, Serial No. 325,368  
1 Claim. (Cl. 46—220)



A trundle-type toy comprising a rigid linearly straight elongate shaft, a single wheel comprising a rim, a hub

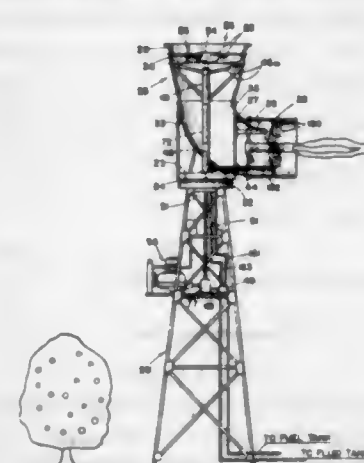
and spokes connecting the rim and hub, said hub being fixedly secured to the remote outer end of said shaft, the opposite end of the shaft having first and second lateral bends defining a hand crank, said second bend defining the turnable portion of the hand crank and being provided with spaced rigidly attached shoulders, a bearing sleeve surrounding said turnable portion and situated and confined between said shoulders and providing a freely rotatable first hand-grip, additional longitudinally spaced shoulders on the portion of the shaft in close proximity to said first bend, and a second sleeve freely rotatable on said shaft and confined between said last named shoulders and providing a combined bearing and hand-grip.

2,712,713  
METHOD OF TREATING SEEDS BY HIGH  
FREQUENCY FIELDS  
Herbert Jonas, Berkeley, Calif.  
Application February 23, 1950, Serial No. 145,650  
7 Claims. (Cl. 47—1.3)



1. The method of treating seeds to increase the percentage of germination thereof which comprises the steps of subjecting said seeds to an oscillating electric field of a frequency between 10 megacycles and 300 megacycles per second, adjusting the strength of said field to cause said seeds to absorb power therefrom at a rate of from 7 to 30 watts per milliliter and removing said seeds from said field when the temperature thereof has increased by from 10° C. to 25° C. to a maximum of not more than 60° C.

2,712,714  
FROST PREVENTING DEVICE  
James W. McGee, Ontario, Calif.  
Application January 24, 1950, Serial No. 140,330  
13 Claims. (Cl. 47—2)



1. A frost preventing device for protecting growing plant life comprising: a supporting structure adapted to extend substantially above the plant life to be protected and into the air layer normally overlying the ground air; a duct comprising a first conduit and a second conduit mounted on said supporting structure at the top thereof, said first conduit having an inlet at the upper end thereof adjacent said overlying air layer, the longitudinal axis of said inlet portion being substantially vertical and extending downwardly, said second conduit being connected to the lower end of said first conduit and having a discharge portion extending substantially laterally with reference to said first conduit; blower means for drawing air into the

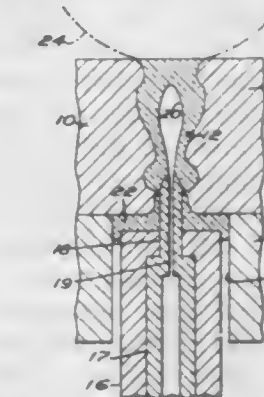
inlet of said first conduit and forcing said air through said second conduit; means for driving said blower means; said second conduit being adapted to direct air delivered to it by said blower means outwardly, above and downwardly onto the plant life to be protected; means on said supporting structure for movably supporting said duct including a track means on which said movable duct support can travel; and means for causing said duct support to travel on said track means, whereby said duct is caused to move about the longitudinal axis of said inlet portion and discharge air drawn in from the region above said inlet, uniformly outwardly and downwardly over the entire area covered by the plant life to be protected by said frost preventing device.

2,712,715  
TREE COVER OR TENT  
Lee H. Barron, Glendale, Calif.  
Application March 20, 1952, Serial No. 277,679  
7 Claims. (Cl. 47—21)



1. A tree tent or cover comprising a sheet of stiff weatherproof paper, said sheet of paper being accordion pleated in vertical pleats and said pleats having sufficient stiffness to remain erect when the ends of said pleats are resting upon the ground, said pleated paper sheet being adapted for encircling a tree, and means for removably fastening together the vertical end edges of said pleated paper sheet, the outward folds of said pleats having horizontal slits extending partly through said outward folds whereby the portion of the sheet above said slits may be folded inwardly to form a cone-shaped self supporting roof over said tree.

2,712,716  
APPARATUS FOR PRODUCING GLASSWARE  
Charles W. Carlson, Tiffin, Ohio  
Application August 27, 1954, Serial No. 452,561  
4 Claims. (Cl. 49—65)

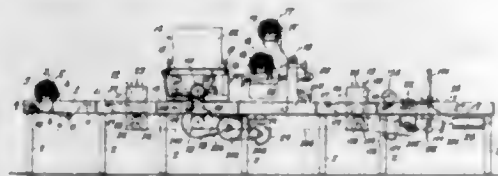


1. Apparatus for forming glass stemware comprising a pair of separable mold parts forming a stem molding cavity open at both ends, means including an open ended charge receiving chamber movable to dispose one end thereof against one end of said stem molding cavity, a pair of coaxial inner and outer plungers positioned adjacent to the other end of said charge receiving chamber and movable axially toward said one end thereof, said outer plunger serving as means for transferring molten glass from the charge receiving chamber to the stem molding cavity and said inner plunger being adapted to pierce the glass in the stem molding cavity axially, and means for blowing air through said inner plunger to enlarge the opening formed by piercing and form a bubble in said stem.



2,712,717

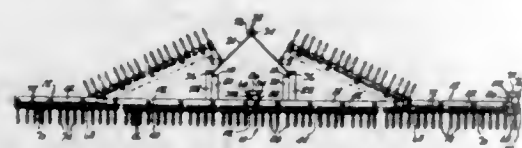
**PACKAGING MACHINE AND METHOD**  
Arthur M. Keller, Livingston, N. J., assignor to Mason-Keller Corporation, a corporation of New Jersey  
Application March 18, 1948, Serial No. 15,695  
8 Claims. (Cl. 53—10.5)



1. A packaging machine having means for forming a commodity containing pocket in a flat web of flexible, permanently deformable material comprising a member having a flat surface and aperture therein, means for successively positioning adjacent portions of said web into position overlying said member, a female die, means for alternately positioning said die adjacent said web with one of said portions of said web lying between said die and said member, with the peripheral edges of said die forcing the peripheral edges of said portion of said web against said member and forming a fluid tight seal therebetween, and positioning said die away from said member to a position whereby said web may be moved parallel to the surface of said member, and means for forcing a fluid under pressure through said aperture against said web, said fluid pressure forcing said portion of said web into said die permanently deforming said portion of said web.

2,712,718

**LIFT-TYPE SPIKE HARROW**  
Jabez A. Love, Silver Creek Township,  
Cass County, Mich.  
Application February 2, 1948, Serial No. 5,697  
3 Claims. (Cl. 55—150)



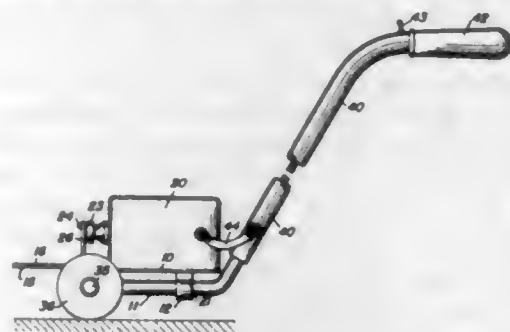
1. A lift type spike harrow comprising a central section and two end sections, each section comprising a plurality of spike teeth and a rigid frame mounting said teeth and including front and rear transverse members, the frame of said central portion including a rigid central superstructure mounted at the front central portion thereof, at least three connectors carried by the frame of said central section in transversely and vertically spaced relation, the front and rear frame members of said sections being substantially aligned and pivoted together about aligned longitudinal axes, and means limiting downward pivoting of said end sections relative to said central section, a plurality of spike-mounting members rotatably carried by the frame of each of said central and end sections, means on each section for simultaneously rotating said spike-mounting members, and means for locking each rotating means to selected angular adjustment.

2,712,719

**LAWN EDGER**  
Lawrence Arther Martin, Rochester, N. Y.  
Application January 9, 1953, Serial No. 330,471  
3 Claims. (Cl. 56—26.5)

1. A lawn edger comprising a bar, an axle fixedly secured at one end to said bar to project laterally from the bar, a single supporting wheel mounted on the opposite end of said axle, a base member journaled on said bar for rotary adjustment thereon about an axis perpendicular

to the axis of said axle, a motor mounted on said base member, and cutting means mounted on said base mem-



ber and operatively connected to said motor to be driven thereby.

2,712,720

**AUTOMATICALLY OPERATED THROW PLATE TYPE GRASS CATCHER**  
John C. Kircher, Jr., San Jose, Calif.  
Application May 4, 1954, Serial No. 427,594  
8 Claims. (Cl. 56—199)



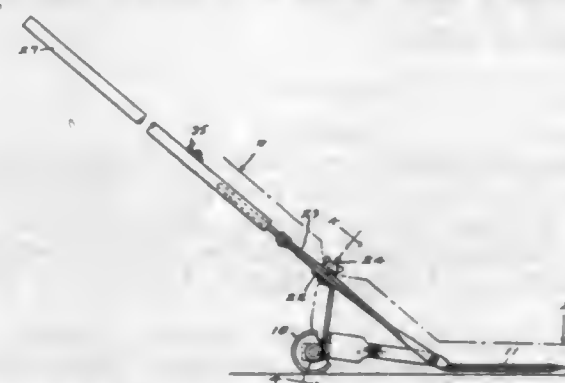
1. In a grass catcher for lawn mowers of the type including a receptacle having a bottom provided with a hinged throw plate at its fore edge arranged to receive grass clippings from the mower and for casting such grass clippings into the rearmost area of said receptacle, a skid plate comprising a metal stamping provided with a mounting panel and a skid portion bent at an angle relative thereto, said mounting panel being secured to the under side of said hinged throw plate midway its sides and adjacent its edge of hinged relation with the bottom of said receptacle, said skid portion of said metal stamping extending downwardly and rearwardly from said hinged throw plate so as to glide over the lawn during forward movement of said mower and receptacle over the same and for engaging turf upon rearward movement of said mower and receptacle for rocking said hinged throw plate rearwardly to cast grass clippings from the same to the rearmost area of said receptacle, and a cross bar extending parallel to the hinged fore edge of said bottom having its mid portion secured to said mounting panel and its extreme ends anchored to said throw plate adjacent the side margins for transmitting the thrust uniformly from said skid portion to said throw plate and to counteract continued flexing of the latter during prolonged operation of said throw plate by said skid plate.

2,712,721

**WHEEL MOUNTED GRASS TRIMMING SHEARS**  
Frederick Gosparlin, Glendale, Calif.  
Application July 26, 1954, Serial No. 445,521  
1 Claim. (Cl. 56—241)

A grass trimming shears comprising a pair of blades, rearwardly convergent arms extending from said blades, an arcuate spring integral with the rear ends of said arms, a pair of elongated crossed handles, means securing the forward ends of said handles to said arms, a pivot bolt extending through the crossing point of said handles, a U-shaped member having its bight directly fixed to the rear of said spring with the legs of said U-shaped member extending oppositely of said blades, a pair of traction wheels rotatably carried by said U-shaped member, an upstanding bracket integrally carried by said U-shaped member, said bracket terminating in an obtusely disposed

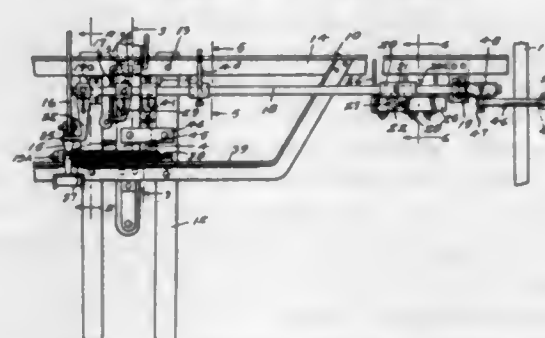
upper end, said pivot bolt engaging through said upper end of said bracket, and means carried by one handle



engageable with the other handle for limiting the outward swinging of said handles.

2,712,722

**HAY RAKE TRIPPING ATTACHMENT**  
Hugo F. Peterson, Wessington Springs, S. Dak.  
Application April 13, 1954, Serial No. 422,798  
1 Claim. (Cl. 56—386)



In a hay rake of the type having a frame, a dumpable rake, and means normally manually actuated mounted on said frame for effecting dumping of the rake, a trip mechanism for automatically actuating said means for effecting dumping of the rake comprising: a horizontal shaft rotatably mounted on said frame, a tubular sleeve horizontally slidable on said shaft, means releasably securing said sleeve to said shaft, a second sleeve integrally secured to said first sleeve with the axes of said sleeves disposed at right angles, a depending shank slidably engaged in said second sleeve, means releasably securing said shank in said sleeve, a horizontal crossbar fixed to the lower end of said shank, a plurality of tines carried by said crossbar, and a right angularly projecting lever fixed to said shaft and engageable with said manually operable means for effecting operation of the latter when a predetermined amount of hay has been picked up by said tines.

2,712,723

**MECHANICAL RAKE TOOTH MOUNTING**  
Kelly P. Ryan, Blair, Nebr., assignor to Kelly Ryan Equipment Company, Blair, Nebr.  
Application September 25, 1950, Serial No. 186,658  
6 Claims. (Cl. 56—400)

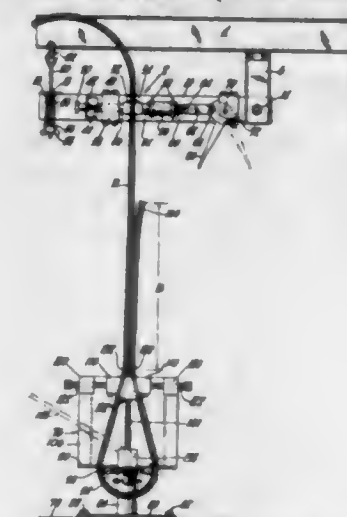


1. In a raking device, a raking member comprising a wheel having an outer flat rim, a plurality of out-struck tabs on the rim arranged in substantially tri-

angular groups of three with two of the tabs in each group being inclined in opposite directions inwardly of the group and with the third tab in each group being inclined outwardly, and a substantially U-shaped tooth for each of said groups of tabs, each tooth having a bight portion of resilient wire-like material angulated with respect to the legs of the tooth with the apex of the bight portion overlying the outwardly inclined tab and with said bight portion being elastically compressed to engage the portion thereof on either side of the apex with the inner surface of the inwardly inclined tabs thereby to hold the tooth in raking position on the wheel.

2,712,724

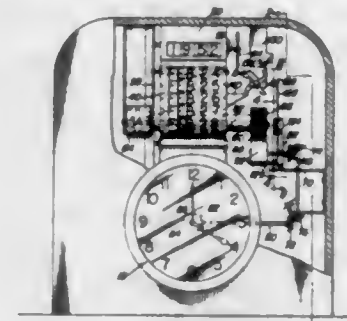
**METHOD AND APPARATUS FOR SPLICING WIRE ROPE**  
Carl F. Schoonover, Gary, Ind., assignor to United States Steel Corporation, a corporation of New Jersey  
Application August 27, 1952, Serial No. 306,580  
13 Claims. (Cl. 57—23)



3. A wire rope splicer comprising a rotatably mounted plate, a pair of aligned spaced apart jaws slidably mounted on said plate, a wedge shaped central jaw mounted on said plate between said pair of jaws, the inner face of each of said pair of jaws being arcuate and tapering outwardly from the narrow end of the central jaw, the faces of said central jaw being concave, each of said pair of jaws being adapted to hold a length of wire rope against said third jaw, means for holding said plate against rotation, and a resiliently mounted clamp spaced from said plate for gripping one of said lengths of wire rope.

2,712,725

**CALENDAR CLOCK**  
Manuel P. Bell, Albuquerque, N. Mex.  
Application October 16, 1952, Serial No. 315,039  
4 Claims. (Cl. 58—6)



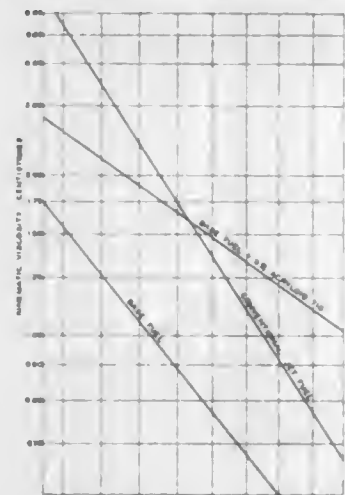
1. A calendar clock comprising a casing having a front wall with openings therein, a clock supported in one of the openings and including a driven hand-supporting shaft, an endless date bearing strip within the casing, guide rollers in the casing over which the strip is trained, the dates on said strip adapted to sequentially register with an opening in the front wall, a drive roller over which said strip is trained, said drive roller being tubular, a rod extending through and journaled in said drive roller, a day indicat-



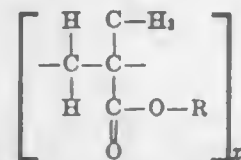
ing roller fixed on the rod and registering with an opening in said front wall, a first sprocket fixed on said driven roller, a second sprocket fixed on said rod, a driven member operatively connected to said shaft for rotation therewith and having a tooth for engaging the sprockets to rotate the driven spool and the rod, a second tooth carried by the member and engageable with the sprocket on said driven roller and movable radially outwardly from and inwardly of the periphery of said member, means for engaging and urging the second tooth radially outwardly from the member, means engageable with the second tooth urging means permitting retraction of the latter, and means on the strip for engaging the second tooth urging means to move the latter to a position for forcing the second tooth radially outwardly from the member.

2,712,726

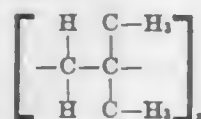
**METHOD OF OPERATING A JET ENGINE**  
Homer M. Fox, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Application September 20, 1951, Serial No. 247,508  
1 Claim. (Cl. 60—35.4)



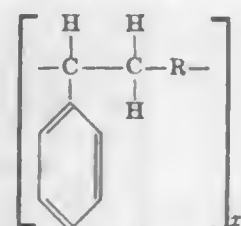
A method of operating a jet engine with a liquid hydrocarbon fuel which comprises incorporating into said fuel supplied to said engine a viscosity index improver selected from the group consisting of high molecular weight polymers which are represented by the following formulae:



wherein R is an alkyl group derived from a fatty alcohol and x is the number of molecules of a similar structure condensed together to form the polymer and is of a value to impart to the said polymer a molecular weight in the range 5000–20,000;



wherein x is the number of molecules of similar structure condensed together to form the polymer and is of a value to impart to the said polymer a molecular weight in the range 10,000–15,000; and



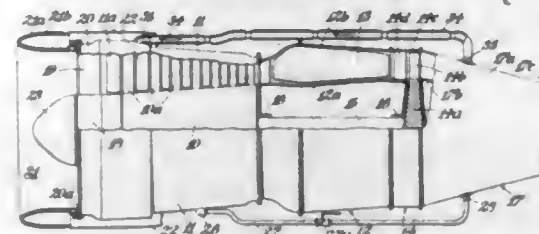
wherein R is an alkylene group containing 8–12 carbon atoms and x is the number of molecules of similar structure

condensed together to form the polymer and is of a value such that the polymer will have a Saybolt viscosity at 100° F. of the order of 30,000 and at 210° F. of the order of 1,900.

2,712,727

**GAS TURBINE POWER PLANTS WITH MEANS FOR PREVENTING OR REMOVING ICE FORMATION**  
Frederick William Walton Morley, Aston-on-Trent, and Ernest Freeland-Upshall, Clitheroe, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application April 27, 1951, Serial No. 223,331  
Claims priority, application Great Britain May 17, 1950  
1 Claim. (Cl. 60—39.09)



A gas-turbine engine comprising a compressor, combustion equipment connected to receive air compressed by the compressor to be heated therein by the combustion of fuel, a turbine connected to said combustion equipment to receive gaseous products of combustion to be expanded therein to drive the turbine, and an exhaust duct on the downstream side of the turbine to receive gases exhausting from the turbine, said exhaust duct comprising an outer wall and a substantially conical inner wall spaced within said outer wall, said walls together defining an annular exhaust passage through which pass the gases exhausting from the turbine, a second conical wall of similar shape to said conical inner wall and located within and narrowly spaced from said conical inner wall to define a first chamber, said first chamber having an inlet and an outlet and said first chamber being on the side of said substantially conical inner wall remote from said annular exhaust passage whereby heat exchange may be effected between air in said first chamber and exhaust gases flowing in said exhaust passage, a first conduit connected at one end to said compressor and at its other end to the inlet of said chamber to convey compressed air thereto, the said other end of said first conduit being formed as a distributor to deliver the tapped air to said first chamber, a wall structure having an external surface which requires anti-icing during operation of the engine and having formed therein a second chamber having an inlet and an outlet, a second conduit connected at one end to lead from a point in said first chamber adjacent the apices of said inner and second conical walls and having its other end connected to the inlet of said second chamber, whereby air compressed by said compressor and passed in heat exchange relation with said exhaust gas is delivered to said second chamber to heat said wall which requires anti-icing, and airfoil-section fairing members by which said inner conical wall and said outer wall are interconnected, said distributor and a portion at least of said second conduit being accommodated within said inner conical wall and said airfoil-section fairing members.

2,712,728

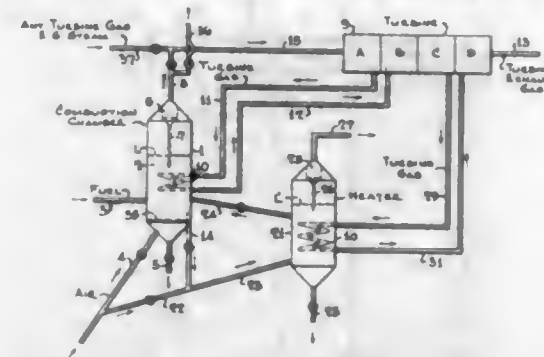
**GAS TURBINE INTER-STAGE REHEATING SYSTEM**

Warren K. Lewis, Newton, and Edwin R. Gilliland, Arlington, Mass., assignors to Esso Research and Engineering Company, a corporation of Delaware

Application April 30, 1952, Serial No. 285,272  
4 Claims. (Cl. 60—39.17)

1. A gas turbine system comprising a gas turbine containing a plurality of stages, means for introducing

gas into the first of said turbine stages, means for withdrawing exhaust gas from the last of said turbine stages, a combustion chamber containing hot turbulent finely divided, non-combustible, solid particles in contact with gaseous combustion products, a heating chamber containing hot turbulent solid particles, a surface heater maintained in contact with said solid particles in said heating chamber, means for conveying hot solid par-

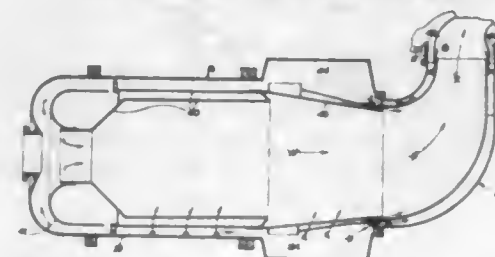


ticles circuitously between said combustion chamber and heating chamber, means for conveying partially expanded gas from one of said turbine stages to said surface heater, means for returning said partially expanded reheated gas from the surface heater to a succeeding stage of the turbine, and means for conveying gaseous combustion products from the combustion chamber to the turbine.

2,712,729

**COOLING SYSTEMS OF GAS-TURBINES**  
Raymond Ernest Wigg, Lincoln, England, assignor to Ruston & Hornsby Limited, Lincoln, England, a British company

Application December 1, 1952, Serial No. 323,418  
Claims priority, application Great Britain December 6, 1951  
2 Claims. (Cl. 60—39.66)



1. In a gas-turbine engine including a compressor, a turbine in driving connection therewith, a combustion chamber and a thin-walled duct adapted to convey gas at elevated temperature and pressure from the combustion chamber to the turbine, an intermediate pressure-resistant casing surrounding said duct and separated therefrom by a first space, an outer casing surrounding said pressure-resistant casing and separated therefrom by a second space, said first space communicating with the compressor outlet, but having itself no outlet so that the internal pressure in said first space approximates to that of the gas within the duct and no flow of air can take place through said first space, a bleed from a part of the compressor, at which the internal pressure is substantially less than that of the gas within the duct, means connecting said bleed with said second space, and an outlet from said second space.

2,712,730

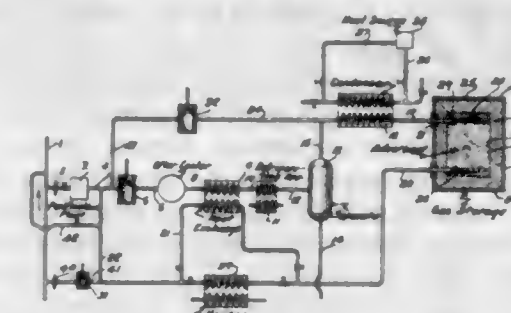
**METHOD OF AND APPARATUS FOR STORING GASES**

Carl V. Spangler, Pittsburgh, Pa., assignor to J. F. Pritchard & Co., Kansas City, Mo., a corporation of Missouri

Application October 11, 1951, Serial No. 250,898  
11 Claims. (Cl. 62—1)

1. The method of storing a high pressure natural gas on a solid adsorbent material at substantially atmospheric

pressure including, liquefying the gas, bringing the liquefied gas into contact with a solid adsorbent material to effect adsorption of liquefied gas on said material, recirculating any vapor evolved during the adsorption to the

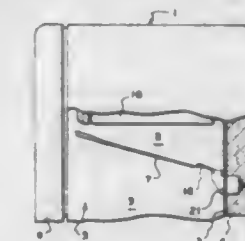


place of liquefaction, and returning said vapors as a liquid to the place of adsorption to maintain adsorbent at a temperature for holding the gas in said material during the storage period.

2,712,731

**AIR CIRCULATION CONTROLLING ARRANGEMENT**

Raymond L. Dills, Erie, Pa., assignor to General Electric Company, a corporation of New York  
Application September 8, 1954, Serial No. 454,782  
8 Claims. (Cl. 62—3)

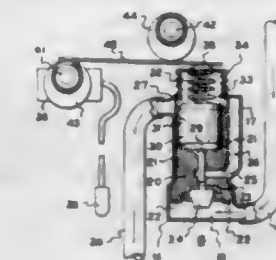


1. In a refrigerator having a cabinet providing a food storage compartment, a refrigerating system including cooling means for said compartment and a compressor, a suction line connecting said cooling means and said compressor, a portion of said suction line being disposed outside said cabinet, means for controlling flow of air over said cooling means and through said compartment, means responsive to the temperature of the portion of said suction line disposed outside said cabinet for controlling the position of said air controlling means, and means disposed between said responsive means and said suction line and in heat exchange relation with said responsive means and said suction line to minimize the transmission to said responsive means of violent momentous temperature fluctuations in said suction line.

2,712,732

**REFRIGERATING APPARATUS**

Thomas A. McGrew, Fern Creek, Ky., assignor to General Electric Company, a corporation of New York  
Application September 9, 1954, Serial No. 454,923  
17 Claims. (Cl. 62—4)



1. Refrigerating apparatus comprising an insulated cabinet, a low temperature compartment and a higher temperature compartment defined in said cabinet, a first

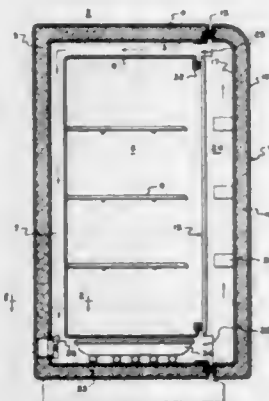


evaporator for cooling said low temperature compartment and a second evaporator for cooling said higher temperature compartment, a refrigerant condensing unit, means including an expansion means connecting said second evaporator to the discharge of said condensing unit, means connecting said first evaporator to the intake of said condensing unit, an adjustable expansion valve connecting said first evaporator to said second evaporator to effect an adjustable temperature differential between said compartments, a temperature responsive control for cycling said condensing unit in response to the temperature of one of said compartments and adjustable to effect different temperatures therein, means including a first movable actuating member for adjusting said expansion valve independently of said control thereby to vary the temperature of the other of said compartments without affecting the temperature of said one compartment, and means including a second movable actuating member for simultaneously and proportionately adjusting said control and said expansion valve thereby to vary the temperature in said one compartment without affecting the temperature of said other compartment.

2,712,733

### FREEZER COMPARTMENT IN REFRIGERATOR DOOR

Ralph E. King, Erie, Pa., assignor to General Electric Company, a corporation of New York  
Application March 22, 1954, Serial No. 417,639  
5 Claims. (Cl. 62-102)



1. A refrigerator having a cabinet providing a food storage compartment, a door providing access to said compartment, an inner door spaced from said first-mentioned door to provide a freezer compartment between said doors, an evaporator disposed adjacent the lower portion of the storage compartment, said inner door being spaced from the upper and lower edges of said first-mentioned door to provide air openings to and from said freezer compartment, means to circulate air over said evaporator through one of said openings, said freezer compartment and said other opening to return to said evaporator, said circulation of air through said freezer compartment maintaining said freezer compartment at sub-freezing temperatures to preserve the contents of the freezer compartment in their frozen condition.

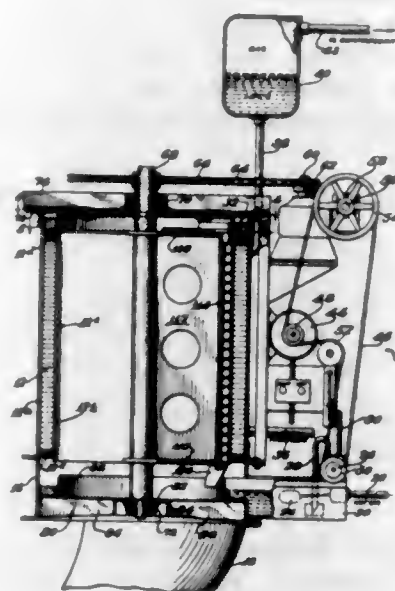
2,712,734

### ICE MAKING MACHINE

Gerald M. Lees, Seattle, Wash., assignor to Col-Flake Corporation, Chicago, Ill., a corporation of Illinois  
Application September 29, 1952, Serial No. 311,971  
8 Claims. (Cl. 62-107)

1. In a flake ice making machine, the combination of: a vertical freezing drum having a cylindrical ice-forming surface; means defining an annular water reservoir located above the drum, said means forming an annular water channel extending from the water reservoir to the ice

forming surface, whereby water flows from the reservoir to the surface through the channel in a circumferentially

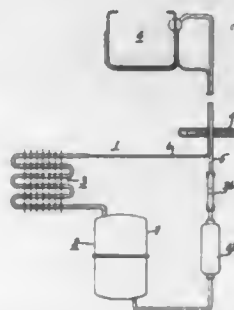


continuous thin sheet; and means to remove the ice in flakes as it forms on the freezing surface.

2,712,735

### UNLOADER IN REFRIGERATION SYSTEM

Raymond L. Dills, Erie, Pa., assignor to General Electric Company, a corporation of New York  
Application January 10, 1952, Serial No. 265,784  
5 Claims. (Cl. 62-115)

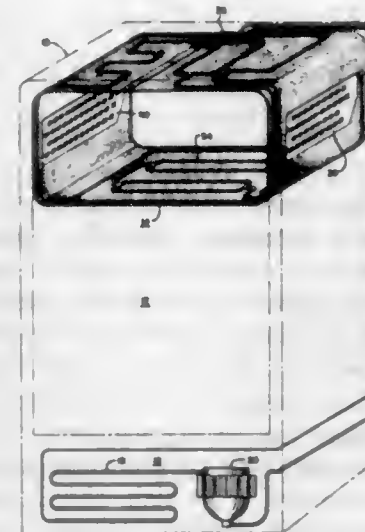


1. In a refrigerating system including an evaporator, the combination of a refrigerating unit including a compressor having high and low pressure sides and a motor for driving said compressor, and means for unloading and loading said compressor comprising a suction line connecting said low pressure side of said compressor with said evaporator, a check valve in said suction line, said check valve being open during normal operation of said compressor for permitting loading of said compressor from said evaporator, means effecting equalization of pressures between said high pressure side of said compressor and said low pressure side thereof when said compressor becomes idle, said equalization of pressures increasing the pressure on the compressor side of said check valve and thereby closing said check valve, said equalization of pressures filling said suction line between said check valve and said low pressure side of said compressor with a refrigerant charge substantially equal in pressure to the refrigerant pressure at said high pressure side of said compressor whereby said compressor is unloaded, and the volume of said suction line between said check valve and said low pressure side of said compressor being sufficient to permit said motor to develop maximum torque when starting before the pressure of said charge between said check valve and said compressor is reduced by said compressor sufficiently to effect opening of said check valve and normal loading of said compressor.

2,712,736

### REFRIGERATION EVAPORATOR

Clifford H. Wurtz and Leland H. Grenell, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application July 8, 1953, Serial No. 366,699  
2 Claims. (Cl. 62-126)

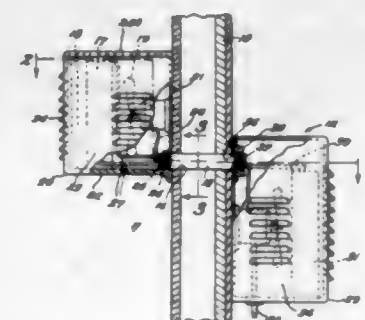


1. In a refrigerating system, a roll-formed evaporator having a refrigerant passage formed therein, one portion of said refrigerant passage having an enlargement therein adjacent the outlet thereof arranged in a vertical plane and serving as an accumulator chamber, said enlargement having relatively flat substantially parallel side walls spaced a distance substantially corresponding to the distance between the walls of said passage, said side walls being forge-welded together at a plurality of spaced points so as to prevent bulging of said walls when subjected to high internal pressures.

2,712,737

### BUILDING WALL ADAPTOR FOR AIR CONDITIONING APPARATUS

John E. Palmer, Cincinnati, Ohio  
Application June 1, 1954, Serial No. 433,487  
4 Claims. (Cl. 62-129)

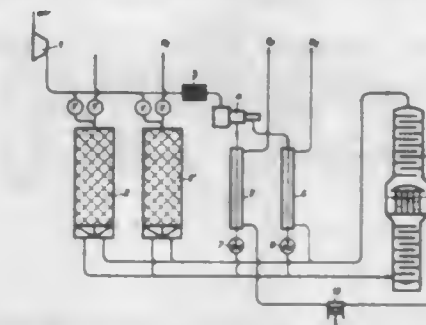


1. In combination with an outside building wall having a relatively small, pre-formed hole therethrough, a straight adaptor tube set in and having its end portions projecting beyond the major faces of the outside wall, a first casing located on the exterior side of said wall and mounted on an end portion of the tube, a second casing located on the interior side of said wall and mounted on the opposed end portion of the tube, said casings being adapted to house complementary parts of an air conditioning apparatus and the adaptor tube forming the only means of support for said casings on the wall, an opening formed through at least one of the casings for receiving the projecting end portion of the adaptor tube, and fastening means cooperable with the said end portion of the tube for securing the casing to the tube.

2,712,738

### METHOD FOR FRACTIONATING AIR BY LIQUEFACTION AND RECTIFICATION

Johannes Wucherer, Pullach, near Munich, and Rudolf Becker, Munich-Solln, Germany, assignors to Linde's Eismaschinen Aktiengesellschaft, Hoellriegelskreuth, near Munich, Germany, a corporation of Germany  
Application January 2, 1953, Serial No. 329,378  
Claims priority, application Germany January 10, 1952  
2 Claims. (Cl. 62-175.5)

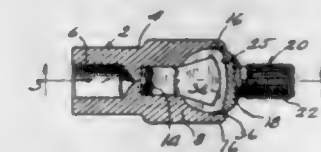


1. A process for fractionating air by liquefaction and rectification in which the separated oxygen is compressed while in liquid state and subsequently evaporated and heated to ambient temperature by heat exchange with the air to be fractionated, said process comprising the steps of dividing the air to be fractionated into three streams, compressing the air of each stream to a different pressure, cooling the streams of air having the highest and the lowest pressure by heat exchange with the separated nitrogen, and cooling the stream of air having a pressure between that of the streams of highest and lowest pressure by heat exchange with the separated oxygen.

2,712,739

### UNIVERSAL JOINT

Charles W. Dempster, Chicago, Ill.  
Application May 19, 1953, Serial No. 356,061  
1 Claim. (Cl. 64-7)



A universal joint comprising a member with a shank, a larger-diameter head fixed on said shank comprising spaced legs defining a slot through the head, a part-spherical socket in said head defined by part-spherical surfaces on said legs, another member having a part-spherical ball end complementary to said socket and seated therein, a slot through said ball end facing said shank and approximately perpendicular to the first-mentioned slot, a torque transmitting block having integrally interconnected tongues slidably received in respective slots, the remote edges of said tongues being arcuate and the bottom of each slot being defined by an arcuate surface complementary to that of the related tongue edge and the ends of said lengths remote from said shank being bent toward each other to form lips to positively retain said ball in said socket.

2,712,740

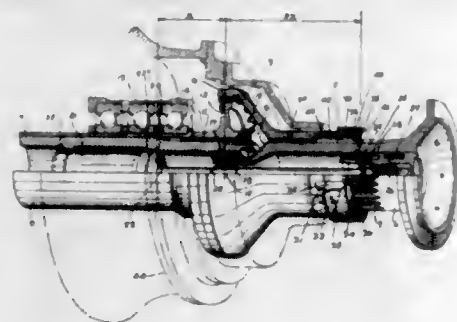
### FLEXIBLE COUPLING

Winnett Boyd, Bobcaygeon, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation  
Application August 4, 1949, Serial No. 108,509  
13 Claims. (Cl. 64-9)

1. A flexible coupling for coaxial shaft ends comprising, torque transmitting means and axial load transmitting means, the said torque transmitting means including radius members mounted on one end of each shaft and means on the radius members interengaging them in torque



transmitting relationship, the said axial load transmitting means including a flexible rod mounted axially within the two shafts, the said rod having a root end and another end and being encastered at its root end in one of said shafts, means at the said other end of the rod constraining it against radial movement and against axial

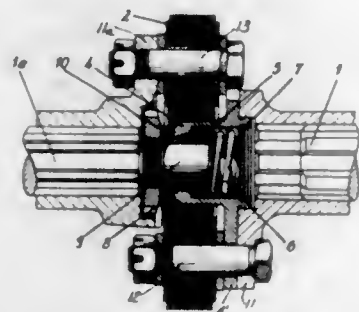


movement in the other shaft, the rod being located axially relative to the shafts, when they are truly aligned, in such a position that a hypothetical plane passing through the points of interengagement of the radius members will intersect the rod at a point substantially one-third of the distance from its root to its other end.

2,712,741

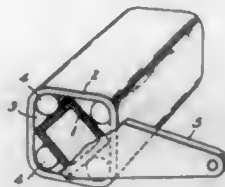
**DEVICE FOR ARTICULATED JOINING OF SHAFTS**  
Franz T. Roller, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Application November 27, 1951, Serial No. 258,316  
Claims priority, application Germany November 28, 1950  
1 Claim. (Cl. 64-13)



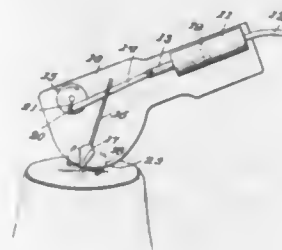
Apparatus for connecting together two shafts, comprising a flange part on the end of one of said shafts, a flange part on the end of the other of said shafts, elastic means for connecting said two flange parts with one another to transmit a torque upon angular displacement of the shafts with respect to each other, a center pin on the end of said one shaft within said elastic means, a ball slidable on said center pin, a sleeve-shaped part on the flange part of said other shaft, said sleeve-shaped part lying within said elastic means and surrounding said center pin with one end thereof, an inwardly-directed flange portion on the last-mentioned end of said sleeve-shaped part, an end sealing member in the other end of said sleeve-shaped part in sealing engagement therewith, said inwardly-directed flange portion being formed as a fixed spherically-shaped bearing portion, a movable spherically-shaped bearing portion between said inwardly-directed flange portion and said end member, said ball being located between said spherically-shaped bearing portions within said sleeve-shaped part, a spring within said sleeve-shaped part abutting at one end thereof against said end member and at the other end thereof against said movable bearing portion, whereby said spring urges said movable bearing portion against said ball, and a sealing member located between said inwardly-directed flange portion and said center pin.

2,712,742  
**ELASTIC JOINTS**  
Hermann J. Neldhart, Geneva, Switzerland  
Application June 19, 1951, Serial No. 232,306  
8 Claims. (Cl. 64-14)



1. In an elastic joint comprising an outer tubular member, an inner member coaxially mounted within the outer member for rotation relative thereto about their common axis, and a plurality of cylinders of elastic cushioning material disposed between the interior of the outer member and the exterior of the inner member, said cylinders being generally circular in transverse section when unstressed and being disposed with their axes parallel to the common axis of the inner and outer members, the improvement in which the interior of said outer member and the exterior of said inner member substantially correspond in transverse section to straight-sided squares, the straight sides of the inner member normally being disposed opposite the apices of the outer member and intersecting at corners spaced from the straight sides of the outer member with clearance, the straight inner sides of the outer member merging at their corner junctions along inwardly concave curves, and one of said cylinders being normally disposed against each of said curved junctions and confined between two adjacent straight inner sides of the outer member and one straight side of the inner member, whereby rotation of one of said members with respect to the other about said common axis through an angle up to 45° will impart rolling movement to said cylinders along confining sides of both of said members while increasingly compressing said cylinders radially therebetween throughout rotation of said members through said angle.

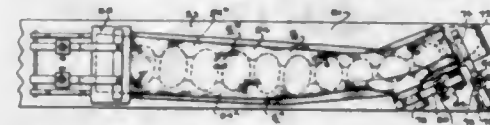
2,712,743  
**APPARATUS FOR RECTIFYING PULLED THREADS IN KNITTED WARE**  
Rolf Susemihl, Frankfurt am Main, Germany  
Application March 16, 1954, Serial No. 416,675  
Claims priority, application Germany October 28, 1953  
6 Claims. (Cl. 66-1)



1. An apparatus for rectifying pulled threads in knitted ware, comprising in combination a plate, a cylinder mounted on said plate, a piston in said cylinder rapidly reciprocated by compressed air, a piston rod secured to said piston, a connecting rod linked at one end to said piston rod, a flywheel mounted on the plate and linked to the other end of said connecting rod, and a beater needle carried at an angle by said connecting rod rotatable in the plane of movement of said connecting rod and adapted to project beyond said plate.

2,712,744  
**HOSIERY AND OTHER KNIT GOODS AND APPARATUS FOR AND METHOD OF PRODUCING THE SAME**

Louis P. Miller, Plainfield, N. J., and Theodore Foulk, Flourtown, Pa., assignors to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware  
Application May 27, 1953, Serial No. 357,692  
32 Claims. (Cl. 66-178)



29. A form-fitting article of wearing apparel knitted of heat-settable thermoplastic yarn to provide a main body fabric having interknitted loops arranged in successive courses thereof, adjoining loops in successive courses forming a major portion of the body fabric being all stretched and permanently set in the fabric to decrease the coursewise dimension of the stocking below that normally provided by the knitting machine, the stretched loops being limited to those which extend coursewise about the opposite sides of the article between wale lines spaced from the front and rear fold lines of the article.

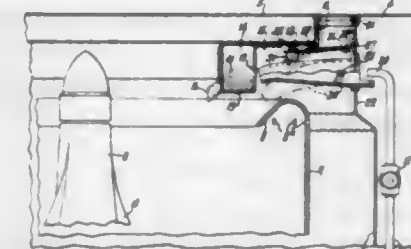
2,712,745  
**METHOD OF CROCHETING IN DIFFERENT COLORS AND ARTICLE PRODUCED THEREBY**

Mary Elizabeth Pawson, New Westminster, British Columbia, Canada  
Application June 10, 1950, Serial No. 167,276  
7 Claims. (Cl. 66-201)



1. The method of crocheting in different colors which comprises forming squares with a thread until another color is required, leaving the thread hanging, reaching forward and picking up a thread of a different color, hanging from the previous row and connecting it to the square last completed, and forming stitches with the last thread around the portion thereof extending from the point where said thread hangs from the previous row.

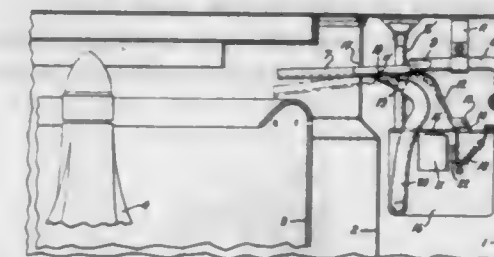
2,712,746  
**WASHING MACHINE DETERGENT DISPENSER**  
John Bochan, Louisville, Ky., assignor to General Electric Company, a corporation of New York  
Application October 22, 1952, Serial No. 316,175  
3 Claims. (Cl. 68-17)



1. In a washing machine of the type including a control to automatically regulate operational cycles, a washing compound dispenser comprising, a water inlet having a fixed discharge nozzle thereon, a flexible water duct mounted on the machine with one end thereof fixed in water receiving communication with said discharge nozzle with its opposite end movable between two positions, a washing compound cup having a sidewall discharge opening into the washing machine, an opposite side wall liquid inlet opening and a top detergent loading opening, said movable duct end in its first position discharging directly into the washing machine and in its second position discharging into the liquid inlet opening of said cup thereby carrying

the compound into the machine, and means rendered effective by the control to automatically move said duct end selectively to one of said two positions.

2,712,747  
**LIQUID DISPENSER FOR CLOTHES WASHERS AND THE LIKE**  
Keith A. Edwards, Scotia, N. Y., assignor to General Electric Company, New York, N. Y., a corporation of New York  
Application October 22, 1952, Serial No. 316,273  
5 Claims. (Cl. 68-17)



1. In a clothes washing machine, an aspirator for adding a liquid washing agent to cleansing liquid entering the machine comprising a conduit through which the cleansing liquid is supplied to the machine, said conduit having an aspirator opening, a cleansing liquid supply pipe having a discharge end positioned in said conduit in advance of said aspirator opening as regards flow of cleansing liquid through said conduit, a container for a liquid washing agent with the liquid level therein below said aspirator opening, an aspirator tube connecting the container to said aspirator opening, and means for moving said conduit and the discharge end of said supply pipe relatively to each other to change the position of said pipe end with respect to said aspirator opening to render flow of cleansing liquid from such pipe end through the conduit effective or ineffective to pump washing agent from the container into the flowing stream of cleansing liquid.

2,712,748  
**LIQUID DISPENSER FOR CLOTHES WASHERS AND THE LIKE**  
Keith A. Edwards, Schenectady, N. Y., and William R. Buechler, Louisville, Ky., assignors to General Electric Company, a corporation of New York  
Application October 22, 1952, Serial No. 316,274  
11 Claims. (Cl. 68-17)



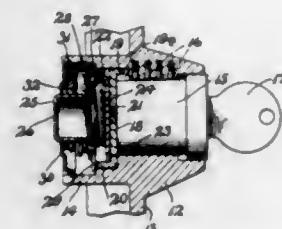
7. In a clothes washing machine, an aspirator comprising a nozzle through which cleansing liquid is supplied to the machine, said nozzle having an aspirator opening past which the cleansing liquid flows, a container for a washing agent, an aspirator suction tube which connects said container to said aspirator opening, and movable means for rendering flow of cleansing liquid through said tube selectively effective and ineffective for producing suction to draw washing agent through said aspirator pipe.

2,712,749  
**CLUTCH AND LOST MOTION ASSEMBLY FOR DOOR LATCHES**  
Herbert Quigley and Herman Ter Meer, Grand Rapids, Mich., assignors to National Brass Company, Grand Rapids, Mich., a corporation of Michigan  
Application May 10, 1951, Serial No. 225,486  
4 Claims. (Cl. 70-379)

2. In a lock structure, the combination comprising: a housing having an axial opening therethrough; a key

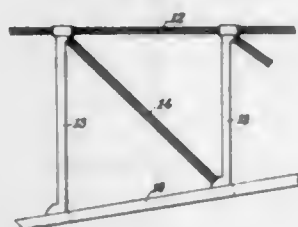


operated lock barrel mounted in the outer portion of said housing for rotatable, axially slidable movement; a spindle rotatably mounted with respect to and extending into said housing concentrically of said barrel; a main driver concentrically secured to the inner end of said barrel; means on said main driver for preventing rotation of said barrel when said barrel is in its outward axial position; an inwardly directed tongue on said main driver; a rotatable, auxiliary driver concentric with said main driver and having a recess longer than the width of said tongue for receiving said tongue and an inwardly directed lip adjacent the periphery thereof, said lip being radially inwardly of said tongue and diametrically positioned therefrom; a gear on said spindle affixed to said spindle for rotation therewith; a peripheral recess in said



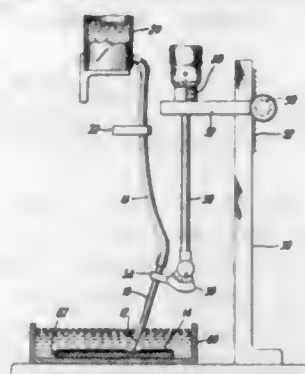
gear for receiving said tongue; a slot in said gear substantially longer than the width of said lip for receiving said lip, said slot being radially inwardly of said recess in said gear and on the opposite side of the center of said gear from said recess in said gear; a first resilient means urging said gear toward said barrel; a second resilient means urging said auxiliary driver toward said barrel; said tongue and said auxiliary driver recess and said lip and said slot constituting lost motion connections for transmitting rotary motion from said main driver to said gear when said tongue and said peripheral recess on said gear are misaligned; a stop in said housing for holding said gear out of engagement with said main driver and said auxiliary driver when said barrel is in its outward position.

**2,712,750**  
**METHOD OF CONSTRUCTING REINFORCED CONCRETE BRIDGE**  
Ulrich Flinsterwalder, Munich, Germany  
Application April 11, 1949, Serial No. 86,668  
Claims priority, application France April 22, 1948  
2 Claims. (Cl. 72-8)



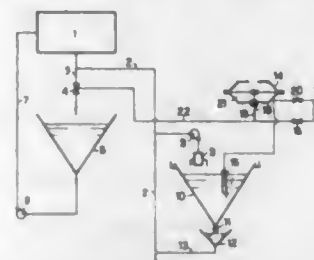
1. A method of constructing a reinforced concrete cantilever bridge comprising constructing a center pier, anchoring reinforcing rods for the first vertical center strut and first panel lower chords in said pier, these being compression members with the lower chord being started simultaneously from opposite sides of said pier, supporting the outer ends of said lower chord members by reinforcing rods for forming a diagonal strut joined to the upper chord, said diagonal strut and upper chord being tension members, encasing the compression members with concrete and thereby adding load to pretension said tension members, progressively repeating in the same manner the erection of compression and tension members panel by panel in opposite directions from the pier until mid-span is reached, and then encasing said tension members with concrete.

**2,712,751**  
**METHOD OF TESTING THE WET STRENGTH OF A LIQUID-SETTLED SCREEN**  
Donato J. Bracco and William R. Watson, Bayside, N. Y., assignors to Sylvania Electric Products Inc., a corporation of Massachusetts  
Application January 2, 1951, Serial No. 204,012  
3 Claims. (Cl. 73-7)



1. The method of testing the wet strength of a liquid-settled screen during the settling operation including the steps of immersing a plaque in a liquid settling solution containing luminescent particles such that luminescent particles settle out of said solution onto said plaque as a coating, directing a flow of fluid at controlled velocities at different portions of said coating while immersed in said solution and at controlled intervals to erode areas of said coating, and measuring the eroded areas so produced.

**2,712,752**  
**APPARATUS RESPONSIVE TO VARIATIONS IN THE VISCOSITY OF A LIQUID**  
Pieter W. Hage, Koog Aan de Zaan, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands  
Application October 26, 1954, Serial No. 464,870  
Claims priority, application Netherlands October 29, 1953  
8 Claims. (Cl. 73-55)

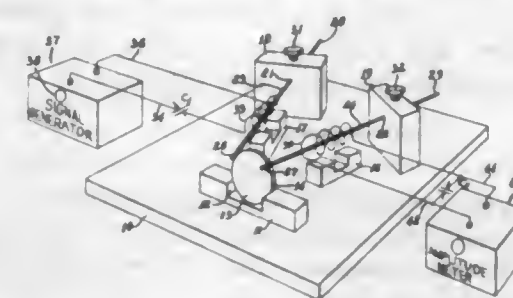


1. In apparatus responsive to variations in the viscosity of a liquid an open-topped flow vessel for the liquid having a discharge aperture, a liquid feed conduit opening within said flow vessel, a flow resistor in said liquid feed conduit, the resistance of said flow resistor decreasing, when liquid is forced under constant pressure through the feed conduit, with increasing viscosity of the liquid, and means responsive to changes in the quantity of liquid contained in said flow vessel.

**2,712,753**  
**FREQUENCY MEASURING APPARATUS**  
Robert L. Campbell, Glendale, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa  
Application July 10, 1950, Serial No. 172,984  
4 Claims. (Cl. 73-67)

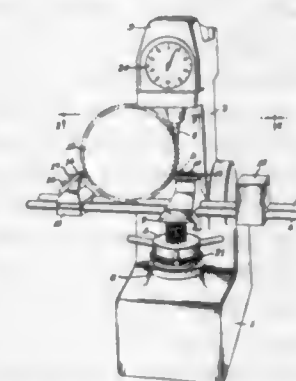
1. Means for quickly and accurately measuring the resonant frequency of a vibrating disc for determining its relation to a desired resonant frequency comprising, a holding bracket for detachably receiving said disc therein, first holding means, a magnetostrictive rod retained by said first holding means and having one end thereof adapted to frictionally engage the periphery of said disc, inductive coupling means adjacent said first magnetostrictive rod, a first polarizing magnet adjacent said coupling means, a radio frequency generator connected

to said first inductive means, a second holding means, a second magnetostrictive rod retained by said second holding means and having one end thereof adapted to frictionally engage the periphery of said disc, second



inductive pick-off means adjacent said second magnetostrictive rod, a second polarizing magnet adjacent said second inductive means, and amplitude indicating means connected to said second inductive means.

**2,712,754**  
**PITCH LINE GEAR POSITIONER FIXTURE**  
Karl V. Holm, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan  
Application August 19, 1952, Serial No. 305,212  
3 Claims. (Cl. 73-81)

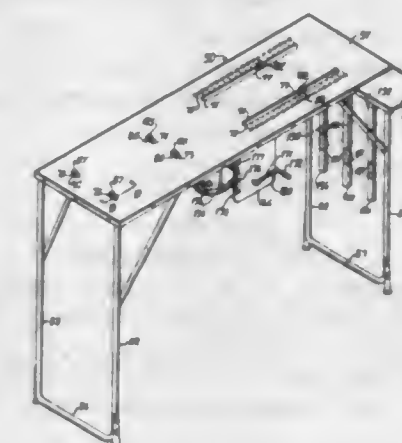


1. In the combination of a hardness tester for testing the hardness of work pieces having geometrically complex shapes, said hardness tester including a base, pillar, head, a penetrator chuck in said head movable toward said base, and a vertically adjustable principal work support on said base directly in line under said chuck, the improvement which comprises a horizontal support bed affixed to the top of said principal work support, a fixed support positioned on said bed directly under said chuck, said fixed support having a horizontally adjustable tooth engaging anvil the upper surface of which is normal to the line between the penetrator chuck and the principal work support, a horizontally adjustable supporting foot positioned towards one end of said bed in relation to said fixed support, said supporting foot having a vertically adjustable tooth engaging lug, a slidably mounted counterweight positioned towards the other end of said bed in relation to said fixed support, and a penetrator tool in said chuck having an indentation in one side thereof whereby said tool may be used in testing the hardness of the interior surfaces of work pieces having geometrically complex shapes.

**2,712,755**  
**FULL FASHIONED HOSIERY MEASURING DEVICE**  
Peter A. Meytre, Valdesse, N. C.  
Application April 10, 1953, Serial No. 348,063  
7 Claims. (Cl. 73-95)

1. A device for measuring the lengths of opposed selvages of a stocking blank and the like comprising a table having a first pair of transversely spaced sets of upstanding prongs, a second pair of transversely spaced sets of prongs spaced a substantial distance from the

first pair of sets of prongs, said second pair of sets of prongs being mounted for longitudinal movement upon said table relative to the first sets of prongs and all of said prongs projecting upwardly, means urging each of the sets of prongs of the second pair in a direction away from the first pair of sets of prongs, manually operable means for moving the second pair of sets of prongs towards the first pair of sets of prongs, means for locking the second pair of sets of prongs in a determined position, said table being provided with a plurality of spaced numbered graduations thereon disposed adjacent the corresponding sets of prongs in the second pair of prongs and indicating the distance from the second pair of prongs to the first pair of sets of prongs, whereby the stocking blank may be impaled at opposed ends thereof upon the respective pairs of sets of prongs with the sets of prongs being disposed adjacent opposed selvages of the stocking blank and, upon the second pair of sets of prongs being released from the means for locking the second pair of sets of prongs in said determined position, the second pair of sets of prongs will be urged in a direction away from the first pair of sets of prongs to pull the stocking blank taut for measuring the same, said table having a pair of longitudinally extending and transversely spaced slots therein through which the corresponding second pair of sets of prongs project, a track member disposed beneath the table top adjacent each of said spaced slots, a carriage slidably mounted in each of said track members and carrying

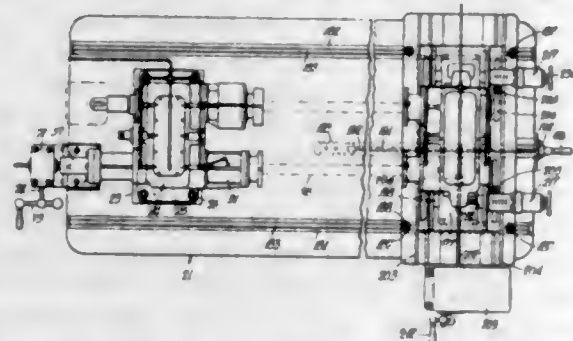


a set of the second pair of sets of prongs, said second pair of sets of prongs having longitudinal movement in said slots, said manually operable means for moving the second pair of sets of prongs toward the first pair of sets of prongs a determined distance comprising a transverse bar extending between the track members for the carriages and adapted to engage said carriages, means normally urging said transverse bar in a direction away from the first pair of sets of prongs, a cable connected intermediate the ends of the transverse bar and extending toward the first pair of sets of prongs, a reel disposed at a point between the first and second pairs of sets of prongs and to which the corresponding end of the last-named cable is connected, a crank for imparting rotation to the reel and means for locking said crank in a determined position whereby, upon rotation being imparted to the reel in one direction, said cable will cause the corresponding transverse bar to move and to engage said carriages to simultaneously move the second pair of sets of prongs in a like direction and, upon the reel being rotated a determined distance, the crank may be locked to cause the transverse bar to hold the second pair of sets of prongs in a determined position relative to the first pair of sets of prongs and, upon the crank being released from said locking means, the transverse bar will be free to move in a direction away from the first pair of sets of prongs and the second pair of sets of prongs will move independently in a direction away from the first pair of sets of prongs.



2,712,756

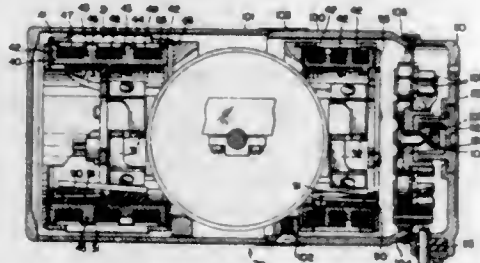
**STATIC AND DYNAMIC TESTING MACHINE**  
Edward M. Greer, West Hempstead, and Henry A. Polanski, New York, N. Y., assignors to Greer Hydraulics, Inc., Brooklyn, N. Y., a corporation of New York  
Application May 29, 1951, Serial No. 228,886  
16 Claims. (Cl. 73-99)



1. Apparatus of the character described for testing rotatable equipment, said apparatus comprising a pair of spaced normally longitudinally aligned gear units adapted to carry therebetween the equipment under test, one of said units having an axially movable shaft, a gear mounted on said shaft, coaxing means on said gear and said shaft tending to effect rotary movement of said gear and said shaft in opposed directions upon axial movement of said shaft, a transmission from said gear to the equipment under test to rotate said equipment upon rotation of said gear by said shaft, means operatively to connect the equipment under test to said shaft to restrain the latter from rotation with respect to the portion of such equipment under test connected thereto yet to permit axial movement thereof, whereby upon axial movement of said shaft torsion will be applied to the equipment under test.

2,712,757  
**RATE GYROSCOPE**

Johannes G. Schaberg, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application December 23, 1953, Serial No. 399,951  
12 Claims. (Cl. 74-5.6)



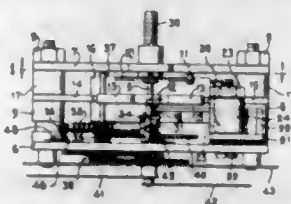
1. A rate gyroscope comprising, a spider-like frame member semicylindrical in form, a similar shaped gimbal member, said members being positioned in near abutting relationship such that they define a hollow cylindrical form, a rotor and spinning means therefor positioned in said hollow cylindrical form of said members with said rotor being pivoted for rotation on said gimbal member about an axis normal to the longitudinal extent of said frame and gimbal members, a pair of leaf springs connected between said frame member and said gimbal member at each of the extremities thereof, said leaf springs pivoting said gimbal about an axis parallel to the longitudinal extent of said members and relative to said frame member, a signal generator comprising annular rotor and stator elements, means attaching said stator element to said frame member at one extremity thereof to encircle said extremity of said gimbal member and said frame member, means attaching said rotor element to said gimbal member to encircle said stator element and said gimbal and frame members such that the rotor element moves with said gimbal member relative to said stator element and said frame member, an electromagnetic damper hav-

ing an annular rotor and stator element shaped similarly to said signal generator and positioned at the other extremity of said gimbal and said frame members, the stator of said damper being attached to said frame member and the rotor element of said damper being attached to said gimbal member with both parts encircling said gimbal and frame members, and a cylindrical housing enclosing said gyroscope and mounting said frame member.

2,712,758

**ESCAPEMENT MECHANISM**

Rudolph G. Schaaf, Jr., Monmouth Beach, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y., a corporation of New York  
Application November 2, 1948, Serial No. 57,980  
6 Claims. (Cl. 74-159)

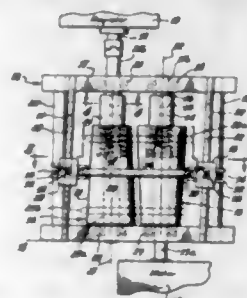


4. An escapement mechanism comprising a shaft having cone-shaped ends, an escapement wheel mounted on said shaft for rotation therewith, said wheel being constructed of a metal having a specific gravity comparable to or less than that of aluminum, means for rotatably supporting said shaft comprising two thin sheet metal supports having axially aligned cylindrical bores therethrough with conical entrances at adjacent ends thereof for receiving said cone-shaped ends, the latter and said entrances having the same angularity relative to the axis of the shaft and the dimensions of the parts being such that the conical entrance to each bore makes annular surface contact with a cone-shaped end of the shaft, leaving the tip end of the shaft out of contact with the walls of the cylindrical portion of the bore, one of said supports constituting resilient means for continuously urging said shaft end-wise against the other support to thereby effect a braking action on the shaft, and means engageable with teeth on the periphery of said wheel for imparting intermittent unidirectional rotation to said wheel and shaft.

2,712,759

**ADJUSTABLE RATIO BELT DRIVE**

Francis Walter Gulbert, Los Angeles, Calif.  
Application July 5, 1952, Serial No. 297,231  
13 Claims. (Cl. 74-217)



1. In a compensating device for indicating or recording meters: a pair of members having surfaces of substantially conical form; means mounting said members for rotation in side-by-side relation; the surface of one of said members continuously converging in one direction, and the surface of the other of said members continuously converging in substantially the opposite direction; a flexible belt in engagement with the opposite outside elements of both of said surfaces of said members; a pair of belt shifters cooperable with the belt and determining that portion of the outside elements of said surfaces with which the belt cooperates; said shifters being independently adjustable along the respective outside elements; and releasable means securing the shifters in adjusted position.

2,712,760

**CHAIN LINKS**

Paul Patz and Edward A. Graetz, Pound, Wis.  
Application May 10, 1952, Serial No. 287,102  
2 Claims. (Cl. 74-249)

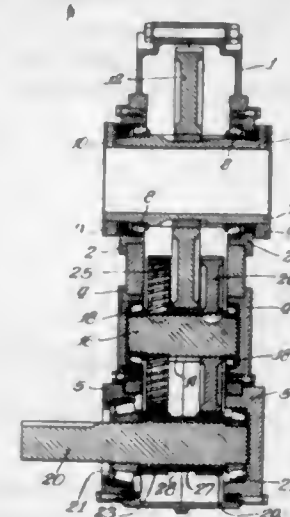


1. A continuous sprocket chain conveyor articulatable in two planes transversely of each other and composed of a succession of interchangeable, similar, relatively detachable links each comprising, an integral flat elongated rigid forged body of approximately uniform thickness having therein an elongated longitudinally extending opening forming opposite side bars, said body being provided at one end of said opening with an arcuate transverse member formed integral with said side bars and having curved inner and outer end bounding surfaces, and at the opposite end of said opening with a hook formed integral with said side bars and extending longitudinally from said body and being of slightly less width than that of the opening and disposed in the central longitudinal plane located at a right angle to the body and passing through the opening, the interior of said hook being bounded by a surface curved transversely to conform with the transverse curvature of said transverse member whereby the succession of links are relatively universally articulatable, and the free end of said hook being spaced from said body by a gap having a width slightly greater than the thickness of the transverse member measured in said central plane while the length of said opening measured in the same plane is sufficient to effect separation of adjoining links by relatively sliding said arcuate transverse member of one link through the hook gap of the adjacent link longitudinally of the chain and by subsequently swinging said link transverse member in said central plane over and away from the free end of the hook of the adjacent link.

2,712,761

**POWER TRANSMISSION UNITS**

Jackson Chung, Mishawaka, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana  
Application May 12, 1954, Serial No. 429,191  
6 Claims. (Cl. 74-410)

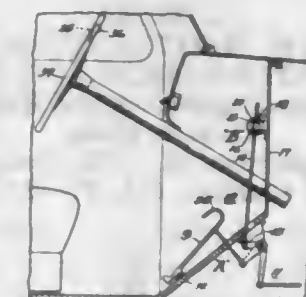


1. A power transmission unit of the class described comprising a gear case, a tubular power output shaft comprising a sleeve journaled in and extending through opposite walls of said case and adapted to be fitted on and detachably drivingly connected to a shaft to be driven, a power input shaft and a pair of intermediate shafts extending between and journaled in said walls of said case, said input shaft being parallel to and below said sleeve and said intermediate shafts being at oppo-

2,712,762

**SPEED MAINTENANCE DEVICE FOR MOTOR VEHICLES**

Frank Pavlik, Jr., Wilmette, and Roy D. Pavlik, Kenilworth, Ill.  
Application January 2, 1952, Serial No. 264,422  
10 Claims. (Cl. 74-541)

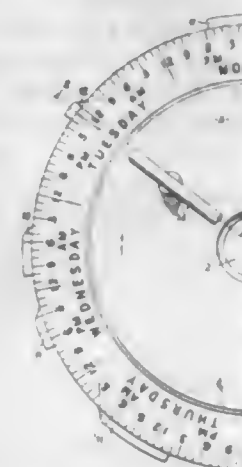


1. In combination with a foot-treadle motor-vehicle accelerator mechanism, a shiftable member connected to the foot-treadle, a brake element positioned adjacent the member and normally-retracted from braking engagement therewith, pressure-responsive means connected to the brake element to effect movement thereof to engage the member and yieldingly lock it in any position between the limits of its shifting for maintaining constant a predetermined speed of the vehicle as determined by the shift of the foot-treadle, manual control means for activating the pressure-responsive means for effecting the braking action of the element, and means on the foot-treadle engageable by the operator's foot for retracting the foot-treadle during the braking action of the element.

2,712,763

**DIAL PLATE FOR TIME SWITCHES**

Frederick Otto Horstmann, Bath, England  
Application September 12, 1952, Serial No. 309,309  
Claims priority, application Great Britain  
October 26, 1951  
6 Claims. (Cl. 74-568)



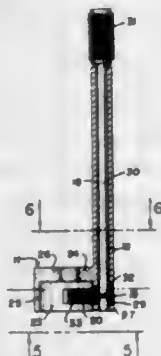
6. A dial plate for a time switch comprising a body disc having on one face time graduations dividing the periphery, cam elements each having an operating portion engaging the edge of the disc and angularly adjustable against said graduations, said cam elements being provided with stems projecting radially inwards over the opposite face of the disc, in combination with means on said opposite face for selectively securing with inde-



pendent angular adjustment respective cam elements in an infinite number of positions relative to said graduations, said means comprising a continuous seating extending around the disc periphery under the respective cam stems, a plurality of independently movable clamping jaws of arcuate shape arranged in close juxtaposition so as to cover the whole of said seating, each of said jaws consisting of a springy plate having between inner and outer peripheral edges angularly spaced holes which engage over correspondingly spaced pins projecting from the body disc in positions radially inwards of the seating, a cam engaging flange on the outer peripheral edge of said jaw plate, spacing means holding said jaw plate spaced from said disc so that a cam stem can be engaged between the flange and the seating, and a clamping nut on each of said pins.

2,712,764

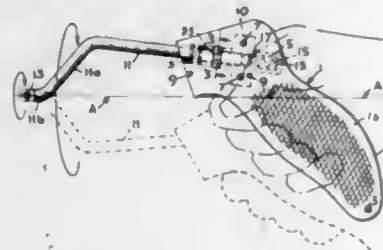
**PIVOTED JAW, SLOTTED HEAD TOOL FOR SPEEDOMETER CABLES AND THE LIKE**  
Vern G. Beaman, Englewood, and Ralph C. Surratt, Denver, Colo.  
Application September 12, 1952, Serial No. 309,316  
8 Claims. (Cl. 81-53)



6. A tool for turning a speedometer cable collar and the like, comprising a handle; a generally cup-shaped head at the forward end of said handle with its axis extending longitudinally and spaced laterally from the axis of said handle, said head having a longitudinal slot extending completely through one side thereof opposite said handle and past the center thereof toward said handle, said slot being of a size to permit lateral passage of said cable to a central position with respect to said head; a jaw pivoted on a longitudinal axis and associated with said head so as to engage said collar when turned; and means at least associated with said handle for turning said jaw.

2,712,765

**WRIST-MOTION ROTARY HAND-TOOL**  
William E. Knight, Jr., Nashville, Tenn.  
Application June 26, 1951, Serial No. 233,587  
3 Claims. (Cl. 81-58.3)

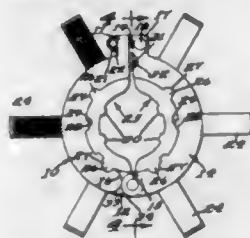


1. A wrist-motion rotary hand-tool, comprising: rotary means for applying rotational force to a work piece, said means having a centrally located axis of rotation; a laterally extending torque-applying means attached to said rotary means for rotating the latter; an elongated hand-grip member having its index-finger end adjacent the outer end of said torque-applying means and extending rearwardly and convergingly toward the axis of said rotary means; means, including a pair of relatively movable mating parts, for connecting said

hand-grip member to said torque-applying means, one of said pair of parts being connected to said hand-grip member and the other being connected to said torque-applying means; one of said pair consisting of a shaft having an axis thru said hand-grip member and about which the latter is adapted to rotate during a normally high-speed low-torque wrist-motion rotation of said hand-grip member about the axis of said rotary means; said relatively movable parts having selectively engageable portions movable into interlocking engagement by a movement of said hand-grip member away from said axis of rotation, whereby a high-torque rotational force may be applied to said rotary means thru said hand-grip member.

2,712,766

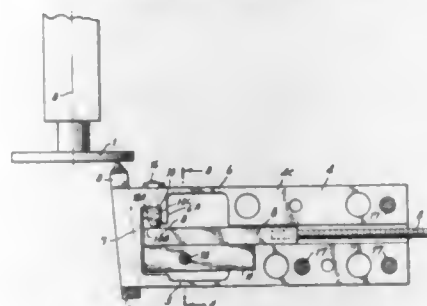
**CLAMP WRENCH**  
Edward W. Buttke, Eugene, Oreg.  
Application September 24, 1954, Serial No. 458,041  
3 Claims. (Cl. 81-180)



3. In a wrench, a first curved jaw having an ear extending therefrom, a lug extending from said jaw and provided with a cutout, a lip extending from said first jaw adjacent said lug, a second jaw of arcuate formation having a recess for receiving said lip, said second jaw having a bifurcated end pivotally connected to said ear, a lug extending from said jaw, a pin pivotally mounted in said last named lug, a securing element extending from said pin and mounted for movement into and out of engagement with said cutout, a pair of mating adapter sections interposed between said jaws, and means detachably connecting said sections to said jaws, said means comprising ribs extending inwardly from said jaws, there being recesses in said adapter sections for snugly receiving said ribs, tongues extending outwardly from said adapter sections, there being grooves in said jaws for snugly receiving said tongues.

2,712,767

**MECHANISMS FOR AUTOMATICALLY RELIEVING CUTTER TOOLS FROM WORK SURFACES**  
Victor B. Silber, Woodmere, N. Y.  
Application July 24, 1952, Serial No. 300,677  
5 Claims. (Cl. 82-24)



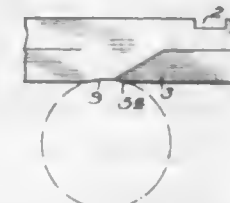
1. A mechanism for advancing a cutting tool against a work piece and holding it there during repeated forward strokes of reciprocatory motion across a work surface and withdrawing the tool from the work piece during the reverse stroke across the work surface comprising a reciprocable tool holder, a follower rod adapted to be reciprocated by the tool holder in lost motion relation thereto, a fixed member and a lost motion connection between the fixed member and follower rod, the tool holder including two rigid side plates and an intermediate flexible center plate therebetween, the side plates

and one end of the center plate being rigidly affixed together so that the other end of the center plate may be bent toward the work piece, a wedge positioned to be wedged by the reverse stroke motion of the holder, between the follower rod and the said other end of the center plate at the end of the holder's reverse stroke and to be withdrawn therefrom by the forward stroke motion of the holder at the end of its forward stroke whereby the said other end of the center plate is elastically bent toward the work during the forward stroke and elastically withdrawn therefrom during the reverse stroke.

2,712,768

**FASTENER STRIP AND METHOD OF MAKING SAME**

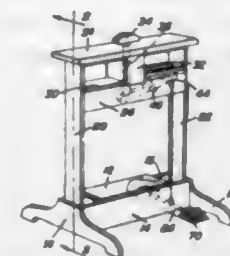
Richard Winkler, Chicago, Ill., assignor, by mesne assignments, to Bocji Corporation, Pittsburgh, Pa., a corporation of Delaware  
Application July 11, 1950, Serial No. 173,185  
4 Claims. (Cl. 85-17)



1. A strip of connected staple fastener blanks comprising a ribbon of metal having a succession of partially severed leg-forming elements extending along one edge only and extending over substantially half of said metal ribbon, each leg-forming element having a sloped point formed by the severing slit and having a portion opposite the point which is connected to the body of the ribbon, the aforesaid edge of said strip having a succession of indentations therein, a portion of each indentation forming a sloped part of the point of the leg-forming element which intersects the first mentioned slope of the point.

2,712,769

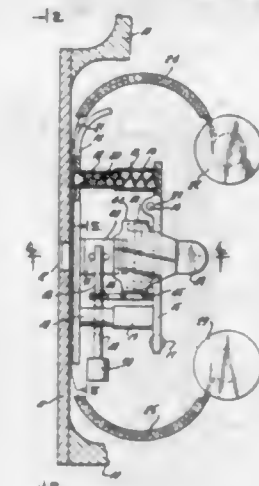
**BRAIDING STAND**  
Arthur W. Prescott, Kittery, Maine  
Application November 21, 1952, Serial No. 321,805  
3 Claims. (Cl. 87-33)



3. A braiding stand comprising a frame, a work table carried by said frame, a clamp member, a plunger secured to said clamp member extending through said table, a collar on said plunger, resilient means biasing said collar and said work table to urge said clamp member against said table, and actuating means engaging said plunger to raise said plunger, vertically extending guides in said casing, said collar engaging said guides, said resilient means comprising a coil spring coaxial with said plunger, said actuating means including a pedal pivotally mounted on said frame, a lever bar pivotally secured to said frame, said lever bar engaging said plunger, and a connecting rod terminally secured to said lever bar and said pedal.

2,712,770

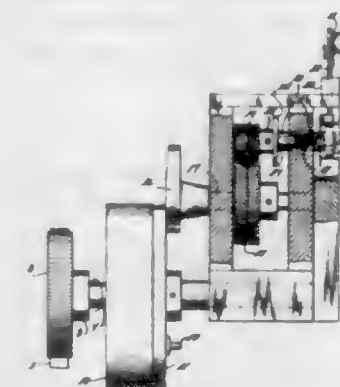
**FILM GUIDING AND EXPOSURE ARRANGEMENT**  
Jacques Bolsey, Eli Ellison, and Robert V. Nicolosi, New York, N. Y.; said Ellison and said Nicolosi assignors to said Bolsey  
Application September 25, 1951, Serial No. 248,254  
11 Claims. (Cl. 88-17)



1. A film guiding and exposure arrangement, comprising in combination, a housing; a stationary film gate member formed with an exposure aperture and being mounted on said housing; a pressure plate assembly located within said housing adjacent said front plate and comprising a pressure plate and spring means operatively connected to and urging said pressure plate toward said film gate member; and compensating means operatively connected to said pressure plate to compensate for the inertia of said pressure plate caused by acceleration or deceleration of said housing during movement thereof so that the pressure plate is urged by said spring means toward said front plate with a constant force irrespective of the movement of said housing.

2,712,771

**FILM INTERMITTENT ADVANCING MECHANISM**  
Warren R. Isom, West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 30, 1952, Serial No. 285,209  
11 Claims. (Cl. 88-18.4)



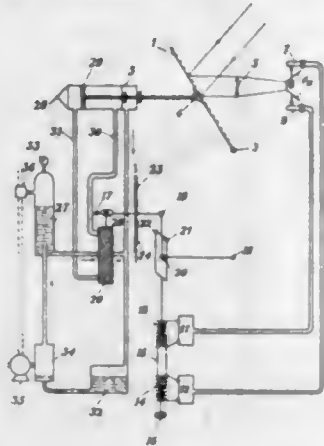
1. An intermittent film pull-down mechanism for advancing a motion picture film at the rate of substantially 1.336 milliseconds per frame comprising a pin wheel-star wheel mechanism, means for driving said pin wheel at a substantially constant speed, a pair of cams, a common shaft for said cams, gear means interconnecting said star wheel and said shaft, and a shuttle and claw mechanism connected to said cams and actuated thereby, said shuttle and claw mechanism being given a rectilinear motion by one of said cams and a rotary motion by the other of said cams perpendicular to said first-mentioned motion.



2,712,772

# **SELF-REGULATING AUTOMATIC HELIOSTAT REFLECTING MIRROR DEVICE** Felix Trombe, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a society of France

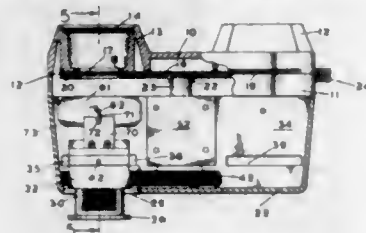
Application July 24, 1953, Serial No. 369,996  
Claims priority, application France July 24, 1952  
4 Claims. (Cl. 88—25)



1. A device for reflecting a beam of rays in a fixed direction which comprises, in combination, a movable mirror for reflecting said beam, a power system for moving said mirror including at least one liquid operated jack, means for operatively connecting said jack with said mirror, a source of liquid under constant pressure, conduit means for placing said jack in communication with said source, valve means inserted in said conduit means and including a movable element for controlling the rate of feed of liquid from said source to said jack in continuous relation to the displacement of said movable element from a given position of rest, at least one ray sensitive cell disposed on one side of the space occupied by the beam reflected from said mirror when said reflected beam is in said fixed direction, and electric means operative by said cell for operating said valve means movable element to feed fluid from said source to said jack in response to a deviation of said reflected beam from said fixed direction to move said movable element in continuous relation to the value of said proportion.

2,712,773

# **ADJUSTABLE OPTICAL BINOCULAR VIEWER** Maurice J. Merrick, Portland, Oreg., assignor to Sawyer's Inc., Portland, Oreg., a corporation of Oregon Application June 17, 1952, Serial No. 293,991 8 Claims. (Cl. 88—29)



7. An optical instrument comprising a pair of lenses, a pair of mounting blocks each mounting one of said lenses, guide means maintaining said mounting blocks with the optical axes of said lenses in parallel alignment, cooperating means on said mounting blocks and said guide means for guiding movement of said mounting blocks in a direction normal to the optical axes of said lenses, means laterally to displace one of said mounting blocks, a reversing linkage mounted on said guide means and interconnecting said mounting blocks whereby lateral displacement of one of said mounting blocks is accompanied by coextensive lateral displacement of the other of said mounting blocks in the opposite direction, a pair of optical plates disposed in the line of sight through said lenses, vertical pivot means pivotally mounting each of

said optical plates, and a scotch-yoke device interconnecting each of said mounting blocks and its adjacent optical plate whereby angular displacement of said optical plates to equal extents in opposite directions to an amount determined by the lateral displacement of said mounting blocks is effected when said mounting blocks are moved.

2,712,774

# **PLASTIC EYEGLASS FRAME AND METHOD OF FORMING SAME**

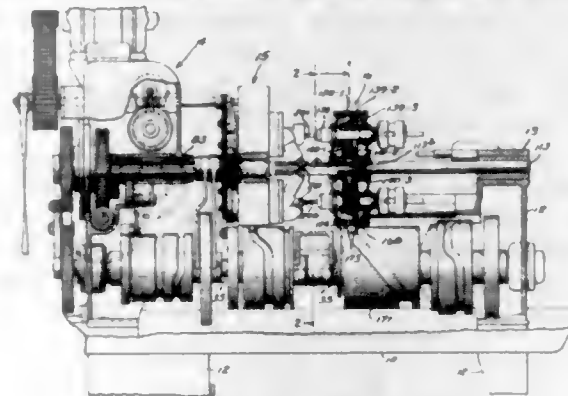
Austin B. Belgard, Evanston, Ill.  
Application July 31, 1952, Serial No. 301,816  
8 Claims. (Cl. 88—41)



1. In a process for inserting lenses within the rims of an eyeglass frame, the steps of providing the bridge portion of said frame with downwardly and inwardly extending slits to form an extension of the upper lens rim which is not substantially greater in cross section than said bar and will stretch equally therewith, and then stretching the rims of said frame and inserting lenses therein.

2,712,775

# **MACHINES FOR MANUFACTURING DRILLS, TAPS, AND OTHER ARTICLES** Abram D. Wilt, Jr., New Canaan, Conn. Application January 8, 1954, Serial No. 403,020 2 Claims. (Cl. 90—11.48)



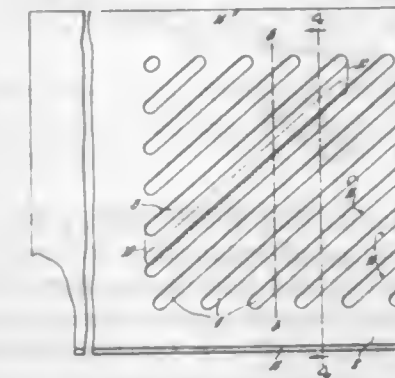
1. In a machine for cutting helical flutes in work pieces, a main frame, a center driving shaft mounted for rotation in said main frame and defining a keyway therein, a mechanism to rotate said shaft at constant speed, a turret head rotatably supported on said main frame concentrically around said shaft, a plurality of work carriers rotatably mounted on said turret head, means to axially move said turret head between two positions, means for indexing said turret head through a predetermined angle at one position of its axial movement, means to rotate said work carriers upon their respective axes during said turret head, said means to rotate comprising a plurality of planet gears affixed to each of said work carriers, a plurality of sun gears engaged with said planet gears freely mounted upon and selectively connectable to said driving shaft, and keying means operatively mounted in said keyway and axially movable therein to selectively connect one of said sun gears to said center driving shaft.

2,712,776

# **COVER FOR SUCTION BOX OF PAPER MACHINES** Arthur P. Wagenknecht, Pittsfield, Mass. Application August 13, 1953, Serial No. 374,009 5 Claims. (Cl. 92—51)

1. A cover for a suction box of a Fourdrinier paper machine comprising, an elongated plate having upper and lower faces and parallel longitudinal forward and rear

edges for supporting a Fourdrinier wire moving transversely across the plate from forward to rear edge thereof, said plate provided with a set of relatively spaced parallel slots having parallel opposite sides and extending through said plate and being disposed angularly relative to the edges thereof and the direction of movement



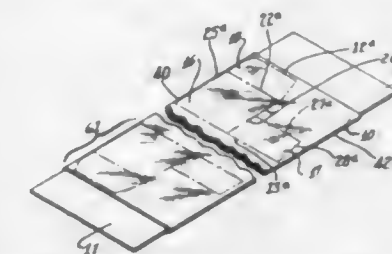
of said wire thereacross and having opposite ends terminating inwardly of said edges, said slots being inclined forwardly from the upper face and forward edge to the lower face and towards the rear edge of the plate, and each said slot having opposite ends thereof in parallelism and at right angles to the longitudinal edges of the plate.

2,712,777

# **METHOD OF MAKING FOLDING PLASTIC CONTAINERS**

Stanley Bright, Jr., Haverford, Pa., assignor to Troth  
Bright Page, Inc., Paoli, Pa., a corporation of Penn-  
sylvania

Application April 22, 1949, Serial No. 88,943  
3 Claims. (Cl. 93—36)



1. A method of making a plastic folding container from an extruded plastic tube of open cross section comprising flattening said tube to form folded side edges, inserting a flat rigid separator into said flattened tube, applying opposing cutting and scoring dies forcibly against the flattened walls of the tube and the separator to cut and score each of said walls, removing the cuttings from said flattened tube, withdrawing said separator therefrom, separating the walls of the flattened tube, and forcing the walls of the tube together by rolling to form fold lines between the original folded side edges.

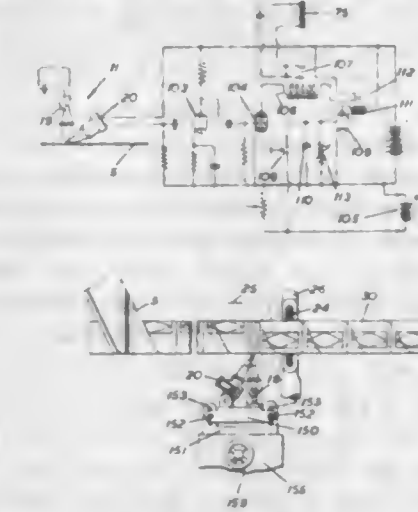
2,712,778

# **IMPROVEMENTS IN AND RELATING TO THE PRODUCTION OF HELICALLY WOUND CON- TAINERS**

Ernest B. Robinson, Ashgate, Chesterfield, England  
Application May 29, 1952, Serial No. 290,697  
17 Claims. (Cl. 93—80)

1. Apparatus for producing cylindrical containers comprising means for helically winding, on a mandrel, strip material incorporating unitary patterns, control features, and surplus trim portions to form tubing moving axially of the mandrel and having the unitary patterns, control features, and surplus trim portions repeated along the tubing, cutting mechanism, including a cutter adapted for traversing along the tubing and movable towards it for severing the tubing into bites, and control means for timing at least some of the cuts to be at surplus trim portions in predetermined relation to the wound patterns

by reference to control features; in combination with pre-set means associated with the control means for render-



2,712,779

# **CAMERA SUPPORT**

John M. Tolcher, Denver, Colo., assignor of one-half to  
Fred C. Daiss and one-half to Ava Daiss, both of Engle-  
wood, Colo.

Application February 9, 1951, Serial No. 210,210  
2 Claims. (Cl. 95—86)

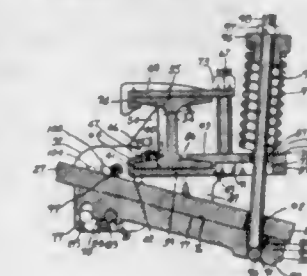


1. A camera support comprising an L-shaped bracket having first and second legs, a longitudinally arcuate body engaging member angularly adjustably attached to said second leg of said bracket for movement about an axis perpendicular to said second leg of said bracket, a hand grip attached to said first leg of said bracket, an arm, means adjustable longitudinally of said first leg for angularly adjustably attaching said arm to said first leg, and means for angularly adjustably attaching a camera to the end of said arm remote from said bracket for movement about an axis transverse to said arm, wherein said last mentioned means is adjustable longitudinally of said arm.

2,712,780

# **VIBRATING PLOW AND MOUNTING THEREFOR** William T. Graham, Amarillo, Tex., assignor to The First National Bank of Amarillo, Amarillo, Tex., a corpo- ration

Application June 8, 1951, Serial No. 230,539  
1 Claim. (Cl. 97—47.84)



In a plow having a frame and a ground working tool provided with the shank adapted to rock relatively to the frame when the plow is in operation in a forward direction, a mounting for attaching and supporting the shank of the ground working tool from the frame including a clamping part fixed to the frame and having a clamping face normally contacting a corresponding face



on an end of the shank when the shank is at rest, a movable clamping part, a pin pivotally mounting the movable clamping part on the fixed clamping part with the end portion of the shank engaged between said parts and movable relatively thereto upon rocking movement of the shank, resilient means connecting said clamping parts to hold said clamping parts and shank in resiliently held together association so that when the shank is rocked the end portion of the shank between the clamping parts will cause the movable clamping part to move away from the fixed clamping part along with said end portion of the shank and back to normal position with the end portion of the shank contactingly held between the clamping parts and with said clamping faces in engagement with each other, a pin carried by the fixed clamping part at the end of the clamping face nearest said pivot pin, and a roller on the last named pin and freely rotatable relatively to the fixed clamping part and having rolling tangential contact with the shank and throughout the rocking movement of the shank and to cooperate with the pin which mounts the movable clamping part in supporting the shank and in limiting separation of the shank and movable part of the clamp during rocking movement.

2,712,781

**MOUNTING FOR EARTH TILLER**

Elmer A. Rolf, Glencoe, Minn., assignor to Glencoe Manufacturing Company, Glencoe, Minn., a corporation of Minnesota

Application March 6, 1952, Serial No. 275,109  
4 Claims. (Cl. 97-47.84)



3. A readily adjustable mounting for attaching an agricultural implement and the like by its supporting shank to a cross member having angulated legs connected at their inner end portions and extending away from each other with their other end portions free, said mounting comprising a channel member having one wall of the channel being straight throughout its length and extending well beyond the other and adapted to be positioned along a single leg of such a cross member with the free end portion of such leg received in the channel of and engaged by said member, connector means carried by said member for connecting the shank of such an implement thereto, a second channel member having one wall of its channel being straight throughout its length and extending well beyond the other and adapted to be positioned along the other leg only of such a cross member with its channel facing toward the channel of said first mentioned member and with the free end portion of such other leg received in the channel of and engaged by said second channel member, and means for releasably drawing said two channel members toward each other when they are so positioned whereby they may positively engage the end portions of such legs of such a cross member within their respective channels to firmly mount such an implement upon such cross member.

2,712,782  
**GARDEN HOE CULTIVATOR**  
Elijah Blankenship, Austin, Tex.  
Application September 7, 1951, Serial No. 245,444  
1 Claim. (Cl. 97-67)

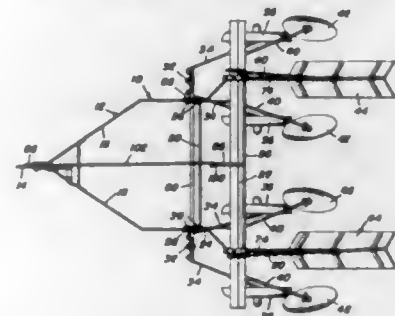


A garden tool comprising a hoe blade, a pair of transversely spaced, elongated extensions formed integrally with the back edge of said hoe blade, rearwardly divergent longitudinal marginal flanges on the extensions, said extensions having transverse slots therein terminating adjacent the flanges, shovels mounted for transverse adjustment on the fronts of the extensions, bolts on said shovels extending through the slots and adjustable therein, nuts threaded on said bolts for securing the shovels in adjusted position, said nuts being laterally engageable with the flanges for retention thereby against retrograde rotation, a yoke including elongated, outturned flanges on its ends fixed on the hoe blade and the adjacent portions of the extensions, a socket on the bight portion of said yoke, and a handle mounted in said socket.

2,712,783

**DIRT GUARD CONTROL DEVICE**

Frank Vavra, Rising City, Nebr.  
Application March 20, 1952, Serial No. 277,564  
5 Claims. (Cl. 97-188)



2. In combination with a disc cultivator having a frame, ground engaging wheels carried by said frame, a transverse beam at the rear of said frame, disc cultivators mounted on said beam, plant guards positioned between said disc cultivators and pivotally connected to said beam, means for lifting said plant guards from their ground engaging position, said means including an actuating lever mounted on the forward end of the frame, a pair of rearwardly extending arms carried by said transverse beam, a transverse rod rockably mounted on said arms, an intermediate crank arm and outer crank arms rigid with said rod, first link means connecting said intermediate crank arm to said actuating lever, second means connecting the outer crank arms to said plant guards, whereby when said actuating lever is moved forwardly the plant guards are raised.

2,712,784

**JOINTER DEVICE FOR PLOW**

Donald J. Bauer, Norwalk, Ohio  
Application July 23, 1954, Serial No. 445,287  
2 Claims. (Cl. 97-211)

2. A jointer device for a moldboard plow comprising a deflector plate having its forward portion substantially flush with the furrow side of the plow and the rearward portion curving outwardly of the furrow side of the plow, the furrow face of said deflector plate being substantially flat at the forward portion and increasing in curvature

toward the rear of the deflector, and a sod cutting blade portion attached to said deflector plate and extending

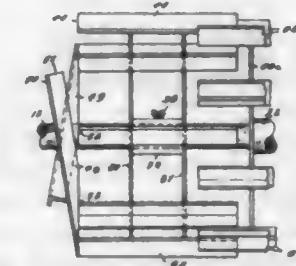


angularly from the rearward portion of the furrow side of said deflector plate, said blade forming an integral part of said deflector plate.

2,712,785

**ROTARY CULTIVATOR**

Joe Severance, Boise, Idaho  
Application December 27, 1949, Serial No. 135,145  
2 Claims. (Cl. 97-215)

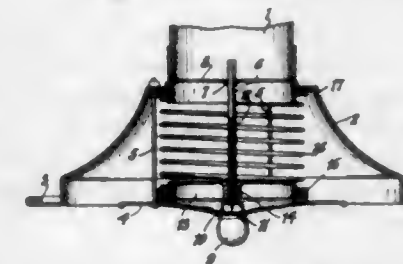


1. A cultivating rotor comprising a hub, spaced disks secured to the ends of said hub, the disks having their peripheral edges cut alternately on straight lines substantially tangent to a large and a smaller circle about the axis of the hub providing alternate short and long straight edge portions, a plurality of parallel rotor blades around the disks, the blades having mounting flange portions at right angles to the disk radius fixed on said short edge portions of the disks, said blades extending lengthwise beyond the ends of the hub a distance at least equal to the distance between disks whereby to extend over the long straight edge portions of the disks of an adjacent rotor and a spreader blade at one end of the rotor curved helically about the rotor axis on a radius equal to the radius of the circle on which the parallel blades are arranged, the spreader blade having a tapered flange at one end abutting the ends of at least two of said mounting flange portions of the parallel blades and fixed thereto, the other end of the spreader blade being spaced from the ends of the parallel blades.

2,712,786

**FLEXIBLE DAMPER CONSTRUCTION FOR DIFFUSERS AND THE LIKE**

Peter A. Argenteri and Thomas L. Day, Danbury, Conn.  
Application January 11, 1952, Serial No. 265,968  
5 Claims. (Cl. 98-40)



1. An air outlet device for connection to the opening of an air supply duct comprising a housing surrounding said opening and having an outlet opening, a disk in said housing, means for supporting the disk spaced from the opening, a plurality of concentrically arranged resilient helical members interposed between the disk and opening, one end of each of said helical members surrounding the opening and resting against a portion of the housing around the opening, means for adjusting the disk toward or away from the opening, whereby ad-

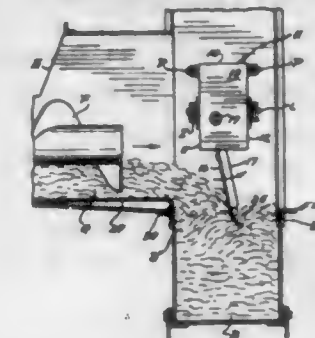
696 O. G.—14

justing movement of the disk toward the opening will adjust the helical members and lessen the spacing between the convolutions thereof to thereby control the amount of air passing through said convolutions.

2,712,787

**PACKER OR FEEDER HEAD FOR BALERS**

Paul P. Wuerz, Melrose, Minn., assignor to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota  
Application August 1, 1951, Serial No. 239,692  
3 Claims. (Cl. 100-142)

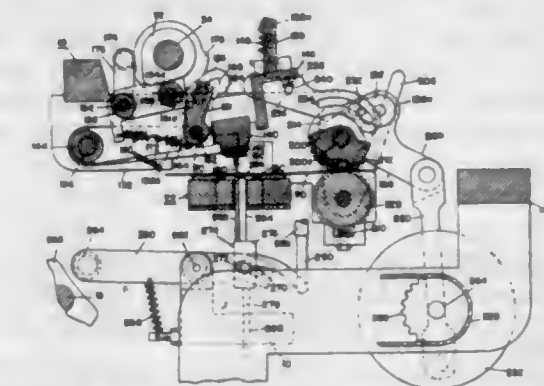


1. In a crop material baler having a baling chamber and a reciprocating baling plunger therein, said chamber having a feed opening in its upper side, a housing extending laterally from the feed opening and a crop conveyor in said housing having a delivery end adjacent one edge of the feed opening and operative to feed crop material toward and over the opening, the improvement which comprises a packer head for moving crop material down through said feed opening into the baling chamber, operating means for moving the packer head up and down with respect to the feed opening, the said packer head having an upper section attached to said operating means and a lower plate-like section hinged at its upper end to the upper section adjacent the side from which the housing projects and for swinging movement in the direction in which crop material comes off the delivery end of the crop conveyor.

2,712,788

**ADDRESSING MACHINE**

Egbert F. Brown, Haddonfield, N. J., assignor to The Curtis Publishing Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application May 2, 1951, Serial No. 224,115  
13 Claims. (Cl. 101-58)

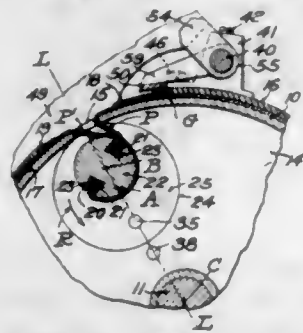


1. In an addressing machine of the type in which address plates are moved in succession to and from a printing station, the combination of a printing arm, means for actuating the arm into and out of printing engagement with each address plate, said actuating means including a disengageable driving connection for said arm, a feeler member movable with said arm toward an address plate, means operable upon movement of said feeler beyond the plane of an address plate to disengage said driving connection to prevent a printing operation of said printing arm, a printing member disposed below the path of movement of the address plates and including a second



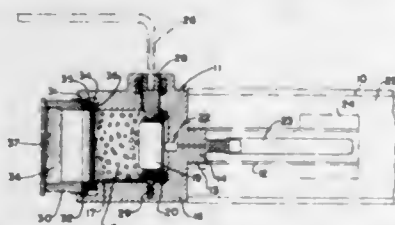
feeler, and actuating means for said printing member for moving it toward each plate when in printing position, engagement of the feeler with said plate bringing said printing member to standstill, certain of said plates having cut-out portions for movement of said second feeler and of said printing member therethrough and into a printing position for the printing of a distinctive symbol in the same region as an address appears.

**2,712,789**  
**MEANS FOR TIGHTENING AND ADJUSTING FLEXIBLE BANDS ON PRINTING CYLINDERS OF ROTARY PRESSES**  
Edward Leeberg, Roselle, N. J.  
Application January 22, 1953, Serial No. 332,642  
6 Claims. (Cl. 101—415.1)



6. Means for fastening a flexible printing band around a printing cylinder and independently tightening either edge of the band to remove slack, comprising a cylinder having a longitudinal slot and end walls provided with opposed circular openings adjacent the ends of said slot, a pair of circular plates independently rotatable in said openings and having eccentrically positioned bearing openings, a winding reel within the cylinder opposite said slot, means associated with said reel for anchoring both ends of a flexible printing band which may be disposed around the cylinder with its ends extending through the slot, whereby when the reel is rotated in one direction the band will be tightened on the cylinder, concentric journal portions on the reel adjacent its ends and mounted for rotation and angling movement in said bearing openings, locking arms extending radially from the outer portion of said plates for contact with the cylinder end walls and formed with arcuate slots concentric with said circular plates, screw threaded fastenings in said arcuate slots to adjustably clamp said arms to the cylinder ends, a polygonal shaped projection at each end of said reel extending outwardly from said journal portions, reel locking arms having polygonal openings detachably and adjustably engaged with said projections, the last mentioned arms having arcuate slots concentric with the reel axis and overlying the first mentioned arms, and screw threaded fastenings in the arcuate slots of said reel locking arms to adjustably clamp the latter to said plate locking arms.

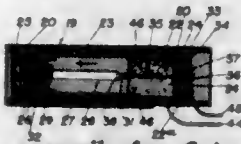
**2,712,790**  
**SYMPATHETIC OR CONCUSSION FIRING DEVICE**  
Jesse Edward MacAdams, deceased, late of Cheverly, Md., by J. Edwin Hutchinson, administrator, Hyattsville, Md.  
Application December 20, 1951, Serial No. 262,643  
6 Claims. (Cl. 102—70)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A firing device comprising a body adapted to be deposited in a location whence some water penetration is

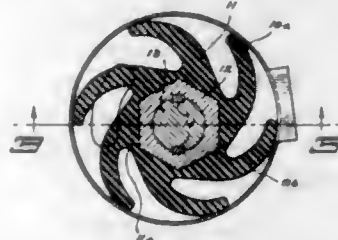
probable, a substance contained in the body and subject to explosion upon contact therewith by the water, a frangible disc segregating said substance in the body, said frangible disc being shatterable by a shock wave impinging thereon and received through said water when said disc is exposed to the water thereby to expose the substance to the water, and a water soluble disc disposed within and sealed to said body for preventing exposure of said frangible disc to said shock wave until the soluble disc has been dissolved by said water.

**2,712,791**  
**SWITCH**  
Robert Max Bleakney and Everly John Workman, Albuquerque, N. Mex., assignors to the United States of America as represented by the Secretary of the Navy  
Application July 9, 1942, Serial No. 450,344  
5 Claims. (Cl. 102—70.2)



2. In a projectile, a squib for firing the same, means for detonating the squib including a source of electrical current, a circuit for conducting the current from said source to said squib, and means in said circuit constituting at least one barrier to the flow of current from the source to the squib, said barrier means including a frangible portion which must be fractured to eliminate the barrier, and means mechanically connected to said barrier means and actuated by centrifugal force when the projectile is in flight, to fracture said frangible portion.

**2,712,792**  
**PUMP STRUCTURE**  
Merton F. Snyder, Minneapolis, Minn., assignor to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn., a corporation of Minnesota  
Application June 28, 1950, Serial No. 170,717  
5 Claims. (Cl. 103—117)

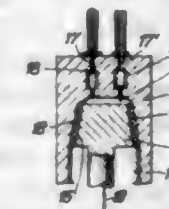


1. A pump structure having in combination, a casing having a substantially cylindrical wall and top and bottom portions, said casing having an inlet opening and having an outlet opening spaced circumferentially from said inlet opening, an impeller of flexible resilient material disposed in said casing having a hub spaced from said wall at all points of said hub and a series of outwardly extending circumferentially spaced blades, said blades being of comparatively small thickness circumferentially and extending tangentially to said hub and being of a length to be bent and engage said wall with their sides in spaced relation, a shaft secured axially to said hub for driving said impeller, the axis of said shaft being offset from the axis of said casing.

**2,712,793**  
**PUMPS**  
Otto Holm, Hamburg-Langenhorn, Germany, assignor to H. Maihak A. G., Hamburg, Germany  
Application November 16, 1953, Serial No. 392,407  
Claims priority, application Germany December 2, 1952  
19 Claims. (Cl. 103—148)

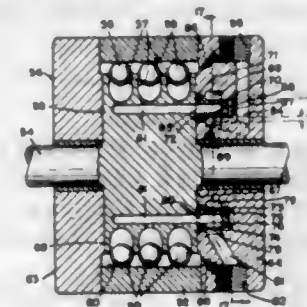
1. In a pump, comprising, in combination: a body forming a chamber having a wall portion shaped as a

frustum of a cone, a piston arranged for reciprocating motion in said chamber, said piston defining with said body a working space arranged at the narrow end of said wall portion of said chamber, and having a wall portion shaped as a frustum of a cone tapering toward said work-



ing space in the same direction as said wall portion of said chamber, and a ring-shaped resilient body arranged between said wall portions of said chamber and said piston, said resilient body undergoing deformations at the reciprocating motion of said piston in said chamber.

**2,712,794**  
**FLUID MOTOR OR PUMP**  
Marion W. Humphreys, Euclid, Ohio  
Application June 15, 1949, Serial No. 99,325  
4 Claims. (Cl. 103—161)



1. In combination, relatively rotatable members having juxtaposed faces in sealed, sliding engagement, one of said members carrying a plurality of cylinder and piston assemblies and formed with passages leading from the respective cylinders to such faces, and another of said members being formed with a cam for actuating the pistons during relative rotation of said members, with fluid inlet and discharge passages leading to such faces and arranged to alternately register with the passages in said one member during relative rotation of said members, and with separate annular inlet and discharge chambers radially offset with respect to said inlet and discharge passages respectively and in fluid communication therewith.

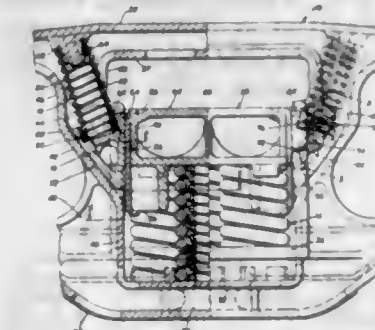
**2,712,795**  
**PNEUMATIC-HYDRAULIC PRESSURE DEVICE**  
Eric Georg Hjärpe, Goteborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden  
Application February 8, 1954, Serial No. 408,957  
1 Claim. (Cl. 103—238)



A pneumatic-hydraulic pressure device comprising a movable casing adapted to be submerged in a fluid and having a pair of chambers, each of said chambers having an inlet and an outlet port for said fluid and valve devices for controlling the flow through said ports, a vent for each chamber, an air pressure line, valve means movable between alternative positions and operative in one of said positions to connect one of said chambers to the air line and to close the vent of the chamber so connected, and to

simultaneously disconnect the other chamber from said line, and to open the vent of the latter chamber, thereby to effect discharge of contained fluid from the first chamber while permitting fluid to enter the second chamber, said casing being also movable between alternative positions in response to variations in the relative buoyancies of the chambers resulting from said simultaneous discharges and admissions of the fluid, means providing for momentary simultaneous connection of the chambers to the air line when the valve means occupies an intermediate position in its movement from one of said alternative positions to the other, and means responsive to the movements of the casing for shifting the valve means from one of said alternative positions to the other.

**2,712,796**  
**CAR TRUCK DAMPING DEVICE**  
James A. Shafer, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio  
Application November 18, 1949, Serial No. 128,153  
8 Claims. (Cl. 105—197)



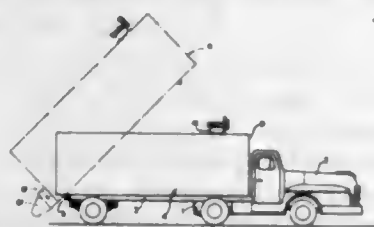
2. A railway car truck comprising a side frame having tension and compression members, columns extending between said members and forming therewith a bolster receiving opening having a widened upper portion, a bolster extending into said opening, springs on said tension member supporting said bolster, said bolster having a pair of lugs overlapping the outboard side of said columns below said upper portion of said opening, said lugs being so constructed and arranged as to enable passage thereof through said widened upper portion of said opening when said bolster is raised for assembly or disassembly with said side frame, said columns having pockets with transverse surfaces sloped upwardly and away from said bolster, and a substantially symmetrical friction wedge member in each pocket having a pair of converging faces engaging said transverse surface of the pocket and the side of said bolster, said face in engagement with said surface in said pocket being curved vertically, said wedge member having means thereon for precluding incorrect assembly of said truck, said means comprising a lug at the upper end of said wedge member having a portion disposed adjacent said transverse surface, said lug portion being adapted to extend into said widened portion of said opening in the event said wedge member is applied in said pocket with said flat face in engagement with said sloping surface therein, said last named lug when so disposed in said widened portion of said opening precluding said first named bolster lugs from being passed therethrough.

**2,712,797**  
**CONVERTIBLE LOAD COMPARTMENT FOR FREIGHT VEHICLES**  
Paul P. Woehrl, Philadelphia, and Samuel Eldon Cotter, Drexel Hill, Pa., assignors to The National Sugar Refining Company, New York, N. Y., a corporation of New Jersey  
Application May 31, 1951, Serial No. 229,104  
12 Claims. (Cl. 105—367)

1. In a vehicle, a load compartment having a top wall, a bottom wall, and side and end walls, a bag-like con-



tainer of flexible material disposed in said compartment and conforming when expanded substantially to the interior space of said compartment as though a liner thereof, said container having top inlet means and bottom outlet

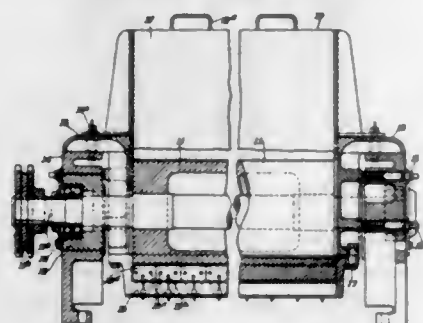


means accessible from the outside of said compartment when said container is expanded, means for supporting the top of said container adjacent the top of said compartment, and means for collapsing said container against and expanding it from one of said walls.

2,712,798

**DOUGH MOULDING MACHINE**

Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company  
Application June 24, 1952, Serial No. 295,239  
5 Claims. (Cl. 107—1)



1. In a machine for extruding plastic material such as dough, wherein the material is fed to a compression chamber and exudes therefrom through a die, the combination of a machine frame, at least one roller bounding said compression chamber and supported rotatably at each end by shafts journaled in sides of the machine frame, side plates bounding said compression chamber in a lateral direction and mounted interposed between said sides of the machine frame and the end faces of said roller in intimate surface contact with said end faces, said side plates having peripheral edges defining recesses within which said shafts are located respectively, whereby said side plates are removable from the machine without separation of said shafts from said sides of the machine frame, and a die box bounding said compression chamber and secured solely to said side plates.

2,712,799

**APPARATUS FOR TREATING ALIMENTARY PASTES AND THE LIKE**

Mario Braibanti and Giuseppe Braibanti, Milan, Italy  
Application April 1, 1953, Serial No. 346,134  
Claims priority, application Italy February 21, 1953  
18 Claims. (Cl. 107—14)



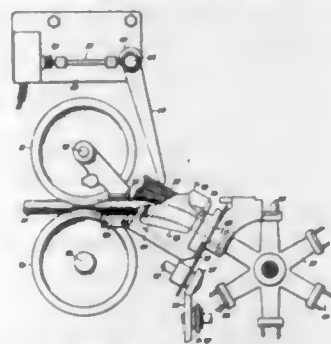
1. Apparatus for treating alimentary pastes and the like comprising, in combination, a housing having an inlet and an outlet for feeding an alimentary paste respectively into and out of said housing, the latter having an elongated tubular portion located between said inlet and outlet; plate means covering said outlet of said

housing for converting a paste passing through said plate means into elongated cord-like portions, said paste together with said plate means serving to close said outlet of said housing; a worm screw turnably mounted in said tubular portion of said housing and extending from said inlet toward said outlet for feeding a paste from said inlet to said outlet of said housing, said worm screw having a helical edge of an outside diameter substantially equal to the inside diameter of said portion; a perforated disc located in said tubular portion of said housing about said worm screw between said inlet and outlet of said housing and extending across the interior of said tubular portion of said housing so that said worm screw feeds paste from said inlet through the perforations of said disc toward said outlet, the paste together with said disc serving to close off a portion of said housing located between said outlet and disc; conduit means having one end connected to said housing, communicating with the interior of said portion thereof, and being adapted to be connected to a suction means whereby a partial vacuum may be produced in said portion of said housing; and screening means disposed at said end of said conduit means for blocking the passage of paste from said portion into said conduit means, said screening means being substantially flush with the inside surface of said portion so that as the worm screw rotates said helical edge thereof cleans said screening means.

2,712,800

**APPARATUS FOR CUTTING PIECES FROM A ROPE OF TOFFEE OR THE LIKE MATERIAL**

Richard Anson Harris, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, England, a company of Great Britain  
Application February 4, 1952, Serial No. 269,866  
3 Claims. (Cl. 107—21)

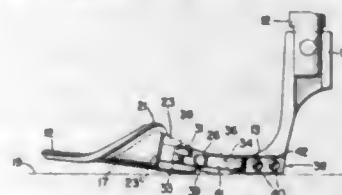


1. Apparatus for feeding and cutting a rope of toffee, caramel or like plastic material, comprising a knife for severing in succession pieces from the end of the rope, a pair of feed rollers for feeding the rope to the knife, a channel section guide extending between said feed rollers and said knife for confining and guiding the rope during its passage from the feed rollers to the knife, a hinged cover for the guide, said cover being hinged to said guide at the end thereof nearer said knife, a trip member arranged to be actuated by upward movement of said cover, and mechanism responsive to actuation of the trip member for stopping the feed rollers.

2,712,801

**HEMMER-FOOT FOR SEWING MACHINES**

Orland B. Reid, Kenilworth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey  
Application April 12, 1954, Serial No. 422,396  
4 Claims. (Cl. 112—141)



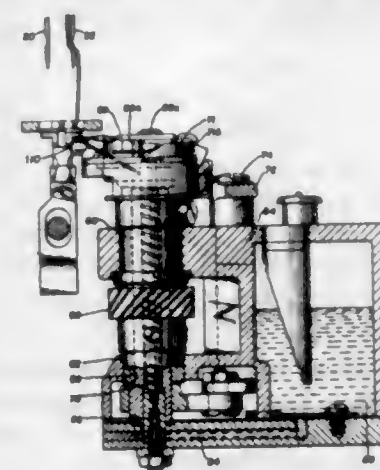
1. A sewing machine hemmer-foot comprising a sole-plate, a scroll formed as part of said sole-plate and hav-

ing an axis extending in a substantially horizontal direction, an apertured edge-turning wall formed as part of said scroll, a fabric-supporting apron formed as an extension of said scroll, a U-shaped member adapted to close the aperture in said edge-turning wall and thereby normally forming a part of said edge-turning wall, a lever apertured at both ends, means for pivotally mounting one end of said lever on said sole-plate, means for pivotally mounting said U-shaped member on the free end of said lever, and a spring yieldingly biasing said U-shaped member toward the axis of said scroll.

2,712,802

**SEWING MACHINE**

Newton W. Cottrell, South Bend, Ind., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois  
Application January 18, 1952, Serial No. 267,179  
6 Claims. (Cl. 112—184)



1. In a needle feed lockstitch sewing machine having a machine frame including a work supporting surface, a thread carrying needle reciprocable through the work supporting surface, a feed dog having a four-motion feed and return movement, said feed dog being formed with a supporting shank and a toothed work engaging portion extending laterally from said shank and longitudinally in the direction of feed and apertured to receive the needle, a vertical axis rotary hook disposed beneath the work supporting surface at one side of the line of feed rotating in a direction to seize and to throw a loop of needle thread from the needle rearwardly in the direction of feed in the region of said work engaging portion of the feed dog, and means for confining the needle loop drawn rearwardly from the needle by the hook which comprises a downwardly projecting thread engaging lug formed on the underside of the work engaging portion of the feed dog in rear of the needle receiving aperture therein and in the path of movement of said needle thread loop.

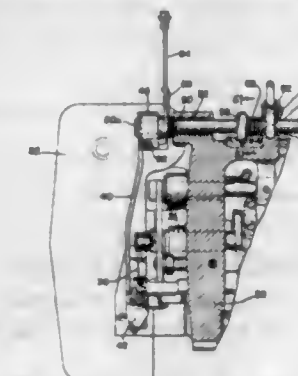
2,712,803

**OVEREDGE SEWING MACHINE**

Albert M. Schweda, Chicago, Ill., and Robert A. Wiedemann, Hammond, Ind., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois  
Application March 20, 1952, Serial No. 277,572  
11 Claims. (Cl. 112—235)

1. In a sewing machine having a frame, a horizontally disposed presser bar pivoted on a horizontal axis and mounted for movement along said axis, a presser foot carried by one end of said presser bar, and a spring operated device overlying the presser bar operative to engage and depress the presser bar and presser foot carried thereby, a presser throw-out device comprising a yieldably acting means supported from the machine frame urging said presser bar axially of said pivot bodily out-

wardly from the machine frame when out of operative engagement with said spring-operated device, and means

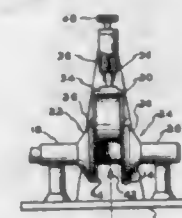


responsive to said axial movement for automatically swinging said presser bar upwardly on its pivot.

2,712,804

**THREAD PACKAGE**

Richard R. Cone, Gastonia, N. C., assignor to Threads-Incorporated, Gastonia, N. C., a corporation of North Carolina  
Application November 2, 1951, Serial No. 254,549  
6 Claims. (Cl. 112—251)

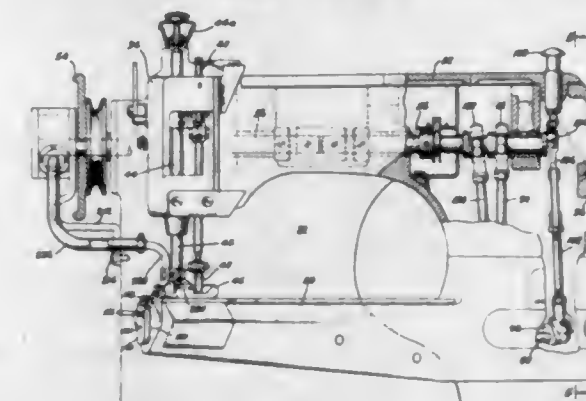


1. In the production of thread packages the step comprising winding thread upon a plastic bobbin consisting of a longitudinal core, side flanges integral with the core at both ends thereof, and the inner and outer surfaces of said side flanges tapering from said core to the peripheral edges thereof under a pressure effective to deflect the side flanges from their unstrained position while providing support for the outer surfaces of said side flanges to limit the deflection thereof to a predetermined amount.

2,712,805

**FEED-OFF-THE-ARM SEWING MACHINE**

Albert C. Peterson, Park Ridge, and Albert M. Schweda, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois  
Application July 22, 1952, Serial No. 300,216  
13 Claims. (Cl. 112—252)



1. In a feed-off-the-arm sewing machine, having a frame provided with a free ended work supporting arm, stitch-forming devices including a looper mechanism and a feed dog mounted in the arm and arranged for feeding work off the free end of the arm, and a reciprocating needle cooperating with the looper mechanism to form a thread chain, and operating means within said arm for operating said looper mechanism and said feed dog, the combination of an automatic thread chain cutter mounted beyond the free end of the arm comprising a



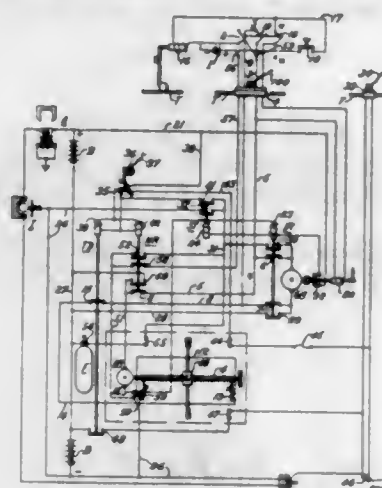
toothed cloth guard mounted on the frame and extending across the arm beyond the end thereof, a cutter bar having a serrated cutting edge supported by the frame for movement parallel to and in operative relation to said guard, and driving connections within said arm from said operating means for imparting reciprocatory movements to said cutter bar.

2,712,806

## ARMING MECHANISM

Arthur V. Hughes, Sharon, Pa., assignor to the United States of America as represented by the Secretary of the Navy

Application June 19, 1947, Serial No. 755,663  
10 Claims. (Cl. 114-20)

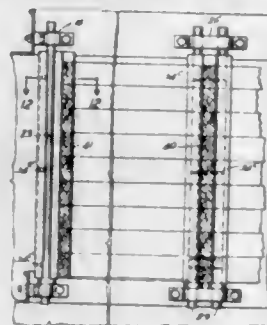


4. In a control system for the propulsion equipment of a jet propelled hydro-bomb adapted to be launched from a launching station into a body of water; in combination, a source of electrical energy, an electric igniter for the jet propulsion equipment of the bomb, an electrical circuit from the igniter to said source and including a motor driven arming switch and switch means actuated upon entrance of the bomb into the water, a low resistance shunt removably connected in parallel with the igniter, and means for removing said shunt when the bomb reaches a given distance from the launching station.

2,712,807

## REUSABLE GRAINFEEDEER FOR OCEAN-GOING SHIPS

Johannes Reinler Abelskamp, Rotterdam, Netherlands  
Application December 5, 1952, Serial No. 324,378  
17 Claims. (Cl. 114-75)



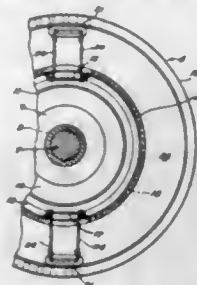
1. A reusable grainfeeder of general rectangular shape, for ocean-going ships, for the purpose of providing for a stabilized cargo and vessel, whereby the head of material remaining in the chute of the grainfeeder acts to prevent further shifting of the cargo by the flowing of the head of material to fill all free space in the hold during rolling or pitching of the vessel, such reusable grainfeeder comprising readily removable upright members positionable and supported within a hatch of the ship above the lower hold thereof and in horizontally spaced relation, upper support and lower rest means for said upright members attachable to the hatch wall and presenting vertically extending means for positioning said

upright members laterally, said upright members having vertical channel formations for receiving the ends of boarding, together with such boarding extending lengthwise and also transversely of the hatch of the ship with the ends of the boarding respectively received in said channel formations of the upright members and with the lowermost boarding receiving bottom support from said lower rest means for the upright members, such boarding thus defining at least the outer walls of the grainfeeder, said such walls being thus composed of a plurality of boards placed edgewise one upon another, all parts of such grainfeeder being readily removable after each using, so that said parts may be stored away for the next use for the same purpose.

2,712,808

## PNEUMATIC TIRE DEFLATION SIGNALING DEVICE

George H. Figgins, Hamilton, Ohio  
Application November 30, 1953, Serial No. 395,110  
7 Claims. (Cl. 116-34)

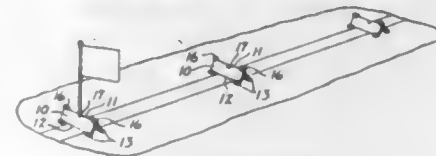


1. The combination with a vehicle wheel having a pneumatic tire mounting rim with an inwardly directed, laterally extending peripheral flange, of a resilient snap ring seated within the confines of the rim flange, oppositely located inset portions formed in the snap ring, a road-way contacting element located beside a side wall of the tire in a position radially outwardly from each inset portion in the snap ring the outer extremity of said element being normally spaced inwardly away from the roadway when the tire is fully inflated, and each element having a flexible connection with the adjacent inset portion in the snap ring.

2,712,809

## PROTECTIVE MARKER FOR HIGHWAY PAINT LINES

Frederick A. Clarke, University Heights, Ohio, assignor to Gard Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application April 13, 1953, Serial No. 348,330  
3 Claims. (Cl. 116-63)



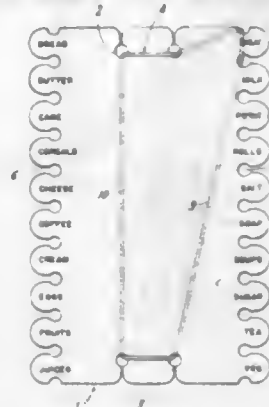
1. A highway paint strip marker comprising an elongated flexible rubber member having two substantially flat angularly disposed longitudinal walls joined along an apex and having free edges substantially parallel to said apex, said member having a supporting projection at each end of said apex and at each end of each of said free edges, the projections at the ends of said free edges each extending outwardly from the plane of the outer face of its wall and past the free edge of its wall in the plane thereof, the projections at the ends of said apex each extending outwardly from the planes of the outer faces of both walls, whereby said marker may be supported at its ends and on opposite sides of a paint line with its apex at the top and the free edges of its walls clear of the paint line or with either of its side walls forming a bottom overlying and clear of the paint line.

2,712,810

## REMINDER SHEETS

Leonard A. Ranko, New York, and Bernard L. Shank, Flushing, N. Y.

Application February 24, 1954, Serial No. 412,145  
1 Claim. (Cl. 116-130)



A memorandum sheet of rectangular outline having rows of projections along opposite edges thereof, said sheet having recesses with rounded inner ends and diverging curved sides in said edges to form rows of rounded projections between said recesses, said sheet having the name of an article adjacent each projection, the sheet also having apertures adjacent each end thereof between said rows, and a cut running from each aperture to the adjacent edge of said sheet, and an endless single loop of elastic material having portions in said apertures at both ends and extending from end to end on one face of said sheet, and portions connecting the first-named portions and extending along said rows in position to be engaged with one or more of said projections.

2,712,811

## POULTRY LITTER

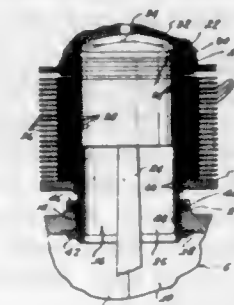
George W. Dowell, Jr., Salem, Ill., assignor to Dowell Products Incorporated, McLean, Va., a firm  
No Drawing. Application December 17, 1953, Serial No. 398,873  
3 Claims. (Cl. 119-1)

1. Poultry litter material comprising relatively short particles of tobacco stems having a cylindrical formation, the length of said particles being on the order of one-half inch to one and one-half inches.

2,712,812

## ENGINE CYLINDER

Glover E. Ruckstell, Los Angeles, Calif., assignor, by mesne assignments, to Ruckstell Corporation, Los Angeles, Calif., a corporation of California  
Application June 26, 1951, Serial No. 233,596  
5 Claims. (Cl. 121-194)



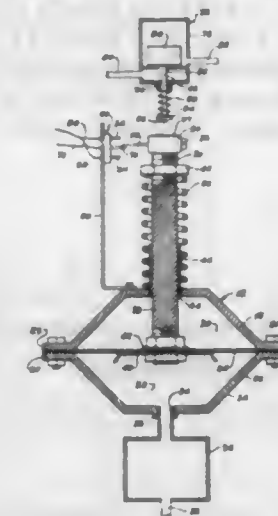
1. The combination with an internal combustion engine crankcase having a cylinder receiving opening, of a cylinder whose lower end is received in the opening, the cylinder having an external radial flange about its lower end of larger size than the crankcase opening, a thread about the cylinder having at least a portion disposed to lie externally of the crankcase wall, a nut on the thread, and a removable shim about the cylinder between the nut and the flange, the shim being capable of

placement between the nut and the crankcase to create a lower compression cylinder position, and the shim also being capable of location between the flange and the crankcase to create a higher compression cylinder position.

2,712,813

## ENGINE SAFETY DEVICE

William B. Thomas, Ada, Okla.  
Application August 15, 1951, Serial No. 242,022  
3 Claims. (Cl. 123-41.14)

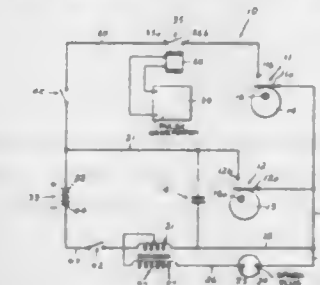


1. A vacuum operated safety device for an internal combustion engine having an intake manifold providing communication between the engine intake valves and a throttle valve and provided with an ignition circuit, comprising a housing, a diaphragm in the housing, a stem secured to the diaphragm and extending freely through one side of the housing, a switch electrically connected to the ignition circuit, a switch actuating arm carried by said stem in such a position to actuate the switch upon movement of the stem and diaphragm, a conduit interconnecting the opposite side of the housing to the intake manifold between the engine intake valves and the butterfly valve to impose the vacuum in the intake manifold upon one side of the diaphragm and urge the diaphragm in one direction, a spring connected to said stem for moving the stem and diaphragm in the opposite direction upon a reduction of vacuum in the intake manifold to actuate the switch and interrupt the ignition circuit, a drain valve connected to the cooling system of the engine, a valve member in the valve, and a valve stem connected to the valve member extending into a position adjacent the first mentioned stem in such a manner to move the valve member to an open position upon movement of the first mentioned stem in said opposite direction subsequent to actuation of the switch.

2,712,814

## SPEED CONTROL FOR INTERNAL COMBUSTION ENGINES

Phil I. Harr, Hagerstown, Md., assignor to Fairchild Engine and Airplane Corporation, Hagerstown, Md., a corporation of Maryland  
Application June 4, 1953, Serial No. 359,588  
4 Claims. (Cl. 123-102)

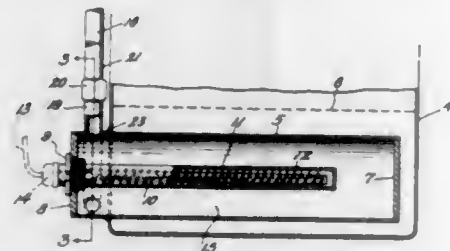


1. In an ignition system for combustion engines having a primary circuit which when opened causes a high



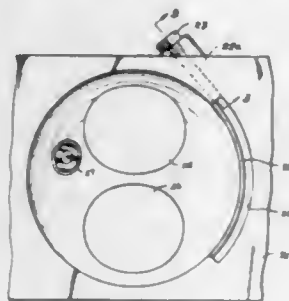
voltage current to pass through a secondary circuit, a control device comprising at least two sets of non-variable contact means connected in parallel in said primary circuit, variable contact means connected in series with at least one of said non-variable contact means, and means to open and close said variable contact means in a frequency range defined by the breaking frequencies of at least two of said non-variable contact means.

**2,712,815**  
**ELECTRICALLY ACTUATED FLUID HEATING**  
**ATTACHMENT FOR AUTOMOTIVE ENGINES**  
Leonard M. Blessing, Washington C. H., Ohio  
Application February 12, 1952, Serial No. 271,168  
7 Claims. (Cl. 123—142.5)



1. Apparatus for heating lubricating oil and liquid coolants employed as operating fluids in an internal combustion engine, the latter having a cylinder block formed with a coolant-receiving jacket and a crank case having an oil sump, a cylindrical casing member positioned horizontally and transversely in the sump of said case at the rear end of the engine, said casing member having one end thereof extended laterally beyond a side of said case through which said member extends, separate coolant supplying and returning means joined with the exteriorly projecting end of said casing member and uniting a coolant-receiving chamber provided internally of said casing with the jacket space of said cylinder block, and a removable electrically energized resistance element positioned longitudinally and axially in said coolant chamber, said resistor element being removable bodily from the exteriorly projecting end of the casing member, and when actively positioned said element being disposed substantially entirely within the confines of said crank case.

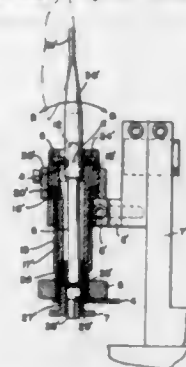
**2,712,816**  
**REPLACEABLE ACOUSTIC ABSORBER FOR INTERNAL COMBUSTION ENGINE DETONATION SUPPRESSION**  
Albert G. Bodine, Jr., Van Nuys, Calif.  
Application September 8, 1952, Serial No. 308,331  
9 Claims. (Cl. 123—191)



1. Detonation suppression means for an internal combustion engine comprising, wall means forming a combustion chamber, said wall means formed with an elongated recess disposed closely adjacent to said combustion chamber for a substantial distance and communicating with said chamber via a sound wave passage for a substantial proportion of said distance, and an elongated sound wave absorptive body lodged in said recess.

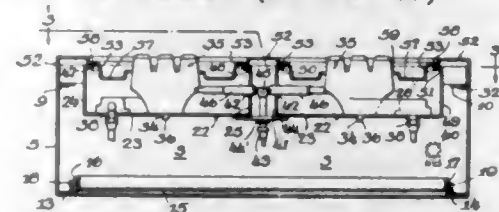
**2,712,817**  
**DIAMOND RADIUS AND ANGLE DRESSER**  
Otto F. Trefz, Philadelphia, Pa.  
Continuation of application Serial No. 267,977, January 24, 1952. This application December 13, 1952, Serial No. 325,806

7 Claims. (Cl. 125—11)



1. A radius and angle dresser comprising an elongated tubular housing rotatable about its longitudinal axis, an elongated diamond holder extending through said housing, the inner size of said housing being sufficiently larger than the outer size of said diamond holder to permit relative movement between said housing and said diamond holder, a diamond cutter carried by said holder adjacent one of its ends, set screw means carried by said housing and securing said diamond holder to said housing in a predetermined initial adjusted position, said set screw means including a pair of diametrically opposed pivot points bearing on said holder, and means operative on said diamond holder for readjusting the lateral position of said diamond holder in said housing about an axis approximately perpendicular to that defined by the pivot points, said means including a bushing rotatably mounted on one end of said housing, said bushing including an off-center bore engaging a portion of said diamond holder at its other end.

**2,712,818**  
**SUPPORT FOR TOP BURNERS**  
John E. Chambers, Shelbyville, Ind., assignor to Chambers Corporation, a corporation of Indiana  
Application May 10, 1951, Serial No. 225,650  
6 Claims. (Cl. 126—39)

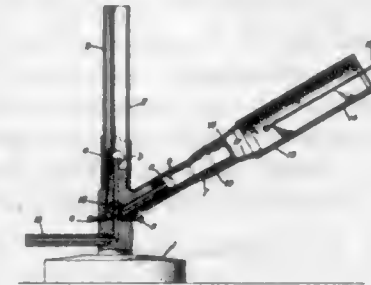


1. A support for top burners comprising a pair of open top boxes of light weight sheet metal spaced in side by side relationship, a top burner and burner assembly rigidly secured to the bottom of each of said boxes, a reinforcing member rigidly secured to corresponding ends of said boxes at opposite ends thereof to secure said boxes together and to provide rigidity for the upper edges of said boxes, a plurality of horizontal flanges at the upper edge of each of said boxes, and a cooking top of light weight sheet metal bolted to said flanges at a plurality of closely spaced points to hold said cooking top tightly against the upper edges of said boxes and thereby resist deformation of said cooking top.

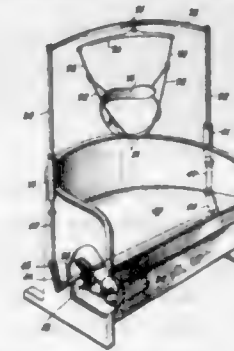
**2,712,819**  
**GAS FUELED INCINERATOR FOR STERILIZING INOCULATING LOOPS**  
Sidney Rosen, Baltimore, Md.  
Application May 9, 1951, Serial No. 225,414  
5 Claims. (Cl. 126—229)

1. An incinerating burner comprising a burner tube, a gas jet within the tube, an air supply opening for said

jet in the tube, a perforated top for the burner tube, connected to the ends of said crotch portion, said crotch a metal tube supported coaxially of and spaced from portion being hollow and affording elongated pockets said burner tube in a longitudinal direction and in therein, and padding material positioned in said pockets.



**2,712,820**  
**MACHINE FOR PROVIDING INTERMITTENT CERVICAL TRACTION**  
Kelly C. Robinson, Greenwich, Conn.  
Application December 1, 1950, Serial No. 198,616  
6 Claims. (Cl. 128—75)



1. A relaxing machine comprising a frame; suspension means carried by the frame and hanging downwardly therefrom including a suspension arm, strap means attached to the suspension arm at spaced points thereon, a collar attached to the strap means and means mounting the suspension means for vertical up and down movement; and oscillating means connected with the suspension means to raise and lower the same at a rate such as between 3 and 40 oscillations per minute and approximately two and a half inches; the suspension means and oscillating means being located to leave an unobstructed space at the rear of the collar, the strap means including a strap attached at its ends to each side of the collar at spaced points thereon and having a mid portion extending upwardly, and a slip connection between the mid portion of each strap and the suspension arm.

**2,712,821**  
**PILE TRUSS**  
Donald A. De Wolf and Viola A. De Wolf, Winner, S. Dak.  
Application January 12, 1954, Serial No. 403,572  
2 Claims. (Cl. 128—98)



1. A pile truss comprising a harness including a substantially Y-shaped crotch portion and shoulder straps

**2,712,822**  
**NEEDLE HUB**  
Theodore H. Gewecke, Glenview, Ill., assignor to Baxter Laboratories, Inc.  
Application May 21, 1954, Serial No. 431,542  
7 Claims. (Cl. 128—214)



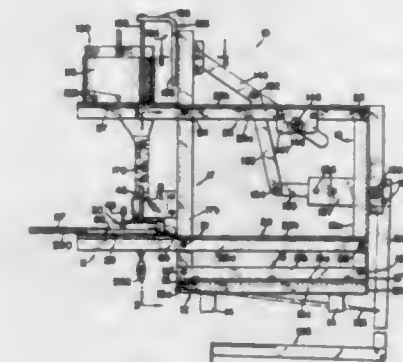
2. A single piece cast needle hub of the character specified comprising a tubular body having outwardly flared end portions, an integral smaller diameter tubular portion in spaced relation thereto and an integral transverse wall connecting said tubular portion to said body.

**2,712,823**  
**BRUSH FOR REMOVING SKIN BLEMISHES**  
Abner Kurtin, Bronx, N. Y.  
Application February 24, 1954, Serial No. 412,160  
4 Claims. (Cl. 128—303)



1. A metallic brush comprising a rotatable shaft member, a plurality of disk shaped holding members secured to said shaft member, and a plurality of radially extending metallic bristle members secured between said holding members, projecting therefrom for a distance of 1/8 to 1/2 inch, and pointed in the direction of rotation of said shaft member.

**2,712,824**  
**MACHINES FOR MAKING TOBACCO REFILLS**  
Louis Steiner, Rockaway Park, N. Y.  
Application March 9, 1951, Serial No. 214,686  
13 Claims. (Cl. 131—75)



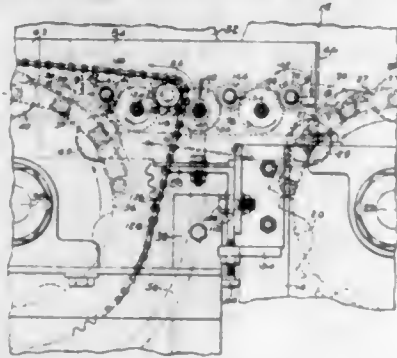
1. A machine of the character described comprising a tube, a hopper at the upper end of the tube, a rod passing axially through the hopper and into the tube, a container communicating with the hopper for feeding tobacco to the hopper which may then pass down through the tube, said tube being adapted to receive a flexible sleeve thereover, means for slidably moving the rod relative to the tube, whereby tobacco may be tamped down into the lower end of the sleeve by means of the rod, and means for applying a pair of staples on the sleeve and below the lower end of the tube.



2,712,825

**DISH WASHING AND DRYING APPARATUS**  
Allan H. Messler, West Hartford, and Charles R. Lewis, Hartford, Conn., assignors to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application February 9, 1951, Serial No. 210,248  
7 Claims. (Cl. 134—68)

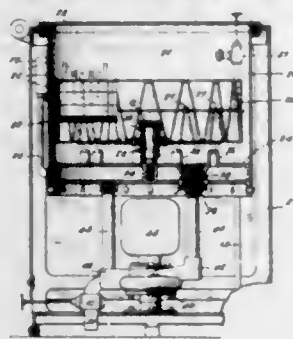


1. In a dish washing and drying apparatus, the combination of a washing unit having an endless foraminous conveyor belt for carrying dishes as they are washed, the said conveyor comprising interconnected transversely spaced links and the upper run of the said conveyor belt being horizontal and being movable in the forward direction, a drying unit located at the forward end of the washing unit and having an endless foraminous conveyor belt for carrying dishes as they are dried, the said conveyor comprising interconnected transversely spaced links and the upper run of the last said conveyor belt being horizontal and at approximately the same level as the upper run of the first said conveyor belt and being also movable in the forward direction, a plurality of longitudinally spaced transverse horizontal rollers interposed between the forward end of the washing conveyor belt and the rearward end of the drying conveyor belt, the said rollers being substantially tangent at their tops to a plane through the upper dish supporting faces of the upper runs of the two conveyor belts, means for rotating the said rollers in the direction to cause the tops thereof to move in the forward direction so that the rollers serve to transfer dishes from the washing conveyor belt to the drying conveyor belt, means for delivering jets of air upward between two of the rollers to remove water from the lower faces of the dishes passing over the rollers, and a plurality of vertical transversely spaced longitudinal guide plates adjacent the rollers and between the ends thereof which plates have notches open at the top within which the rollers are positioned and which plates have their top faces horizontal and at a level slightly below the plane of the tops of the rollers, the said longitudinal guide plates extending at their ends between the transversely spaced links of the two conveyor belts.

2,712,826

**WASHING MACHINE**

Victor Schleyer and Jack L. Henricks, Anderson, Ind.  
Application April 27, 1949, Serial No. 89,916  
2 Claims. (Cl. 134—139)



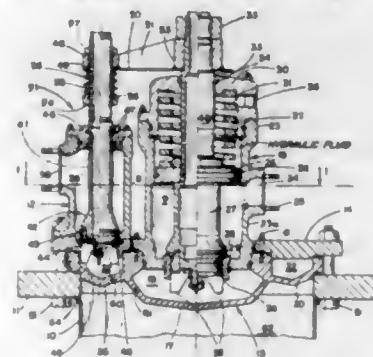
1. A dishwasher, comprising a dish-supporting carrier rotatable in a horizontal plane, ports at a plurality

of spaced points beneath the area traversed by said carrier to discharge full-bodied streams of liquid upward across the path of said carrier, said discharge ports being spaced circumferentially and radially and at interference avoiding distances in a pattern leaving open areas, and means to discharge angular streams of liquid in said open areas, said carrier and streams being inter-related whereby dish reaction to said streams produces carrier rotation, and a pump to recirculate liquid in large volume and at low head through said discharge means.

2,712,827

**VALVE**

Douglas B. Nickerson, Pasadena, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio  
Application March 26, 1951, Serial No. 217,514  
7 Claims. (Cl. 137—98)

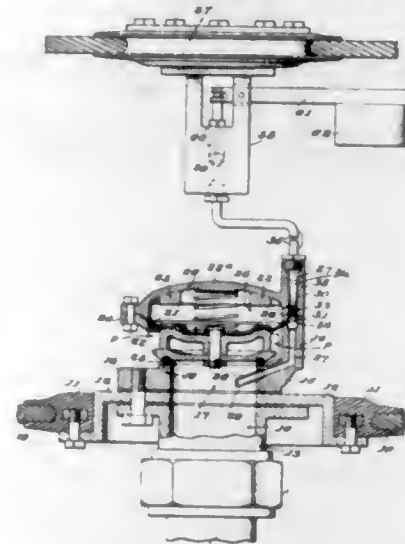


1. Pressure-operated fluid injection means comprising a plurality of separate manifold chambers, an opening having a valve seat upstream from and leading into each manifold chamber, a seatable valve situated at each valve seat so that when the valve is seated on the seat the flow of fluid through the opening is prevented, one of said valves being a master valve, a fluid receiving chamber upstream from and in communication with each valve and fluid entry means into each fluid receiving chamber, a cylinder in communication with the fluid receiving chamber of the master valve, said master valve having attached to it a piston in the cylinder, the said valves being interconnected with each other, whereby pressure of the fluid introduced into the fluid receiving chamber of the master valve moves the piston to open all the valves.

2,712,828

**VALVE MECHANISM FOR FILLING AND CONTROLLING THE LEVEL OF FLUID IN A TANK**

Everett H. Badger, Jr., Los Angeles, Calif., assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio  
Application January 16, 1953, Serial No. 331,717  
5 Claims. (Cl. 137—414)



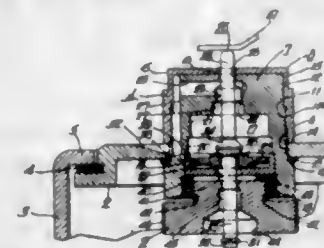
1. A fluid pressure operated valve mechanism comprising a housing having an inlet surrounded by a valve

seat, a valve for controlling the flow of fluid through the inlet, means for supporting said valve, said housing having a fluid pressure chamber above the valve of which chamber the valve forms a movable wall, said housing having a flow passage at one side of and separated from the pressure chamber and leading from the intake side of the valve to the upper side of the housing, said passage intermediate the ends thereof being restricted for reducing the fluid pressure in the flow stream at said restriction, the wall of said fluid pressure chamber having an opening connecting the chamber to said flow passage at substantially the restriction therein.

2,712,829

**VALVE DEVICE FOR PRESSURE COOKERS AND THE LIKE**

Douglas C. Whitaker, Wyncote, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application October 30, 1951, Serial No. 253,895  
14 Claims. (Cl. 137—469)

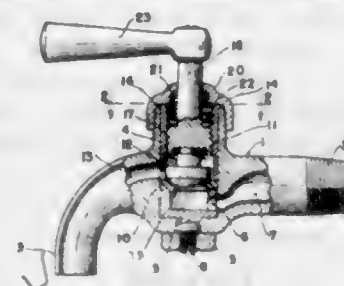


1. A valve device for use with a pressure source of the character described; comprising an outlet port through which the pressure of said source may be vented; movable valve means cooperative with said port to retain the pressure of said source when the source is operating in a predetermined pressure range, said valve means including an element adapted to be subjected to an external force, the valve means being movable away from said port by discrete change of the external force acting thereon; and a walled structure surrounding said valve means and contoured to provide in conjunction with said valve means, upon movement of the latter from said port, first a relatively small orifice which increases in size as the valve means moves away from said port, and upon substantial decrease of the source pressure an orifice sufficiently large to "dump" or quickly dispel the pressure of the source.

2,712,830

**FAUCET**

Ralph Walter Hugg, Kittitas County, Wash.  
Application August 9, 1952, Serial No. 303,573  
2 Claims. (Cl. 137—613)

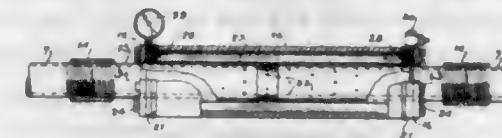


1. A faucet, comprising: a body having formed therein inlet and outlet passageways, a valve chamber connecting said passageways, seated in said chamber a cup-shaped plug cut-off having formed in the skirt thereof a port adapted to be brought in and out of registry with said inlet passage; a gasket resting on the rim of said cup and having its edge in contact with the inner wall of said chamber, a valve cage fitting in said chamber and having its lower edge seating on said gasket, said cage formed with a port in registry with said outlet passage, a valve stem in said cage, coaxing threads between said stem

2,712,831

**SHOCK PRESSURE ABSORBER AND PULSATION DAMPERS**

Grover A. Day, Long Beach, Calif.  
Application November 27, 1948, Serial No. 62,281  
4 Claims. (Cl. 138—26)

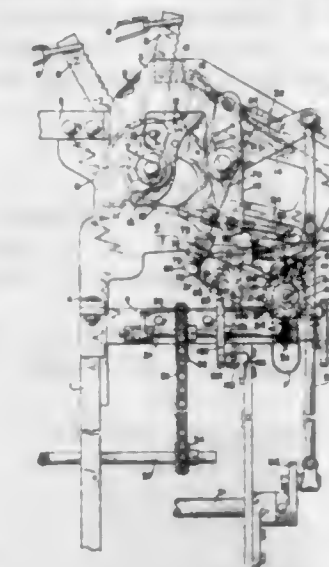


1. A pressure absorber for use in pipe lines, which comprises a chamber, an expansible diaphragm in said chamber dividing said chamber into a fluid pressure chamber on one side of said diaphragm, a gas pressure chamber on the other side of said diaphragm, pressure relief openings in a wall of said fluid pressure chamber adapted to provide communication between said fluid pressure chamber and said pipe line to form a pressure relief vent for said pipe line, said relief openings comprising a plurality of throttling orifices, said orifices each having an average cross sectional area of substantially 0.05 square inch or less, and each orifice being substantially less than the cross-sectional area of said pipe line, said orifices having a throttling action upon fluid flow through said orifices upon imposition of pressure perturbation in said pipe line at said relief openings.

2,712,832

**PAPER PATTERN INDICATED DOBBY**

Archibald J. Herard, Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts  
Application February 16, 1954, Serial No. 410,483  
35 Claims. (Cl. 139—68)

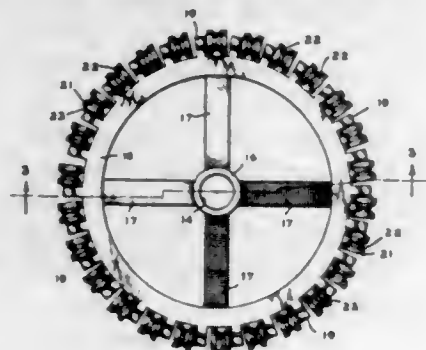


1. In a loom dobby operating with a paper pattern having perforated and unperforated parts and having a reciprocating knife and a hook below and normally in low position out of the path of the knife but capable of being raised into said path by a lifter, a finger for the lifter held in the normal position thereof by the weight of the lifter and hook when the latter is in low position but movable to operating position to raise the lifter to cause the hook to move upwardly into the path of the knife, an actuator having regularly recurring working strokes along a given path, an operator connected to the finger for movement relative to the actuator to be in or out of the path of the actuator, a pattern reader over the paper pattern mounted on and controlling the position of the operator relative to said path of the actuator and registerable with either the perforated or unper-



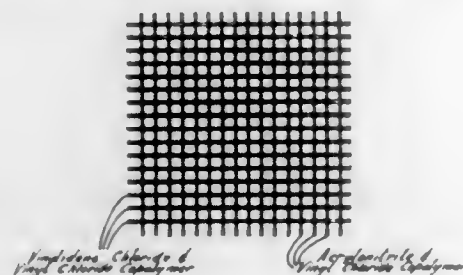
forated part of the paper pattern, depending upon the position of the paper pattern, and an elevator for the operator effective first to lift the operator out of the path of the actuator and move the reader away from the paper pattern and thereafter prior to a working stroke of the actuator to effect movement of the operator into the path of the actuator, provided the reader registers with the perforated part of the pattern, the reader if registering with the unperforated part of the pattern holding the operator above said path of the actuator, and said operator if in the path of the actuator being moved by the latter on a working stroke thereof to move the finger and cause the latter to raise the lifter to move the hook into the path of the knife.

**2,712,833**  
**LOOM BATTERY THREAD TENSIONER**  
Marvin W. Odom, Roswell, and Thomas B. Hunt,  
Atlanta, Ga.  
Application January 15, 1953, Serial No. 331,366  
7 Claims. (Cl. 139—248)



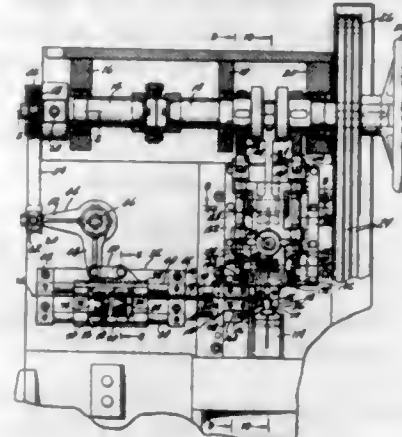
7. A device for maintaining tension on yarn carried in a battery in connection with a loom, said device comprising a circular member, a series of radial projections extending outwardly from said circular member, a series of studs extending substantially laterally from said projections substantially at right angles to the axis of said circular member, pairs of cooperating pressure disks mounted on said studs and adapted to frictionally hold yarn therebetween and spring means forcing said disks together.

**2,712,834**  
**FIRE RETARDANT FABRIC**  
Robert A. Black, Florham Park, N. J., and Joseph F. Rohs, Riverside, Conn., assignors to Chicopee Mills, Inc., a corporation of New York  
Application May 6, 1952, Serial No. 286,270  
12 Claims. (Cl. 139—426)



1. A fire retardant textile fabric comprising a material selected from the group consisting of polyacrylonitrile, a copolymer of acrylonitrile and a vinyl halide and a copolymer of acrylonitrile and vinyl acetate, and between ten per cent (10%) and sixty per cent (60%) by weight of a copolymer having a major portion of vinylidene chloride and vinyl chloride or acrylonitrile to the extent of at least five per cent (5%), whereby material selected from said group imparts qualities of good hand and drape to the fabric and said last-mentioned copolymer is sufficient to substantially reduce the ability of the first-mentioned material to support combustion.

**2,712,835**  
**MACHINE FOR MAKING PARTLY OPEN RINGS**  
Peter M. Sampatacos, Torrington, and Edward E. Franks, Jr., Litchfield, Conn., assignors to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut  
Application April 25, 1952, Serial No. 284,306  
3 Claims. (Cl. 140—71)

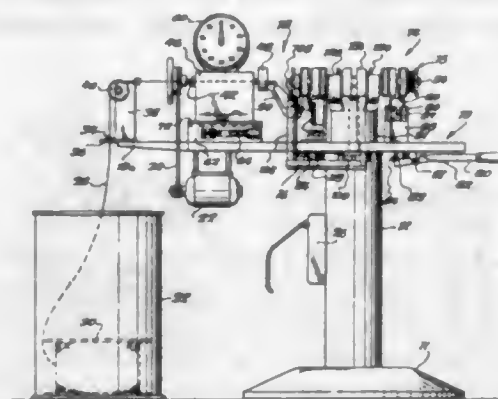


1. In a machine operable in cycles for making partly open wire rings, the combination of a transversely extending stationary anvil having a head with an exterior convex shape conforming to the required interior concave shape of the partly open rings, a horizontal shaft making one rotation during each cycle and having an eccentric crank pin between its ends, means operable by the shaft during each rotation for placing in a horizontal longitudinal position above and adjacent the anvil head a severed wire portion having the requisite length for a ring, a vertically movable slide below the shaft, a connecting rod engaging the eccentric pin for moving the slide downwardly and upwardly during each shaft rotation, two similar arms connected with the slide and each pivotally movable relatively thereto about a transverse horizontal axis, two tools connected respectively with said arms and initially located above said wire portion in longitudinally spaced relationship with each other and at opposite sides of transverse vertical planes through the edges of the anvil head, said tools being movable downwardly with the slide in said spaced relationship past the anvil head at opposite sides thereof to cause the bottoms of both tools to engage said wire portion and bend it around the anvil head in conformity with the shape of the upper portion thereof so as to partly form a ring, two vertical rods carried by the slide and vertically movable relatively thereto, means serving upon vertical movement of said rods with respect to the slide for causing pivotal movements of said arms to thereby move the tools longitudinally, and two cams on the shaft for causing vertical movements of said rods with respect to the slide to thereby move the arms and the tools toward each other when said tools have completed the last said bending of the wire portion, said tools upon being so moved toward each other serving to additionally bend the wire portion around the anvil head in conformity with the shape thereof so as to complete the forming of the ring.

**2,712,836**  
**COIL WINDING MACHINE**  
Robert G. Marzoff, Snyder, N. Y.  
Application July 24, 1951, Serial No. 238,311  
12 Claims. (Cl. 140—92.1)

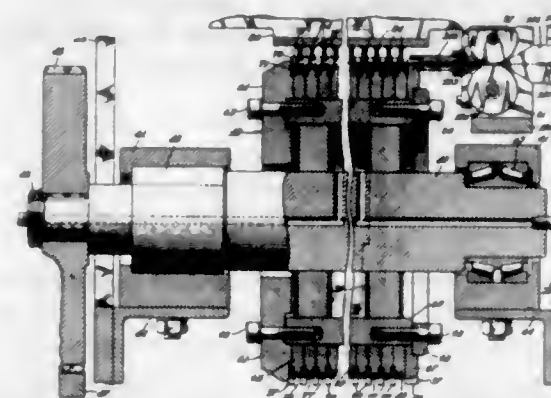
1. In a coil winding machine, a base, a rotary member mounted thereon, means for rotating said member step by step to a plurality of predetermined stop positions, a plurality of coil forms mounted on said rotary member, each of said coil forms comprising a coil retaining plate detachable from said coil form by sliding movement in a direction perpendicular to the longitudinal axis of the said coil form, a winding mechanism positioned adjacent

a first one of said stop positions and in winding registry with successive ones of said coil forms as said forms are successively rotated to said first stop position, and an ejector mechanism positioned adjacent a second one of said stop positions, said ejector mechanism comprising



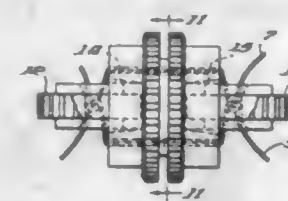
an ejector plate positioned to be coplanar with each of said retaining plates as said forms are successively rotated to said second stop position, and means for selectively moving said ejection plate into forcible contact with successive ones of said retaining plates at said second stop position.

**2,712,837**  
**WELDED WIRE MESH FABRICATING MACHINE**  
Harry E. Griesemer, Bloomington, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois  
Application February 11, 1950, Serial No. 143,755  
17 Claims. (Cl. 140—112)



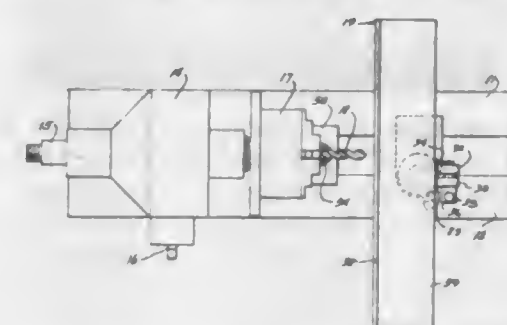
1. In a wire mesh fabricating machine, a frame, a cross wire magazine journaled thereon including a drum transversely slotted to receive a plurality of cross wires from the ends of said slots and to supply said cross wires for engagement with and welding to line wires in uniform spaced relation, said drum also being circumferentially slotted entirely around the periphery thereof, the circumferential slotted portions thereof intersecting the transverse slotted portions thereof, a second drum journaled in said frame in spaced relation with respect to said first drum and having a plurality of individual transversely spaced aligned teeth extending around the circumference thereof, a motor on said frame, a positive drive connection from said motor to drive both of said drums at the same peripheral speed, a cross wire feeding and guide means leading to said transverse slotted portion of said first drum and including two pinch rolls and means for rotatably driving said pinch rolls at a predetermined speed for feeding the cross wires to said transverse slotted portion during rotation of said magazine, means for guiding a plurality of line wires into the circumferentially slotted portion of said magazine and into engagement with said cross wires including a plurality of rolling electrodes pressing said line wires into engagement with said cross wires and bonding said wires by welding, and the teeth of said second drum engaging the welded cross wires and drawing said line wires from said magazine at the speed of travel thereof.

**2,712,838**  
**WIRE KNOTTER**  
Albert R. J. Luke, Toronto, Ontario, Canada  
Application August 8, 1952, Serial No. 303,556  
2 Claims. (Cl. 140—115)



1. In a wire knotter a common frame member, a main twisting pinion rotatably mounted on said member and having two diametrically opposed radial slots for receiving two sections of wire, gear means rotatably mounted on said frame member for rotating said main pinion thus forming a twisted portion at either side of said main pinion, auxiliary twisting pinions shiftably mounted on said frame member each having a radial slot to straddle the said twisted portions at either side of said main pinion, arm means swingably mounted on said frame to swing said auxiliary pinions into a position to straddle said twisted portions and return them to an inoperative position, gear means rotatably mounted on said frame to rotate said auxiliary pinions while they are in the operative position, a cutting disc rotatably mounted in said main pinion and having radial slots cooperating with said slots of the main pinion to sever the wires, means mounted on said frame to rotate said cutting disc after said auxiliary pinions have been rotated.

**2,712,839**  
**WORK HOLDER FOR LATHE**  
Walter Harpell, Elmont, and William N. Gray, Ridgewood, N. Y.  
Application July 25, 1952, Serial No. 300,872  
3 Claims. (Cl. 144—92)



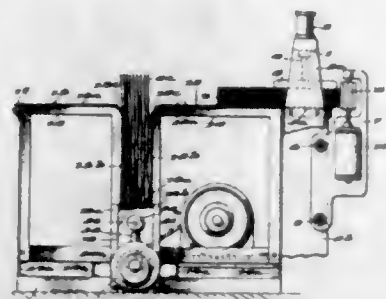
1. In combination with a lathe having an elongated bed, a head stock supported above said bed at one end thereof for rotation about an axis extending longitudinally of the bed and parallel thereto, a chuck mounted on said head stock, and a bit mounted at one end in said chuck and projecting therefrom, a carrier mounted on said bed for free sliding movement toward and away from said chuck, a work holder mounted on said carrier for angular movement about an axis perpendicular to the rotational axis of said head stock, means on said carrier releasably locking said work holder in selected positions of angular adjustment about the axis of angular movement of said work holder and relative to the rotational axis of said head stock, and a stop mounted on said bed between said head stock and said carrier for sliding movements longitudinally of said bed and including means for releasably locking the stop to the bed at selected distances from said chuck said work holder comprising a first plate disposed above said bed, a stem projecting from said first plate toward said lathe bed and received in said carrier, and a second plate attached to said first plate at an angle thereto, said second plate having an opening therein through which the rotational axis of the head stock passes.



2,712,840

## VENEER WORKING MACHINE

Chester R. Gilbertson, Bellingham, Wash., assignor to Mt. Baker Plywood, Inc., Bellingham, Wash., a corporation of Washington  
Application March 29, 1954, Serial No. 419,397  
7 Claims. (Cl. 144—117)

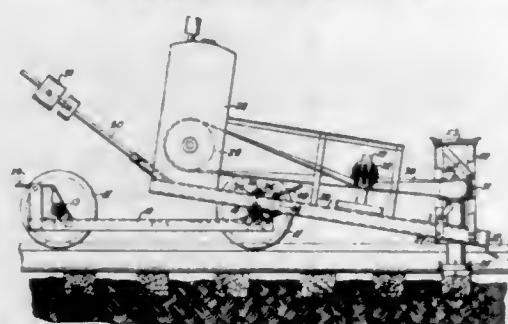


4. A veneer working machine comprising a table having the top surface thereof divided in two spaced sections separated by a vertical slot, a vertically movable support mounted below the top of said table and in a position to support a bundle of veneer sheets within said slot with their planes arranged vertically, and means for subjecting said support to periodic vibratory movement vertically.

2,712,841

## MACHINE FOR SMOOTHING DAMAGED CROSS TIES IN RAILROAD TRACK

Richard Glenn Simmons, Franklin Park, and Russell Edward Paulson, Itasca, Ill.  
Application February 10, 1954, Serial No. 409,404  
2 Claims. (Cl. 144—119)



1. In a machine for smoothing damaged cross ties in railroad track, a main carriage frame mounted on wheels to travel along the track, a boom frame, a cutter head mounted on the boom frame to rotate about a substantially vertical axis, trunnions supporting the boom frame on the main frame to swing about a substantially horizontal axis, means to raise and lower the trunnions, a pintle supported by the trunnions and on which the boom frame is mounted to swing about a substantially vertical axis normal to the plane containing the surface of the rails, and means to limit the swinging movement about the vertical axis.

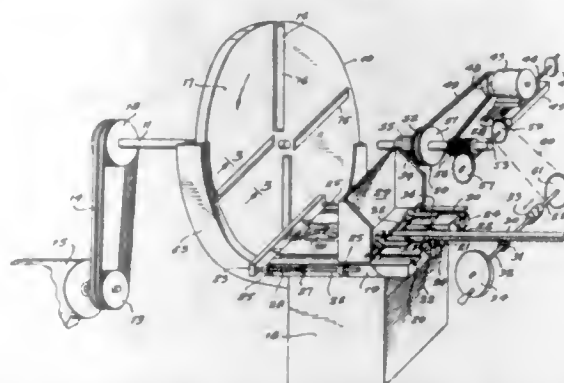
2,712,842

## APPARATUS FOR PRODUCING SHAVINGS

Fred Fahrni, Zurich, Switzerland  
Application August 10, 1951, Serial No. 241,312  
4 Claims. (Cl. 144—162)

1. Apparatus for manufacturing shavings, comprising in combination, a rotatably mounted disc; feeding means located opposite a face of said disc for feeding material to be cut into shavings in a direction substantially parallel to the axis of rotation of said disc; said feeding means comprising a table top having mounting means and a movable extension located adjacent to said disc; spring means operatively connected to said extension and to said mounting means for urging the former away from said disc; cutting means mounted on said disc for cutting the material fed toward said disc by said feeding means; and control means operatively connected to said feeding means for automatically terminating the operation thereof when

said feeding means is located at a predetermined distance from said disc, said control means comprising pawl means operatively engageable with said extension for releasably maintaining the same in a position adjacent to said disc against the action of said spring means, said pawl means being operatively linked to said control means for actuating the same upon movement of said pawl means; and



actuating means operatively connected to said feeding means for moving said pawl means from said extension and to actuating position for said control means to terminate the operation of said feeding means simultaneously with the movement of said extension away from said disc by said spring means, whereby the remaining material falls from the table top.

2,712,843

## WOVEN FABRIC BAGS

August F. Ottinger, St. Louis, and Robert E. Pierce, Glendale, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri  
Application July 5, 1952, Serial No. 297,268  
5 Claims. (Cl. 150—1)

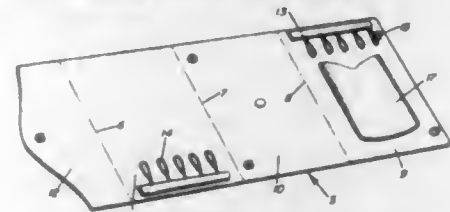


1. A bag made of unsized woven fabric having a stitched raw-edged seam, the raw-edged seam outward of the stitching being provided with a binding material whereby the yarns of the fabric are bound together to resist the pulling through the stitching of those yarns of the fabric which run transversely of the stitching, the fabric inward of the seam being free of binding material.

2,712,844

## KEY CASE

Florence M. Glass and Leon E. Glass, Northbrook, Ill.  
Application November 23, 1953, Serial No. 393,554  
3 Claims. (Cl. 150—40)



1. A key case comprising a flat body of foldable material and foldable along parallel lines defining an outer section, an intermediate section and an inner section, said outer section being foldable on top of the intermediate section and said last two named sections being foldable as a unit on top of said inner section, key attaching means carried by said inner and outer sections, said intermediate section being blank, and means securing said sections in folded position.

2,712,845

## PROTECTIVE COVERING

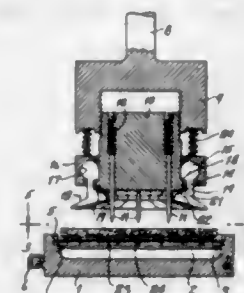
Robert F. Lange, Los Angeles, Calif.  
Application October 13, 1953, Serial No. 385,739  
8 Claims. (Cl. 150—52)



1. In a protective cover for an automobile or other object: roller means carried by said cover adjacent an edge thereof and onto which the cover can be rolled in response to rotation of the roller means, said roller means including a plurality of axially aligned, axially spaced sections and end sections normally extending coaxially of said plurality of sections and connecting the same to provide a complete, uninterrupted roller, said end sections being removable in an axial direction to provide spaces between the ends of the first mentioned sections to allow folding of the rolled cover transversely of the axis of the roller means.

2,712,846

APPARATUS FOR MAKING A POWDER PUFF  
Lawrence J. Del Savio and John B. Del Savio, Bronx, N. Y., assignors to A. J. Siris Products Corp., New York, N. Y., a corporation of New York  
Application August 8, 1951, Serial No. 240,868  
4 Claims. (Cl. 154—1.8)

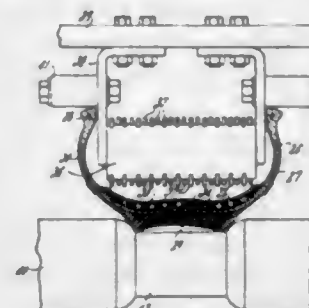


1. Apparatus for making a powder puff, including a die having a cavity shaped to form a layer into one side of the desired article and having an overhanging flange surrounding said cavity, and a former including a mount, a plurality of retracting and expanding fingers positioned on said mount to clear said flange when retracted and to define substantially the peripheral shape of said cavity when said fingers are expanded, said mount being movable relative to said die to move said fingers into said cavity and carry the layer therein, and means for expanding said fingers when they are in said die cavity, said fingers having ends fitting under said flange in said cavity.

2,712,847

## METHOD OF MAKING PNEUMATIC TIRES

Wilbur E. Harris, Indianapolis, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey  
Application November 25, 1952, Serial No. 322,505  
3 Claims. (Cl. 154—14)



1. A method of making a pneumatic tire comprising in combination the steps of building a raw tire casing

comprising an outer vulcanizable rubber tread and an inner carcass composed of vulcanizable rubberized fabric with a sheet of unvulcanized rubber applied to the central area of the raw carcass constituting the interior surface of the said casing, shaping and vulcanizing the resulting assembly while molding perforations in said sheet, subsequently placing a layer of puncture-sealant plastic over said perforated sheet, and forcing the sealant plastic into said perforations, whereby the sealant plastic is maintained in place in use by the restraining action of the thus-vulcanized perforated sheet on flow of the said plastic.

2,712,848

## SETS OF CHAIRS

Armin Wirth, Zurich, Switzerland  
Application October 16, 1951, Serial No. 251,469  
12 Claims. (Cl. 155—2)

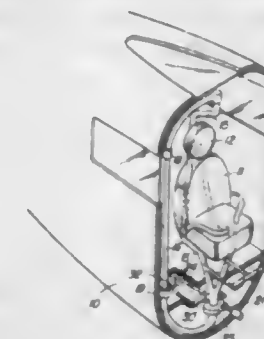


1. In a chair, two side frames, a rear frame, means connecting said side frames to said rear frame to form a rigid unit in which the sole connection between the side frames and the rear frame is at said rear frame, a foldable seat, and a back rest secured to said rear frame, the front portions of said side frames converging rearwardly in a horizontal plane and forming ground engaging and seat supporting elements, while the rear portions of said side frames converge rearwardly in a vertical plane.

2,712,849

## SEAT FOR HIGH SPEED CONVEYANCE

William Exton, Jr., New York, N. Y.  
Original application June 19, 1948, Serial No. 34,076.  
Divided and this application February 18, 1952, Serial No. 272,023  
5 Claims. (Cl. 155—14)



1. The combination with a seat having a back rest, means for rotatably supporting the seat from the body of a vehicle in a normally forwardly facing position, said means permitting limited forward movement of the seat on rapid deceleration of forward movement of the vehicle, and means effective on said forward movement automatically to rotate said seat into a rearwardly facing position, of a movable detent normally acting to secure said seat supporting means against forward movement when said seat is in its forwardly facing position, and resilient restraining means for said detent adapted to yield to permit movement of said seat only in response to inertia force of a predetermined minimum amount and to thereafter return said detent to its normal position, whereby upon such inertia force being exceeded said seat moves forwardly and is thereupon rotated by said rotating means into rearwardly facing position to interpose said back rest between the occupant of the seat and the



place toward which said force tends to move him, said seat being returnable to its forwardly facing position to again be restrained by said detent.

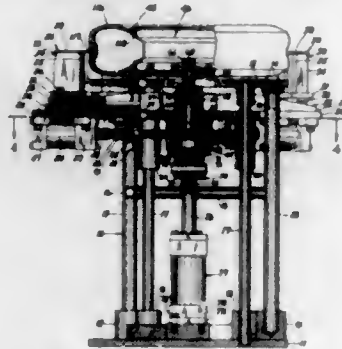
2,712,850

## TUBELESS TIRE ASSEMBLY MACHINE

Albert H. Rerick, South Bend, Ind., assignor, by mesne assignments, to Studebaker-Packard Corporation, a corporation of Michigan

Application July 13, 1953, Serial No. 367,519

3 Claims. (Cl. 157—1.1)



1. Apparatus of the class described for assembling tubeless tires on supporting vehicle wheels, comprising in combination, a ground engaging base, a planar table member supported in spaced parallelism over said base, a substantially cross-shaped fixture plate mounted beneath said table and having diametrically opposed arm portions extending outwardly of the periphery of said table, guide rail means extending between said table and base and having sliding connection with said fixture plate for guiding the same vertically toward and away from said table, piston and cylinder means for elevating and depressing said fixture plate vertically relative to said table, a plurality of tire engaging shoe assemblies, one slidably mounted at the outer end of each of said fixture plate's arm portions, piston and cylinder means for simultaneously moving said shoe assemblies radially with respect to said table's center, and wheel engaging lug means carried by said fixture plate and arranged to project upwardly through said table when said fixture plate is raised to an upper limit of travel; the arrangement being such that an assembled tire and wheel supported on said table is located concentrically thereof and aligned horizontally with respect to said shoe assemblies by the engagement of said lug means with the rim of the wheel so that the tire is engaged substantially at the crown of its tread portion and substantially throughout its circumference when said shoe assemblies are moved radially inward to a predetermined stop position.

2,712,851

## HEAVY DUTY METAL PARTING APPARATUS

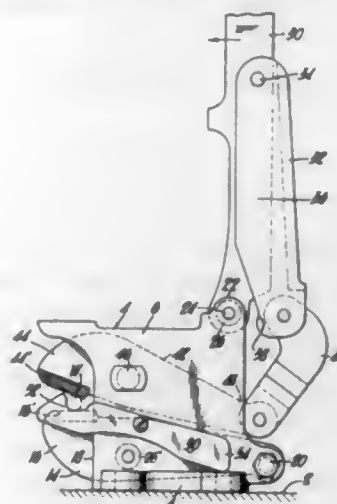
George L. Carter and Sebastian Junta, Pittsburg, Calif.

Application April 11, 1952, Serial No. 281,864

2 Claims. (Cl. 164—46)

1. A manually operable metal severing device comprising a frame, a blade fixed in said frame and projecting therefrom on one side, a second blade pivoted in said frame and projecting therefrom on said one side for cooperation with said fixed blade, said blades being disposed in the same vertical plane, an operating lever pivoted to the upper portion of said frame, said frame including a pair of spaced vertical walls, and a shaft extending through aligned holes in said walls for pivotally carrying said lever, said holes having counterbores on the inner ends thereof for seating the end portions of said shaft, a first link pivoted to said second blade, a second link pivoted at one end to said first link and at the other end to a point on said lever intermediate its ends, a cam surface exposed on the top of said frame adjacent the axis on which said lever is pivoted, said second link having a cam follower portion adjacent said one end thereof adapted to engage

and ride on said cam surface as said lever swings downwardly to move the projecting end of said pivoted blade toward the projecting end of said fixed blade to sever a



metal workpiece therebetween, the engagement of said cam projections by said cam follower portion as said lever swings downwardly increasing the leverage between the projecting ends of said blades.

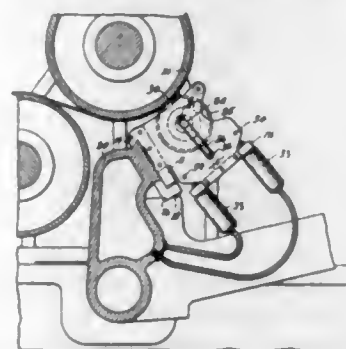
2,712,852

## CUTTER UNIT FOR SLITTING MACHINES

Thomas N. Carter, Watertown, N. Y., assignor, by mesne assignments, to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio

Application July 21, 1951, Serial No. 237,906

4 Claims. (Cl. 164—70)



1. A slitting unit for mounting in conjunction with a plurality of identical such units and a backing roll on a machine for slitting web materials to adapt such machine to making closely spaced cuts in such web materials, comprising a main body of substantially greater width from front to back than the thickness thereof, a cutter wheel, means on the back of said body for mounting said body on said machine in predetermined working relation with said backing roll, a support for said cutter wheel mounted on said body for movement with respect thereto carrying said cutter wheel toward and away from said backing roll in the mounted position of said unit, a lever for moving said support, pivot means adjacent one end of said lever, means located at positions adjacent both the front and back of said body for receiving said pivot means in a selected one of said positions with said lever in position to engage said support, a fluid pressure piston and cylinder forming an assembly of greater diameter than the thickness of said body for operating said lever, a piston rod projecting from said cylinder, and means located adjacent both of said pivot receiving means for selectively mounting said cylinder on said body with said piston rod in operating engagement with the opposite end of said lever from said pivot means and with its axis extending substantially in the plane of said cutter wheel to provide for mounting a plurality of said units in such close side by side relation that the respective said cylinders thereon are maintained in overlapping out-of-contact relation with each other by location alternately at the front and back of said plurality of units.

2,712,853

## PARAFFIN REMOVER

Stanley Irwin, Countyline, Okla.

Application August 14, 1950, Serial No. 179,276

1 Claim. (Cl. 166—175)



A device for removing deposits from the inside wall of a well pump tubing, said device comprising a tubular body adapted to be positioned in a well pump tubing surrounding the sucker rod of a well pump and having an inside diameter greater than the diameter of the rod, an annular, upwardly flared cutting edge on the upper end of the body and which fits closely within the tubing, a retainer member adjustably disposed on the rod above the body means carried by the retainer member and movable thereon and wedgingly engageable with the rod to clamp the member on the rod, said retainer member being engageable with the upper end of the body upon downward movement of the rod, said retainer member having external grooves forming passages whose lower ends open within said body when the retainer is in engagement with the body, and means on the rod beneath the body and engageable with the lower end of the body to close the same upon upward movement of the rod.

2,712,854

## ADJUSTABLE CASING CONNECTOR

Thomas A. Creighton, Long Beach, Calif., assignor, by decree of distribution, to Vera Neva Creighton

Application May 17, 1949, Serial No. 93,706

6 Claims. (Cl. 166—242)



1. A connector for joining sections of a casing string of an oil well permitting relative axial movement between sections of the string while the strata through which the string passes may shift, said connector comprising a mandrel provided with upper and lower clutch teeth, a body for telescopically receiving said mandrel having clutch teeth at the lower end thereof to receive the lower

clutch teeth of said mandrel and said body having clutch teeth at the upper end to receive the upper teeth of said mandrel said mandrel and said body being adapted to be connected to respective sections of the casing string, and frangible means for holding said mandrel and said body in spaced relation for limited axial movement in either direction, said frangible means when broken by the shifting of the strata adapting the engagement of the clutch teeth of said mandrel and said body to form a driven connection which is freely rotatable in either direction responsive to the rotation of the attached string.

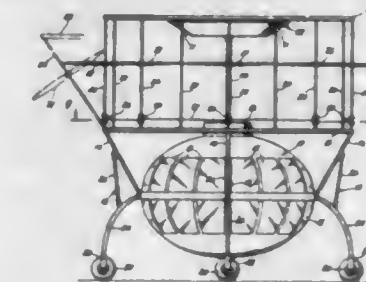
2,712,855

## AIRCRAFT LIFT-PROPULSION PROPELLER SYSTEM

Salvador Lightbourn, Los Angeles, Calif.

Application August 28, 1952, Serial No. 306,898

2 Claims. (Cl. 170—135.2)



1. An aircraft including a body portion, an engine supported by said body portion, upper and lower propeller shaft supporting rings which are shiftable laterally with respect to each other operatively connected to said body portion, a plurality of propeller shafts rotatably mounted between said upper and lower supporting rings at spaced intervals around said supporting rings, a plurality of propellers operatively mounted on the respective said propeller shafts and operative connections between the respective said propeller shafts and said engine.

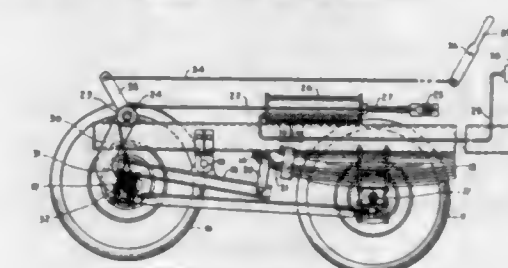
2,712,856

## RETRACTABLE DRIVE WHEEL LIFT AND HANGER

John H. MacPhee, James River Station, Nova Scotia, Canada

Application May 10, 1954, Serial No. 428,473

1 Claim. (Cl. 180—15)

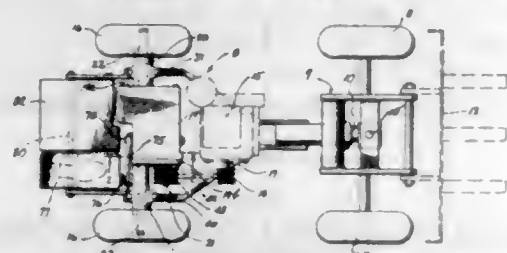


A retractable wheel drive for vehicles comprising a chassis, longitudinal beams pivotally suspended intermediate their length from said chassis, an axle attached to one end of said beams, drive wheel mounted on said axle, pulleys mounted on said chassis above said axle, cables attached at one end to said axles and trained over said pulleys, hydraulic means connected to the opposite ends of said cables for actuating the cables to raise and lower said axle, hangers pivotally suspended from said chassis above said axle having arcuate hooks at their lower ends adapted to engage beneath said axle when the axle is raised, the inner curved edge of the hooks having spaced arcuate notches for receiving and supporting said axle at different retracted positions and means for swinging said hangers into and out-of-engaging relation with said axle.



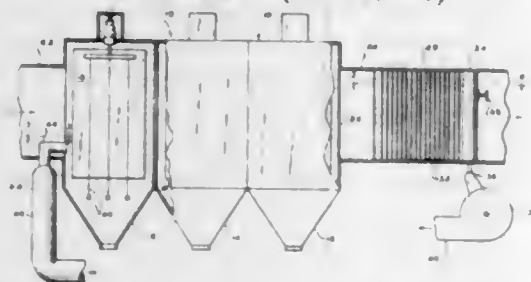
**2,712,857**  
**FORWARD AND REVERSE MEANS FOR THE**  
**DRIVING AND BRAKING OF INDUSTRIAL**  
**HAND TRUCKS**

Rodney Jackson, Seattle, Wash., assignor to  
 Paul J. Isaacson and F. T. Isaacson  
 Application July 30, 1951, Serial No. 239,281  
 1 Claim. (Cl. 180—70)



A truck of the class described having a chassis, and driving and supporting wheels, axially aligned driving axles for the driving wheels, a differential gearing interconnecting said axles, an engine for the propulsion of the vehicle, and a reversible power transmission and two-way braking means providing an operative connection between the engine and the differential gearing, and comprising a one-way engine driven shaft with two pinion gears fixed thereon, a clutch shaft operatively connected at one end portion thereof with said differential gearing, the engine shaft and clutch shaft being disposed parallel with the driving axles, the clutch shaft extending alongside one of said axles, a gear wheel revoluble about the clutch shaft and directly driven by one of said pinion gears, another gear wheel revoluble about the clutch shaft and spaced from the gear wheel on said shaft, said gear wheels being fixed on the shaft against movement longitudinally thereof, an idler gear providing a driving connection between the last mentioned gear wheel and the other pinion gear, two disk clutch assemblies mounted on the clutch shaft between the gear wheels and providing releasable driving and braking connections between the clutch shaft and said gear wheels, a clutch actuating member slidable longitudinally and keyed on the clutch shaft between the clutch assemblies and including oppositely facing clutch setting disks at its opposite ends, and a single control pedal mounted on the chassis for vertical rocking movement and operatively connected with said clutch actuating member whereby by rocking movement of the control pedal said clutch actuating member can be shifted longitudinally in opposite directions from a neutral setting of the same between and out of engagement with the clutch assemblies to selectively engage and energize the clutch assemblies for forward or reverse driving of the vehicle therethrough and to selectively engage the clutch assemblies with a variable braking pressure for retarding movement of the truck in either a forward or backward direction, and constitutes the sole means for braking the truck.

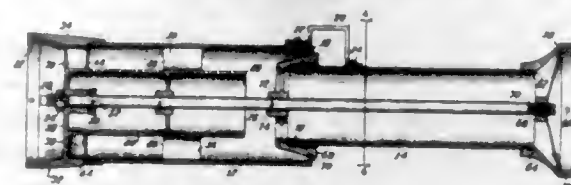
**2,712,858**  
**APPARATUS FOR SEPARATING SUSPENDED**  
**MATERIALS FROM GASES**  
 Harry A. Wintemute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York  
 Application August 19, 1952, Serial No. 305,138  
 3 Claims. (Cl. 183—7)



1. An apparatus for separating suspended particles from gases comprising an electrostatic precipitator in-

cluding complementary collecting and discharge electrodes, a particle receiving hopper beneath the complementary electrodes and a gas inlet and outlet means; a mechanical separator adapted to concentrate a portion of the suspended particles in a portion of the gas, conduit means directing a flow of gases through said mechanical collector and said electrostatic precipitator; and conduit means directing a stream of gas including the concentrated particles from the mechanical separator to the lower portion of the gas inlet to the electrostatic precipitator adjacent said receiving hopper.

**2,712,859**  
**CENTRIFUGAL GAS CLEANING DEVICE**  
 Harry A. Wintemute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York  
 Application April 30, 1952, Serial No. 285,094  
 2 Claims. (Cl. 183—80)

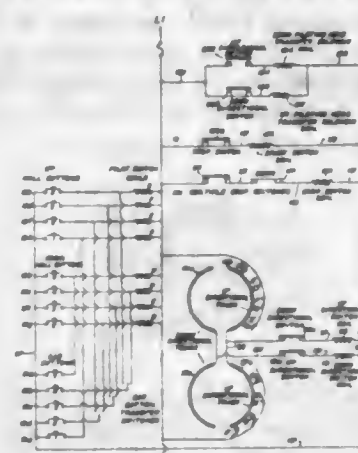


1. A centrifugal gas cleaning device comprising a tubular conduit member providing a gas swirling chamber, said conduit member having an open gas inlet end and an open gas outlet end, a discharge tube having an open gas inlet end and open gas outlet end and projecting coaxially into the outlet end of the tubular conduit member, means providing a restricted annular skimming orifice between said tubular conduit member and said discharge tube, said means providing the restricted orifice including a conical venturi skirt on the outside surface of the discharge tube substantially within the outlet end of the tubular conduit member, a rod member extending longitudinally through said tubular conduit member and said discharge tube, a head piece rotatable mounted on said rod member and shouldering against the gas inlet end of conduit member and a tail piece threadedly mounted on said rod member and shouldering against the gas outlet end of the discharge tube whereby the restricted annular skimming orifice between said tubular conduit member and said discharge tube may be varied by rotating said rod member, gas flow restricting means carried by said rod member in the tubular conduit member between the inlet end thereof and the inlet end of the discharge tube defining an annular passage for the flow of gas through the tubular conduit member and a radial passage for the flow of gas from said annular passage into the gas inlet end of the discharge tube, a first set of annularly arranged swirling vanes carried by said rod member in said annular passage adjacent the gas inlet end of the tubular conduit member, and at least one further set of annularly arranged swirling vanes carried by said rod member in said annular passage intermediate the first set of swirling vanes and the gas inlet end of the discharge tube.

**2,712,860**  
**CIRCULAR SELECTOR CONTROLS FOR**  
**AUTOMATIC ELEVATORS**  
 Alonzo W. Noon, San Diego, Calif., assignor to William P. Elser, San Diego, Calif.  
 Application October 15, 1951, Serial No. 251,303  
 9 Claims. (Cl. 187—29)

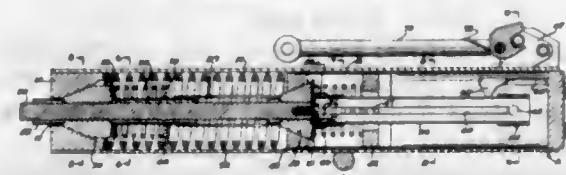
9. A control system for an elevator car, including a plurality of piloting switches, two piloting heads and two multiple stop switches with cams, said system comprising a circular plate having a hub, a drive shaft journaled in bearings in said hub, two circular carrying plates in spaced relation connected by studs and mounted to turn upon said drive shaft; two flat ring

shaped supports of insulating material secured to said studs, a pair of semi-circular directional tracks for starting and stopping the car mounted upon each ring shaped support, one track of each pair being insulated from the other; the said piloting switches being mounted upon the plate having a hub, and the piloting heads



being mounted upon the circular carrying plates; and means for electrically actuating and setting up said switches for starting and stopping the car, means for holding said switches in starting and running position, and retractable slide means for mechanically resetting said switches by action of the piloting heads.

**2,712,861**  
**AUTOMATIC BRAKE SLACK ADJUSTER**  
 Raymond H. Gaver, Warren, Ohio, assignor to The American Welding & Manufacturing Company, Warren, Ohio, a corporation of Ohio  
 Application November 1, 1951, Serial No. 254,358  
 4 Claims. (Cl. 188—199)

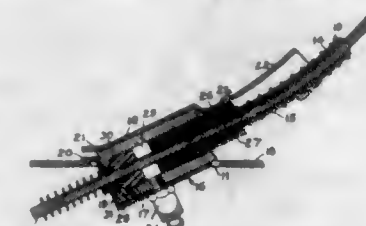


1. An automatic brake slack adjusted assembly comprising an elongated hollow body, a rack movable longitudinally in the body and extending through one end thereof for attachment to a brake rod, power jaw means in the body for locking engagement and travel with the rack relative to said body, stationary abutment means within the body and adjacent to the said one end thereof to engage and wedge said jaw means against the rack, take-up jaw means in the body for locking engagement and travel with the rack relative to the body, movable abutment means in the body to engage and wedge said take-up jaw means against the rack, and means extending longitudinally of the body and disposed therein in engagement with the power jaw means and the take-up jaw means for moving both said jaw means relative to the stationary and movable abutment means to release the rack for readjustment relative to both said jaw means.

**2,712,862**  
**BRAKE CABLE LUBRICATOR**  
 Robert C. Pemberton, Lansing, Mich.  
 Application February 4, 1950, Serial No. 142,429  
 3 Claims. (Cl. 188—205)

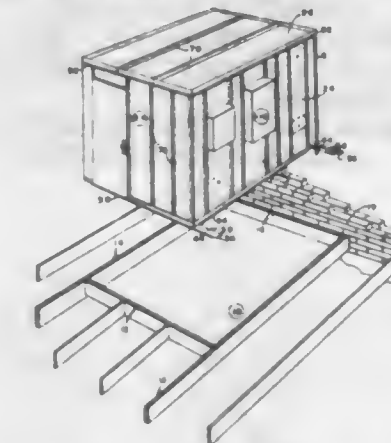
1. The combination with a brake backing plate having an opening therethrough, of an angularly disposed, substantially cylindrical lubricating and guide bracket comprising diagonally separable inner and outer sections bolted in position partially within said opening, a hand brake actuating cable extending through said bracket from end to end thereof, a sheath on the outer

end portion of said cable terminating within said bracket, the inner section of said bracket having an inner end wall with an opening therein for the passage of said cable, and having an elongated, integral, semi-cylindrical extension curving outwardly relative to said backing plate to guide said cable, a tubular, hard metal sleeve in said bracket receiving one end of said sheath and having an inner end wall, the bore of said sleeve terminating in a conical seat adjacent the end wall of said sleeve, the end wall of said sleeve having a reduced opening relative to the bore of said sleeve for passage of said cable therethrough of greater diameter than said cable to define a clearance therearound, a packing gland encircling the end



of said sheath and in fluid-tight engagement with said sleeve and sheath, an incompressible, deformable rubber gland spaced from said first-mentioned gland and shaped to form a lubricant chamber therebetween, said gland being formed with a conical end wall disposed in the inner end of the bore of said sleeve opposite said first-mentioned gland and wedging into said clearance to grip and immobilize said cable and seal off the inner portion thereof when grease under high pressure is forced into said chamber, and a grease nipple mounted on the wall of said inner bracket section within said backing plate and extending through said inner section and said sleeve to communicate with said chamber and permit grease, under pressure, to be forced thereinto.

**2,712,863**  
**PREFABRICATED BATHROOM UNIT**  
 Frank W. Busch, Mount Washington, Ohio  
 Application April 16, 1949, Serial No. 88,000  
 3 Claims. (Cl. 189—2)



1. A prefabricated bathroom unit associated with and spanningly engaging at least three sides of a room-supporting, well-defining structure, said unit comprising a load-bearing, support-spanning, substantially continuous base member including horizontal legs which overlappingly engage the upper portions of the sides of said structure, and vertical legs depending therefrom adapted to be received within said structure in close proximity with said sides of said structure, vertical channels the lower ends of which are secured to and carried by those portions of said horizontal legs remote from said vertical legs, a floor spanning said base member and overlappingly engaging those portions of said horizontal legs substantially over said vertical legs, side walls suspended from the tops of said vertical channels, the bottom edges of said side walls terminating adjacent said horizontal legs between said vertical channels and the edges of said floor.



2,712,864

## GROUND ANCHOR

Merton L. Clevett, Jr., Jeffersonville, Ind., assignor to the United States of America as represented by the Secretary of the Army

Application October 3, 1952, Serial No. 313,090

2 Claims. (Cl. 189-90)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A device of the character described comprising a relatively thin and generally flat triangular plate, a relatively thick conically tapered rib formed integral with the triangular plate and extending from one corner of the same to the longitudinal center of the opposite edge of the plate, the rib tapering toward said corner and having its larger end arranged adjacent to said opposite edge of the plate, the rib projecting beyond the opposite sides of the triangular plate near the center of its area for substantial distances and being rounded outwardly of said opposite sides of the plate, the plate being provided centrally with a pair of transversely arranged openings extending therethrough normal to the plate on opposite sides of said rib and substantially tangent to the rib, and a flexible connecting element engaging through said openings and looped about a curved side of said rib transversely of the rib and held thereby against abrupt bending, said flexible element extending beyond the opposite side of the plate for attachment to a member to be anchored.

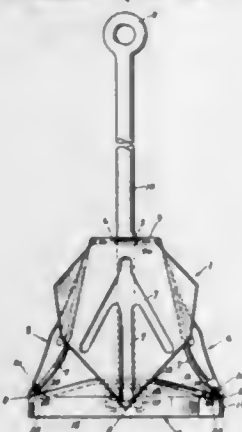
2,712,865

## GROUND ANCHORS

Alwin G. Steinmayer, Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application October 10, 1951, Serial No. 250,598

5 Claims. (Cl. 189-92)



1. In an earth anchor including a base plate, an anchor rod secured to said base plate, a blade structure seated on said base plate and having a central opening through which the anchor rod extends, said blade structure being integrally formed of a square blank of sheet metal, said blank having a generally triangular recess in the mid-portion of each side thereof, and a slot extending inwardly from the apex of each said recess, said recesses and slots defining the inner side marginal portions of four blades whose longitudinal axes extend diagonally of the blank, said inner side marginal portions being upturned whereby they embrace the overlying earth and resist re-

moval of the embedded anchor from the earth, and said blades being bent downwardly from apertured sides of a diagonally disposed, square central portion of the blank.

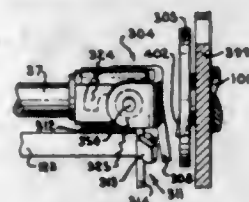
2,712,866

## LATCH OPERATED POSITIVE CLUTCH

Raul G. Llata, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application September 16, 1950, Serial No. 185,223

5 Claims. (Cl. 192-22)



1. In a unidirectional cyclic clutch of the character described, the combination which comprises a driving shaft, a coupling arm extending across the end of said shaft and pivotally mounted thereon about an axis substantially at right angles to the axis of the said shaft, detent means normally operable to retain and hold the said arm selectively in an active and in an inactive adjusted position, a driven clutch disk having an open clutch-engaging pocket therein, the said disk being mounted for rotation about an axis substantially aligned with the axis of the said shaft and in predetermined close proximity to the said coupling arm, the disk along the trailing edge of said pocket being bent inwardly from the plane of said disk toward said shaft, and means operable to move the said arm into and out of the plane of said pocket in the said disk to determine engagement and disengagement of the said clutch selectively.

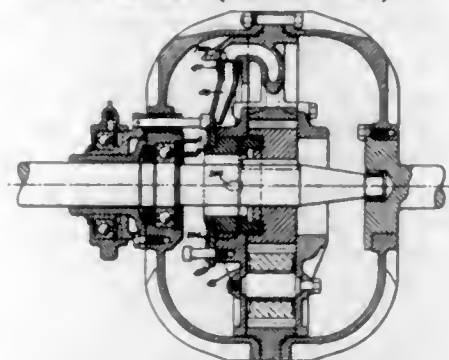
2,712,867

## VARIABLE SPEED HYDRAULIC CLUTCHES

John R. Thomas, Wichita, Kans., assignor to Thomas Hydraulic Speed Controls, Inc., Wichita, Kans., a corporation of Kansas

Application September 3, 1954, Serial No. 454,155

13 Claims. (Cl. 192-61)



1. In a clutch of the character described having a plurality of fluid intake circuits and a plurality of fluid discharge circuits each having respectively an inlet opening and an outlet opening, including an axially movable fluid flow control instrumentality provided with a plurality of intake control valves for said inlet openings and a single discharge control valve for said outlet openings, said valves being concurrently movable during axial movement of the instrumentality and said inlet and outlet openings being of such configurations and so arranged axially of the clutch that in the progressive axial movement of the instrumentality each intake control valve is progressively movable to uncover a progressively increased open area of its corresponding inlet opening throughout its entire range of movement while simultaneously said discharge control valve traverses uniform open areas of said outlet openings during a predetermined initial portion of its range of movement and thereafter traverses progressively decreased areas of said outlet

openings during the remaining portion of its range of movement until fluid discharge therefrom is completely arrested whereupon the intake circuit inlet openings are fully open to the inflow of oil.

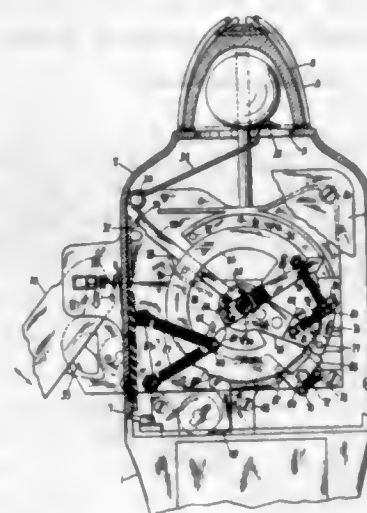
2,712,868

## PARKING METER

Edwin H. Allen, Jr., Cameron, Mo., and Adolph E. Yoss, Benton, Ill., assignors to J. W. Menhall, Benton, Ill.

Application October 5, 1950, Serial No. 188,564

14 Claims. (Cl. 194-78)



1. A parking meter of the class described, in combination, a clock mechanism having a winding arbor associated therewith, means for winding said arbor, an actuator carried by the arbor for rotative movement therearound, a timing plate carried by said arbor for rotative movement relative thereto adapted to operate said winding means and said timing plate having a plurality of teeth formed therein, said winding means including instrumentalities for disengageably connecting said means and timing plate, a slide adapted to impart rotative movement to the actuator, means for reciprocating the slide, and means carried by the actuator for engagement with the teeth of the timing plate, when the said timing plate and arbor are in different rotative positions, said means carried by the actuator being adapted to initially rotate said timing plate without engaging said teeth.

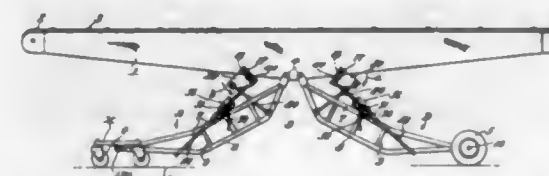
2,712,869

## ADJUSTABLE UNDER-CARRIAGE CONSTRUCTION FOR PORTABLE CONVEYORS

Vernon C. Belt, Orient, Ohio, assignor to The Belt Corporation, Orient, Ohio, a corporation of Ohio

Application April 25, 1952, Serial No. 284,394

12 Claims. (Cl. 198-118)



1. In a portable loading machine having an elongated conveyor, an under-carriage for the adjustable support of said conveyor, said under-carriage embodying a pair of frames, each of said frames including a longitudinal extending body portion which with respect to said conveyor is terminated at opposed ends thereof in laterally directed extensions disposed in angular relationship to the body of each frame, ground-engaging wheel means carried by the outer ends of said frames, means pivotally connecting the inner angularly extending ends of said frames in adjoining but longitudinally spaced order to said conveyor intermediately of the length of the latter, and kinematic linkage pivotally uniting intermediate portion of said frames with said conveyor outwardly and on opposite sides of the pivotal means join-

ing the inner ends of said frames with said conveyor, the angularity of the outer ends of said frames and the adjustment provided by said linkage serving to admit of the adjustment of the frames between working positions in which the body portions of the frames engage directly with the ground surface in supporting said conveyor with the wheel means on the outer ends of said frames spaced above said ground surface, and extreme positions of tilt of the conveyor in which the latter is disposed in acute angular relationship with respect to a horizontal ground surface.

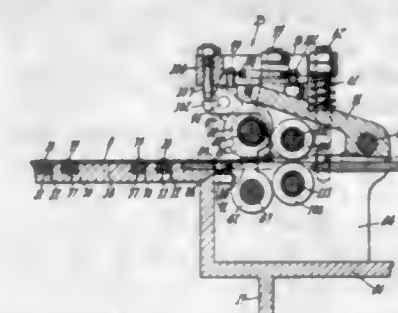
2,712,870

## SHEET FEEDING AND DOUBLE SHEET EJECTING MECHANISM

Nelson Geertsens, Oak Park, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application October 27, 1953, Serial No. 388,509

10 Claims. (Cl. 209-91)



1. In a mechanism for feeding sheets and for segregating abnormal sheets, the combination of a support for a sheet, a pair of continuously rotating ejecting rollers disposed adjacent said support in line with and in remotely spaced relation to an edge of a sheet on said support for the passage of an abnormal sheet therebetween, and a pair of continuously rotating detecting rollers disposed adjacent said support in line with said ejecting rollers and arranged adjacent opposite faces of a sheet on said support, said detecting rollers having opposed projecting peripheral segments spaced apart a distance sufficient to clear a normal thickness sheet on said support without disturbing the sheet, said distance being less than the thickness of an abnormal sheet so that said peripheral segments frictionally engage an abnormal sheet between them and feed said abnormal sheet into the grip of said ejecting rollers for ejection from said support.

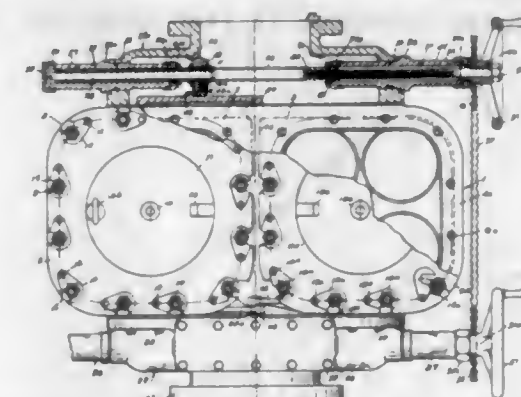
2,712,871

## DUPLEX STRAINER

John H. Schmid, Erie, Pa., assignor to J. A. Zurn Mfg. Co., Erie, Pa., a corporation of Pennsylvania

Application June 2, 1951, Serial No. 229,606

4 Claims. (Cl. 210-168)



1. A multiple strainer comprising a casing having a plurality of compartments, each compartment having an inlet on one side thereof and an outlet on the opposite side thereof, said inlet and said outlet being substantially in alignment with each other, a partition in each compartment attached to the walls thereof and disposed



between said inlet and said outlet of each compartment, said partitions inclined upwardly from the bottom of said inlets to the tops of said outlets, a plurality of spaced apertures formed in each said partition, said apertures in each plate being disposed in alignment with one of said inlets and one of said outlets, a strainer basket in each said aperture, the tops of said strainer baskets being inclined parallel to the inclination of said baffle with the upper edges thereof disposed adjacent said partition, said strainer supported on said partition extending downward from said partition and terminating at the lower end thereof in spaced proximate relation to the bottom of said casing, said casing having an opening in the top of each compartment with covers removably supported thereover, valves for selectively closing said inlet and outlet apertures in each of said compartments and means for operating said valves.

2,712,872

## ARTICLE OF FURNITURE WITH REMOVABLE SUPPORTING STRUCTURES

Emil A. Kann, Kew Gardens Hills, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware

Application June 19, 1952, Serial No. 294,459  
3 Claims. (Cl. 211-148)



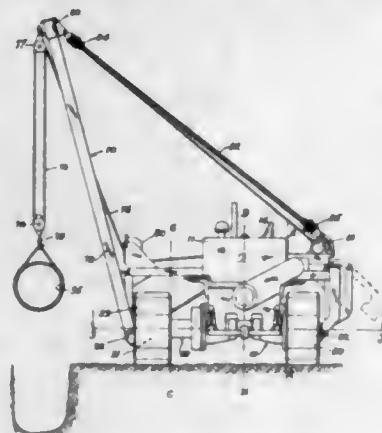
1. A shelf structure including a plurality of horizontally arranged vertically spaced panels for supporting articles thereon, side walls rigidly connecting said panels, a support therefor including a plurality of vertically spaced vertically disposed panels, two of said horizontally disposed panels extending inwardly between and beyond said vertical panels with one of the horizontally arranged panels resting upon one of the vertical panels and with said side walls abutting against the outer face of one of said vertical panels, said horizontal panels having aligned openings in the inner edge portions thereof beyond said vertical panels, and pins extending through said openings and abutting against the inside faces of the vertical panels for attaching the shelf structure thereto.

2,712,873

## PIPE LAYING TRACTOR

Robert A. Peterson, San Leandro, Calif., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California

Application November 22, 1949, Serial No. 128,889  
3 Claims. (Cl. 212-3)



1. A tractor adapted to raise, carry, and lower heavy objects beyond one edge thereof, comprising a body mem-

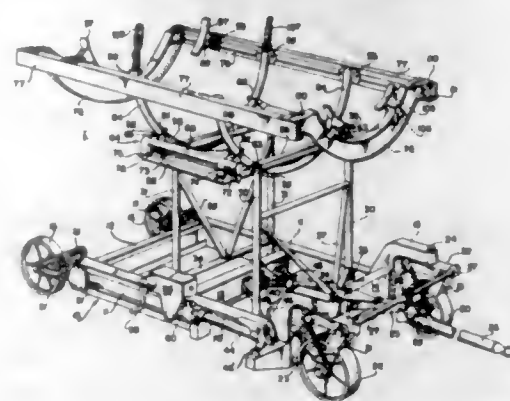
ber including a source of motive power and controls therefor; mobile means extending fore and aft on each side of said body member giving four point support to said body member and on which it is able to be moved over the ground, the fore and aft extending mobile means on one side thereof being spaced close to said body member and the other of said fore and aft extending mobile means being spaced outwardly a substantial distance away from said body member; a boom pivoted to said tractor on said outwardly spaced fore and aft extending mobile means and extending outwardly sidewise beyond the edge of said tractor and said outwardly spaced mobile means; a winch mounted on said tractor and extensible lifting means connecting said boom to said winch.

2,712,874

## PORTABLE AIRCRAFT LIFTING CRADLE

Robert H. Murray, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application May 12, 1950, Serial No. 161,704  
5 Claims. (Cl. 214-1)



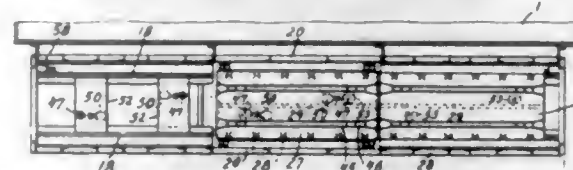
1. An object handling dolly comprising a wheeled base, an upper structure, lever means coupling the upper structure with the base for vertical movement relative thereto, means on the base for raising said structure, a carriage supported on said structure for lateral translation, and a cradle on the carriage including longitudinally extending hollow beams having slots in their walls, object supporting pads, blocks in the beams, and bolts passing through the slots from the blocks to the pads for securing the pads to the beams.

2,712,875

## GARAGE CONSTRUCTION

Leon Leopold, New York, N. Y.

Application August 15, 1952, Serial No. 304,543  
6 Claims. (Cl. 214-16.1)



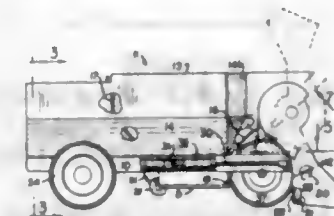
1. An automobile storage structure comprising an elevator shaft and storage spaces for cars arranged in vertical series alongside said elevator shaft, an elevator in said shaft, dollies for the automobile to be stored and means for shifting said dollies to and from the elevator and the storage spaces comprising racks on said dollies, a movable gear on said elevator, means for shifting said gear from a position wholly within the elevator shaft to a position wherein said gear engages a rack on a dolly on the elevator and projects beyond said elevator shaft and into the adjacent storage compartment and means for rotating said gear in such position to thereby shift said dollies from a position wholly within the elevator shaft to a position in the storage compartment and wholly beyond the elevator shaft.

2,712,876

## SELF-LOADING AND DUMPING VEHICLE

Christian G. Kuehn, Jr., La Paz, Bolivia

Application March 31, 1952, Serial No. 279,609  
6 Claims. (Cl. 214-78)



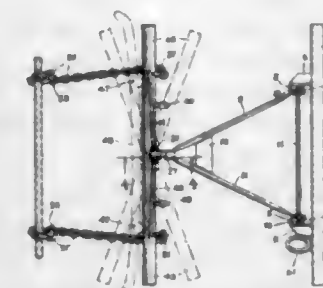
1. A material handling device having a scoop-end, comprising; a bin having an inclined portion projecting over the scoop-end of the device, scoop means pivotally carried by and on a fixed axis adjacent the scoop end of the device for movement between a lowered position wherein it may load material and a raised position gravitationally directly over the lowered position wherein it may unload the material into the bin, two pairs of wheels supporting the bin, each pair of wheels including differential gearing means for driving same, and one pair of wheels being steerable, first rotatable reversible hydraulic motor means operatively connected to the differential gearing for one pair of wheels, second rotatable reversible hydraulic motor means operatively connected to the differential gearing for the other pair of wheels, a liquid pump carried by the device for circulating liquid under pressure through the first and second motor means and back to the pump, means carried by the device for operating the pump, and control means carried by the device for supplying the first and second motor means with liquid for flow therethrough in either of opposite directions, whereby the first and second motor means may be reversed and the wheels rotated in either of opposite directions of rotation.

2,712,877

## AUTOMATICALLY COUPLING WRECKING TRUCK TOWING ATTACHMENT

Mike M. Wiley, Nashville, Tenn.

Application April 30, 1952, Serial No. 285,102  
7 Claims. (Cl. 214-86)



1. A towing device, comprising: a relatively rigid towing member for holding the lifted end of a towed vehicle at a desired distance behind a tow-truck; mounting means for said towing member adapted for firm attachment to rear structure of a tow-truck; co-acting journal and bearing means pivotally connecting the forward end of said towing member to said mounting means for rotation about a substantially horizontal axis; an elongated flexible hoist member having means at its upper end for quickly detachable connection with a crane cable; means connecting said flexible hoist member to said towing member near the rear end of the latter; a coupling device adapted for attachment to an end of a vehicle to be towed, said coupling device including a loop means having a relatively smooth, rounded, low-friction inner surface and thru which said flexible hoist member can be passed and pulled; whereby the vehicle to be towed may be drawn toward the tow truck by the sliding of said flexible hoist member thru said loop means until said coupling device

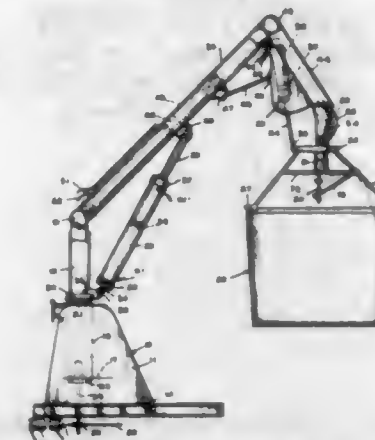
engages said towing member, and then be lifted by said coupling device along with the rear end of said towing member to a desired towing height.

2,712,878

## MATERIAL HANDLING DEVICE

Ernest B. Sutton, Polk City, and Carol M. Dunham, Kissimmee, Fla.

Application January 8, 1953, Serial No. 330,196  
2 Claims. (Cl. 214-313)



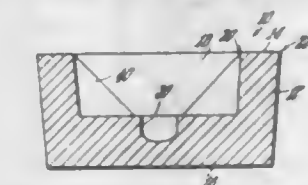
2. Apparatus for handling material in which the material is disposed in open top containers having inwardly extending ledge portions adjacent their upper ends within the outline of the containers so that the containers may be positioned in side-by-side abutting relation, a frame having means for engaging a ledge portion of a container, means movably mounted on said frame for engaging an opposite ledge portion of the container and movable into and out of operative position on said opposite ledge portion, means to support said frame for vertical and lateral movement, power means for causing vertical and lateral movement of said support means, additional power means to move said movably mounted means on said frame into and out of engagement with the opposite ledge portion of the container, other additional power means reacting between said support means and said frame for tilting said frame and the ledge engaging means thereon to move the container from an upright position retaining fluent material to a tipped position whereby the fluent material will fall by gravity from said container, and control means for actuating said power means to perform all of the functions without manual handling of the container.

2,712,879

## RUPTURABLE BUNG

William G. Curry, Agawam, Mass., assignor to Norman Parke Company, Chicopee, Mass., a corporation of Massachusetts

Application May 20, 1952, Serial No. 288,864  
2 Claims. (Cl. 217-110)

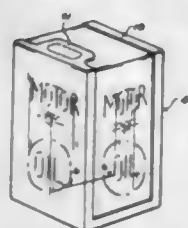


1. A bung for the bung hole of a cask or the like adapted to be ruptured by a tool comprising, an elongated cylindrical body having a longitudinal axis and provided with upper and lower faces and with downwardly converging outer sides, said body provided with an annular depression and a socket and parallel slots, said depression extending downwardly from the upper face of the body and terminating in a bottom spaced upwardly from the lower face of the body, said socket having an open upper side and extending downwardly from said bottom on the longitudinal axis of the body, said depression having sides converging inwardly and downwardly from the



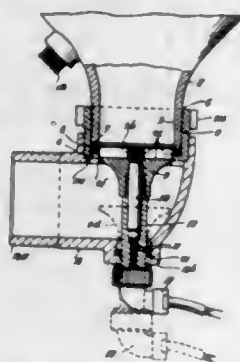
upper face of the body and terminating at the bottom thereof around the said socket and having an upper peripheral edge spaced radially inwardly of the peripheral edge of the upper face of the body, said slots extending downwardly from the upper face of the body through the sides of the depression and being disposed in a plane extending through the longitudinal axis of the body and terminating at said bottom.

**2,712,880**  
**DUO-PART CONTAINER**  
George Arlington Moore, New York, N. Y.  
Application April 19, 1952, Serial No. 283,217  
6 Claims. (Cl. 220-4)



6. A rectangular metallic liquid dispensing container including an assembly of two pre-formed and reversely telescoped U-shape parts, each having an end wall and two opposed side walls, the inner part having continuous marginal flanges bent inwardly at substantially right angles to its side and end walls, the said flanges being disposed in bonded engagements with inner wall portions of the outer part, the said outer part having continuous marginal flanges bent inwardly at substantially right angles to its side and end walls, the said flanges being disposed in bonded engagement with outer wall portions of the said inner part, the said bonded flange and wall junctional engagements being structurally constituted to re-enforce the container in co-operation with an end wall adapted to be opened by piercing the said wall for container dispensing purposes.

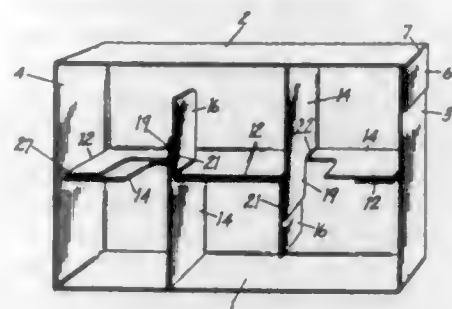
**2,712,881**  
**STOPPERING AND OPENING DEVICES FOR FLUID CONTAINERS**  
Anders Mathisen, St. James's, London, England, assignor of one-half to Gravier Manufacturing Company Limited, London, England, a British company, and one-half to The Wilkinson Sword Company Limited, London, England, a British company  
Application May 23, 1951, Serial No. 227,839  
25 Claims. (Cl. 220-47)



23. A stoppering and opening device for a fluid container provided with at least one discharge outlet, comprising a cover member extending substantially across such discharge outlet, said cover member having an outer portion and an inner portion radially inwardly of the outer portion and hermetically connected thereto by a frangible portion, said inner portion having a cavity whose walls, at least in part, project into said container to be surrounded by the fluid, said projecting walls being yieldable in the direction of said fluid in response to a given rise in pressure within said cavity, and an explosive charge positioned and proportioned within said cavity

so as to produce upon ignition an explosive force providing said given rise in pressure within said cavity which acts through said yieldable walls against the fluid and thereafter against said inner portion to sever said frangible portion.

**2,712,882**  
**COLLAPSIBLE PARTITIONED CARTON**  
Kenneth T. Buttery and Thomas Vander Lugt, Jr., Kalamazoo, Mich., assignors to Sutherland Paper Company, Kalamazoo, Mich.  
Application May 19, 1951, Serial No. 227,204  
5 Claims. (Cl. 220-113)

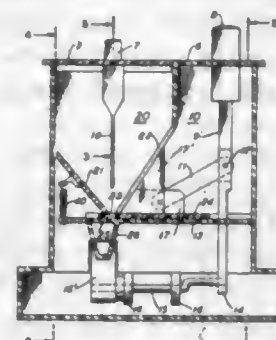


1. A collapsible partitioned carton formed of an integral blank and comprising hingedly connected side and end walls disposed in alignment in the blank, there being a sealing flap hingedly connected to the wall at one end of the blank and adhesively secured to the wall at the other end of the blank, complementary side and end bottom members hingedly connected to the bottom edges of the side and end walls, longitudinal partition members hingedly connected to the swinging edges of the side wall bottom members and having integral transverse partition elements hingedly connected thereto and defined by laterally facing U-shaped slits spaced from the top, bottom and side edges thereof, and transverse partition members hingedly connected to the swinging edges of the end wall bottom members and having glue tabs defined by U-shaped slits spaced from the top, bottom and side edges thereof, the transverse partition members having hinging scores between the ends of their said glue tabs and the top and bottom edges of the transverse partition members, the longitudinal and transverse partition members being disposed in pairs, each pair comprising a longitudinal and a transverse partition member having a folding connection therebetween and being folded upon each other and adhesively secured together adjacent their folding connection with their said glue tabs adhesively secured to said transverse partition elements whereby each glue tab and the partition element adhesively connected thereto move as a unit from a plane approximately parallel to the longitudinal partition member to which the partition element is hingedly connected to a position approximately at right angles thereto when the carton is moved from a collapsed to an erected position and whereby the transverse and longitudinal partition members bracingly support each other when the carton is erected, the partition members of each pair having registering hand openings and being adhesively secured together at least partially around the hand openings, the hand openings of the pairs registering when the carton is erected.

**2,712,883**  
**DISPENSERS**  
Augustus Esposito, Irvington, and Anthony Galantino, Orange, N. J.  
Application March 13, 1951, Serial No. 215,281  
5 Claims. (Cl. 221-201)

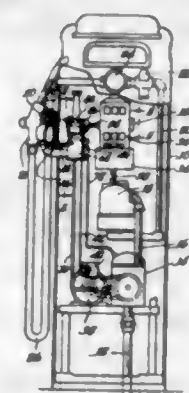
1. A dispenser for slender articles comprising a box, having a hopper therein with sloping side walls defining a slot of variable width, a fixed shelf member in said box having a fixed transverse slot, one of said sloping

walls having a horizontal base plate with a transverse fixed slot offset from said slot in the shelf, pivoted means for sliding said base plate on said shelf to align said fixed slots, the other sloping side wall being mounted in the box to slide in its own plane and having a yieldable



means connecting it to said shelf member whereby articles of varying cross-section may rest in the slot of the moving base plate and lift said yieldable wall when passing thereunder and a receptacle depending from said shelf member to receive articles dropped thru said slots.

**2,712,884**  
**DISPENSING PUMP RESET MECHANISM**  
Burdette W. Foss, Fort Wayne, Ind., assignor to Tokheim Corporation, a corporation of Indiana  
Application December 9, 1948, Serial No. 64,397  
17 Claims. (Cl. 222-2)

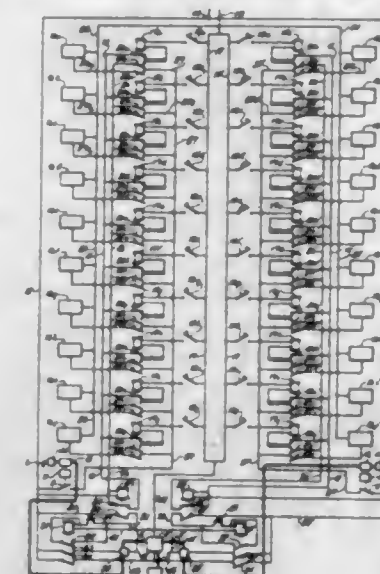


1. A liquid dispensing apparatus comprising a dispensing line adapted to be connected to a source of liquid supply, a pump for propelling liquid through the dispensing line, dispensing control means for controlling the passage of liquid through said line, a motor for operating the pump, a meter operable in accordance with the liquid propelled through the line, a register operated by the meter and having a reset shaft, hydraulically operable reset mechanism for the register powered by the motor, and means operated by said reset shaft for operating said dispensing control means to prevent dispensing until completion of the operation of the reset mechanism.

**2,712,885**  
**SELECTIVE FLUID METERING SYSTEM**  
John T. Winship, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio  
Application May 10, 1949, Serial No. 92,430  
5 Claims. (Cl. 222-26)

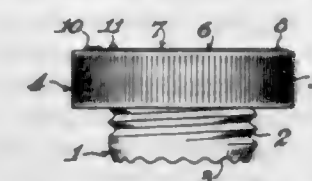
1. A selective metering system for a material dispensing apparatus, including, material discharging means, means for establishing electrical signals proportional to the quantity of discharging material, a plurality of volume registering devices responsive to said electrical signals to record the quantity of discharging material and electrical connections between said volume registering devices and said signal establishing means, a plurality of multiple contact first relays, one relay being associated with each of said volume registering devices, each of said relays including a coil, a first set of normally

closed contacts and second and third sets of normally open contacts a plurality of selectively operable normally open key-operated switches respectively disposed in series with the coils each of said relays and a source of electrical energy and adapted upon closing to actuate one relay, means connecting both the first and second sets of contacts of each of said first relays in series circuits, each including the corresponding key-operated switch, relay coil and a source of electrical energy, second relay means having a coil connected in series



with the said second sets of relay contacts, means connecting each of the third set of contacts in a series circuit including the corresponding registering device and said means for establishing electrical signals proportional to the discharge of the material, and a first set of normally open contacts adapted to be closed on energization of said second relay coil and connected in a series circuit including a source of electrical energy and means for establishing a flow of material from said discharge means.

**2,712,886**  
**CLOSURE AND POURING DEVICE FOR CARTONS AND LIKE CONTAINERS, HAVING A CUTTING EDGE FOR OPENING THE CONTAINER**  
Ernest Anthony Young, Kingston, British West Indies  
Application June 14, 1951, Serial No. 231,475  
Claims priority, application Great Britain December 19, 1950  
5 Claims. (Cl. 222-91)



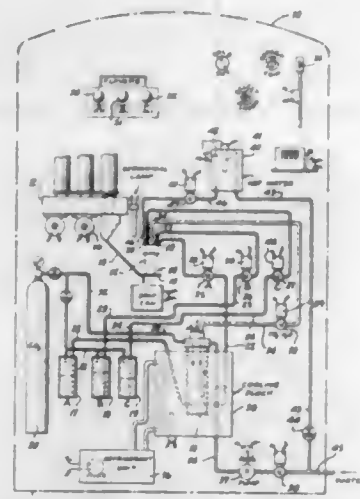
1. Stopper and pouring device comprising a thin walled cylindrical plug, a cutting edge at the lower end of the plug, a head at the upper end of the plug said head consisting of a flange ring part around the open upper end of the plug and a downturned peripheral wall around said ring part, a closure disc pivoted on said ring part, means for retaining said disc in position on the head to close the open upper end of the plug, and a screw threaded exterior on said plug below the plane of the lower end of the wall.

**2,712,887**  
**BEVERAGE DISPENSING MECHANISM**  
William V. King, Brooklyn, N. Y., assignor, by mesne assignments, to Rowe Spacarb, Inc., New York, N. Y., a corporation of New York  
Application August 1, 1949, Serial No. 108,005  
6 Claims. (Cl. 222-132)

1. In a beverage dispensing machine, a plurality of flavor containers, a first beverage component supply, a



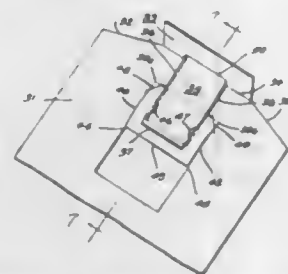
second beverage component supply, a beverage dispensing mechanism, a first selecting means, a second selecting means, means responsive to the actuation of the first selecting means for controlling the flow of one of said flavors and one of said components to said dispensing



mechanism, means responsive to the actuation of the other of said selecting means for controlling the flow of one of said flavors and the other of said components to said dispensing mechanism and means responsive to the actuation of one of said selecting means for preventing the operation of the other of said selecting means.

#### 2,712,888 SHIRT SUPPORT

Joseph Lepore, Dover, N. J., assignor to David D. Doniger & Co., Inc., New York, N. Y., a corporation of New York  
Application November 20, 1951, Serial No. 257,324  
18 Claims. (Cl. 223-71)



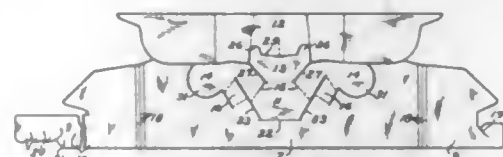
1. A shirt-support including a body and a collar-prop hingedly secured to said body, a stay having a portion thereof in contact with said body and a portion thereof in contact with said prop, said stay constructed and arranged movably to support said prop relative to said body, said body, prop and stay constructed and arranged whereby the distance between the body-contacting portion and the prop-contacting portion of said stay is changeable when said prop is pivoted about said body, said stay being elongated and having one end pivotably secured to said prop and the other end in sliding frictional engagement with said body, a tab secured to said body, said tab constructed and arranged to be pivoted about a line parallel to the hinge-line between said body and said prop, said tab having a slit therein disposed generally parallel to the hinge-line between said body and said prop, and the body-contacting portion of said stay constructed and arranged to pass through said slit.

#### 2,712,889 FOLDED SHIRT COLLAR PROTECTOR

Stephen Lighter, Whitefish Bay, Wis., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan  
Application February 4, 1952, Serial No. 269,832  
2 Claims. (Cl. 223-83)

1. In a unitary protector for the collar of a folded soft collar shirt, a main plate formed to snugly span and pro-

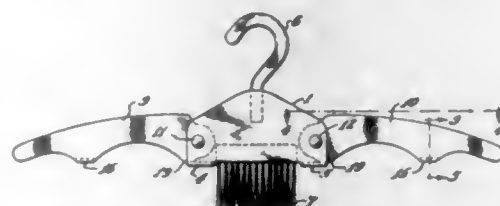
tect the upper bosom of the folded shirt and having an upwardly swingable approximately hexagonal panel the lower bounding edge of which is hingedly connected to the main plate for abruptly inclined disposition at an angle relative to the latter and for coaction with the front outer part of the neck band of said shirt, a clamping plate foldable within the interior of the neck band and having its medial portion swingably connected to the uppermost bounding edge of said hexagonal panel, a flat shelf of



extensive area connected by a hinge line directly to each of the opposite upper side bounding edges of said hexagonal panel, and an elongated hinge connecting the lower medial portion of each of said shelves with said main plate independently of said hexagonal panel, said elongated hinges and said panel being formed and operable to elevate the free ends of said shelves into supporting engagement with the upper front areas of the shirt collar above the lapel tips.

#### 2,712,890 COMBINATION COAT HANGER AND CLOTHES BRUSH

William B. Schaefer, Cincinnati, Ohio  
Application January 26, 1953, Serial No. 333,051  
1 Claim. (Cl. 223-94)



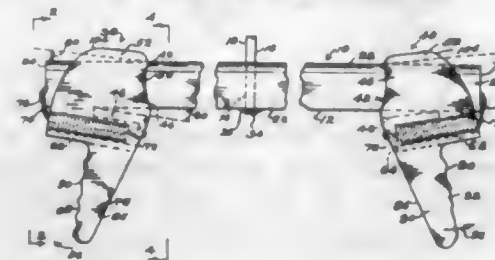
In combination in a device for the purposes described, an elongated body comprising an opposed pair of spaced apart sides joined together along their lower edges by connecting pieces extending inwardly from the ends thereof, said connecting pieces being relatively short and defining a centrally disposed opening in the bottom of said body, a bristle brush mounted in said opening and extending downwardly from said body, a rigid hook element having its base fitted between the sides of said body and extending upwardly therebeyond, arms pivoted to the opposite ends of said body and adapted to extend outwardly therebeyond, said arms having their inner ends fitted between the sides of said body and pinned thereto, said arms comprising members generally U-shaped in cross section defining upwardly opening pockets and including abutments adapted, in the extended position of said arms, to contact the connecting pieces of said body to establish the extended position of said arms, said arms being movable from an extended, generally horizontally disposed position to an upright position in which said hook is received in said pockets and said arms are in substantially contacting relationship, the lower surfaces of said arms being of irregular configuration, whereby when said arms are brought together they define a convenient gripping handle for said bristle brush.

#### 2,712,891 GARMENT HANGER

Otto Basil Mantell, New York, N. Y.  
Application July 22, 1953, Serial No. 369,680  
1 Claim. (Cl. 223-95)

A clothes hanger comprising a main rail which is elongated in principal dimension, and includes a pair of substantially parallel side walls interconnected at their

bottom by a floor wall, and interconnected at their upper ends by an arcuate shaped top wall, and having first and second end walls at the opposite ends thereof, hook means extending upwards from an intermediate portion of said main rail, and having an upper hooked end for engaging a clothes hanging rail or the like, first resilient means secured at one end to said first end wall of said main rail, second resilient means secured at one end to said second end wall, a first spring engaging wall secured to the other end of said first resilient means, a second spring engaging wall secured to the other end of said second resilient means, a pair of face walls carried by each of said spring engaging walls and spaced thereby in mutually parallel positions, first and second lateral walls angularly spaced relative to said spring engaging walls, and interconnecting



said pair of face walls to define a spring receiving recess for said resilient means, a third lateral arcuate wall extending in a direction parallel to said first lateral wall and spaced therefrom and interconnecting said pair of face walls to define a main arched rail passage opening between said first and second face walls and said first and third lateral walls, and greater in size than said main rail so as to make said main rail incompletely fill the same, whereby said walls defining said main rail passage opening are tiltable relative to said rail, and a plurality of clothes engaging fingers carried by and extending from said first and second face walls, said clothes engaging fingers carrying teeth constructed and arranged for being biased by said resilient means into engagement against fabric of clothing to be carried thereby.

#### 2,712,892 SALT TABLET DELIVERING MACHINE

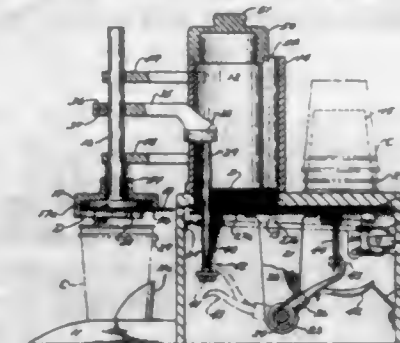
Robert P. Warren, Kenilworth, Ill., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois  
Application September 7, 1954, Serial No. 454,421  
10 Claims. (Cl. 226-2)



1. In a tablet delivering machine having a tablet delivery opening, conveyor means for advancing cans beneath said opening, tablet containing magazines above said opening, valve means between said magazines and said opening comprising a reciprocating valve member having two positions and provided with tablet receiving openings disposed to be alternately aligned with said magazines respectively and with said delivery opening in the reciprocation of said valve member, said magazines being open at their lower ends for discharge of tablets therefrom into said receiving openings of said valve member, and can actuated means effective for moving said valve member from one of its said positions to its other position when a can moves to position underlying said delivery opening.

#### 2,712,893 CAPPER FOR PAPER CUPS

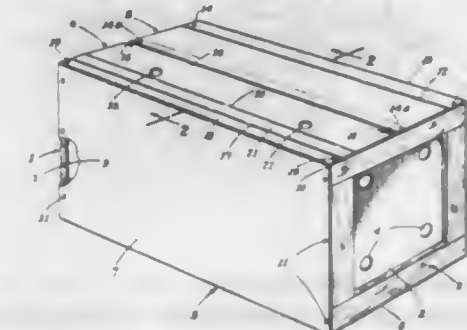
Emile J. Charland, Hartford, Conn.  
Application October 4, 1952, Serial No. 313,139  
11 Claims. (Cl. 226-92)



1. In a machine for inserting a disk-shaped paper cap into a conical paper cup, a casing, a plunger housing, a vertical magazine mounted upon said casing for containing a stack of paper caps, a reciprocating slide to push the lowermost cap out of said magazine into said plunger housing, a handle-operated shaft having a curved finger secured thereto and operably connected to said slide for moving the latter forwardly when said handle is swung to a predetermined position, a second curved finger on said shaft operatively connected with said plunger and operable when said handle is swung farther beyond said position for depressing the plunger to force said cap from said housing into said cup which is located upon a platform secured to said casing.

#### 2,712,894 SHIPPING BOX

Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California  
Application August 16, 1954, Serial No. 450,117  
4 Claims. (Cl. 229-44)



1. In a shipping box which includes end members, substantially rigid longitudinal lid-forming flaps overlying the end members, means to secure one flap on the end members to prevent upward movement of said flap, a tongue rigid with and projecting from the laterally inner edge of the other flap to underlap the first named flap when said other flap is in a box closing position, and longitudinal laterally spaced hinge-forming elements in the other flap, the outermost of which elements mounts said other flap on the box adjacent the corresponding side thereof; the lateral space between the hinge elements forming a web arranged to enable the tongue, upon upward swinging of the web, to be first pulled out from under the one flap and the other flap to be then swung up to an open position.

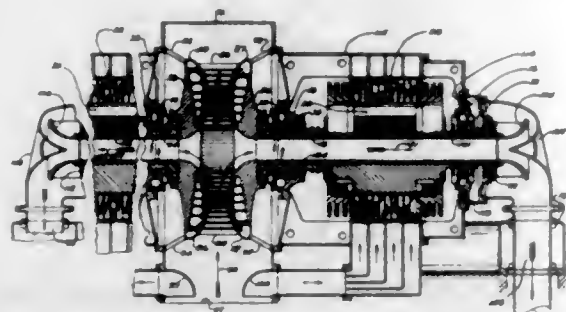
#### 2,712,895 CENTRIPETAL SUBSONIC COMPRESSOR

Vladimir H. Pavlecka, Pacific Palisades, and Frederick Dallenbach, Inglewood, Calif.  
Application August 12, 1950, Serial No. 179,028  
26 Claims. (Cl. 230-124)

1. A centripetal compressor comprising a rotor having an inner compression stage and an outer compression



stage located along the outer and inner peripheries, respectively, of said rotor, and a plurality of intermediate compression stages, all of said stages having a common axis of rotation, each stage having its respective radial distance from said axis to its outer periphery, a plurality of airfoils within each stage, said airfoils being uniformly

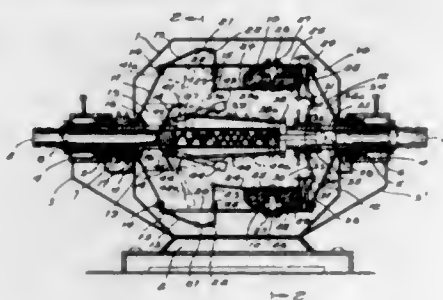


spaced around each stage and having identical angles of pitch within any one given stage, the minimum angle of pitch of the airfoils of said outer stage being of the order of 15°, and the angle of pitch of any one of the remaining stages being an inverse function of the radial distance of said last-mentioned one stage from said axis of rotation.

2,712,896

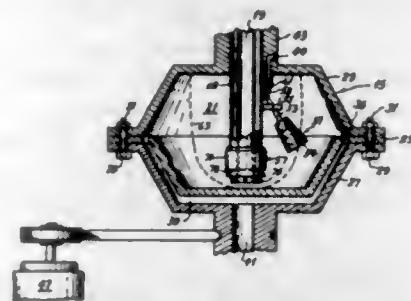
## CENTRIFUGAL SEPARATING DEVICE

Luigi Boldrin, Marghera, Italy  
Application March 28, 1952, Serial No. 279,026  
Claims priority, application Italy February 20, 1952  
7 Claims. (Cl. 233—28)



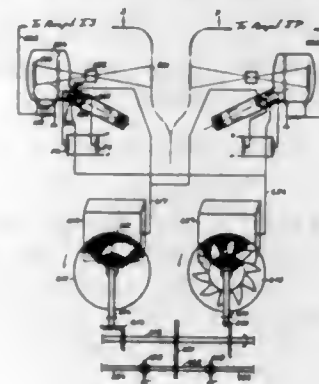
1. A centrifugal separating device for a mixture of liquids, comprising, in combination, an elongated rotary drum having an outwardly located wall portion formed with at least one opening; inlet means for a mixture of a heavier liquid and a lighter liquid located at one end of said drum in the region of the axis of rotation of the same; drive means connected to said drum for rotating said drum whereby said heavier liquid forms an annular body on the inner surface of said wall portion and passes through said opening, and said lighter liquid assumes a position in the region of the axis of rotation of said drum; outlet means for the lighter liquid located in the region of the axis of said drum at the other end of said drum; at least one floater means mounted in said drum rotatable with the same and movable in radial direction between an outer position located opposite said wall portion and an inner position, said floater means being urged by centrifugal force to move outwardly and being adapted to float on said annular body of heavier liquid so as to be moved to said inner position by an excess of heavier liquid; closure means for said outlet means; and motion-transmitting means connecting said floater means with said closure means for operating the latter in such a manner that said outlet means are closed when said floater means arrive in said inner position whereby an excess of said heavier liquid is prevented from passing through said outlet means.

2,712,897  
**STEADY FLOW CENTRIFUGAL DEFOAMER**  
Bert K. Kusserow, Schenectady, N. Y., and Willard E. Bair, New Haven, Conn., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application May 14, 1954, Serial No. 429,997  
7 Claims. (Cl. 233—28)



1. A device for separating excess gas from liquids comprising a receptacle for accommodating a liquid-gaseous mixture, axial inlet means inserted within said receptacle, means for rotating said receptacle around said axial inlet means, liquid-gaseous regulator means for automatic removal of excess gas, and outlet means for withdrawing liquid from said receptacle.

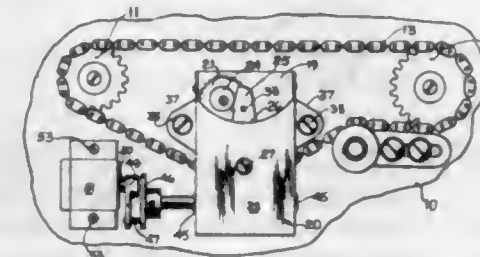
2,712,898  
**ARRANGEMENT FOR ANALYSIS AND COMPARISON OF RECORDINGS**  
Knut Andreas Knutsen, Paris, France, assignor to Compagnie des Machines Bull (Societe Anonyme), Paris, France  
Application July 16, 1951, Serial No. 237,041  
Claims priority, application France July 19, 1950  
9 Claims. (Cl. 235—61.7)



1. A device for comparing two numbers, respectively represented, on two tabulating cards, by a marking in one column for each digit, the columns being arranged in sequences corresponding to the successive denominational orders, and these markings limiting in the columns portions whose lengths are related with the corresponding digits, this device comprising in combination, two means respectively adapted to scan the images of two columns of same denominational order with two cathodic beams and to control the displacements and focusing of said beams so that they are focused in one direction of displacement relative to the card and travel over the columns from the same initial moment, at such a rate that the portion scanned when passing on a marking is linearly related with the corresponding digit, the said means being also adapted to generate a controlling pulse at each passage of the beam spot on a marking, two channels respectively connected to the said means and adapted to finally take a first equilibrium state when they receive simultaneously the two signals corresponding to any denominational order, a second state when they receive in a given order the two signals corresponding to the highest denominational order, among those for which such a signal succession is observed and a third state when they received these two signals in the inverted order, these channels respectively comprising, from

their inputs, two pulse discriminating elements, two trigger circuits, and connections connecting the element outputs with the circuit inputs, each circuit being adapted to take two equilibrium positions called zero and one positions in response to the pulses, these elements being so arranged as to be impermeable to two controlling pulses simultaneously received and permeable to any single pulse.

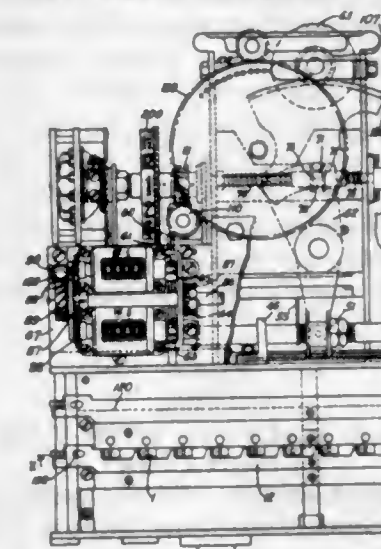
2,712,899  
**MECHANICAL COUNTER ACTUATING MECHANISM**  
George F. Krtous, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois  
Application October 31, 1952, Serial No. 317,947  
2 Claims. (Cl. 235—91)



1. A mechanism of the class described comprising a register having a shaft, a slotted arm on said shaft and extending laterally with respect thereto, a second shaft having its long axis in a plane offset with respect to the plane of the shaft, a disc on said second shaft and having a pin extending laterally therefrom in a plane offset with respect to the plane of the second shaft and engageable in the slot of the arm, a ratchet wheel, operative connection between the ratchet wheel and said second shaft, a rocker arm extending transversely of the ratchet wheel and having a pawl at one end thereof engageable with the ratchet wheel, a cam member engageable with said end portion of said rocker arm, spring means for yieldably holding said end portion of the rocker arm in engagement with said cam member, means for rotating said cam member to move said pawl into engagement with said ratchet wheel to impart step-by-step rotation to said ratchet wheel, and driving connection between said ratchet wheel and said second shaft.

2,712,900  
**TICKET PRINTING AND ISSUING MACHINE FOR TOTALISATOR**

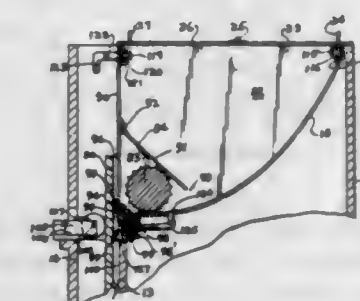
John Handley, Purley, England, assignor to The Union Totalisator Company Limited, Glasgow, Scotland, a company of Great Britain and Northern Ireland  
Application August 27, 1952, Serial No. 306,707  
6 Claims. (Cl. 235—92)



4. In a ticket printing and issuing machine such as used in electrical race totalisator systems, a pivotally mounted sector carrying a number of indications of which one at

a time is visible through an aperture in a frame plate in close proximity to said sector, spring means for normally retaining said sector in the position in which it is standing, a boss which carries said sector, a hollow shaft mounted within said boss and rotatable with respect thereto, means responsive to operation of a competitor key to rotate said hollow shaft to a position characteristic of the identity of said operated competitor key, a striker shaft mounted within said hollow shaft, a pin mounted on said shaft and projecting through a longitudinal slot in said hollow shaft in such a way that said striker shaft and said hollow shaft can rotate together but said striker shaft can be moved longitudinally with respect to said hollow shaft, in which said pin projects further into a V-shaped aperture in said boss, in which in the normal position of said striker shaft said pin is in the wide end of said V-shaped aperture, and in which rotation of said hollow shaft, said striker shaft and said pin in response to operation of a competitor key sets said pin to an angular position within the wide end of said V-shaped aperture which position is characteristic of the identity of the operated key, and means responsive to the issue of a ticket to move said striker shaft and pin longitudinally with respect to said hollow shaft and said boss, the pin during said movement resting on one side of said V-shaped aperture to turn the boss and the sector against the influence of said spring means into alignment with the hollow shaft, when said sector is retained by said spring means in a position in which the identity of the operated key is displayed.

2,712,901  
**DISPOSAL APPARATUS**  
Harry Higer, Detroit, Mich.  
Application June 25, 1952, Serial No. 295,539  
5 Claims. (Cl. 241—42)



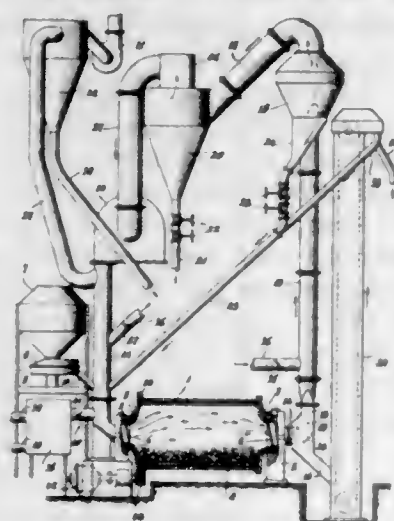
1. In a refuse disposal apparatus, a chambered member having a refuse receiving downwardly inclined bottom wall, an enclosed downwardly depending disposal passageway beyond the lower end of said bottom wall opening into said chambered member and adapted for communication with a sewer drain, a roller rotatably journaled within said chambered member transversely of its length spaced above and cooperable with said bottom wall adjacent said passageway for compressing and moving said refuse towards said passageway, an upright imperforate wheel rotatably journaled within said passageway substantially closing off said chambered member from said passageway, a plurality of angularly related elongated cutting blades secured within the inner face of said wheel with their cutting edges projecting therefrom closely adjacent the end of said bottom wall and movable in a plane parallel to the roller axis for finely cutting said refuse into small particles carrying the same downwardly through said passageway, a water supply pipe mounted upon the exterior of said chambered member, a plurality of perforated pipes joined to said supply pipe and extending laterally through said chambered member for supplying water thereinto, to said roller and to said passageway, a control valve in said supply pipe, a solenoid for opening said valve, an electric motor joined to said roller and wheel for driving the same, a push button switch, and an



electrical circuit from a power source to said motor, switch and solenoid, so that water will flow during energization of said motor.

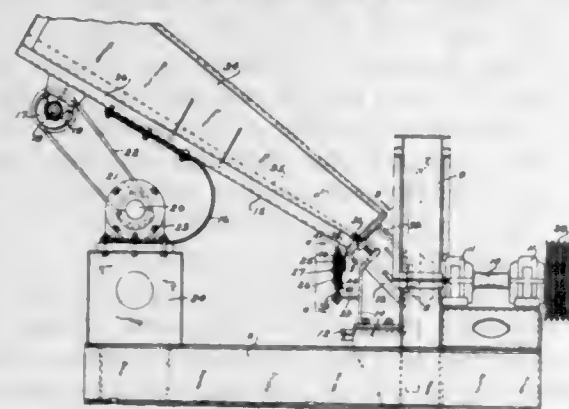
**2,712,902**  
**DISINTEGRATING APPARATUS HAVING A DISCHARGE ARRANGED TO SEPARATE OVER-SIZED MATERIAL FROM THE AIR-BORNE MATERIAL**

Joseph E. Kennedy, New York, N. Y.  
Application September 12, 1951, Serial No. 246,294  
6 Claims. (Cl. 241-48)



1. In disintegrating apparatus, a revolving drum having charging and discharge openings at the opposite ends, a fan directly connected to the charging opening of the drum to force a stream of air and material to be disintegrated into the charging opening and through the drum and discharge opening, and a discharge box communicating with the discharge opening of the drum to receive all of the disintegrated material from the drum and having an upwardly extending outlet connected in communication with the fan for the disintegrated material suspended in the air-stream and a downwardly extending outlet for material dropping from the air-stream.

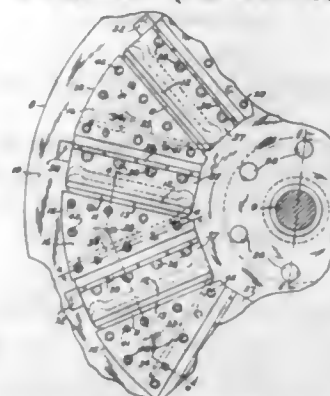
**2,712,903**  
**WOOD RECHIPPER FEEDER**  
Norman F. Dettmering, Wausau, and Clarence W. Miller, Eland, Wis., assignors to D. J. Murray Manufacturing Co., Wausau, Wis., a corporation of Wisconsin  
Application October 13, 1952, Serial No. 314,434  
5 Claims. (Cl. 241-92)



1. A re-chipper for rejects from wood chipping operations, comprising, a chipper having revolving blades co-operable with a rigidly mounted inclined trough-like feed spout for delivering the material to be rechipped to the blades, an elongated vibratory feed hopper inclined downwardly toward the upper end of said spout transversely of the path of revolution of said blades, means at the lower end of said spout for freely floatingly supporting said hopper end closely adjacent to but constantly spaced from said upper spout end, and resilient means coacting with upper portions of said hopper for effecting vibratory motion thereof.

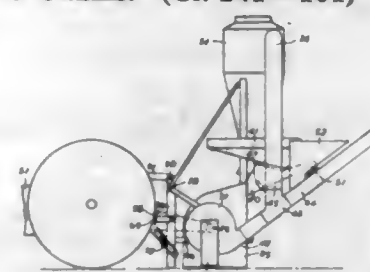
**2,712,904**  
**UNITARY WOOD CHIPPING DISK WITH REMOVABLE KNIFE ASSEMBLY AND INDEPENDENT WEAR PLATE**

Clarence L. Durkee, Wausau, Wis., assignor to D. J. Murray Manufacturing Co., Wausau, Wis., a corporation of Wisconsin  
Application November 28, 1952, Serial No. 322,980  
2 Claims. (Cl. 241-92)



1. A wood chipping rotor comprising, a unitary rotary disk having a plane annular side surface disposed perpendicular to the axis of rotation of the disk and which is interrupted by an annular series of elongated approximately radial chip delivery openings extending through the disk away from said surface and by an annular series of outwardly projecting rigid lugs disposed between the outer ends of the successive openings, an elongated knife assembly detachably secured to said disk surface directly behind each of said openings and having its outer end coacting with an adjacent lug to oppose the action of centrifugal force upon the knife assemblies, and an independent sector shaped wear plate also detachably secured to said disk surface and filling the space between each knife assembly and the next succeeding chip delivery opening to oppose the cutting pressure acting upon the knife assemblies.

**2,712,905**  
**COMBINED DISINTEGRATOR AND BLOWER UNIT**  
Bela Thomas Sandor, London, England  
Application October 3, 1951, Serial No. 249,455  
3 Claims. (Cl. 241-101)



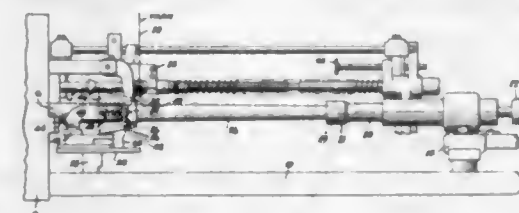
1. A combined disintegrator and blower unit comprising a rotary disintegrator having an inlet and an outlet, a rotary blower having an inlet and an outlet and having driving connection with the disintegrator, the inlet of the blower being connected to the outlet of the disintegrator, a two-way valve connected to the outlet of the blower and having two outlets, two separate trunkings connected one to each of the outlets of the two-way valve, and a venturi-tube inlet device arranged in one of the trunkings for feeding material into said trunking without passage through the blower.

**2,712,906**  
**YARN WINDING MACHINE WITH TAIL LOOPING ELIMINATOR**

Ernest P. Dodge, Charlotte, N. C., assignor to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts  
Application June 21, 1954, Serial No. 438,181  
9 Claims. (Cl. 242-27)

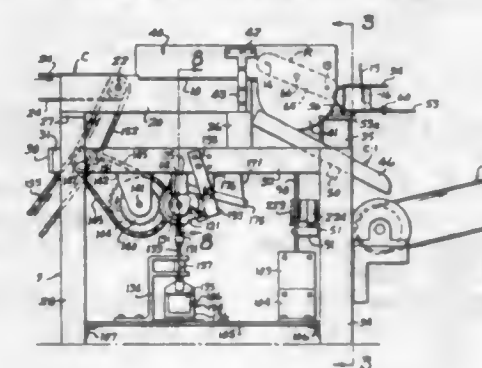
1. Means for eliminating looping of the tail end of a filament at the start of winding a filament onto a core

comprising a first guide extending longitudinally of said core adjacent said tail end to prevent free rotation of said tail end with said rotating core and a second guide



extending transversely of said core adjacent said tail end to prevent free movement of said tail end axially of said core.

**2,712,907**  
**APPARATUS FOR MULTI-FOLDING ELONGATED PLIABLE ARTICLES**  
Martin W. Hayden, John T. MacIsaac, Jr., and Frank T. Suttentfield, Spray, and Glenn H. Simpson, Leaksville, N. C., assignors, by mesne assignments, to Fieldcrest Mills, Inc., a corporation of Delaware  
Application March 23, 1953, Serial No. 344,016  
24 Claims. (Cl. 242-62)



1. Apparatus for folding pliable articles comprising a rotary shaft, guide means fixed on the shaft, a support movable longitudinally of said shaft, a pair of spaced, parallel, normally stationary folding pins having one of their ends fixed in said support and slidably penetrating said guide means, means responsive to the positioning of a portion of an article between said pins for imparting rotation to the pins about a common axis whereby the article is wound about and between said pins, and means for moving said support longitudinally of said shaft away from the guide plate for withdrawing said pins from the article wound thereabout.

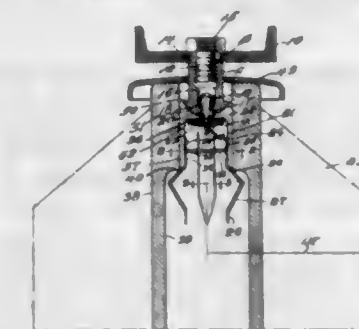
**2,712,908**  
**HAND-LINE FISHING REEL**  
Arthur B. Kozminski, Milwaukee, Wis.  
Application January 23, 1953, Serial No. 332,869  
8 Claims. (Cl. 242-99)



1. In a reel for hand-line fishing, a ring-like housing having a groove in the outer periphery thereof, a plurality of roller bearings rotatably mounted in and extending between the sides of the housing groove, a substantially annular spool mounted on the bearings and rotatably retained in the housing groove, the spool having a groove about the outer periphery thereof for receiving the fishing

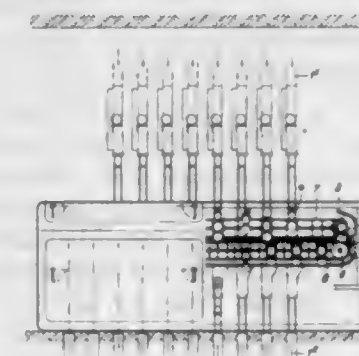
line, and inter-engaged braking members rotatably mounted in the housing for frictional engagement with the spool and severally protruding from the housing sides for exertion of pressure thereon and braking action by both of the members on the spool and upon rotation of either of the members.

**2,712,909**  
**PENDANT TYPE BOBBIN HOLDER**  
Warner H. Tabor, Uxbridge, Mass., assignor to Dixon Lubricating Saddle Co., a corporation of Rhode Island  
Application September 9, 1952, Serial No. 308,613  
13 Claims. (Cl. 242-130)



1. In combination with a bobbin having an open center, a pendant type bobbin holder comprising a head, means to fix the head to the under side of a creel board, a bobbin holding member having a body and adapted to grip the walls about the open center of the bobbin, a member swivelly suspended from said head and provided with a shoulder for engaging said body and providing therewith a bearing for rotatably supporting said bobbin holding member from said head, said bearing being located within said open center and below the upper end of said bobbin.

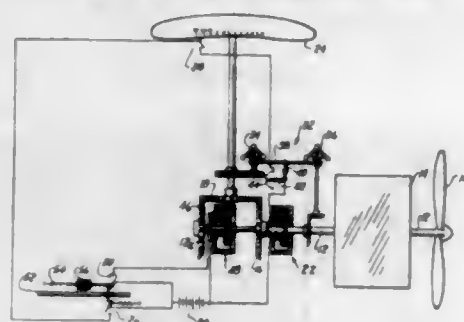
**2,712,910**  
**PNEUMATIC TUBE SYSTEM WITH FULLY AUTOMATIC RELOAD DEVICE CONNECTING INCOMING TO OUTGOING DISPATCH DUCTS**  
Reinhard Goerlich, Berlin-Schoneberg, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware  
Application February 6, 1953, Serial No. 335,431  
Claims priority, application Germany February 16, 1952  
11 Claims. (Cl. 243-16)



1. A pneumatic tube reload device comprising a plurality of incoming ducts, a plurality of outgoing ducts, means for selectively directing carriers from said incoming ducts to said outgoing ducts comprising a plurality of receiving tracks, each associated with a different one of said incoming ducts, single conveyor means common to each of said tracks and said outgoing ducts, means associated with each of said tracks for normally delivering carriers to said conveyor means at random times, and delay means associated with said conveyor means and co-acting with said delivery means for delaying delivery of carriers from said tracks to said conveyor means when portions of said conveyor means in proximity to said tracks are occupied by carriers previously delivered thereto.

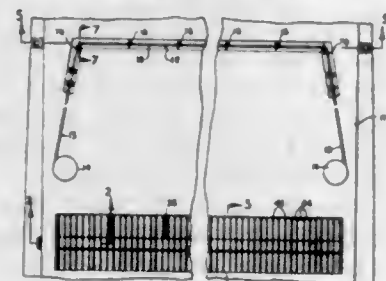


**2,712,911**  
**CONVERTIBLE AIRCRAFT**  
 Gerard P. Herrick, New York, N. Y.  
 Application March 1, 1951, Serial No. 213,355  
 10 Claims. (Cl. 244-7)



1. In an aircraft, a lifting surface convertible from rotating to fixed position and vice versa, a primary power plant, a first slipping clutch for stopping and reversing rotation of said lifting surface having a first rotatable element connected to said power plant and a second rotatable element connected to said lifting surface for normal rotation opposite to said first element, a slipping clutch for starting rotation and driving of said lifting surface having a first rotatable element connected to said power plant and a second rotatable element connected to said lifting surface for normal rotation in the same direction, a control mechanism for selectively engaging said clutches between said primary power plant and lifting surface to transmit power from said power plant to said lifting surface.

**2,712,912**  
**SAFETY BARRIER**  
 Mark Hattan, Dayton, Ohio, assignor of one-half to Sidney A. Pierson, Chicago, Ill.  
 Application April 20, 1946, Serial No. 663,739  
 19 Claims. (Cl. 244-110)

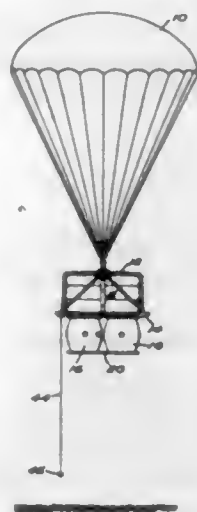


1. In a safety barrier system for aircraft, flexible barrier means adapted to be elevated from a runway strip, means for elevating said barrier into the path of movement of an aircraft on the runway strip, electrically sensitive means operably connected with said elevating means to render the same active, and adjacent a runway means for causing an electric impulse to said electrically sensitive means actuated by means on an aircraft adjacent to the runway moving relative thereto to positively render said elevating means operative with the aircraft in a predetermined position relative to said barrier means.

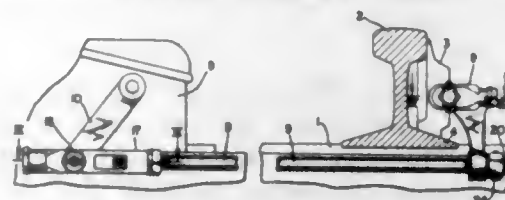
**2,712,913**  
**AERIAL DROP EQUIPMENT**  
 Robert M. Stanley, Buffalo, N. Y., assignor to Stanley Aviation Corporation, Buffalo, N. Y.  
 Application August 21, 1953, Serial No. 375,804  
 6 Claims. (Cl. 244-138)

1. A landing shock-absorbing load carrying device adapted to be dropped from a height, comprising a rigid load support member having a flexible normally collapsed cell mounted thereunder and a weight mass connected to the bottom of said cell, said cell including check valve means permitting flow of ambient air thereinto under approximately atmospheric pressure conditions but resisting escape of air therefrom, a pyrotechnic charge device

disposed within said cell for heating of the air therein upon firing of said charge device, and a firing control device including a ground contact member operable upon ground contact to initiate firing of said charge for augmenting the gas pressure therein and heating of the air within said cell to develop a supercharged pressure condition therein for increasing the landing shock absorbing capacity thereof.

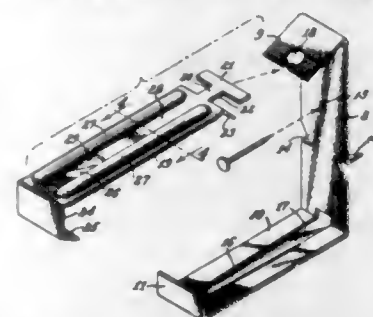


**2,712,914**  
**SWITCH CIRCUIT CONTROLLER OPERATING ROD CONNECTION**  
 Frederick C. Lavarack, Montclair, N. J., and Frank J. Hussey, Jr., Riverdale, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York  
 Application July 27, 1951, Serial No. 238,805  
 1 Claim. (Cl. 246-452)



A railway switch point operated circuit controller switch point connection, including, in combination, a bracket depending from a switch point, said bracket formed with a through bore tapered throughout, an operating rod, said operating rod adjacent one end formed as the frustum of a cone to snugly fit the taper in the bracket and extend completely therethrough, means to hold the operating rod in place in the bracket and means at the end opposite that formed as a frustum to connect the operating rod with a circuit controller.

**2,712,915**  
**HANGER FOR MOLDED GUTTER**  
 Isaac Z. Cohen and Sidney C. Cohen, Baltimore, Md.; said Isaac Z. Cohen, assignor to Zara Cohen and Lillian Zelda Cohen, both of Baltimore, Md.; said Sidney C. Cohen, assignor to Mignon B. Cohen, Baltimore, Md.  
 Application April 27, 1951, Serial No. 223,374  
 2 Claims. (Cl. 248-48.2)



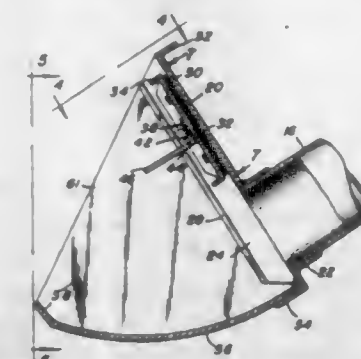
1. A hanger for molded gutters comprising an integral strap having a flat rear portion for attaching to a

facia board and supporting the rear of the gutter, and a portion outfolded perpendicularly from the lower end of said rear portion for supporting the bottom of the gutter, said rear portion having a downwardly deflected flange at its upper end for gripping the inner edge of the gutter and said outfolded portion having an upturned flange at its outer end for gripping the lower outside corner of the gutter, a strap for maintaining the outer edge of said gutter against transverse displacement, comprising a rigid member adapted to bridge the gutter, said member being formed with a T-shaped coupling extension at one end and said downwardly deflected flange being provided with a keyhole slot the narrow portion of which opens in an edge of said downwardly deflected flange, said coupling extension being inserted in said keyhole slot with the head of the T beneath said downwardly deflected flange, said member having a downwardly extending flange at its outer end for embracing the lip of the gutter and having downwardly inclined tabs at the base of said coupling extension thrusting against the end of said downwardly deflected flange when said member is engaged with the lip of said gutter.

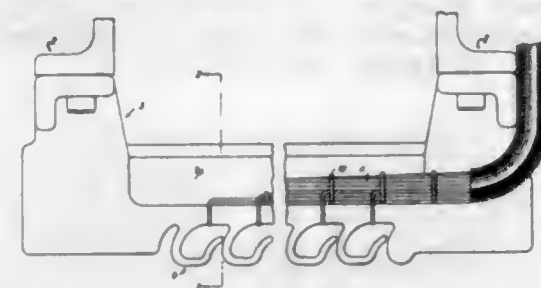


attaching members being at each end of said plate-like base in substantially opposite relation, one of said attaching members comprising a hook receivable in a hole in a support, and the other of said attaching members comprising a resilient shoulder adapted to be strung into engagement with an edge portion of said support.

**2,712,918**  
**DISCHARGE GATE SYPHON**  
 De Roy Simpson, Tulalake, Calif.  
 Application September 4, 1951, Serial No. 245,049  
 3 Claims. (Cl. 251-147)

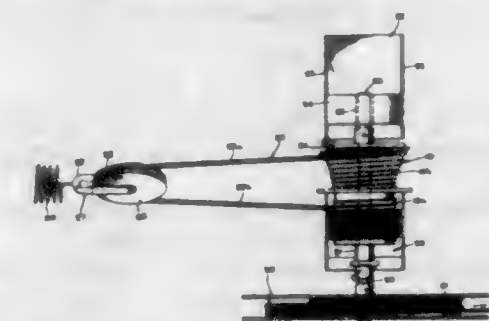


**2,712,916**  
**CABLE FANNING STRIP**  
 Erwin E. Franz, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
 Application May 31, 1951, Serial No. 229,057  
 1 Claim. (Cl. 248-68)



A device for positioning the wires of a cable comprising a unitary strip having a plurality of substantially U-shaped hooks with like legs thereof integral with and extending from one edge thereof, the legs of the hooks integral with the strip being sufficiently large in cross-sectional dimensions to render them rigid, the other legs of the hooks being sufficiently smaller in cross-sectional dimensions than their companion rigid legs to render them flexible, while the leg connecting portions of the hooks taper from the cross-sectional dimensions of the rigid legs to the cross-sectional dimensions of the flexible legs, each of said connecting portions extending at an angle toward the flexible leg of an adjacent hook, each of said flexible legs curving outwardly toward an adjacent hook and having its free end terminating just short of and inwardly of the rigid leg of the adjacent hook to form a restricted passageway adapted to be opened readily by wires forced into the hook and adapted to be closed readily by wires attempting to escape from the hook forcing the free end of the outwardly curved flexible leg against the rigid leg of the adjacent hook.

**2,712,919**  
**TORQUE AND TENSION CONTROL APPARATUS**  
 Bert S. Calvert, Los Angeles, Calif.  
 Application July 14, 1951, Serial No. 236,776  
 7 Claims. (Cl. 254-173)



**2,712,917**  
**CABLE CLIP OR THE LIKE**  
 Laurence H. Flora and John Balint, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio  
 Application March 6, 1951, Serial No. 214,184  
 2 Claims. (Cl. 248-73)

1. A fastener comprising a sheet metal body defining a plate-like base adapted to extend across and overlie an elongate article transversely of the longitudinal axis of said article, said plate-like base comprising a portion having a generally U-shaped cut defining a

1. In a control apparatus for controlling tension in a line, the combination of a rotary part, the rotation whereof pays out the line or retracts the same, a differential device mounted to rotate in unison with the rotary member, a cable disposed in a loop with its runs connected to the differential device at dif-



ferent radii respectively, a sheave riding in the loop, traction means including an extensible spring for applying force to the sheave to maintain the runs of the loop in tension, said differential device having means for decreasing the differential between said radii as the spring becomes more extended, thereby controlling the action of the runs of said loop upon the same for maintaining substantially constant tension in the said line.

### 2,712,920 TORQUE ARRESTORS

Roy H. Cullen and Leslie D. Richards, Houston, Tex.;  
said Richards assignor to said Cullen  
Application February 16, 1953, Serial No. 337,197  
10 Claims. (Cl. 255-4)



1. A torque arrestor adapted to be connected to a flexible support from which is suspended a rotary drill bit to prevent transmission to the support of rotation or torque of the drill bit during the drilling of a well bore, comprising an inner mandrel, a gripping assembly surrounding said mandrel including gripping members for gripping the wall of a well bore and expander means for expanding said gripping members into gripping contact with the well wall, means connecting said gripping assembly to said mandrel to prevent rotational movement therebetween while permitting relative longitudinal movement therebetween, said mandrel having fluid passage means for establishing fluid communication between the bore of the mandrel and the gripping assembly for supplying fluid under pressure to below said expander means to expand said gripping members into gripping contact with the well wall, said mandrel having other fluid passage means to supply fluid above said expander means to retract same to thereby retract said gripping members from said gripping contact, and a valve means on said flexible support and surrounding said mandrel above said gripping assembly for controlling the flow of fluid between the bore of said mandrel and said gripping assembly upon a longitudinal manipulation of said flexible support to control the expansion and retraction of said gripping members.

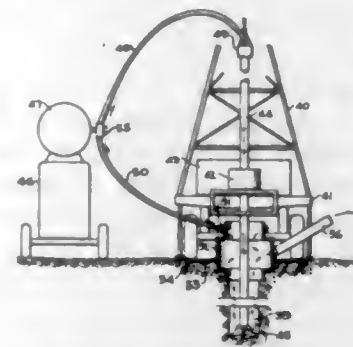
### 2,712,921 DRILLING WELL HEAD

Cecil L. Redman, Tulsa, Okla., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application January 23, 1951, Serial No. 207,401  
2 Claims. (Cl. 255-24)

1. An apparatus for use during rotary well-drilling operations, said apparatus comprising a cylindrical housing adapted to be positioned at the mouth of a well borehole coaxially therewith, said housing being open at its upper and lower ends to receive a drill string and drill bit therethrough, elongated discharge conduit means tangentially opening to said housing through the wall thereof, said conduit means sloping upwardly away from said housing, downwardly-sloping upper port means through

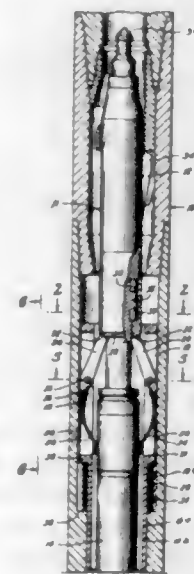
the wall of said housing above said discharge conduit and below the open top of said housing, upwardly-sloping lower port means through the wall of said housing below said discharge conduit, port means through the wall of said discharge conduit intermediate the ends thereof, the axes of said port means sloping toward the discharge end of said discharge conduit, each of said port means being



arranged in a circumferential line and the axis of each of said port means through the wall of said housing being arranged at an angle to the radii thereof, conduit means in communication between said port means and a supply of pressure gas and horizontal base plate means affixed to the outer wall of said housing below said discharge conduit for supporting the housing over a well borehole.

### 2,712,922 CORE DRILL

John C. Stokes, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas  
Application May 31, 1952, Serial No. 290,972  
12 Claims. (Cl. 255-72)



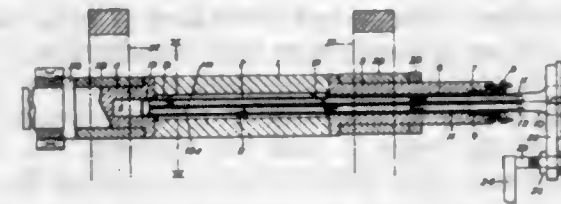
1. In a core drill apparatus having an outer barrel and a core barrel assembly therein, the improvement residing in a suspension means for said core barrel assembly, including a pivoted arm mounted on said outer barrel for supporting said core barrel assembly, and means for retracting said arm to an open position, whereby substantially the full inside diameter of the outer barrel is open to receive said core barrel assembly.

### 2,712,923 FLUID COOLED ROLL

Hubert Cecil Wynne, Barnby Dun, near Doncaster, England, assignor to Pilkington Brothers Limited, Liverpool, England, a corporation of Great Britain  
Application January 2, 1952, Serial No. 264,424  
7 Claims. (Cl. 257-95)

1. A sizing roller for use in the manufacture of a ribbon of glass from molten glass having a tubular member located coaxially within the bore of the roller and sealed at the inner end, said tubular member defining with the wall of the roller an annular space said tubular

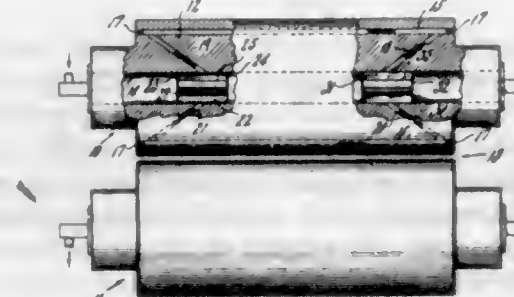
member being apertured in its area opposed to the middle region of the roller only on the underside thereof to provide a delivery point for all the cooling liquid entering the annular space directed towards the lower part of the bore of the roller and two outlet points from the annular space for the cooling liquid one near each end region of the roller directed towards the upper part of the bore of the roller, the said tubular member being partitioned



symmetrically in an axial direction between the delivery and outlet points, a cooling water connection member attached to the tubular member at the outer end above and below the partition, whereby substantially the whole volume of the liquid delivered into the tubular member effects a heat exchange with the wall of the roller, and means for restraining the tubular member against rotating with the roller.

### 2,712,924 MILL ROLL

Arduo L. Nicolai, North Tarrytown, N. Y., assignor to United States Rubber Company, New York, N. Y., a Corporation of New Jersey  
Application October 1, 1953, Serial No. 383,621  
6 Claims. (Cl. 257-95)



1. A mill roll comprising in combination a roll having a central opening therethrough, longitudinal bores therethrough near its periphery and transverse bores at each end of said roll connecting said central opening with said longitudinal bores, baffles inserted in said central opening at each end of said central opening about the inner ends of said transverse bores, said baffles being constructed and arranged to pass fluid from said central opening through said longitudinal bores sequentially and thereafter to pass the fluid into the discharge end of said central opening.

### 2,712,925 CONVEYOR PIVOT CONNECTION

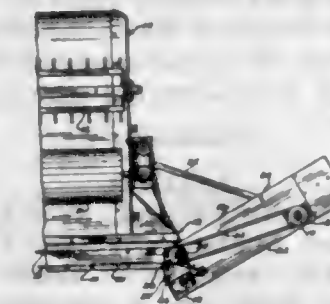
Walter W. Wolfe, Mound, Minn., assignor to Superior Separator Company, Hopkins, Minn., a corporation of Delaware

Original application September 15, 1951, Serial No. 246,859, now Patent No. 2,676,002, dated April 20, 1954. Divided and this application October 9, 1953, Serial No. 385,234

2 Claims. (Cl. 259-45)

1. A conveyor system including a conveyor having a delivery end and an elevator conveyor having a receiving end and both conveyors having sides adapted to overlap at said ends, circular bearing plates on the sides of one conveyor, the sides of the other conveyor having notches with open ends to slip over the bearing plates and having curved closed ends to pivotally engage the said bearing plates, lock members removably mounted across the open ends of the notches and having means

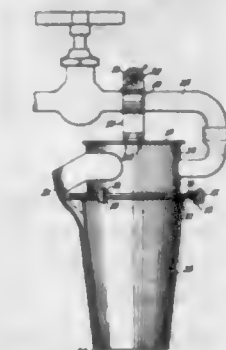
pivotally engaging the bearing plates opposite the closed ends of said notches, and retainer plates removably



mounted on the bearing plates and overlying the margins of the said notches.

### 2,712,926 WATER DRIVEN OR HYDRAULIC CREAM WHIPPING DEVICE

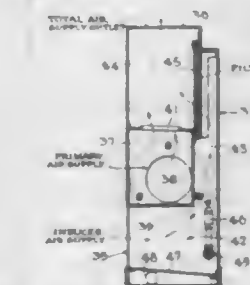
Gunter Von Elm, Winnipeg, Manitoba, Canada  
Application September 28, 1953, Serial No. 382,794  
2 Claims. (Cl. 259-108)



1. A water driven whipping device comprising a closed substantially cylindrical casing, a shaft rotatably mounted at the center of said casing and extending downwardly from the bottom thereof a substantial distance, whipping means secured to the bottom of said shaft, a container adapted to surround said shaft below said casing, said casing being formed with a circular flange at the bottom thereof, said container being formed with a circular flange at the top thereof, releasable means for clamping said flanges together in overlapping relation, a water turbine keyed onto the upper end of said shaft within said casing, said casing having an inlet opening, means for connecting said inlet opening to a source of cold water, said casing having an outlet opposite said inlet, and an arcuate hood secured to said casing on the outside thereof and surrounding said opening, said hood being adapted to conduct the discharged liquid downwardly onto the outside of said container over substantially the length thereof.

### 2,712,927 AIR CONDITIONING METHODS

Robert D. Blum, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware  
Application November 25, 1949, Serial No. 129,433  
5 Claims. (Cl. 261-11)



1. A method of conditioning the air in a room in summer which consists in conditioning primary air in quantity sufficient for ventilation of the room and so that the air is substantially saturated and at a temperature between 40° and 45° F.; delivering said air into the

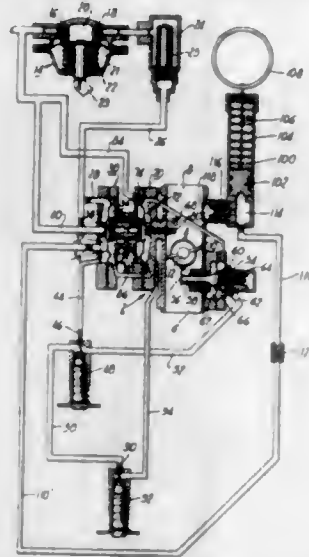


room; causing room air to circulate and to mix with the primary air adjacent the point of entrance of the latter; and supplementing the cooling effect of the primary air by atomizing water in and thus adiabatically cooling the circulating room air at a point in its circulatory path near to but in advance of its arrival at said point of entrance.

2,712,928

## FUEL METERING SYSTEM

Albert H. Winkler, Elmira, N. Y., and Frederik Barfod, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware  
Application November 19, 1949, Serial No. 128,349  
7 Claims. (Cl. 261—36)

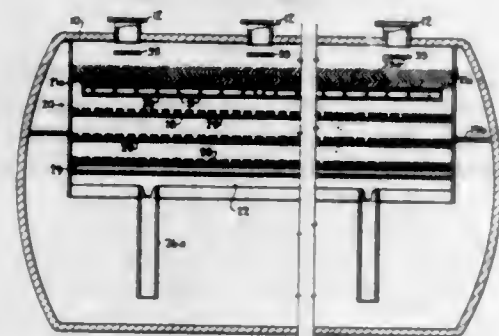


7. A fuel metering device for an engine having an induction system, comprising a conduit for supplying fuel from a source under pressure to the induction system, a normally fixed metering orifice in said conduit, a valve in said conduit anterior to said orifice, a chamber, a movable wall in said chamber responsive to unmetered and metered fuel pressure for controlling said valve, a valve in said conduit posterior to said orifice, a second chamber, and a movable wall in said second chamber responsive to metered and unmetered fuel pressure for controlling said second mentioned valve, whereby a substantially constant fuel flow is maintained through said orifice throughout normal operation of the engine.

2,712,929

## STEAM PURIFIER AND STEAM PURIFICATION METHOD

Joseph G. Wilson, Garden City, N. Y.  
Application December 29, 1951, Serial No. 264,058  
7 Claims. (Cl. 261—113)



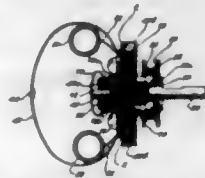
5. A steam purifying assembly for boilers including a steam and water drum divided into a lower water space and an upper steam space opening thereto; one or more steam exit ducts for said drum; a steam purifying fractionator disposed within said drum having walls defining an upright column communicating at the top thereof with said steam exit ducts, and at the bottom thereof with said steam space, said column being in communication with said water space for discharging water thereto; means for supplying wash water of substantially greater purity than

the water in said water space to the top of the column; a plurality of horizontal trays within said column spaced apart vertically to define a plurality of discrete superposed contact stages, each tray extending fully over the horizontal area of the fractionator and having a plurality of restricted openings therein terminating at their upper ends essentially in the plane of the upper surface of the corresponding tray and having an aggregate area between 7% and 60% of the total tray area, so as to cause simultaneous up-flow of steam and down-flow of water through the tray with an upward steam flow velocity therethrough sufficient to impede the free drainage of water and to disperse upwardly in the form of a finely divided spray a portion of the water at each tray opening, the vertical spacing between trays being sufficient to allow the disengagement of over 94% of the dispersed water in each stage from the steam before the steam enters the superjacent stage; and means at the top of the column between the uppermost tray and the said steam exit duct for separating entrained water from the steam.

2,712,930

## CENTRIFUGAL DEVICE

Willard C. Robinette, South Pasadena, Calif.  
Continuation of application Serial No. 73,617, January 29, 1949. This application July 30, 1953, Serial No. 371,202  
3 Claims. (Cl. 264—18)

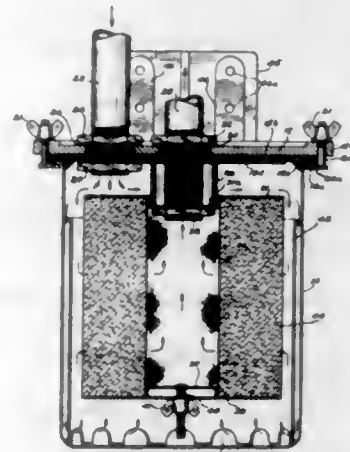


1. In a centrifugal device the combination comprising a rotatable member, a flat spring loop extending outwardly from and rotatable by said member and symmetrically intersecting the axis of rotation thereof, and a pair of weights mounted on spring leaves extending from and rotatable by said member, said spring leaves being inside of said loop to position said weights inside of and in contact with opposite inside surfaces of said loop.

2,712,931

## APPARATUS FOR RECOVERING SILVER

Ralph B. Maddock, Minneapolis, Minn., assignor to Pako Corporation, Minneapolis, Minn., a corporation of Delaware  
Application April 16, 1951, Serial No. 221,189  
5 Claims. (Cl. 266—22)



1. An apparatus for recovering silver from a photographic fixing solution having in combination, a container in which said solution is disposed, a second container, a member of aluminum metal disposed in said second container and extending about and spaced from the wall thereof, a reticulate tube at the central portion of said second container, a filter between said tube and said mem-

ber and spaced a short distance from said member, a removable cover for said second container, a conduit extending through said cover and extending to the top of said tube, said conduit extending to said first mentioned container, a pump, a second conduit extending through said cover at one side of said first mentioned conduit and extending to the outlet side of said pump, and a third conduit extending from the inlet side of said pump to said first mentioned container whereby said solution can be continuously pumped from said first mentioned container to said second container and into contact with said member, through said filter and back to said first mentioned container.

2,712,932

## TOOL SUPPORTING DEVICE

Jay P. Gould, La Canada, Calif.  
Application August 20, 1951, Serial No. 242,766  
9 Claims. (Cl. 267—70)

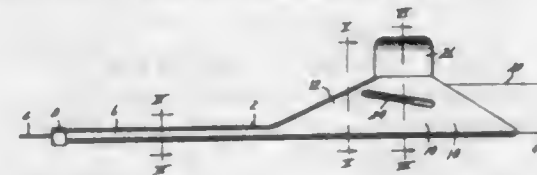


1. A device adapted for use on a well tool and to be engaged by a well elevator including, a vertical body with a cylinder portion, a rod extending upwardly into the body and movable vertically relative thereto, a stem projecting upwardly from the body and provided with an enlargement with an upwardly projecting threaded tool joint coupling and defining a downwardly facing annular shoulder adapted to be engaged by a well elevator, cushioning means checking downward movement of the rod relative to the body, and a threaded tool joint coupling on the rod spaced below the body and adapted to be releasably connected to a well tool, the cushioning means including a piston on the rod operating in the cylinder portion of the body, a fluid seal around the rod at the lower end of the cylinder portion, and means adapted to pass compressible fluid into the body beneath the piston.

2,712,933

## CREASING TOOL FOR BUILDING TAPE

Charles W. Davidson, St. Joseph, Mo.  
Application December 23, 1953, Serial No. 399,915  
2 Claims. (Cl. 270—86)



1. A tool for creasing foldable material in tape form comprising a hollow tubular body member through which tape may be drawn longitudinally, said body member having a portion of substantially V-shaped cross-sectional contour, the inner walls of said V-shaped section converging to form an internal creasing edge extending

longitudinally of the body member, and the outer walls of said V-shaped section each having a rib on the inner surface thereof, said outer walls being normally spaced apart from said inner walls to permit easy insertion of said tape therebetween, but being movably associated with said inner walls for movement toward said inner walls, whereby the tape is gripped frictionally between each of said ribs and the associated inner wall, said ribs being inclined away from said creasing edge in the direction of travel of the tape.

2,712,934

## ROLL PAPER TOWEL DISPENSER

J. C. Layton, Montebello, and Ralph Shaffer, Pasadena, Calif., assignors to Towisaver, Inc., Los Angeles, Calif., a corporation of California  
Application November 26, 1951, Serial No. 258,138  
8 Claims. (Cl. 271—2.4)

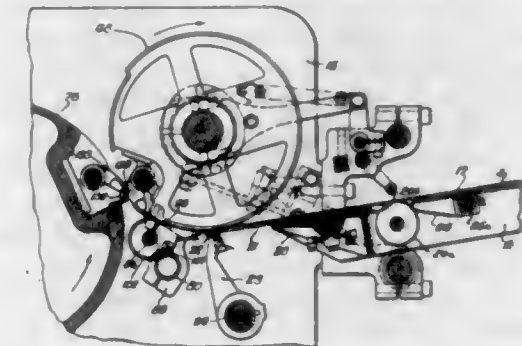


6. In a paper towel dispenser embodying a cabinet for containing a roll of paper and a dispensing opening through which successive sections of paper are issuable and dispensing means mounted in said cabinet: a control mechanism for regulating issue of paper including a manually rotatable disc having a concentric segment of major radius, a minor concentric segment of lesser radius than said major segment, and an eccentric segment of gradually decreasing radius defining a recess in the peripheral edge of said disc having its minimum radius adjacent said minor segment, said disc having peripheral notches at opposite extremities of said major segment providing shoulders, a locking bar coplanar with said disc and pivotally and shiftably mounted on said cabinet and provided with leading and trailing abutments for respective engagement with correspondingly leading and trailing shoulders on said disc at the extremities of said major segment at the completion of one dispensing operation and prior to a succeeding operation, said leading abutment being receivable in said recess adjacent the minimum radius of said eccentric segment to prevent said bar from jamming said disc against rotation.

2,712,935

## PRINTING PRESS AND HANDLING OF SHEETS

Harold W. Gegenheimer, Darien, Conn., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania  
Application June 28, 1952, Serial No. 296,137  
18 Claims. (Cl. 271—53)



1. In a printing press, a sheet support, a cylinder in front of said support spaced therefrom, mechanical means for positively gripping the leading edge portion of a sheet at rest on said support and advancing the sheet

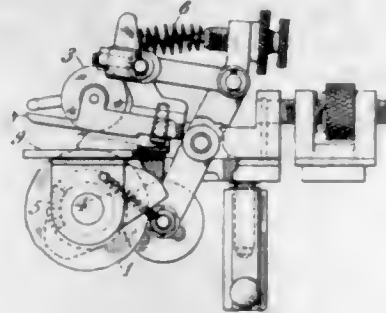


a predetermined distance toward said cylinder and then releasing it, and pneumatic means effective for gripping the sheet in its travel toward said cylinder and advancing it at accelerated speed when it is released from said mechanical means.

2,712,936

**SHEET REGISTERING MECHANISMS**

Headley Townsend Backhouse, Sunningdale, England  
Application May 8, 1951, Serial No. 225,249  
Claims priority, application Great Britain May 10, 1950  
7 Claims. (Cl. 271—59)

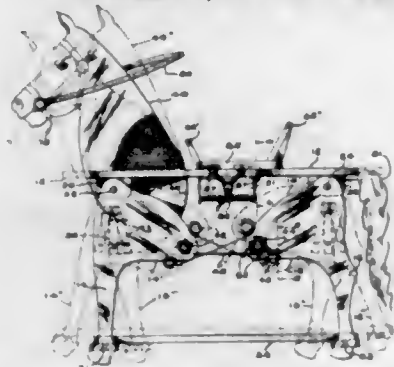


1. A sheet registering mechanism comprising a registering stop for engagement by a side edge of a sheet, a rotatable friction roller for frictional engagement with one face of a sheet to be registered, a support member for engagement with the other face of the sheet in opposed relation to the friction roller, driving means for positively imparting a rotational movement to the roller in a direction to feed the sheet to the stop, means operating in timed relation to the rotational movement of the roller, for urging the roller and support member together to grip a sheet between them to hold them in sheet-gripping relation during less than one revolution of the roller and then to separate the roller and support member to release the sheet, in which mechanism the circumferential surface of the roller has circumferentially distributed parts of different frictional characteristics, the said parts being of substantially equal angular extent, the said driving means include a driving shaft and means for clutching the roller to the shaft at any one of a plurality of predetermined discrete angular positions relative thereto, the angular spacing between said positions being substantially equal to the angular extent of the respective said circumferentially distributed parts of the circumferential surface of the roller, whereby the part of the circumferential surface of the roller which engages the sheet in gripping relation as aforesaid may readily be changed to such as will enable slip between the roller and the sheet to occur when the sheet reaches the stop.

2,712,937

**HOBBY HORSE**

John L. Bell, Baltimore, Md.  
Application December 8, 1951, Serial No. 260,639  
3 Claims. (Cl. 272—53.1)



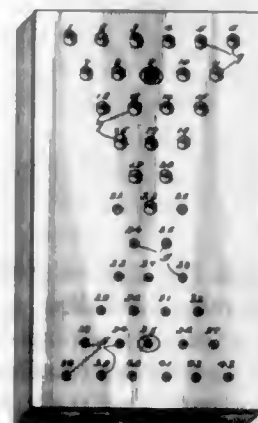
1. In a hobby horse comprising a horizontal body member, front and rear pairs of supporting legs therefor having their upper ends pivotally connected to the body member, a rigid spacing support extending between the

upper ends of the front legs and a leg positioning support adjacent the lower ends of the legs and pivotally connected therewith for fixedly positioning the distance between the lower ends of the front and rear pairs of legs, a single head and a neck member attached centrally of the support extending between the upper ends of the front legs, the neck member extending upwardly through a slot in the front center portion of the body member, the front and rear legs having an offset portion adjacent their upper ends extending rearwardly and forwardly respectively between the upper and lower pivot points, a connecting pin extending between the offset portions of both the front and rear legs for receiving a resilient tension member, a resilient tension member having its ends attached to the pins in the offset portions acting to normally urge the leg members to their upright position when the upper ends of the leg members and the body member are moved back and forth and stirrups connected with the offset portions of each of the front leg members for normally imparting a rearward motion to the upper ends of the leg members and the body member when the stirrups are depressed.

2,712,938

**PUZZLE GAME BOARD AND PIECES**

Calvin O. Brown, Cary, Ill., assignor, by mesne assignments, to Set Screw & Mfg. Company, Bartlett, Ill., a corporation of Illinois  
Application September 24, 1952, Serial No. 311,270  
9 Claims. (Cl. 273—133)



1. A puzzle game comprising a playing board having two groups of a plurality of playing stations each arrayed thereon in a plurality of rows, the rows and stations of each group being arrayed in a triangular pattern, each pattern being the image of the other with an apex of each directed toward the other, each of the rows of each group being substantially parallel to one another with three playing stations forming an apex row common to both groups, the row of each group that is next adjacent to said apex row having two stations, the next row in succession in each group having three, the next four, the next five and the last six playing stations, the sum total of playing stations in each group counting its apex row station being twenty-one in number and the total number of all stations being 43, and a set of twenty-one playing pieces including one piece differentiated from all others.

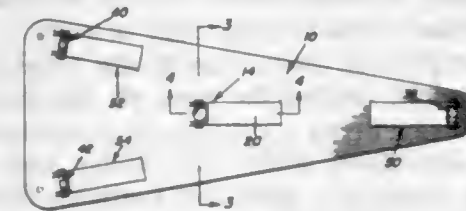
2,712,939

**GOLF SWING INDICATOR**

Sidney H. Harp, Dearborn, Mich.  
Application April 2, 1953, Serial No. 346,313  
1 Claim. (Cl. 273—186)

A golf swing indicator comprising a triangular base having an indicating assembly disposed at each of its apices and a ball supporting assembly disposed substantially medially thereof, each of said assemblies including a bracket portion in the form of a ramp having spaced sides, an end wall and extensions of said sides projecting beyond the end wall, each of said extensions having a

notch therein provided with a restricted neck, a T-shaped pin associated with each of said assemblies and including an upright stem and a crossbar provided with grooved portions in its opposite ends pivotally received in the notches of said extensions such that the stem will abut the associated end wall and be held thereby in an upright

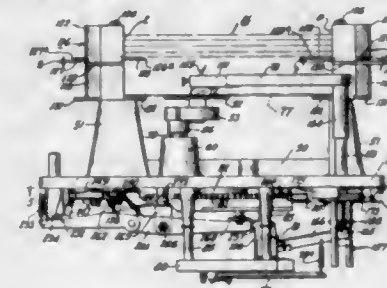


position, the free end of the stem of said ball supporting assembly terminating in an enlarged cup adapted to receive a golf ball, said indicating assemblies having their end walls facing outwardly away from said supporting assembly and positioned such that their longitudinal axes meet at a common point within the confines of the same.

2,712,940

**RECORD CHANGER**

Stanley I. MacDuff, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware  
Application June 25, 1948, Serial No. 35,166  
9 Claims. (Cl. 274—10)



1. In a phonograph, a horizontally positioned turntable for supporting a record in a manner to have both sides thereof played, a tone arm provided with a stylus for engaging in the grooves formed in the top and bottom sides of a record, storage means located vertically below said turntable for receiving a played record, means for selectively connecting the tone arm for playing alternate sides of a record, means operative upon completion of playing the record for depositing the same in said storage means said last mentioned means including a plurality of members arranged to support a played record directly above said turntable, and means to be actuated upon movement of the stylus into the non-playing grooves following reproduction of a record for causing the turntable to transfer the record to said members and thence move out from under said record.

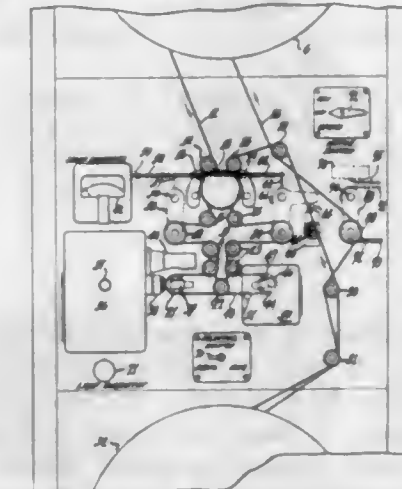
2,712,941

**COMBINATION MAGNETIC AND PHOTOGRAPHIC SOUND REPRODUCER AND MAGNETIC RECORDER**

James L. Pettus, Encino, and Arthur C. Albee, Hollywood, Calif., assignors to Radio Corporation of America, a corporation of Delaware  
Application December 19, 1950, Serial No. 201,659  
3 Claims. (Cl. 274—11)

1. A symmetrical film path advancing mechanism for sound record reproduction comprising a sprocket for advancing film at two positions thereon to form a loop, a sound record reproducing unit including a drum over the end of which a film is adapted to extend, a sound record reproducing unit including a second drum over the end of which a film is adapted to extend, a pair of filtering rollers adjacent said sprocket for tensioning the film in said loop, a guide roller for guiding said film to one of said drums at mutually exclusive times, said film

having the same length between said guide roller and said drums at each of said times, the axes of said drums being in one certain plane, the axis of said sprocket being in a plane perpendicular to said drum axes plane at a point midway between said drum axes, the normal plane of said filtering rollers being parallel with said drum axes plane and said filtering rollers tensioning said

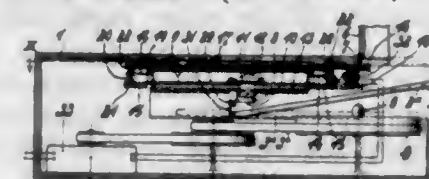


film away from said sprocket axis plane, said sprocket axis plane intercepting the plane of said roller axes at a point substantially midway between the axes of said rollers, and tensioning means having a fixed anchor for said filtering rollers, together with a directly connected damper for one of said rollers, the damping of the filtering being applied with the same efficiency regardless of the direction of film travel in said loop.

2,712,942

**TALKING MACHINE**

Hubertus Jan Smits, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application March 8, 1951, Serial No. 214,563  
Claims priority, application Netherlands March 29, 1950  
5 Claims. (Cl. 274—14)



1. A phonograph comprising a housing, a turntable mounted within said housing, said housing having an aperture through which a record may be inserted laterally of said turntable and substantially parallel in the plane thereof to an operative position thereon, a pick-up having a needle mounted thereon, means movably mounting said pick-up in said housing, said means being disposed for guiding said movable pick-up along a plane parallel to said plane of said turntable, means including an element being provided with an angular slot, a part operatively connected to said pick-up and adapted for movement in said slot thereby permitting said pick-up to move in directions toward and away from said turntable, respectively, to a first position wherein said needle is closer to the plane of said turntable whereby said needle may engage a record on said turntable, and to a second position wherein said needle is displaced from said turntable whereby said needle is disengaged from a record on said turntable, a member movably mounted on said pick-up and extending therefrom towards said turntable to a region closer at least to the plane of said turntable than the thickness of a record to be placed thereon even when said pick-up is in said second position, said member being positioned on said pick-up in laterally displaced relationship with respect to said needle and at the side thereof remote from said aperture, and means for retarding the movement of said pick-up along said guide means when the former is in said second position.

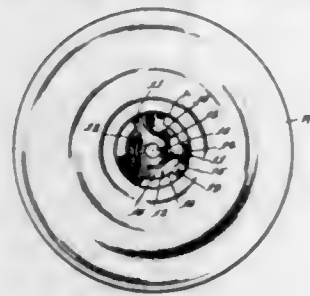


2,712,943

## PHONOGRAPH RECORD ADAPTOR

James L. D. Morrison, Benton Harbor, Mich., assignor to V-M Corporation, Benton Harbor, Mich., a corporation of Michigan

Application March 27, 1951, Serial No. 217,854  
3 Claims. (Cl. 274-42)

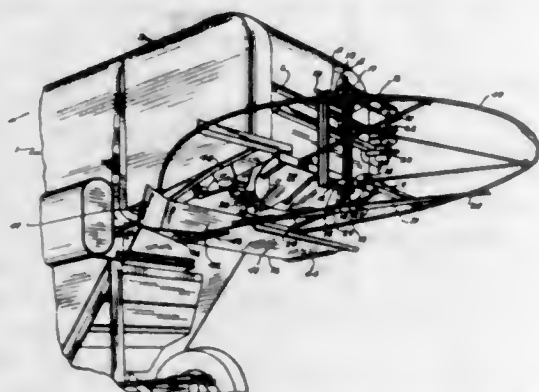


1. As a new article of manufacture, a one-piece adaptor designed for use with a phonograph record having a large sized center hole therein, adapted to fit within the hole and when in place to permit the record to be mounted on a small sized phonograph spindle, and comprising a substantially circular body of materially less size than the center hole in the record and having in its central portion a hole for receiving the spindle, a plurality of rigid equidistantly spaced centering arms connected to, and extending outwards from, the body and having curved outer end surfaces for engaging different portions of the hole defining edge of the record, and a plurality of spring variety arms disposed between the centering arms and consisting of comparatively wide rigid outer parts and elongated comparatively narrow laterally flexible curved inner parts extending substantially circumferentially around, but spaced a small distance outwards from, portions of the body, said spring variety arms having in the outer ends of their outer parts longitudinally extending grooves for receiving and interlocking with the hole defining edge of the record and being adapted in connection with mounting of the adaptor with respect to the record to be flexed inwards a sufficient distance so that the outer ends of the outer parts clear said hole defining edge and then to be released so they spring or flex outwards into an operative position wherein said grooves are in gripping and interlocked relation with said hole defining edge of the record, the outer parts of the spring variety arms being provided on opposite sides thereof with outwardly extending lugs arranged and adapted to form handles for use in flexing the spring variety arms inwards and also to form when the adaptor is positioned between similar adaptors interlocking driving connections whereby the adaptors are connected together for conjoint rotation.

2,712,944

## STRAW CUTTER AND DISTRIBUTOR

Edmund Guise Stevens, Winnipeg, Manitoba, Canada  
Application August 11, 1951, Serial No. 241,439  
4 Claims. (Cl. 275-3)



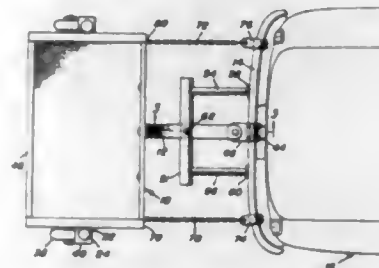
1. A cutting and comminuting device for a harvester of the type which is adapted to move across the terrain and which has a housing including wall portions at the

rear thereof defining a descending straw and stalk discharge passage, said device having in combination a mounting structure attached to a wall portion of said housing adjacent said discharge passage, a substantially vertical shaft journaled in the mounting structure, a plurality of cutter arms extending radially of and rotatable with said shaft, a cutting blade attached to and forming at least a portion of the leading edge of each of said arms, the effective path of the cutting blades sweeping beneath and substantially across the area of the discharge passage for effecting firstly a cutting and comminuting operation upon individual straws and stalks and secondly a distributing operation upon the particles formed therefrom, driving mechanism for connection to a power source associated with said harvester for rotating said shaft at a high speed, and retarding and distributing mechanism carried by said housing and disposed beneath and extending across said discharge passage, said last named mechanism comprising a combined upstanding distributor flange and deflecting vane element and a substantially horizontal retarder flange portion underlying a portion of the orbital path of the cutting blades, said distributor flange being disposed forwardly of and in working clearance to the outer ends of said cutter arms and said element being at a predetermined angle to said distributor flange.

2,712,945

## DRAFT CONNECTION FOR TRAILER WITH CASTOR WHEELS

Alfred Peterson, Chicago, Ill.  
Application August 27, 1951, Serial No. 243,815  
2 Claims. (Cl. 280-29)

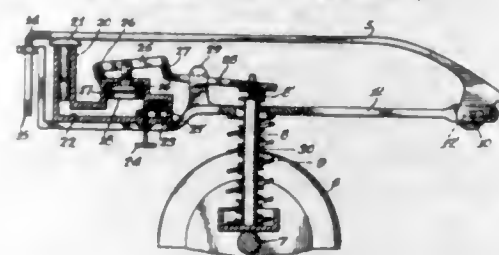


1. In a trailer construction having a rigid frame, a rigid hitch for connecting the trailer to a vehicle comprising a draw bar rigidly attached to said frame, a bumper on a vehicle, a bracket mounted on said bumper, a coupling pin securing said draw bar to said bracket, a yoke adjustably mounted on said draw bar, a pair of brace arms rigidly mounted on said yoke, said yoke being adjustable on said draw bar to bring said arms into contact with said bumper, means for locking said yoke in adjusted position on said draw bar.

2,712,946

## AUTO-LEVELING AND STABILIZING FRAME FOR VEHICLES AND PLATFORMS

Frank Cicero, Los Angeles, Calif.  
Application April 26, 1950, Serial No. 158,111  
8 Claims. (Cl. 280-124)



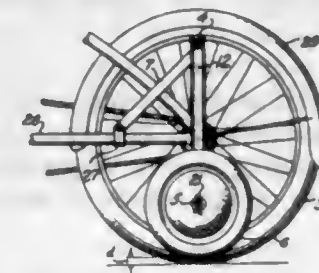
1. A leveling means for use in connection with a chassis or like support, comprising: an upstanding rod and a suspension spring; a substantially horizontal arm pivoted on the chassis and having a hole through which the rod is slidable, said arm resting upon said spring;

a fluid actuated jack carried by said arm; a pump for actuating the jack, said jack being in fluid communication with said pump and having a vertically slidable piston, said chassis resting upon the upper end of the jack piston so that the chassis, jack and arm are supported by said spring; and an operating lever assembly engageable by the upper end of said rod and adaptable to actuate said pump to raise said piston to pivot away from said chassis said arm when the latter is lowered on said rod and compresses said spring.

2,712,947

## BICYCLE STABILIZERS

Ewald F. Pawsat and Ruben L. Pawsat, Maysville, Ky.  
Application November 8, 1952, Serial No. 319,474  
2 Claims. (Cl. 280-293)

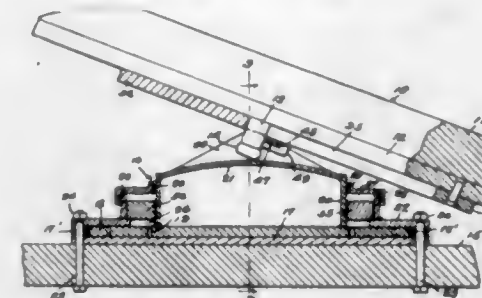


1. For a rider balanced vehicle, an accessory comprising a one-piece substantially right triangular frame having an hypotenuse portion and two leg portions, said hypotenuse portion and one of said legs at adjacent ends thereof being provided with co-extending portions in face-to-face contact co-operating to form an exterior arm extending parallel to the second leg, means securely joining the portions comprising said arm adjacent the free end thereof, a stub axle, means for securing said axle to said first leg at a point spaced from said arm, an aperture in said arm, said aperture being exteriorly tangent to said first leg and snugly receiving said axle intermediate the ends thereof with a portion of the axle extending in parallel contact with the first leg and co-operating with said axle securing means and a second portion of said axle extending oppositely from said arm for receiving a wheel, a wheel mounted on said wheel-receiving portion of said axle, at least one elongate aperture in said second leg, whereby said frame is adapted for mounting upon an axle of a vehicle with the stub axle thereon parallel to and spaced from said vehicle axle, a brace, means for securing said brace adjacent one end thereof to said second leg at a point spaced from said vehicle axle, and means for securing the brace adjacent the other end thereof to a portion of said vehicle spaced from the axle thereof.

2,712,948

## TRAILER TRUCK FIFTH WHEEL

William S. Conaway, Carrollton, Mo.  
Application October 8, 1953, Serial No. 385,001  
3 Claims. (Cl. 280-437)

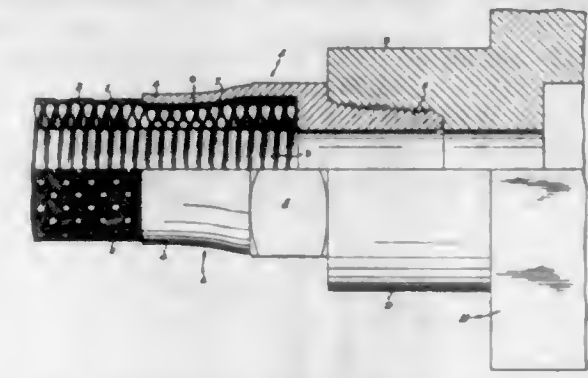


1. In a device of the character described in combination, a base plate, a rotatable plate mounted thereon, a flange on said rotatable plate, a closure plate, a flange on said closure plate, spaced from said first mentioned flange providing a space between said flanges for the reception of lubricant, said rotatable plate having apertures therein

2,712,949

## HIGH TEMPERATURE METAL HOSE CONNECTION

William A. Bauer, Jr., Seymour, Conn., assignor to The American Brass Company, a corporation of Connecticut  
Application July 25, 1952, Serial No. 300,935  
3 Claims. (Cl. 285-74)

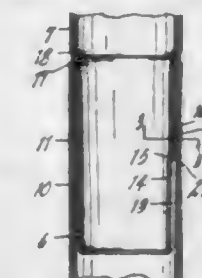


1. The combination with a source of fluid at an elevated temperature, of a hose connection through which said fluid is conveyed comprising a cylindrical metal coupling attached at one end to said source and having a sleeve at its other end, a flexible metal hose having its end portion inserted into said sleeve, said sleeve being swaged into interlocked engagement with said hose and thereby forming a mechanically strong joint between said coupling and said hose, and metallic solder alloy having a softening temperature below and a flow point above the temperature at which said fluid is adapted to be conveyed through said hose connection penetrating into and sealing said swaged joint, whereby said solder seals said joint against leakage of fluid without contributing to the mechanical strength of the joint.

2,712,950

## TUBULAR SECTIONAL HANDLE WITH INTERLOCKING MEANS

Werner E. Slebert, Grand Rapids, Mich., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich.  
Application January 12, 1953, Serial No. 330,784  
9 Claims. (Cl. 285-161)

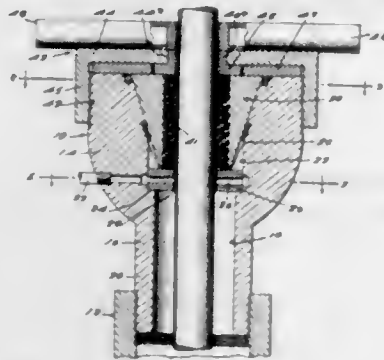


1. A sectional handle comprising a plurality of like tubular metal sections having an integral portion at one end of reduced diameter and of slight outward taper constituting a dowel, the other end constituting a dowel socket telescopically receiving the dowel of an adjacent section, the reduction at the base of the dowel corresponding to the thickness of the walls of the sections, there being an abrupt external shoulder at the base of the dowel, and an elongated longitudinally extending segment portion of uniform width of the wall of the dowel being struck inwardly providing an external longitudinal groove open at its outer end, the wall at the inner end of the groove being axially outwardly curved, the dowel having a rectangular opening therein aligned with and of a width corresponding to the width of the



groove, the portion of the wall between the inner end of the groove and said opening constituting a keeper element, the socket portion having a loop-like substantially nonspringable longitudinally curved inwardly projecting lug having parallel side edges struck inwardly from the wall thereof to fittingly engage in said opening when the coacting dowel is in fully telescoped position with the end of the socket portion abutting the shoulder at the base of the dowel, the groove of the dowel member coacting with the lug to guide the parts into telescoping interlocking engagement, the walls of the socket and dowel being continuous but springably yieldable when telescoping driving force is applied thereto to permit the nonspringable lug to pass the keeper element.

**2,712,951**  
**WELL STUFFING BOX**  
Eltz E. Legate, Los Angeles, Calif.  
Application April 21, 1952, Serial No. 283,412  
1 Claim. (Cl. 286—16)

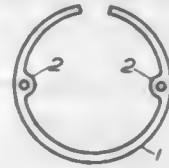


In a well stuffing box, a body having a cylindrical top portion having a tapered socket in its top surface, said socket opening into a cylindrical axial bore at its lower end, a tubular extension of a lesser diameter than the diameter of said top portion depending from the lower end of the top portion and having its bore opening into said cylindrical bore and of a lesser diameter than that of the latter bore so that an annular shoulder is provided at the lower end of the cylindrical bore, an annular follower having a plurality of radial ducts opening through its inner and outer edges seated on said shoulder and encircling a polishing rod depending through said top portion and the tubular extension, a packing sleeve encircling the polishing rod within said socket and seated on said follower, a wedging element seated in said socket to forcibly hold said packing sleeve in contact with the polishing rod, an annular washer encircling the polishing rod and seated on the top surface of said body and partially overlying the top end of said wedging element, a cap element having an annular flange in threaded engagement with the top end of said body to retain said washer and the wedging element in place, and a passage opening through the side of said top portion in alignment with one of the ducts of said follower for the ingress of an oil to effect the lubrication of the polishing rod by way of said ducts.

**2,712,952**  
**MEANS FOR HOLDING TOGETHER PARTS OF MACHINERY AND JOINTS, INCLUDING SUCH MEANS**  
Karl Ivar Lundgren, Stockholm, Sweden, assignor to Aktiebolaget Atlas Diesel, Nacka, Sweden, a corporation of Sweden  
Application November 21, 1950, Serial No. 196,752  
Claims priority, application Sweden December 8, 1949  
8 Claims. (Cl. 287—1)

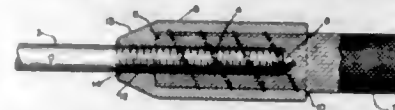
4. A joint comprising a hollow machine part having a cavity defined by a substantially cylindrical wall and having a smooth substantially cylindrical exterior surface at least at one end portion of the part, a second

machine part adapted to be fitted endwise of said hollow machine part and having an external form at the abutting portion substantially conforming with the exterior surface of said hollow machine part, internal abutment means formed in said cylindrical wall, an annular anchoring element capable of being resiliently compressed in the plane of the element for insertion past said abutment means and subsequently expanded to engage said



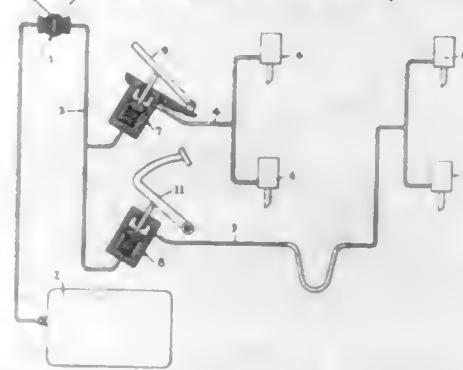
abutment means to retain the element against displacement from the cavity, tension bolts engaging portions of the anchoring element and extending perpendicularly to the plane thereof, and means in said second machine part engageable by said tension bolts, whereby tightening of the bolts operates to bring said anchoring element into pressure engagement with said abutment means and to bring said parts into pressure engagement with each other in the direction of the length of said bolts.

**2,712,953**  
**CORD COUPLING**  
Barton S. Snow, Chicago, Ill., assignor to T. W. Snow Construction Company, Inc., a corporation of Illinois  
Application December 21, 1951, Serial No. 262,866  
1 Claim. (Cl. 287—82)



A tell-tale warning device for railroad approaches to overhead bridges comprising: a metal rod having a pointed threaded end portion; a hollow metal coupling having an inner wall, an open end and a closed end, said closed end having a threaded opening to screw onto said rod and provide an annular socket in said coupling, and said inner wall being provided with a spiral groove forming alternately spaced lands and valleys, the lands being substantially wider than the valleys; and a fibrous cord impaled by the pointed end of the rod so that, when the cord is completely inserted in the hollow coupling, the cord will bear an intimate surface contacting relationship with the lands of the inner wall of the coupling and will be impressed into the valleys.

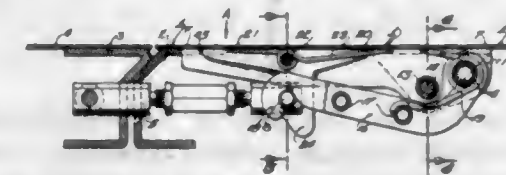
**2,712,954**  
**SANDER CONTROL MEANS**  
Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey  
Application June 30, 1952, Serial No. 296,441  
4 Claims. (Cl. 291—2)



4. For use on an articulated wheeled tractor-trailer road vehicle, the combination of selectively manipulable control means to actuate the propulsive means of the tractor, and to actuate brakes at least some of which

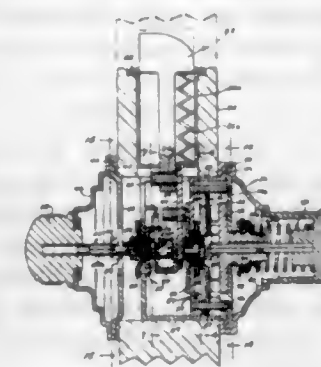
brake trailer wheels; independently operable road sanding means for tractor wheels; independently operable road sanding means for trailer wheels; actuating means for the tractor sanding means rendered effective to actuate the tractor sanding means by operation of said control means to actuate the propulsive means; and actuating means for the trailer sanding means rendered effective to actuate the trailer sanding means by operation of said control means to actuate the brakes.

**2,712,955**  
**DRAW-IN TYPE FLUSH LATCH**  
Weldon R. Andrews, Seattle, Wash., assignor to Clark Hartwell and Eleanor M. Hartwell, copartners doing business as Hartwell Aviation Supply Company, Los Angeles, Calif.  
Application September 15, 1952, Serial No. 309,710  
9 Claims. (Cl. 292—113)



1. A latch structure, comprising: a pivotable handle member having a fulcrum axis near one end; a latching member pivotally connected at said one end immediately beyond said fulcrum axis and extending around and past said fulcrum axis toward the other end of said handle member, said latching member having means at its extremity for engaging a keeper; and a trigger member pivotally mounted in said handle member and cooperating with said latching member to secure said latching member in its keeper engaging position.

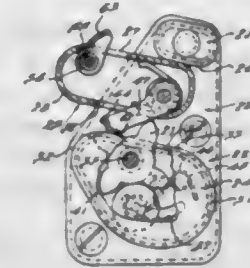
**2,712,956**  
**DOOR LOCK**  
Edward M. Miller, Kent, Ohio, assignor to The C. L. Gougler Machine Company, Kent, Ohio, a corporation of Ohio  
Original application March 11, 1948, Serial No. 14,341, now Patent No. 2,645,925, dated July 21, 1953. Divided and this application December 2, 1952, Serial No. 323,679  
1 Claim. (Cl. 292—167)



A door lock of the character described comprising a housing, a latch bolt reciprocatably mounted in said housing and spring biased for normal projection in a straight line path to door-locking position, a door knob, a rotatable spindle carried by said door knob, said spindle having its axis at right angles to and aligned with said path, a lever having a pivotal mounting on said housing to one side of said path, said lever projecting beyond the line of said path, a link connection between said bolt and the free end of said lever, said link having a pivotal connection with said bolt, said lever having a detent aligned with said spindle and said pivotal connection when said bolt is fully retracted, said lever having a bolt retracting cam surface on one side of said detent and a shank surface on the opposite side of said

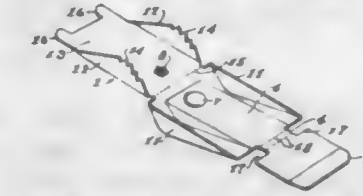
detent, said surfaces inclined away from said detent and outwardly from said path while extending generally toward said bolt, a projection rotatable with said spindle and eccentric of its axis, said cam surface directing said projection into said detent when said knob is rotated in one direction, and stop means limiting the movement of said lever to a position where said shank surface stops said projection short of said detent when said knob is rotated in the opposite direction.

**2,712,957**  
**LATCH MECHANISM**  
Rollo Marple, Jackson, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan  
Application March 30, 1951, Serial No. 218,447  
15 Claims. (Cl. 292—279)



1. In a latching mechanism having relatively movable bolt and keeper elements, a rotary member comprising one of said elements, said rotary member having a latching surface engageable with said other element when rotated in a latching direction, and means for dogging said rotary member against rotation in an unlatching direction, said means comprising an inclined track adjacent said rotary member, and a roller movably positioned on said track, said roller being adapted to wedgingly engage said rotary member when the roller is moved in one direction along said track, to thereby urge said rotary member in its latching direction, the surfaces of engagement of said roller and rotary member being so inclined relative to said track as to prevent unlatching movement of said rotary member.

**2,712,958**  
**CORD SEAL**  
William Stelzer, Summit, N. J., assignor to Stoffel Seals Corporation, Tuckahoe, N. Y.  
Application October 22, 1952, Serial No. 316,293  
3 Claims. (Cl. 292—325)



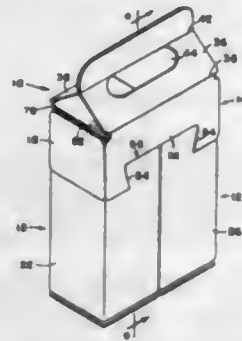
1. A cord seal formed of a single piece of sheet metal comprising a main portion having side walls, a pair of spaced longitudinally disposed cavities tapering off in depth towards their ends, each being adjacent to one of said side walls, a flap having toothed side flanges joining one end of said main portion, a score line at the juncture of said flap and said main portion so that said flap is foldable about said score line against said main portion whereby said toothed side flanges enter into said cavities, the deepest portions of said cavities being located near said juncture, a lug extending from the other and opposite end of said main portion, a narrow neck intermediate said main portion and said lug, said neck being weakened along transverse lines across said neck so that said lug is foldable about said lines against said body portion, and a pair of spaced extensions on said flap to accommodate said neck therebetween when said flap and lug are folded against said main portion.



# 2,712,959 CARTON CARRIER

Harry A. Tomarin, Cincinnati, Ohio, assignor to Loroco Industries Incorporated, Reading, Ohio, a corporation of Ohio

Application February 12, 1951, Serial No. 210,497  
2 Claims. (Cl. 294—87.2)

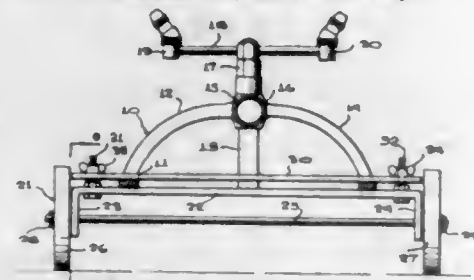


1. A carrier for a pair of elongate, substantially rectangular containers having peripheral lips around their top portions, said carrier comprising a continuous band including alternate side and end panels dimensioned to slidably engage the outer sides of a pair of said containers for securing them in side-by-side relationship, a pair of hand grip panels hinged one to the upper edge of each side panel, flaps hinged one to each side panel foldable upwardly into overlapping relationship with the inner faces thereof providing in each side panel an edge spanning adjacent sides of and receivable beneath the lips of said containers for suspendably mounting the containers from the carrier, said hand grip panels adapted to be disposed in one or the other of two normal positions, in lowered overlapping relationship with the tops of the containers for facilitating vertical stacking of a plurality of pairs of similar carrier-engaged containers, or in upwardly convergent relationship for facilitating suspension of the carrier therefrom.

# 2,712,960 WHEEL SUPPORTED LAWN SPRINKLER

Edwin G. Grubb, Jr., Palmyra, N. J.

Application June 20, 1952, Serial No. 294,630  
1 Claim. (Cl. 299—47)



In a lawn sprinkler, a sprinkler head having a base member, a base bar upon which said base member rests, ground engaging wheels on opposite ends of said base bar, a clamping bar overlying and engaging said base member, said clamping bar extending along said base bar, and bolts on said base bar and traversing portions of said clamping bar and releasably clamping said base member between said clamping bar and said base bar, said base member comprising a ring and said bolts being releasable to provide for adjustment of said ring crosswise of said base bar and clamping bar.

# 2,712,961 SPRAY DEVICE

Harry L. Richardson, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application December 21, 1950, Serial No. 201,995  
2 Claims. (Cl. 299—59)

1. In a gas conditioning tower, a self cleaning and protecting liquid spray device comprising a liquid sup-

ply conduit including a spray head extending into the gas conditioning tower and connected to a source of spray liquid, means to provide a protective film of gas about the periphery of the supply conduit and the spray head within the gas conditioning tower to prevent accretion on the supply conduit and the spray head of

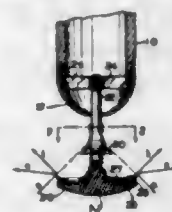


material carried by the gas to be conditioned, said means including conduit means concentric with said liquid supply conduit connected to a source of gas under pressure and providing an outlet for the gas adjacent the spray head for supplying a stream of gas about the surface of the spray head.

# 2,712,962 DOUBLE DEFLECTING SPRAY NOZZLE

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Application December 11, 1952, Serial No. 325,252  
1 Claim. (Cl. 299—121)



A double deflecting spray nozzle for a combustion liquid which comprises an axial supporting stem about which an annular stream of liquid flows, said stem having angularly-spaced deflecting lugs thereon which are circumferentially separated by unobstructed and relatively deep recesses which provide open passages extending inward substantially to said stem, and an end disc mounted on said stem below said lugs and having an annular concave deflecting surface, said lugs and said concave surface being engaged by different circumferential portions of the annular stream of combustion liquid, and said different portions being thereby directed along intersecting paths.

# 2,712,963 MECHANISM FOR FEEDING GRANULAR OR POWDERED MATERIAL FROM A RELATIVELY LOW PRESSURE TO A HIGHER PRESSURE

Tom Edwards, Smethwick, England, assignor to Incandescent Heat Company Limited, Smethwick, England, a British company

Application October 23, 1951, Serial No. 252,781  
6 Claims. (Cl. 302—49)

1. Mechanism for feeding granular or powdered material from low pressure environment into high pressure environment comprising a rotatable carrier, a sealing member having a surface slidably engaging a surface of said carrier, said carrier having a series of pockets, each of said pockets having means to admit a gaseous blast

while preventing loss of such material, means for supplying such material to said pockets in low pressure environment, said sealing member having a blast inlet port lo-

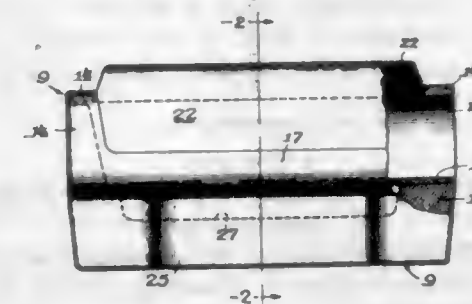


cated to register successively with said blast admitting means as said carrier is rotated, and means for moving said sealing member about an axis passing through said blast inlet port.

# 2,712,964 BLANK FOR TREAD UNITS

Gustav M. Waller, Geneva, Ill., assignor to Burgess-Norton Mfg. Co., Geneva, Ill., a corporation of Illinois

Application January 7, 1952, Serial No. 265,277  
2 Claims. (Cl. 305—10)

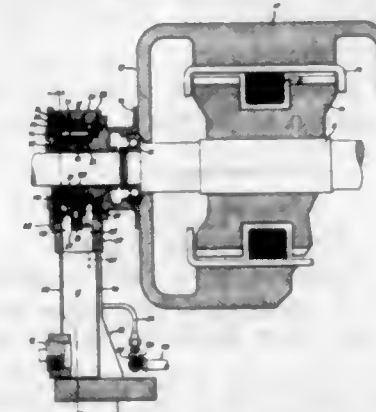


1. A one-piece blank for an endless tread unit, comprising a generally flat web portion having a pair of spaced upstanding pivot sleeve bearing supports at opposite ends, each having a pair of apertures therethrough for receiving opposite ends of a pair of pivot sleeves, said web also having upwardly curved lips connecting said bearing supports along opposite edges of said web, and a grouser projecting downwardly along said web portion and with a recessed upper surface open to the upper face and extending downwardly beyond the bottom face of said web portion.

# 2,712,965 DYNAMOMETER TRUNNION BEARING

Phil S. Potts, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application September 14, 1951, Serial No. 246,619  
4 Claims. (Cl. 308—9)



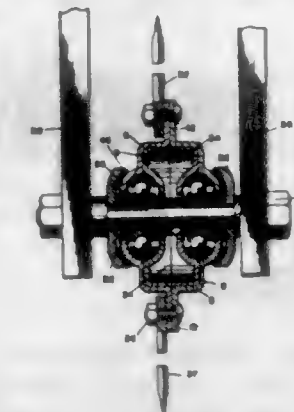
3. A force measuring instrument bearing assembly comprising bearing inner and outer races relatively rotatable peripherally about a common axis with said bearing inner race having an outer semi-spherical peripheral por-

tion and said bearing outer race having an inner peripheral portion of concave shape designed to mate with said semi-spherical peripheral portion with a clearance therebetween, means for supplying lubricant under pressure at circumferentially-spaced points around one of said peripheral portions, said means including indentations forming chambers in said one peripheral portion, separate conduit means providing communication to each of said chambers and having separate restrictor means of fixed dimensions located therein with all of said restrictor means constructed and arranged to apply equal restrictions to equal flows of fluid therethrough, and fluid pressure supply means communicating with all of said conduit means for providing a fluid under pressure thereto so that one of said mating bearing members may be supported by the other through said fluid under pressure which will also serve to provide a resistance to relative movement of one of said races with respect to the other through said clearance.

# 2,712,966 DOUBLE ROW BEARING

Jarlath William Brady and Attilio Regulus Spicacchi, Lancaster, Pa.

Application February 28, 1952, Serial No. 274,018  
13 Claims. (Cl. 308—181)



1. A double row ball bearing for coulters formed from a pair of identical single row bearings, comprising sleeves abutted in longitudinal alignment, said sleeves being formed with integral inner ball bearing races, outer ball bearing races, balls seated in and separating said races, a pair of plates in each single row bearing, each of said plates formed with a central semi-spherical depression and a central opening to receive the sleeve, said plates being joined with the depressions opposed to provide a housing for said outer race, one of said plates terminating in an annular rim, the other of said plates conforming to said rim and terminating in an annular lip at right angles to said rim to support a coulters, the rim terminating plates of each of said bearings being abutted to form a grease compartment, means permitting grease to flow from said compartment to said balls, means attached to the other of said plates to prevent the escape of grease from the race housing, and a guard overlapping the juncture of the outer of said plates with the sleeve and protecting said plate and sleeve.

# 2,712,967 LUBRICATING ARRANGEMENTS FOR ROTATING PARTS

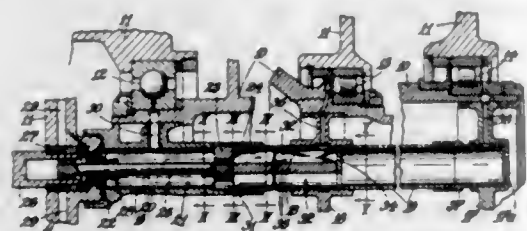
Peter Sutton, Spondon, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application January 29, 1954, Serial No. 407,080  
Claims priority, application Great Britain February 6, 1953  
14 Claims. (Cl. 308—187)

1. A lubricating arrangement for a rotating part supported in bearings in relatively stationary structure, comprising means defining an axial bore in the part with webs extending inwards from the wall of the bore part way



only towards the axis of said bore to form a number of lengthwise channels open towards the centre of the bore, means to deliver a metered quantity of lubricant to the bore to be distributed in the channels, and outlet means



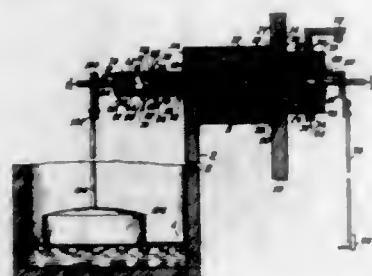
each comprising a conduit communicating at one end with one of said channels and at its other end with one of said bearings to convey the lubricant away from each of a plurality of the channels as separate streams to a corresponding plurality of bearings.

2,712,968

**BEARING MECHANISM FOR INSTRUMENTS**

William M. Reese, Odessa, Tex., assignor to Industrial Instrument Corporation, Odessa, Tex., a corporation of Texas

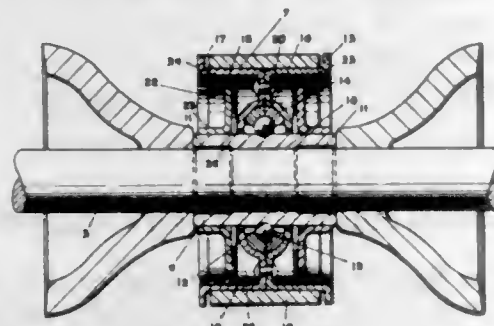
Application February 9, 1951, Serial No. 210,132  
8 Claims. (Cl. 308—187.1)



1. An instrument bearing comprising an elongated tubular housing, a shaft extending through the housing, bearings journaling the shaft in the housing with a chamber between the periphery of the shaft and the inner surface of the housing adapted to receive a lubricant therebetween, said housing having stepped internal portions at one end thereof with a shoulder therebetween, one of the bearings being mounted in one of the stepped portions, a member mounted in the other stepped portion and held by the shoulder spaced from the bearing means, means sealing the periphery of said member from the housing, and means sealing the shaft from said member.

2,712,969  
**BEARING**

Attilio Regulus Spicacci, Lancaster, Pa.  
Application October 6, 1953, Serial No. 384,410  
7 Claims. (Cl. 308—187.1)

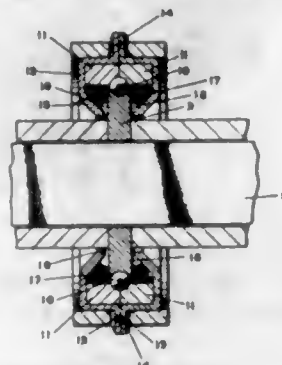


1. A bearing, comprising an inner race, an outer race, balls between said races, a pair of identical shells joined in opposed relation to form an outer race retaining means, said shells being extended to form an outer cylindrical surface to receive a supporting strap, an upstanding rim at the edges of said cylindrical surface to retain said support-

ing strap, and means carried by said cylindrical sleeve and contacting the inner wall of said outer cylindrical surface to form a pair of grease compartments.

2,712,970  
**SEAL**

Attilio Regulus Spicacci, Lancaster, Pa.  
Application June 22, 1953, Serial No. 363,051  
1 Claim. (Cl. 308—187.2)



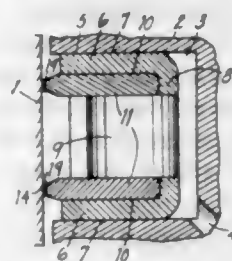
A seal for ball bearings of the type having a rotating inner race, an outer race comprising, a pair of identical shells combined to form both a support for said outer race and a lubricant housing, the inner edges of said shells being bent at an angle of approximately 35° to the sides of the inner race to form a pair of troughs, one on each side of said inner race, a rubber ring of circular cross-section mounted in each of said troughs under tension and in contact with the sides of the trough.

2,712,971

**PISTON RING ASSEMBLY AND ELEMENTS THEREOF**

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application May 17, 1952, Serial No. 288,369  
3 Claims. (Cl. 309—45)



3. A thin split cylinder wall engaging piston ring element formed of ribbon steel coiled edgewise and having substantially flat sides and an annular peripheral cylinder wall engaging face of a width approximately one-third the thickness of the element and annular side surfaces disposed in inwardly diverging relation to each other of a width exceeding the width of said peripheral face and merging into the same and into the flat sides, and chrome plating on the peripheral face of the ring and taperingly lapping the said annular surfaces and terminating in inwardly spaced relation to the flat sides of the ring.

2,712,972

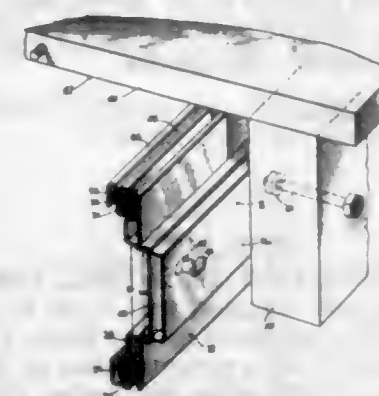
**EXTENSION ARM**

Morris Manson, Brooklyn, N. Y., and Frederick Hafekost, Hopatcong, N. J., assignors, by mesne assignments, to Steel Slides, Inc., New Rochelle, N. Y., a corporation of New York

Application February 3, 1954, Serial No. 407,964  
11 Claims. (Cl. 311—71)

1. A slide element including a pair of outwardly directed primary flanges, a pair of exteriorly accessible subchannel members positioned next to and along respective of said flanges, and a pair of interiorly accessible

subchannel members positioned next to and along respective of said first-mentioned subchannel members and con-

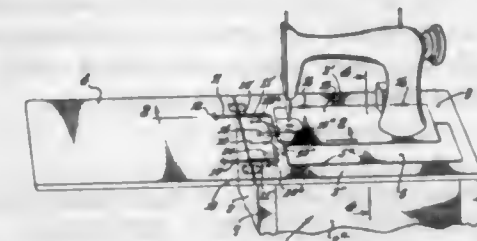


formed to receive in longitudinal sliding engagement the respective primary flanges of another such member.

2,712,973

**SEWING MACHINE CABINETS AND MEANS FOR ELEVATING SEWING MACHINE HEADS**

Charles C. James, Los Angeles, Calif.  
Application December 18, 1951, Serial No. 262,290  
3 Claims. (Cl. 312—26)



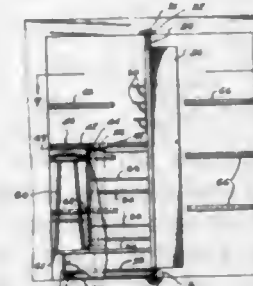
1. In a sewing machine, a cabinet including an open top having a rear rail and a front rail, a machine head having a base hinged at one side to said rear rail, a head supporting flap hinged to the front rail, to be raised and lowered as said machine head and base are raised to operating or lowered positions, a rigid arm depending from the hinged side of said base at one end thereof, at right angles thereto and adjacent the side of said cabinet opening, an extensible spring connected at one end to the lower end of said rigid arm and extended horizontally along the inner side of said cabinet to the front thereof, a bracket at the front of said cabinet, under said front rail to which the other end of said spring is connected, whereby to pull horizontally on the lower end of said depending rigid arm, to exert lift on said machine head when it is to be moved to operating and tilted positions.

2,712,974

**MULTIPLE-PURPOSE DOOR STRUCTURE**

Michele Renna, Los Angeles, Calif., assignor to Revolver International Inc., El Monte, Calif., a corporation of California

Application December 16, 1950, Serial No. 201,157  
12 Claims. (Cl. 312—292)



1. A multiple-purpose serving structure for an opening in the wall of a room for use in serving food, drinks and the like, said serving structure comprising: a door for said opening rotatable about an upright axis positioned centrally of the opening, said door having an aperture to serve as a doorway therethrough and be-

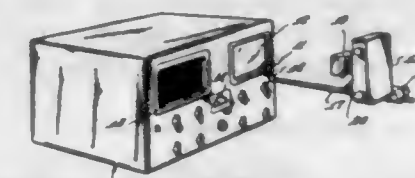
ing rotatable between a normal first position with one side of the door facing away from said room and a second serving position with said side of the door facing into the room; and a serving counter mounted on said one side of the door, said counter having an outer edge lying within the path of rotation of the door and an inner edge extending from one side of said doorway aperture to the other side of the doorway aperture, said inner edge extending away from the plane of said doorway aperture to provide space for a person to stand between the counter and the doorway, said counter being accessible from said room through said doorway aperture when said door is in its normal first position.

2,712,975

**ELECTRONIC DIAGNOSTIC INSTRUMENTS**

James G. Golseth, Altadena, and Charles C. Le Grand, South Pasadena, Calif., assignors to The Meditron Company, Pasadena, Calif., a corporation of California

Application July 18, 1949, Serial No. 105,412  
3 Claims. (Cl. 346—33)



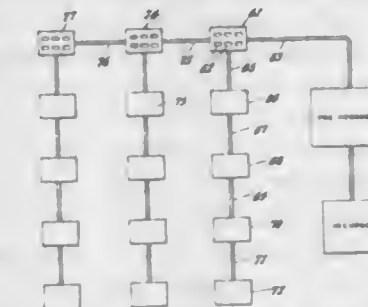
1. In an electronic diagnostic instrument for recording electromyograms, the combination of a circuit including an electronic amplifier having muscle tissue connecting means and capable of picking up and amplifying the voltages produced by muscle tissue, a cathode ray tube having a viewing screen, a sweep circuit connected to the cathode ray tube and capable of producing traces across said viewing screen alternately in prompt repetition and also in a single trace, a photographic camera positioned to include said viewing screen in its field of view while leaving the screen in the observer's view, said camera having a shutter operable to permit photographing of said field of view, a switch coupled to said shutter to operate the shutter, an observer-actuated shutter operator to permit the observer to actuate the shutter and photograph the viewing screen at a desired instant, a circuit coupled to said switch to cause the sweep circuit to produce traces across said viewing screen alternately in prompt repetition and singly in proper sequence upon observer actuation of said shutter operator to produce: cessation of the repetitive action of said traces, opening of the camera shutter, production of a single trace, closing of the camera shutter and restoration of the repetitive trace.

2,712,976

**AUDIENCE REACTION SYSTEM**

Paul H. Blaustein and Franklin D. R. Wald, New York, and William J. Millard, Jr., Pelham Manor, N. Y.; said Blaustein and said Wald assignors to said Millard

Application December 3, 1953, Serial No. 395,889  
15 Claims. (Cl. 346—33)



13. A method of determining audience reaction to a performance which comprises establishing a plurality of circuits through the audience each identified with a par-



ticular reaction to the performance, said circuits collectively identifying a full range of reactions experienced by members of the audience, varying the current flow through each of said circuits in the course of the performance in accordance with the varying reactions of the

members of the audience under control of said members, each member of the audience exerting a control over one or another of said circuits at all times, and determining the variations in current flow through each of said circuits as the performance progresses.

## CHEMICAL

2,712,977

## METHOD AND APPARATUS FOR TREATING A TOW OF FILAMENTS OR THREADS IN A LIMITED SPACE

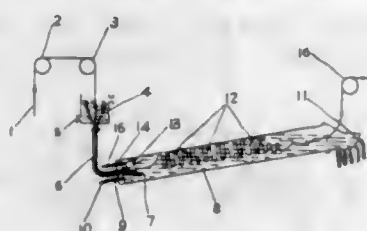
James Fargher Keggin, Seamill, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application June 25, 1952 Serial No. 295,437

Claims priority, application Great Britain

September 26, 1951

5 Claims. (Cl. 8—151.2)



1. In a method of treating in a non-tensioned condition a continuous tow of filaments with a treating liquid having a specific gravity greater than the specific gravity of the tow comprising subjecting said tow to a rapidly moving current of said treating liquid in an elongated downwardly directed narrow confined zone, said tow being carried by the treating liquid which flows concurrently therewith into the lower end of an upwardly inclined elongated confined zone having a cross-sectional area substantially greater than the cross-sectional area of said narrow zone to thereby reduce the linear velocity of said treating liquid to insure an absence of turbulence in the major portion of said upwardly inclined zone and cause the tow to fold irregularly and form a loose column of fiber which moves slowly up said upwardly inclined zone against the confining upper surface thereof, the point of exit of said treating liquid from said upwardly inclined zone being below the point where said treating liquid enters said narrow zone to thereby permit flow of said treating liquid down said narrow zone and through said upwardly inclined zone, and withdrawing the thus treated tow at the upper end of said second confined zone, the improvement which comprises controlling the velocity of said treating liquid in said upwardly inclined zone by withdrawing a portion of said treating liquid from said upwardly inclined zone near the inlet end thereof.

4. Apparatus for treating in a non-tensioned condition a continuous tow of filaments with a treating liquid having a specific gravity greater than the specific gravity of said tow comprising a first downwardly directed elongated narrow tubular member, means for continuously supplying treating liquid to an upper portion of said first tubular member, a second upwardly inclined elongated tubular member of substantially greater cross-sectional area than the narrowest part of said first tubular member, the lower end of said first tubular member communicating with the lower end of said upwardly inclined tubular member, said second tubular member having an outlet for liquid on the lower surface thereof, said outlet being a substantial distance above the lowest point on the upper inner surface of said second tubular member and a substantial distance below the upper portion of said first tubular member, means to withdraw liquid from said second tubular member positioned near the inlet end of said second tubular member and means to supply compressed gas to the inlet end of said second tubular member.

2,712,978

AMINO-ETHER GAS TREATING PROCESS  
Clyde L. Blohm, Los Angeles, and Fred C. Riesenfeld, Hollywood, Calif., assignors to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California  
No Drawing. Application November 10, 1950, Serial No. 195,126

10 Claims. (Cl. 23—2)

1. The process of treating a gaseous mixture stream for the removal therefrom of an acidic gas of the group consisting of hydrogen sulfide and carbon dioxide, that includes contacting said mixture with an absorbent containing an amino ether having the general formula



wherein "x" = 2 to 3, "y" = 1 to 4, and "z" = 2 to 3, and absorbing the acid gas in the amino ether, separately heating and regenerating the amino ether by liberation of the absorbed acid gas, and again contacting said gaseous stream with the regenerated amino ether.

2,712,979

## METHOD FOR REDUCING PYROPHORICITY OF URANIUM HYDRIDE POWDER

Thomas R. P. Gibb, Jr., Marblehead, Mass., and William H. Pasfield, Storrs, Conn., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
No Drawing. Application February 27, 1952, Serial No. 273,764

2 Claims. (Cl. 23—14.5)

1. The method for reducing the pyrophoricity of uranium hydride powder which comprises bringing in contact with the powder the vapor of an aliphatic amine in which the ratio of the number of carbon atoms to the number of nitrogen atoms is not greater than six.

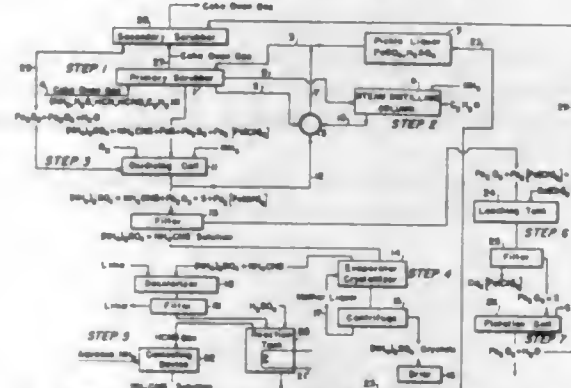
2,712,980

## PROCESS FOR USING SULPHATE LIQUORS FOR RECOVERING VALUES FROM COKE OVEN GAS

Richard D. Hoak, Whitehall, Pa.

Application September 6, 1952, Serial No. 308,271

13 Claims. (Cl. 23—76)



13. In a process wherein an aqueous solution containing ferrous sulfate and sulfuric acid is contacted with coke oven gas containing ammonia, hydrogen sulfide, hydrogen cyanide, thiocyanic acid and tar bases, to produce liquor containing ammonium sulfate, iron sulfide, iron ferrocyanide, ammonium thiocyanate, and tar bases, and the liquor is thereafter contacted with oxygen-containing gas, the improvement which comprises contacting the liquor at a temperature of 45° to 50° C. and at a pH of 6.5 to 7.5 with oxygen-containing gas with an intensity sufficient to convert iron sulfide into iron oxide and free sulfur.

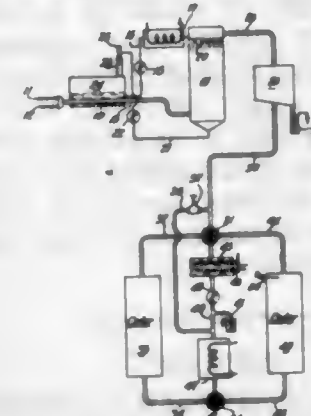
2,712,981

## GAS GENERATOR AND PROCESS FOR PRODUCING DRY GAS

Donald Beggs, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio

Application February 24, 1953, Serial No. 338,310

1 Claim. (Cl. 23—150)



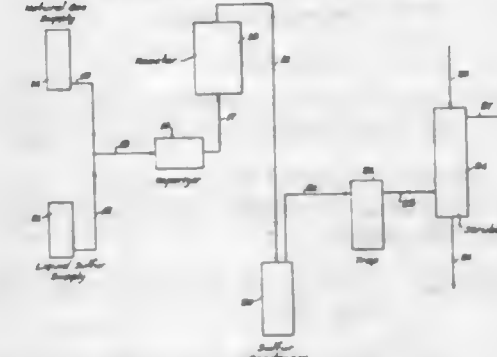
The method of providing a continuous stream of dry gas from a monoethanolamine-contaminated wet gas produced by combustion of fuel and subsequent removal of carbon dioxide from the products of combustion by absorption in a monoethanolamine solution, which method comprises passing a stream of the resulting wet gas through a container of active alumina desiccant while reactivating a second container of alumina desiccant, such reactivation including the steps of recirculating a stream of gas through the second container, heating the recirculating stream entering the second container to a temperature between 350° F. and 600° F. to convert the moisture in the second container to steam, while venting the recirculating stream against a slight back pressure, then cooling the recirculating stream to cool the desiccant below 212° F., and bleeding a portion of the wet methanolamine-contaminated gas into the recirculating stream during the heating and cooling steps, whereby the recirculating stream is maintained under a slight pressure at all times, and at the end of the heating operation steam is purged from the recirculating stream, the heating operation being continued until the desiccant is reactivated by removal of moisture and tarry residue, including moisture and tarry residue picked up from the methanolamine-contaminated wet gas bled into the recirculating stream, so that the only moisture and tarry residue left in the desiccant by such wet gas is that which is left during the cooling operation.

2,712,982

CARBON BISULFIDE PRODUCTION  
Kenneth W. Guebert, Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application May 28, 1951, Serial No. 228,731

5 Claims. (Cl. 23—206)



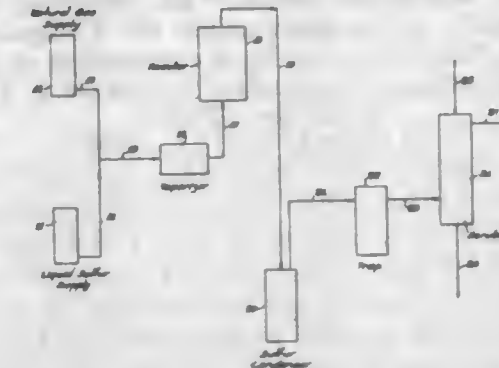
1. A method of producing carbon bisulfide that comprises contacting a vapor phase mixture of sulfur and a paraffinic hydrocarbon with a catalyst composed of magnesium oxide promoted by from 1 to 10 percent of an oxide of a metal of the group consisting of nickel, molybdenum and cobalt at a temperature from 500° to 700° C.

2,712,983

CARBON BISULFIDE PRODUCTION METHOD  
Kenneth W. Guebert, Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application May 28, 1951, Serial No. 228,732

4 Claims. (Cl. 23—206)



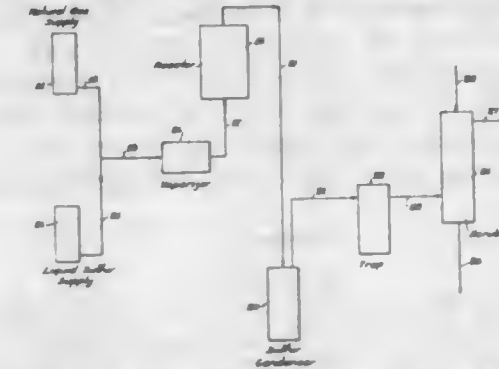
1. A method of producing carbon bisulfide that comprises contacting a vapor phase mixture of sulfur and a paraffinic hydrocarbon with a catalyst consisting of amorphous magnesium silicate consisting essentially of magnesium oxide and silicon dioxide combined in a mol ratio of from 1:2 to 1:4 and containing up to 20 per cent by weight of adsorbed water at a temperature from 500° to 700° C.

2,712,984

METHOD FOR CARBON BISULFIDE PRODUCTION  
Kenneth W. Guebert, Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application May 28, 1951, Serial No. 228,733

4 Claims. (Cl. 23—206)



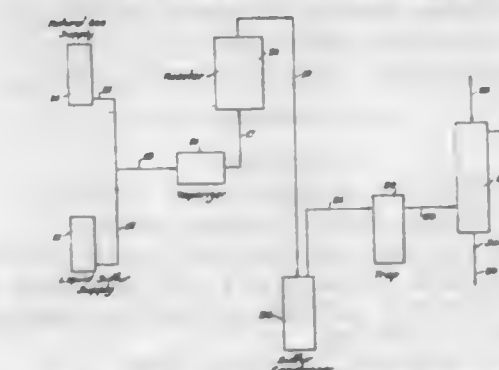
1. A method of producing carbon bisulfide that comprises contacting a vapor phase mixture of sulfur and a paraffinic hydrocarbon with a catalyst consisting of particles of an extracted high silica glass containing at least 90 per cent by weight silica promoted by cobaltous oxide at a temperature from 500° to 700° C.

2,712,985

PRODUCTION OF CARBON BISULFIDE  
Kenneth W. Guebert, Freeport, Tex., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application May 28, 1951, Serial No. 228,734

4 Claims. (Cl. 23—206)





paraffinic hydrocarbon with a catalyst consisting of particles of zirconium silicate at a temperature from 500 to 700° C.

2,712,986

**GEOCHEMICAL EXPLORATION METHOD**  
William B. Huckabay, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of Texas  
No Drawing. Application September 8, 1953,  
Serial No. 379,071  
12 Claims. (Cl. 23—230)

11. In a geochemical exploration method for determining the proximity of an underground petroleum reservoir in which the proximity of such a reservoir to earth samples taken from predetermined locations in an exploration zone is determined as a function of the content of predetermined paraffin hydrocarbons and lipids contained in said earth samples, the steps comprising collecting earth samples from said exploration zone, extracting each of said earth samples under comparable conditions with a solvent in which paraffin hydrocarbons and lipids contained in said earth samples are soluble to obtain a solution of extract for each of said earth samples containing paraffin hydrocarbons and lipids contained in each of said earth samples, the solvent being the same for each of said earth samples, removing the solvent from each of said solutions of extract, weighing each of the resulting residues of the solutions of extract to determine the amount of the paraffin hydrocarbons and the amount of the lipids extracted from each of said earth samples, quantitatively analyzing each of the resulting residues of the solutions of extract under comparable conditions for the amount of the paraffin hydrocarbons contained therein, whereby the ratio of the amount of the paraffin hydrocarbons to the amount of the lipids in each of the earth samples may be determined, and correlating these ratios for the various earth samples with the sample locations in said exploration zone to determine anomalous variations in said ratios indicative of the proximity of an underground petroleum reservoir.

2,712,987

**ABRADING BELT AND METHOD OF MAKING IT**  
William H. Storrs, West Hartford, and Arthur J. Wells, Bloomfield, Conn., assignors to The Hartford Special Machinery Co., a corporation of Connecticut  
Application October 9, 1951, Serial No. 250,404  
17 Claims. (Cl. 51—293)



1. The process of producing an abrasive element, having abrasive grains at the surface of a predetermined nominal size, which comprises softening a surface of a base material consisting of synthetic linear condensation polyamide only adjacent the surface by a solvent to a depth not in excess of three times the nominal grain size, imbedding abrasive particles in the polyamide only where the surface is softened while retaining the interior of the polyamide unchanged, and removing the solvent.

2,712,988

**INDUSTRIAL DRILLING TOOLS**  
Jacob Kurtz, Teaneck, N. J.  
No Drawing. Original application June 1, 1949, Serial No. 96,615, now Patent No. 2,607,676, dated August 19, 1952. Divided and this application February 29, 1952, Serial No. 274,305  
9 Claims. (Cl. 51—309)

7. As an article of manufacture, a drill bit comprising hard sharp cutting particles comprising one of the ma-

terials from the group consisting of diamonds and metallic carbides embedded in a pressed and sintered alloy of homogeneous composition, high strength and hardness, high thermal expansion and high abrasion and shock resistance comprising 90–60% by weight of a first separately prepared mixture and 10–40% by weight of a second separately prepared mixture in which said first mixture comprises 94% by weight of at least one metal carbide of the group consisting of tungsten, titanium, zirconium, vanadium, chromium, tantalum and molybdenum and 6% by weight of cobalt and said mixture comprises 65% by weight of nickel and beryllium combined, 25% by weight of manganese and 10% by weight of copper in which the beryllium is not less than .25% nor more than 3.0% of the total of said second mixture and welded to a metallic shank.

2,712,989

#### PROPELLANT COMPOSITION COMPRISING NITROPARAFFIN GEL

Herman Maisner, Los Angeles, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio

No Drawing. Application February 1, 1947,  
Serial No. 725,977

3 Claims. (Cl. 52—0.5)

1. A composition of matter comprising from about 10% to 50% by weight of nitrocellulose, 50% to 90% by weight of nitromethane, and from a trace to 3% by weight of chrome acetyl acetate.

2,712,990

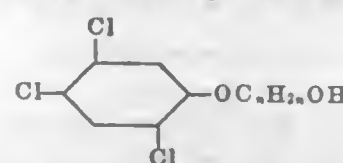
#### METHOD AND COMPOSITION FOR THE CONTROL OF UNDESIRE VEGETATION

Arthur W. Swezey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 23, 1951,  
Serial No. 257,938

7 Claims. (Cl. 71—2.3)

1. A method for inhibiting the growth of vegetation which comprises the step of exposing seedling roots and germinating seed to the action of a growth-inhibiting amount of a compound having the formula



wherein  $n$  is an integer from 2 to 3, inclusive, such exposure being accomplished under conditions normally leading to the growth of the vegetation concerned.

2,712,991

#### METHOD AND COMPOSITION FOR THE CONTROL OF UNDESIRE VEGETATION

Arthur W. Swezey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 23, 1951,  
Serial No. 257,939

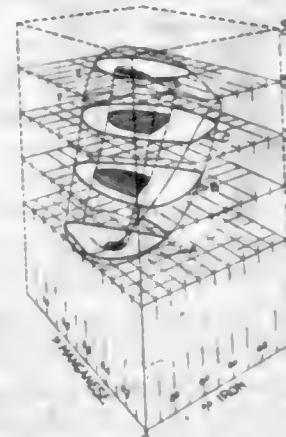
8 Claims. (Cl. 71—2.3)

1. A method for inhibiting the growth of vegetation which comprises the step of exposing germinant seed and young seedling plants to the action of a growth-inhibiting amount of a compound selected from the group consisting of 2,4-dichlorophenoxypropoxypropanol and 4-chloro-2-methylphenoxypropoxypropanol.

2,712,992

#### COPPER-BASE ALLOY

Verne Pulsifer, La Grange, Ill., and Michael V. Nevitt, Blacksburg, Va., assignors to Olin Mathieson Chemical Corporation, a corporation of Virginia  
Application November 16, 1953, Serial No. 392,076  
13 Claims. (Cl. 75—161)



7. An electrical conductor characterized by an electrical conductivity of at least 50% I. A. C. S., a tensile strength of at least 75,000 pounds per square inch, and formed of a cold-worked copper-base alloy composed of from about 0.16% to 0.58% phosphorus, from about 0.02% to 0.89% iron, and from about 0.27% to 1.12% manganese, with the balance substantially copper, the percentages of phosphorus, iron and manganese corresponding to a point within the volume E of the three-dimensional diagram of Figure 8 of the drawings.

2,712,993

#### LEAD ALLOY FOR CABLE SHEATHING

John F. Eckel, Scott, N. Y., assignor to General Electric Company, a corporation of New York  
No Drawing. Application September 9, 1952,  
Serial No. 308,709

2 Claims. (Cl. 75—166)

1. A lead base alloy consisting of from 0.02 to 0.08% aluminum, 0.03 to 0.15% zinc, balance lead, and small amounts of impurities present in commercial leads.

2,712,994

**PROCESS FOR IMPROVING PAPER AND PRODUCT**  
George E. Niles, Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 27, 1949,  
Serial No. 73,217

9 Claims. (Cl. 92—3)

3. Paper toweling composed of wood pulp fibers having incorporated therein alum and from about 0.2 to 0.5% by weight, based on the dry pulp in the toweling, of a water-dispersible reaction product of (1) 100 parts by weight of a material selected from the group consisting of tall oil, rosin oils, rosin acids and mixtures thereof and (2) from about 50 to 210 parts by weight of ethylene oxide.

2,712,995

#### PROCESS FOR THE DIRECT PRODUCTION OF POSITIVE PHOTOGRAPHIC IMAGES

Edith Weyde, Leverkusen-Wiesdorf, Germany, assignor to Agfa Aktiengesellschaft für Photofabrikation, Leverkusen, Germany, a corporation of Germany  
No Drawing. Application August 6, 1949,  
Serial No. 109,073

Claims priority, application Switzerland July 4, 1949  
19 Claims. (Cl. 95—2)

1. A process for the production of photographic images using a photographic material comprising, in contact with each other in at least one layer, a spontaneously developable silver salt emulsion which is developable under

ordinary developing conditions in a special silver salt developing solution without previous exposure to actinic light and a light sensitive silver halide emulsion which, only after exposure to actinic light, is developable in said special developing solution to a negative image, said latter silver halide emulsion being of higher light sensitivity than said spontaneously developable silver salt emulsion, the proportion of the higher light-sensitive silver salt to the spontaneously developable silver salt lying in the range between about 0.1 to 10 grams of the higher light-sensitive silver salt to about 100 grams of the spontaneously developable silver salt which comprises exposing said material to an object to be reproduced such that only the higher light sensitive silver salt emulsion is affected by the exposing light and developing said exposed material in said special developer, the latter being an ordinary silver salt developing solution containing as solvent an agent which has a higher dissolving power for the lower than for the higher light sensitive silver salt and containing salts having the same anions as those of said higher light sensitive silver salt at most in such a quantity that the reduction of said spontaneously developable silver salt emulsion is not prevented until the developing solution forms an extremely faint negative image in the silver halide emulsion, and forms a conspicuous positive image in the spontaneously developable emulsion, the non-metallic by-products from the faint negative image effectively inhibiting the spontaneous development of a conspicuous positive image in the spontaneously developable emulsion in those areas having the negative image whereby a conspicuous direct positive image is developed.

2,712,996

#### PHOTOGRAPHIC PROCESS USING A LIGHT SENSITIVE RESIN COMPOSITION

Stanley B. Elliott, Shaker Heights, Ohio, assignor to Ferro Corporation, Cleveland, Ohio, a corporation of Ohio  
No Drawing. Application December 10, 1952,  
Serial No. 325,207

7 Claims. (Cl. 95—7)

1. The process of making photographic images which comprises selectively exposing a masked photo-sensitive film for at least 10 seconds to an actinic light source having an energy output of at least 120 milliwatts per square centimeter of exposed surface, said film consisting essentially of an intimate admixture of: (a) a substantially straight chain organic halogenated vinyl polymer resin, said resin capable of dehydrohalogenation with the formation of at least 5 conjugated double bonds; (b) a sequestering agent selected from the class consisting of silver carbonate, silver oxide, silver phosphate, silver naphthenate, silver acetate, silver cumate, silver octoate, silver compounds of phenols, silver compounds of mercaptans and the silver salt of 2 hydroxy 1, 4, naphthoquinone; and (c) a substance selected from the class consisting of dibutyl tin maleate, dibutyl tin diacetate, dibutyl tin alkyl phosphate, dibutyl tin dinaphthenate, dibutyl tin octoate, tetra butyl tin, ethyl silicate, thiodipropionitrile, triphenyl borate, propyl acid maleate, nopol acid maleate, dibutyl maleate, triphenyl phosphite, phenol, lead tartrate, tributyl borate, ethyl methacrylate, lauryl methacrylate and crotonic acid and thereafter submitting said film to a temperature of about 250° F. to about 450° F. for about 1 to about 30 minutes to desensitize the unexposed areas.

2,712,997

#### PREPARING ANIMAL FEED

Maxwell L. Cooley, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware  
No Drawing. Application May 28, 1952,  
Serial No. 290,579

4 Claims. (Cl. 99—2)

1. Process of preparing an animal feed containing an antibiotic which comprises preparing a premix contain-

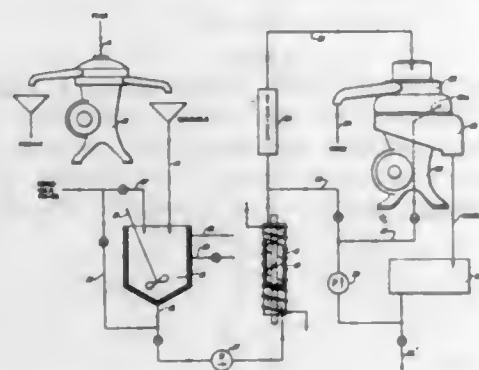


ing the antibiotic, a soluble nitrite and an inert carrier, thoroughly mixing the premix until the composition is uniform, adding the premix to the remaining ingredients of an animal feed and agitating the animal feed until the composition is uniform as determined by nitrite content.

**2,712,998**  
**PROCESS FOR THE PRODUCTION OF A FERMENTATION BEVERAGE**  
Otto Vosseler, Schwalkheim, Germany  
No Drawing. Application September 20, 1952,  
Serial No. 310,735  
11 Claims. (Cl. 99—29)

1. A process for the production of beverages which comprises introducing into an aqueous medium a substance taken from the class consisting of the leaves of aromatic vegetable materials, extracts from said leaves and mixtures of said leaves and extracts, dissolving a sugar in said medium, introducing a ferment taken from the class consisting of *Endomyces magnusii*, *Endomycopsis*, and *Sachsis suaveolens*, and fermenting the above composition.

**2,712,999**  
**PROCESS FOR MAKING CHEESE**  
George J. Strezynski, Poughkeepsie, N. Y., assignor, by mesne assignments, to Faster Food Products Company, New York, N. Y., a partnership  
Application September 18, 1951, Serial No. 247,125  
10 Claims. (Cl. 99—116)

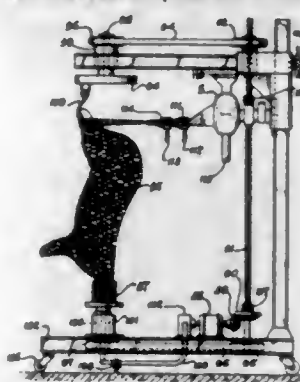


1. In the production of skim milk cheese, the process which comprises accumulating a body of milk having less than 2% of fat in a setting zone, holding the thin milk in said zone at a temperature of 70°–78° F. in the presence of a starter, coagulating the curds in said zone to form therein an acid mixture of precipitated curds as a heavier constituent and whey as a lighter constituent, heating the curds while fluid to a temperature of 80°–100° F., feeding the curds at a temperature of 80°–100° F. to a locus of centrifugal force and there separating them into an inner annulus of whey and an outer annulus of curds, continuously discharging the whey from said locus from the inner annulus therein, discharging curds from said outer annulus through the outer wall of the locus at high speed, and impacting the discharging curds by suddenly changing their velocity.

**2,713,000**  
**METHOD OF MAKING FOODS**  
Harry R. Ansel, Elmwood Park, Ill., assignor to Wm. J. Stange Co., Chicago, Ill., a corporation of Illinois  
No Drawing. Application September 27, 1952,  
Serial No. 311,953  
7 Claims. (Cl. 99—140)

1. A method of preparing seasoning material from a mass of pepper berries of varying specific gravities, which comprises extracting oleoresin only from a portion of the berries having relatively low specific gravities thereby obtaining a higher yield of oleoresin.

**2,713,001**  
**PACKAGING**  
Fred W. Manning, Palo Alto, Calif.  
Application March 8, 1954, Serial No. 414,717  
28 Claims. (Cl. 99—171)



18. The method of packaging an article comprising: uniting a fibre-forming material at predetermined and adherent points of contact to discrete solids; propelling the said solids with a portion of the said adherent material by force of a fluid stream to attenuate the material into discontinuous filaments attached to the solids, and convey the filaments and solids; moving the said stream and said article relatively and in predetermined relation during the said conveyance to distribute and deposit the said filaments and said solids in a continuous circuit over the article; and bonding the said solids by the said filaments to form an integral enclosure for the said article.

**2,713,002**  
**METHOD OF AGING MEAT**  
Beverly E. Williams, Hillsborough, Calif., assignor to Lamitex Products, Inc., Redwood City, Calif., a corporation of Delaware  
No Drawing. Application June 9, 1953,  
Serial No. 360,615  
13 Claims. (Cl. 99—174)

1. An improved process for aging freshly skinned meat carcasses which comprises storing said carcass in the presence of ultra violet radiation, said carcass being wrapped in a unitary wrapper comprising an absorbent material and a moisture-vapor-permeable, pliable, extensible film formed of film-forming organic material adhered together, said film having a moisture-vapor-permeability due to minute perforations therein of between about 0.25 and about 2.75 grams per 50 square centimeters per 24 hours at room temperature and 100% relative humidity differential.

**2,713,003**  
**DEHYDRATION OF FOOD PRODUCTS**  
Eugene J. Rivoche, Washington, D. C.  
No Drawing. Application March 9, 1951, Serial No. 214,837. In France October 11, 1941  
Section 1, Public Law 690, August 8, 1946  
Patent expires October 11, 1961  
2 Claims. (Cl. 99—204)

1. In the dehydration of solid foodstuffs, the step of rendering permeable the outer surface of the foodstuff which comprises exposing said substance to a cooling medium at a temperature sufficiently low to rapidly lower the temperature of the outer layer of said substance to a temperature substantially below the freezing point of the liquid content of said layer, maintaining the foodstuff in heat exchange relationship to the cooling medium for a length of time sufficient only to freeze the liquid content in said outer layer to produce minute frozen particles of crystalline form immediately below the surface of said substance, which frozen particles pierce said surface, the portion of said food stuff inwardly of the outer layer being maintained at a temperature above its freezing point, and thereafter raising the temperature of said outer frozen layer sufficiently to cause said frozen particles to melt.

**2,713,004**  
**METHOD OF PREPARING A NACREOUS COMPOSITION AND AN ARTICLE CARRYING A SUBLIMED NACREOUS MATERIAL**  
Leon M. Greenstein, New York, N. Y., assignor to The Mearl Corporation, New York, N. Y., a corporation of New Jersey  
No Drawing. Application January 25, 1951,  
Serial No. 207,839  
9 Claims. (Cl. 106—193)

1. A method of preparing a nacreous composition comprising enclosing a sublimable nacreous-forming material in an evacuated space, heating said material to its sublimation temperature and depositing said material on a clear non-resinous plastic film suitable as a vehicle, said plastic film in turn being supported on an extended smooth surface coated therewith, and subsequently stripping said film carrying the deposited material from said extended surface and fragmenting the said deposited material.

8. An article of simulated pearl characterized by its being coated with a composition consisting essentially of a vehicle in which is suspended a sublimed nacreous material.

**2,713,005**  
**PHTHALOCYANINE PIGMENTS**  
Arne Christian Baunsgaard and Borge Ingemann Knudsen, Olbylyng, pr. Koge, Denmark, assignors to Kemisk Vaerk Koge A/S, Copenhagen, Denmark, a firm  
No Drawing. Application August 28, 1951,  
Serial No. 244,108  
Claims priority, application Netherlands August 29, 1950  
4 Claims. (Cl. 106—288)

1. Phthalocyanine pigments comprising copper phthalocyanine and from about 2% to 6% by weight of a water insoluble magnesium phthalocyanine compound.

**2,713,006**  
**PASTE PIGMENTS**  
Samuel N. Hunter, East St. Louis, Ill., assignor to Hunter Metallic Products Corporation, East St. Louis, Ill., a corporation of Illinois  
No Drawing. Application January 7, 1952,  
Serial No. 265,360  
14 Claims. (Cl. 106—308)

3. A paste pigment composition containing finely divided particles of a ferrous metal, wetted and coalesced with a wetting agent comprising 25 to 80 per cent of liquid chlorinated polyphenyl, having a chlorine content of not more than approximately 60 per cent to form soft, or plastic pigment compositions having unusual utility.

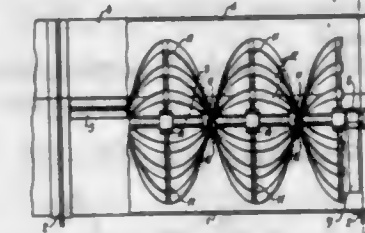
**2,713,007**  
**METHOD OF APPLYING A PROTECTIVE AND ELECTRICALLY INSULATING COVERING TO COMPONENTS**  
William Frank Glover and Frank Ernest Giles, London, England, assignors to International Standard Electric Corporation, New York, N. Y.  
No Drawing. Application November 28, 1952,  
Serial No. 323,142  
Claims priority, application Great Britain December 13, 1951  
4 Claims. (Cl. 117—113)

1. Method of applying a protective and electrically insulating covering to a solid electrical component, which method comprises dipping the said component into a dispersion of powdered acetylated paper in a volatile liquid medium to provide a covering of the dispersion upon said component, removing said covered component from said dispersion, and evaporating the volatile medium to leave an even coating of paper on the component.

**2,713,008**  
**PROCESS OF IMPREGNATING MATERIAL FIBRES WITH ZINC THIOCYANATE AND ARTICLE PRODUCED THEREBY**  
Wilhelm Schulenburg, Frankfurt am Main, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt, Germany  
No Drawing. Application September 2, 1952,  
Serial No. 307,577  
Claims priority, application Germany September 4, 1951  
10 Claims. (Cl. 117—138.5)

1. A process for producing a fungicidal textile material composed of natural fibers comprising impregnating the material with a zinc thiocyanate solution.

**2,713,009**  
**PROCESS AND APPARATUS FOR THE COUNTER-CURRENT LIXIVIATION OF SOLID MATERIAL**  
Henning Anton Brüniche-Olsen, Gentofte, Denmark, assignor to Aktieselskabet de Danske Sukkerfabrikker, a corporation of Denmark  
Application April 23, 1951, Serial No. 222,402  
Claims priority, application Denmark April 25, 1950  
11 Claims. (Cl. 127—7)



2. A method for the continuous counter-current lixiviation of disintegrated material comprising the steps of establishing and maintaining a body of the material in closely packed, but liquid pervious condition and in the geometrical shape of a solid of revolution, supplying fresh material at one end and removing treated material from the other end of the said body, rotating said body about its axis, conveying the material longitudinally through the body from the supply end to the discharge end, subjecting the surface of said body in one angular range of its said rotation to pressure having a component at right angles to the axis of said rotation, passing a flow of lixiviating liquid under the influence of gravity in counter-current to the travel of the material through a section of the body, said section having for a constant speed of rotation of the body a constant location relative to a vertical plane through the axis of rotation.

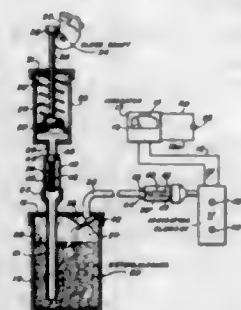
4. An apparatus for the lixiviation of a disintegrated solid material comprising a closed, oblong trough, having at opposite ends thereof an inlet and an outlet respectively for said material, a screw conveyor extending longitudinally through said trough and having helical conveying blades, means for rotating said conveyor within said trough to advance said material in a closely packed, however liquid penetrable condition from said inlet to said outlet, means for supplying a liquid extraction agent to said trough at the end of same where said outlet is located, means for discharging the said liquid at the opposite end of the trough, and passage areas for said agent in the said helical conveying blades, the said helical conveying blades consisting in a plurality of mutually spaced helical bands running along a common helical surface.

**2,713,010**  
**METHOD OF CONDITIONING HOT WIRE GAS DETECTORS**  
Louis F. Bonner, Houston, Tex., assignor, by mesne assignments, to Esso Research and Engineering Company, Elizabeth, N. J., a corporation of Delaware  
Application October 19, 1953, Serial No. 386,845  
3 Claims. (Cl. 134—2)

1. A method for conditioning a hot wire gas detector for use in well logging operations in which said hot wire



becomes fouled with combustible deposits, which comprises contacting said hot wire with vapors of a volatile oxygenated organic compound selected from the group



consisting of the aliphatic alcohols, ketones, and ethers having a carbon chain of no more than 3 atoms, and igniting said vapors whereby said deposits are removed from said hot wire.

#### 2,713,011 METHOD AND APPARATUS FOR CLEANING METAL STRIPS

George Durst, Attleboro, Mass., assignor to Metals and Controls Corporation, Attleboro, Mass., a corporation of Massachusetts

Continuation of abandoned application Serial No. 166,631, June 7, 1950. This application February 24, 1954, Serial No. 412,151

6 Claims. (Cl. 134-15)



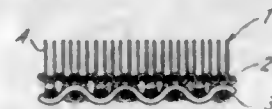
1. Apparatus for cleaning the inwardly opposed faces of two strips travelling in spaced face-to-face relation, comprising means defining a chamber having a strip inlet and a strip outlet end, said means having an opening in one side to the chamber, a removable closure for the side opening, a pipe carried by and removable with the closure extending across the chamber in position for the two strips to travel on opposite sides thereof, said pipe having a free end formed for ready insertion between the strips and having gas outlet apertures directed toward the inlet end of the chamber adapted to emit a blast of gas directed toward the inlet end of the chamber to blast the entire width of the inwardly opposed faces of both strips to sweep dust therefrom, the gas emitted from the blast device flowing between the strips in the direction opposite to that of travel of the strips toward and out of the inlet end of the chamber to avoid redeposition of dust on the strips.

3. The method of cleaning the inwardly opposed faces of two continuous strips travelling continuously in spaced face-to-face relation to a region where they are brought together in face-to-face engagement, comprising sweeping dust from the opposed faces of the strips by a blast of clean gas introduced into the space between the strips at a zone rearward of their region of engagement and directed rearward with respect to the direction of travel of the strips, and confining the space between the strips from their region of engagement rearward past the zone of the introduction of the gas whereby the gas is confined to flow rearward in the space between the strips to avoid redeposition of dust on the strips and outside air is excluded from between the cleaned strips.

#### 2,713,012 FLOOR RUG Fred W. Hartstein, Houston, Tex. Application March 13, 1952, Serial No. 276,309 2 Claims. (Cl. 154-49)

1. A floor rug having a stiff heavy body comprising a flat layer of relatively hard coarse fibers and a flat

pliable woven layer containing softer fibers superposed on the first-named layer and co-extensive therewith and



looped threads attached to said body and extending above the pliable layer to form the top surface of said rug, said threads extending through both of said layers.

#### 2,713,013 RAILROAD TIE PAD AND METHOD OF MAKING SAME

Ray E. Spokes, Ann Arbor, Mich., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware

No Drawing. Application March 22, 1952,

Serial No. 278,136

10 Claims. (Cl. 154-90)

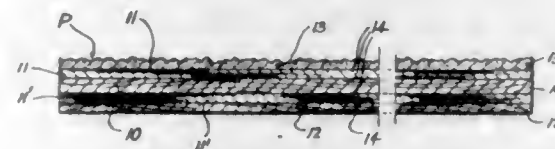
1. A railroad tie pad adapted to be placed between a railroad tie and the tie plate therefor comprising, as the essential components thereof, short length frictioned cords and small pieces of frictioned fabric coated with uncured rubber subjected to a vulcanizing cure during formation of the pad by heat and pressure to bind said cords and fabric pieces together into a tough and durable body capable of withstanding severe loading and stressing during use, and sufficient asphalt uniformly dispersed throughout the body of the pad during the formation thereof to seal the pad against weather, decay, and infiltration by foreign bodies, said cords being aligned generally parallel to the edge of the pad that will be transverse to the direction of travel of the locomotive over the pad so that the pad will have its greatest strength in said direction.

#### 2,713,014 COMPOSITE LAMINATED PANEL AND METHOD OF ITS MANUFACTURE

Fred L. Johnson, Seattle, Wash.

Application January 2, 1952, Serial No. 264,404

4 Claims. (Cl. 154-106)



1. The method of processing a hardboard panel of the type wherein one side embodies a hard layer of appreciable thickness and greater density than the other side produced in the formation of the panel, to eliminate warping stress, which method comprises cutting away the said hard layer to the full depth of the thickness thereof.

#### 2,713,015 METHOD OF MANUFACTURING HOLDER FOR STEREO-PAIRED TRANSPARENCIES

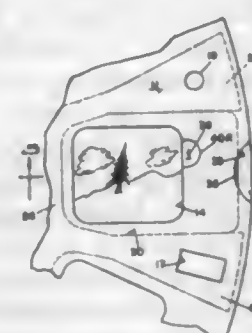
Lester H. Paulsohn, Portland, Oreg., assignor to Sawyer's Inc., Portland, Oreg., a corporation of Oregon

Original application December 8, 1951, Serial No. 260,657. Divided and this application March 31, 1953, Serial No. 345,809

2 Claims. (Cl. 154-118)

1. The method of manufacturing a laminated pocketed holder for stereo-paired transparencies, comprising coating both surfaces of a thin sheet of metal with a thin film of a heat-reactive adhesive, drying the adhesive, severing from the sheet an inner lamination having pocket defining, vertical, edge surfaces free of adhesive, placing said

inner lamination between a pair of fibrous laminations, parallel spaced relation between the overlapped portions of film and applying electric current to the resistance



inations to affix the same together by reaction of said adhesive.

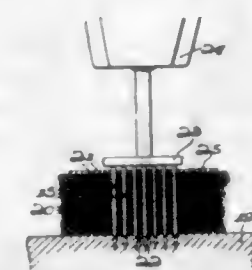
#### 2,713,016 LAMINATED ARTICLE AND METHOD OF MAKING SAME

Alexander C. Weiss, Takoma Park, Md.

Application May 5, 1953, Serial No. 353,248

10 Claims. (Cl. 154-122)

(Granted under Title 35, U. S. Code (1952), sec. 266)

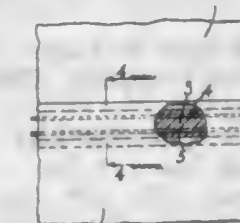


1. A method of making a rigid lightweight laminated panel comprising forming a layup of a plurality of woven fabric layers impregnated with a thermosetting plastics material in the plasticized state, puncturing through the layup in one direction at a plurality of spaced points, snagging threads of the woven fabric layers and pulling them through the punctured regions of the layup in the opposite direction to which it was punctured, severing the snagged threads within the punctured regions to expose their internal fibers, whereby the plasticized thermosetting material penetrates into the fibers of the severed threads and forms therewith substantially continuous reinforcing columns through the layup, and then applying heat and pressure to the layup to cause hardening of the thermosetting plastics material for completing the panel.

9. A rigid lightweight structural panel comprising a multiplicity of layers of woven fabric arranged in superposed relation and bonded together by a hardenable plastics material; and a multiplicity of spaced substantially continuous reinforcing columns extending through substantially all of said layers and materially strengthening the panel against delamination, the columns consisting of a multitude of severed fibers snagged from the woven fabric layers and pulled through the panel in one direction and being saturated with the hardenable plastics material with which the layers are impregnated.

#### 2,713,017 WELDING PLASTIC FILM SECTIONS Carl N. Bruns, Branford, Conn., assignor to The Connecticut Hard Rubber Company, New Haven, Conn., a corporation of Connecticut Application July 12, 1954, Serial No. 442,810 17 Claims. (Cl. 154-126)

1. The method of seaming plastic film sections which comprises placing said film sections in overlapped relationship, inserting two electrical resistance wires in



wire to fuse and integrate the sections together along the seam.

#### 2,713,018

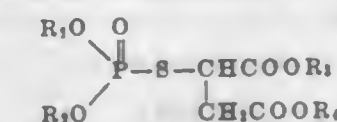
#### O,O-DIALKYL S-(1,2-DICARBALKOXYETHYL) MONOTHIOPHOSPHATES AND MITTICIDE COMPOSITIONS CONTAINING THE SAME

Gerald A. Johnson, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 18, 1953, Serial No. 337,693

8 Claims. (Cl. 167-22)

1. A monothiophosphate ester of the general formula



in which R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> each represent an alkyl radical having from one to four carbon atoms.

#### 2,713,019

#### ANTIBIOTIC PHARMACEUTICAL PREPARATION CONTAINING POLYETHYLENE GLYCOL DIESTER AS VEHICLE

Sampson F. Jeffries, Indianapolis, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware

No Drawing. Application January 31, 1951, Serial No. 208,846

5 Claims. (Cl. 167-58)

1. A pharmaceutical preparation including a vehicle which comprises a mixture containing at least 50% of 12 to 18 carbon atoms difatty acid esters of polyethylene glycols of from 200 to 600 molecular weight and at least 10% of a pharmaceutical carrier comprising substantially anhydrous modifying substances and containing minor quantities of polymyxin and bacitracin.

#### 2,713,020

#### REPOSITORY BISMUTH SUBSALICYLATE

Frank Harold Buckwalter, De Witt, N. Y., assignor to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York

No Drawing. Application October 21, 1953, Serial No. 387,549

7 Claims. (Cl. 167-68)

1. A therapeutic preparation comprising bismuth subsalicylate dispersed in a vehicle comprising an injectable oil having dispersed therein a quantity of a fatty acid salt of a metal selected from the group consisting of aluminum, zirconium, and germanium sufficient to prevent permanent settling of the bismuth subsalicylate after standing over long periods of time, said fatty acid being selected from a group consisting of long chain saturated and unsaturated monocarboxylic acids having from 12 to 22 carbon atoms inclusive.



2,713,021

**COUNTER-CURRENT FRACTIONATION OF ADRENOCORTICOTROPHIC HORMONE SUBSTANCES**

Wilfrid F. White and Joseph W. Giffie, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 1, 1950, Serial No. 171,758

3 Claims. (Cl. 167-74)

1. The method of increasing the potency of an adrenocorticotrophic hormone preparation, comprising subjecting an adrenocorticotrophic hormone preparation containing ACTH-active and ACTH-inactive components to counter-current distribution in a 2-phase solvent system formed essentially of phenol, water, and ether, one of said phases containing a greater proportion of water than of phenol and the other of said phases containing a greater proportion of phenol than of water, said ether being present in the proportion of from 2.5 to 15% based on the phenol, whereby the ACTH-active components of said preparation tend to concentrate in said phase containing the greater proportion of water while said ACTH-inactive components tend to concentrate in said phase containing the greater proportion of phenol, and recovering an adrenocorticotrophic hormone preparation of enhanced potency from said phase containing the greater proportion of water.

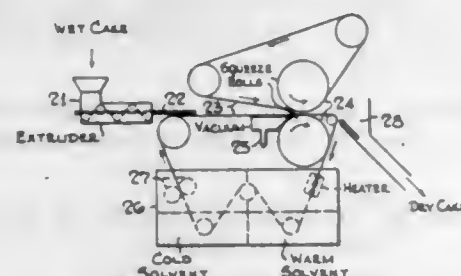
2,713,022

**DEOILING WAX CAKES**

Stephen H. Dole, Orange, and William T. Knox, Jr., Cranford, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

Application November 26, 1949, Serial No. 129,544

3 Claims. (Cl. 196-20)



1. A process of removing a liquid comprising oil and solvent from a wax filter cake obtained by solvent dewaxing a wax bearing mineral oil which comprises maintaining a plurality of treating zones at spaced points along the travel path of a continuously moving, endless belt type of filter member; depositing the wax cake upon said filter member in a first of said treating zones; compressing the wax cake in a second of said zones whereby oil and solvent are squeezed from the cake; removing the pressed wax cake from the filter member in a third of said zones; contacting the filter member in a solvent bath with a wax solvent in a fourth of said zones whereby occluded wax is removed from said filter member and returning the filter member to the first of said treating zones.

2,713,023

**FRACTIONATING METHOD AND APPARATUS**

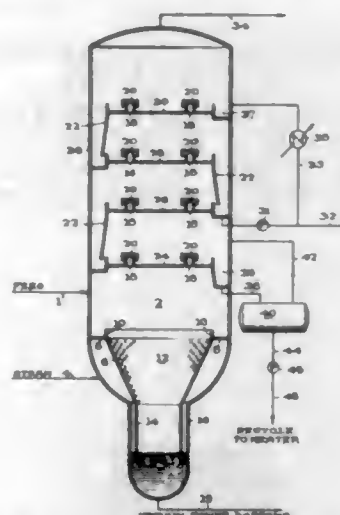
Robert L. Irvine, Belle Fons Farm, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 15, 1952, Serial No. 299,037

9 Claims. (Cl. 202-40)

1. Fractionating apparatus comprising a tower, means positioned in the upper portion of said tower forming a fractionating section adapted to permit intercontact of upflowing vapor and downflowing condensate, a condensate tray within the tower at the bottom of the fractionating section adapted to collect liquid condensate from

the fractionating section, a flash section within said tower beneath said condensate tray, an annular liquid retaining tray positioned at the bottom of the flash section and attached at its outer periphery to the inner surface of the tower, means forming a connection between said flash section and said fractionating section adapted to permit vapor passage from the former to the latter, a stripping section within said tower beneath said fractionating section, stripping means within said stripping section comprising a hollow, frusto-conical member positioned base upward and having a multiplicity of relatively small, substantially uniformly spaced perforations, the open upper end of the frusto-conical member being attached to the inner periphery of said annular liquid retaining tray and being adapted to receive downflowing unvaporized material from said flash section and being adapted to distribute upflowing vapors into the flash



section, a liquid-accumulating compartment within said tower beneath said stripping section, the ratio of whose cross-sectional area with the cross-sectional area of the tower is between about 0.05:1 and about 0.5:1.0, a drain-leg attached to the open lower end of said frusto-conical member adapted to direct unvaporized liquid from said stripping section into said liquid-accumulating compartment, means for introducing preheated feed into the flash section, said means being adapted to discharge tangentially to the inner circumference of the tower, means for introducing stripping vapor into the tower beneath the hollow, frusto-conical member, said means being adapted to discharge tangentially to the inner circumference of the tower and counterwise to the direction of the feed, means for removing excess liquid from the condensate tray, means for returning liquid so removed to the flash section, and means for removing liquid condensate from the fractionating section.

2,713,024

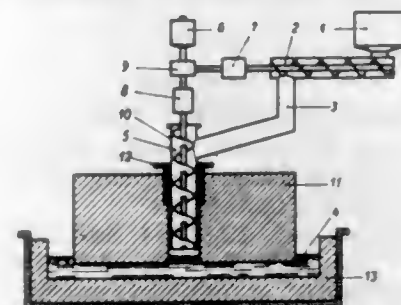
**PROCESS FOR THE CONTINUOUS FEEDING OF ELECTROLYTIC ALUMINUM CELLS**

Giovanni Mantovanello, Milan, Italy, assignor to Montecatini, soc. gen. per l'Industria Mineraria e Chimica, a corporation of Italy

Application May 10, 1951, Serial No. 225,482

Claims priority, application Italy June 13, 1950

5 Claims. (Cl. 204-67)



1. In the production of metallic aluminum by the electrolytic reduction of alumina in a bath of fused elec-

trolite, the process which comprises maintaining the bath at crust-forming temperature conditions, continuously feeding alumina through the crust into the bath, and applying feed pressure through the alumina to the bath surface to thereby penetrate the crust.

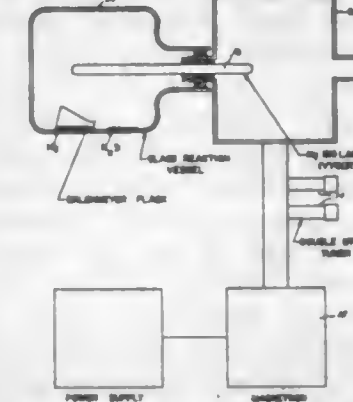
2,713,025

**METHOD OF PHOTO-CHEMICAL SEPARATION**

Bruce H. Billings, Lincoln, Mass., assignor to Baird Associates, Cambridge, Mass., a corporation of Massachusetts

Application August 27, 1951, Serial No. 243,839

7 Claims. (Cl. 204-157)



3. That improved method of isotopic separation, which comprises radiating a mixture of mercury isotopes in the presence of a reacting substance with a source of light which includes only an isotopic constituent of the particular variety to be separated as the exciting material.

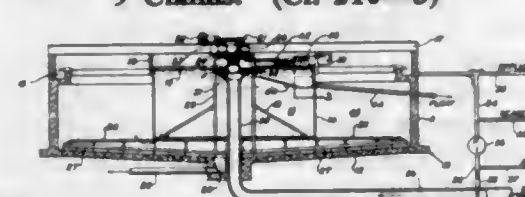
2,713,026

**FLOTATOR-CLARIFIER**

Earl M. Kelly, Hillsborough, Burlingame, and Arthur M. Kivari, Los Angeles, Calif., assignors to Process Engineers Incorporated, San Francisco, Calif., a corporation of California

Application July 21, 1951, Serial No. 237,914

9 Claims. (Cl. 210-3)



1. In apparatus for treating sewage containing both dissolved organic matter and suspended organic solids, the combination which comprises a tank open to the atmosphere for containing a pool of the sewage, an upwardly extending baffle in the tank spaced from the bottom thereof and extending above the surface of the pool and dividing the tank into a first compartment in which some of the solids in the sewage float and some of the solids settle and a second compartment in which some of the solids settle, the two compartments being in communication with each other under the baffle and the first compartment being smaller than the second compartment with respect to plan area, means for introducing into the first compartment a stream of the sewage and a liquid stream, means for pressurizing the liquid stream and for dissolving in it an oxygen-containing gas in excess of the proportion of the gas which the combined streams of liquid and sewage will dissolve, means for retaining the excess of gas in solution until the stream containing it has entered the pool, means for removing from the upper portion of the pool in the first compartment solids buoyed up by the gas coming out of solution in the pool, an outlet for settled solids in the bottom of the tank underlying the first compartment, means overlying the bottom of the tank in both compartments for moving settled solids to the outlet from the bottom of both compartments, and means for removing clarified liquid effluent from an upper portion of the second compartment.

896 O. G.—17

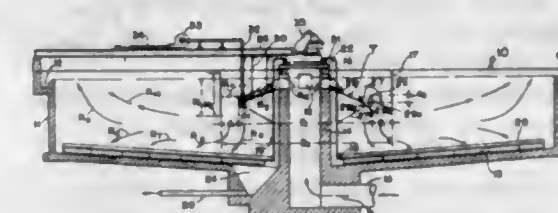
2,713,027

**CONTINUOUSLY OPERATING CLARIFIER TANKS FOR SEWAGE LIQUIDS CONTAINING GRITTY AND NON-GRITTY SOLIDS**

Thomas A. Binford, Seattle, Wash., assignor to Dorr-Oliver Incorporated, a corporation of Delaware

Application January 30, 1953, Serial No. 334,241

4 Claims. (Cl. 210-3)



1. In combination with a clarifier tank for clarifying solids-carrying liquids by sedimentation in which the solids comprise a heavy gritty component and a lighter non-gritty component, said tank having centrally disposed feed supply means comprising a feed well, a peripheral overflow launder, sediment discharge means at the bottom, as well as a rotary raking structure comprising a central vertical member surrounded by said feed well, sediment-engaging rake arms extending from the lower end portion of said vertical member, stationary supporting structure for rotatably supporting said vertical member, and power drive means for rotating said member; grit-interceptor means disposed within said feed well above the tank bottom, comprising an annular grit interceptor structure supported within and disposed substantially concentric with said feed well and in the path of the solids carrying liquid passing through said feed well and having a circular grit collecting trough, grit engaging devices effective by the rotation of the raking structure to convey said grit to a point of withdrawal in said collecting trough, and means for withdrawing collected grit from said trough to a point of disposal outside the tank.

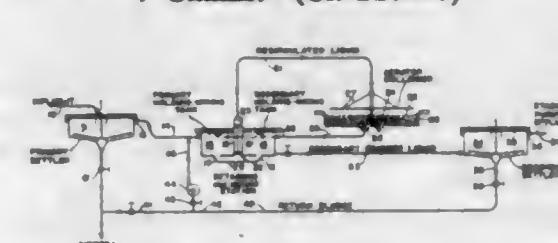
2,713,028

**SEWAGE TREATMENT**

Harry Neville Jenks, Palo Alto, Calif.

Application April 20, 1951, Serial No. 221,964

7 Claims. (Cl. 210-7)



6. The continuous biologic process of treating polluted liquids, which comprises supplying feed for treatment in a system including a shallow biologic filter bed of discrete material and a detention zone, controllably passing effluent from the detention zone through the filter bed at a rate maintained to lie in a range of from 200 to 800 million gallons per acre per day and the time of passage of the liquid through the bed to lie in a range of from 10 to 40 seconds, returning discharge from the bed to the detention zone having a detention capacity of from 3 to 24 hours inflow of feed supplied to the system, and releasing biologically stabilized liquid from the system.

2,713,029

**DRILLING MUD ADDITION AGENT**

James M. Fuller, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application May 7, 1952,

Serial No. 286,630

3 Claims. (Cl. 252-8.5)

1. A drilling mud addition agent consisting of an oligosaccharide mixture obtained from thermally hy-



drolyzed wood and composed of arabinose, mannose, galactose, glucose, and xylose sugar units which consists principally of pentosans and hexosans containing from one to four combined sugar units.

2,713,030

## DRILLING MUD ADDITION AGENT

Edwin H. Brink, Laurel, and Harold O. Walker, Ellisville, Miss., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application May 17, 1952,

Serial No. 288,536

6 Claims. (Cl. 252—8.5)

1. A drilling mud addition agent consisting essentially of from about 10% to about 50% by weight of an alkali metal molecularly dehydrated phosphate and from about 90% to about 50% by weight of an oligosaccharide mixture composed of arabinose, mannose, galactose, glucose, and xylose sugar units, said oligosaccharide mixture consisting of the water-soluble portion of lignocellulose material which has been subjected to thermal hydrolysis and which consist primarily of pentosans and hexosans.

2,713,031

## METHOD OF PREPARING A DRILLING MUD ADDITION AGENT

Walter P. Green, Jr., Laurel, and Harold O. Walker, Ellisville, Miss., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application May 29, 1952,

Serial No. 290,837

5 Claims. (Cl. 252—8.5)

1. A method of preparing a drilling mud addition agent which comprises mixing together in aqueous media from about 10 parts to about 50 parts of an alkali metal molecularly dehydrated phosphate and from about 90 parts to about 50 parts of an oligosaccharide mixture consisting principally of pentosans and hexosans obtained from thermally hydrolyzed lignocellulose and composed of arabinose, mannose, galactose, glucose, and xylose sugar units, and thereafter spray drying the mixture.

2,713,032

## OIL-IN-WATER EMULSION DRILLING FLUID

Rodolfo J. Tailleir, San Tome, Venezuela, assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 22, 1953, Serial No. 350,460

10 Claims. (Cl. 252—8.5)

2. An oil-in-water emulsion drilling fluid consisting essentially of at least 5 per cent by volume of oil, a dispersed clay, 0.1 to 2 pounds per barrel of said drilling fluid of a salt selected from the group consisting of the alkali metal and ammonium salts of preferentially oil-soluble sulfonic acids, and water, said oil being the dispersed phase and said water being the continuous phase.

2,713,033

## ACIDIZING OIL-BEARING FORMATIONS

Paul H. Cardwell and Albert W. Coulter, Jr., Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 15, 1952,

Serial No. 309,738

8 Claims. (Cl. 252—8.55)

1. The method of treating a well drilled into a petroleum-bearing formation which comprises introducing into the well and thence into the formation a hydrochloric acid solution containing from 1 to 25 per cent of HCl and from 0.001 to 10 per cent of a tetraalkyl ammonium halide

wherein two of the alkyl radicals are methyl radicals and two of the alkyl radicals each contain from 12 to 14 carbon atoms.

2,713,034

## TREATMENT OF ALKALINE EARTH METAL PETROLEUM SULFONATES

Edgar W. Clarke, Laurel Springs, N. J., and William Schreiber, Philadelphia, and Paul D. Kneeland, Bala-Cynwyd, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application July 1, 1954,

Serial No. 440,853

6 Claims. (Cl. 252—33)

1. A method for producing purified oil solutions of barium sulfonates which comprises neutralizing a Mid-Continent crude distillate boiling within the lubricating oil range that has been treated with concentrated sulfuric acid with a barium compound and thereafter treating the resulting oil solution of barium sulfonates, resins, and high and low viscosity index hydrocarbon oil components with an aqueous isopropyl alcohol solution containing between 20 and 30 per cent water in a multi-stage extraction unit, utilizing between 2 and 3 volumes of aqueous isopropyl alcohol for each volume of oil solution, and separately recovering an extract layer composed primarily of the aqueous isopropyl alcohol solution, resins, and the low viscosity index hydrocarbon oil components and a raffinate layer composed primarily of the barium sulfonates and the high viscosity index hydrocarbon oil components.

2,713,035

## TREATMENT OF ALKALINE EARTH METAL PETROLEUM SULFONATES

Edgar W. Clarke, Laurel Springs, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application July 1, 1954,

Serial No. 440,854

6 Claims. (Cl. 252—33)

1. A method for producing purified oil solutions of barium sulfonates which comprises neutralizing with a barium compound a Mid-Continent crude distillate boiling within the lubricating oil range that has been treated with concentrated sulfuric acid and thereafter treating the resulting oil solution of barium sulfonates, resins, and high and low viscosity index hydrocarbon oil components with an aqueous methyl ethyl ketone solution containing between 0.5 and 7.0 per cent water in at least two extraction zones, utilizing between 2 and 3 volumes of aqueous methyl ethyl ketone for each volume of oil solution and separately recovering an extract layer composed primarily of the aqueous methyl ethyl ketone solution, resins, and the low viscosity index hydrocarbon oil components, and a raffinate layer composed primarily of the barium sulfonates and the high viscosity index hydrocarbon oil components.

2,713,036

## ANTISEPTIC SOAP COMPOSITION

David J. Beaver, Richmond Heights, Roland S. Shumard, Brentwood, and Paul J. Stoffel, Florissant, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 28, 1953,

Serial No. 382,831

4 Claims. (Cl. 252—107)

1. As a new compound a 4-halo- $\alpha,\alpha'$ -bis(5-nitro-2-hydroxy-phenyl)-2,6-xyleneol.

4. An antiseptic detergent composition comprising the combination of a detergent soap and 0.5 to 10% by weight based upon the detergent soap of a compound of claim 1.

2,713,037

## METHOD OF MAKING ALUMINA CONTAINING CATALYSTS

Charles N. Kimberlin, Jr., Baton Rouge, La., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application July 31, 1951,

Serial No. 239,613

8 Claims. (Cl. 252—453)

3. A process for preparing silica-alumina catalyst adapted for conversion of hydrocarbon oils, which comprises providing an anhydrous solution of an aluminum alcoholate, effecting intimate admixing of the aluminum alcoholate solution and silica hydrosol to cause intimate coprecipitation of silica and alumina, hydrolyzing the aluminum alcoholate by and reacting the aluminum alcoholate with the water in the silica hydrosol to form a hydrous silica-alumina composite and forming a water slurry of the resulting hydrous silica-alumina composite, and recovering and drying the silica-alumina composite to produce a catalyst.

2,713,038

## SULFONIUM ANION EXCHANGER

Geert J. de Jong, Geleen, Netherlands, assignor to Stamcarbon N. V., Heerlen, Netherlands

No Drawing. Application February 8, 1954,

Serial No. 408,977

Claims priority, application Netherlands

February 10, 1953

9 Claims. (Cl. 260—2.1)

1. A process for the preparation of a strongly basic anion exchange resin which comprises condensing a member of the group consisting of formaldehyde and formaldehyde-liberating substances with a mixture of low molecular weight tertiary sulphonium salts in which the sulphur atoms of the sulphonium groups are attached, on an average, to between 0.3 and 1.80 radicals selected from the group consisting of monovalent aryl and alkyl aryl radicals and, for the remainder, to monovalent alkoxy aryl radicals, said mixture being obtained by reacting a sulphur compound selected from the group consisting of sulphur dioxide and the thionyl halogenides with a mixture of an aromatic hydrocarbon and an alkoxy aromatic hydrocarbon in the presence of a Friedel-Crafts catalyst.

2,713,039

## MODIFIED ALKYD RESINS AND PROCESS OF PREPARING SAME

Leonard E. Cadwell, Stamford, and John C. Petropoulos, South Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Continuation of applications Serial No. 34,565 and Serial No. 34,567, June 22, 1948. This application June 12, 1953, Serial No. 361,408

13 Claims. (Cl. 260—22)

1. A process which comprises co-reacting, at a temperature between 160–175° C., a member selected from the group consisting of styrene, ring-substituted alkyl-styrenes and ring-substituted chloro styrenes and an unsaturated oil-modified alkyd resin, in a mutually inert solvent having a boiling point above 110° C., and a Kauri-butanol value between 24–43, in the presence of a catalyst selected from the group consisting of tertiary alkyl substituted diperoxides, tertiary alkyl substituted hydroperoxides and cumene hydroperoxide, which liberates free radicals between 100–215° C., wherein the oil modifier of said oil-modified alkyd resin is selected from the group consisting of drying and semi-drying oils; wherein the polycarboxylic acid used to prepare said alkyd resin consists of at least 90% by weight of a polycarboxylic acid free from non-benzenoid unsaturation and wherein the peroxide group of the catalyst is directly attached to the tertiary group.

2,713,040

## MANUFACTURE OF ARTICLES OF RUBBER-LIKE MATERIALS

Philip D. Brass, Mahwah, and Charles F. Eckert, Westwood, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 9, 1952,

Serial No. 303,604

2 Claims. (Cl. 260—29.7)

1. The method of making synthetic rubber articles which comprises mixing a synthetic rubber latex and a polyvinyl chloride latex, each latex being separately prepared, said synthetic rubber latex being an aqueous emulsion polymerizate of a mixture of about 70 to 80 parts of butadiene-1,3 and correspondingly about 30 to 20 parts of styrene polymerized at a temperature in the range of about 40° F. to about 55° F., and said polyvinyl chloride latex having an average particle diameter, based on the area of the particles, of about 100 to 2000 Angstrom units, said polyvinyl chloride latex being present in amount to give 5 to 35 parts of polyvinyl chloride per 100 parts of solids of the synthetic rubber latex, and depositing the solids of the mixture of such latices in the shape of the desired article.

2,713,041

## COMPOSITIONS COMPRISING A POLYMER OF ACRYLAMIDE AND AN AMIDE

Henry Z. Friedlander, Greenwich, and William A. Barber, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 22, 1954,

Serial No. 438,606

11 Claims. (Cl. 260—32.6)

1. A composition of matter comprising (1) a polymer of acrylamide containing in the polymer molecules an average of at least 75% by weight of combined acrylamide and (2) at least one amide selected from the class consisting of urea and formamide, said urea being in molten state when it is used alone with the said polymer of acrylamide.

2,713,042

## POLYMERIZATION WITH POLYMERIC ADIPOYL PEROXIDE CATALYST

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 24, 1952,

Serial No. 316,789

4 Claims. (Cl. 260—78.5)

1. A mass polymerization process which comprises polymerizing 100 parts of a compound taken from the group consisting of styrene and vinyl halides at from 100 to 400° C. and 1 to 500 atmospheres pressure in contact with from 0.01 to 5.0 parts of a polymeric adipoyl peroxide having an average degree of polymerization of more than 6.

2,713,043

## PROCESS FOR IMPROVING THE PROPERTIES OF POLYMERIZATION PRODUCTS FROM STYRENE

Guenther Daumiller, Ludwigshafen (Rhine), Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany

No Drawing. Application July 7, 1950,

Serial No. 172,618

Claims priority, application Germany July 15, 1949

3 Claims. (Cl. 260—85.5)

1. A process for improving the properties of a polymerizate from the group consisting of polystyrene polymerizates and interpolymerizates having a similar softening point to polystyrene and prepared from styrene and other organic compounds polymerizable under the same conditions as styrene, which comprises treating a said polymerizate having a softening point below 100° C. in a granulated state, suspended in an aqueous medium,







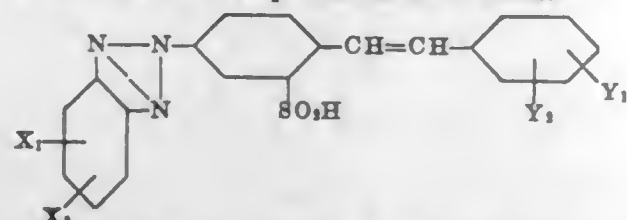
2,713,057

**FLUORESCENT BENZOTRIAZOLE COMPOUNDS**  
Reinhard Zweidler and Ernst Keller, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application June 19, 1952,  
Serial No. 294,477

Claims priority, application Switzerland April 30, 1952  
6 Claims. (Cl. 260—308)

1. A benzotriazole compound of the formula



wherein each of X<sub>1</sub> and X<sub>2</sub> represents a member selected from the group consisting of H, CH<sub>3</sub>, CH<sub>3</sub>O—, Cl, CH<sub>2</sub>COHN— and



and each of Y<sub>1</sub> and Y<sub>2</sub> represents a member selected from the group consisting of H, CH<sub>3</sub>, Cl, CH<sub>2</sub>COHN— and —SO<sub>3</sub>H.

2,713,058

**MANUFACTURE OF N-TRICHLOROMETHYL-THIOIMIDES**

Allen R. Kittleson, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application August 28, 1952,  
Serial No. 306,950

7 Claims. (Cl. 260—326)

1. In a process for the preparation of an N-trichloromethylthio imide which comprises the steps of dissolving an imide in an aqueous alkaline solution of an alkali metal compound and reacting the resulting alkali metal imide product dissolved in the aqueous media with admixed perchloromethyl mercaptan, the improvement which comprises carrying out the reaction in the presence of a saturated C<sub>3</sub>—C<sub>9</sub> hydrocarbon.

2,713,059

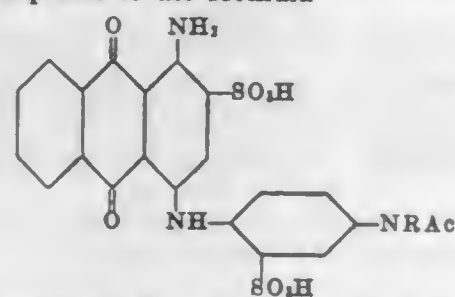
**LEVEL-DYEING DYESTUFFS OF THE ANTHRAQUINONE SERIES**

Jacques Günthard, Basel, Switzerland, assignor to Sandoz, A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application January 15, 1953,  
Serial No. 331,485

Claims priority, application Switzerland January 18, 1952  
6 Claims. (Cl. 260—372)

1. A level-dyeing dyestuff of the anthraquinone series which corresponds to the formula



wherein Ac stands for an acyl radical of 2 to 4 carbon atoms, and R stands for a member selected from the group consisting of hydrogen, methyl and ethyl.

2,713,060

**DYESTUFF TREATMENT**

Victor S. Salvin, Irvington, N. J., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application July 24, 1951,  
Serial No. 238,381

11 Claims. (Cl. 260—380)

1. In a process for the production of improved anthra-

quinone dyestuffs wherein a hydroxy-substituted nitroanthraquinone is condensed with an organic primary amine at a temperature of 100 to 130° C. in the presence of water, the step which comprises treating the dyestuff obtained as a product of the condensation by subjecting the same to refluxing while in solution in an organic solvent containing an alkaline agent.

2,713,061

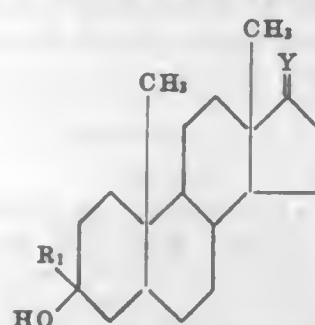
**3-METHYL ANDROSTANES**

Josef Kathol, Berlin-Charlottenburg, Germany, assignor to Schering A. G., Berlin, Germany, a corporation of Germany

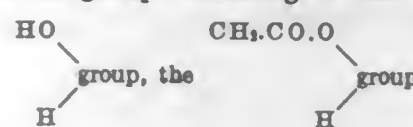
No Drawing. Application April 1, 1952,  
Serial No. 279,957

Claims priority, application Germany April 6, 1951  
9 Claims. (Cl. 260—397.4)

1. An androstane compound of the following formula:



wherein R<sub>1</sub> is an aliphatic hydrocarbon radical with less than three carbon atoms, and wherein Y is a substituent selected from the group consisting of the



and oxygen.

2,713,062

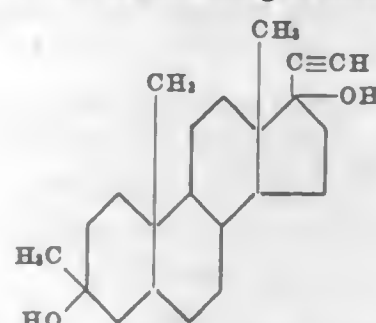
**3-METHYL-17-ETHINYL ANDROSTANDIOLS**

Karl Junkmann, Berlin, and Otto Engelfried, Berlin-Hermsdorf, Germany, assignors to Schering A. G., Berlin, Germany, a corporation of Germany

No Drawing. Application July 28, 1953,  
Serial No. 370,886

Claims priority, application Germany August 8, 1952  
3 Claims. (Cl. 260—397.5)

1. As new compounds, the 3-methyl-17-ethinyl-androstandiols-(3,17) of the following formula



said compounds having a strong inhibitive effect upon the testicle growth of young male animals.

2,713,063

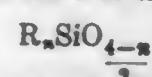
**METHOD OF PREPARING FLUOROSILANES**

Leo H. Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application November 30, 1953,  
Serial No. 395,315

1 Claim. (Cl. 260—448.2)

The method of preparing fluorosilanes which comprises reacting an organosilicon compound selected from the group consisting of siloxanes of the formula



silanes of the formula R<sub>m</sub>Si(OR')<sub>4-m</sub> and silanols of the

formula R<sub>n</sub>Si(OH)<sub>4-n</sub> in which R is selected from the group consisting of saturated aliphatic hydrocarbon, halogenated saturated aliphatic hydrocarbon, aryl hydrocarbon and halogenated aryl hydrocarbon radicals, R' is a monovalent hydrocarbon radical, n has a value from 1 to 3, m has a value from 0 to 3 and x has a value from 1 to 2, with the etherate of boron trifluoride and diethyl-ether.

2,713,064

**BIS-(TRIALKOXYSILYL)BENZENES AND THEIR USE**

Donald R. Weyenberg, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application December 7, 1953,  
Serial No. 396,728

5 Claims. (Cl. 260—448.8)

1. A hydraulic fluid consisting essentially of bis-(trialkoxysilyl)benzene having the formula



wherein R is a saturated, branched chain, aliphatic hydrocarbon radical of from 4 to 12 carbon atoms.

2,713,065

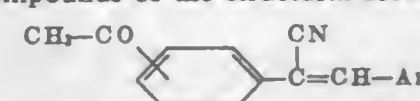
**α-ACETOPHENYLCINNAMONITRILES AND DERIVATIVES THEREOF**

Kurt Rorig, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application June 30, 1952,  
Serial No. 296,480

9 Claims. (Cl. 260—465)

1. The compounds of the structural formula



wherein Ar is a member of the class consisting of phenyl, lower alkylphenyl, methoxyphenyl, hydroxyphenyl, cyano-phenyl, aminophenyl, di-(lower alkyl)aminophenyl radicals and halophenyl radicals wherein the halogen has an atomic weight greater than 30 and smaller than 100.

2,713,066

**BETA-CARBONYL-SUBSTITUTED UREIDES**

David E. Adelson, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 13, 1951,  
Serial No. 251,240

16 Claims. (Cl. 260—482)

1. A process of producing a member of the group consisting of allophanyl-substituted ketones and carboxylic acid esters which comprises reacting biuret with a member of the group consisting of monoketones and diketones and monocarboxylic acid esters and dicarboxylic acid esters composed exclusively of carbon, hydrogen and oxygen chosen from the group consisting of ester and keto oxygen atoms, having a total of not more than 57 carbon atoms in the molecule and having a labile hydrogen atom attached to a carbon atom which is directly linked to a carbonyl carbon atom at a temperature of about 50° C. to about 350° C. whereby ammonia is formed and an allophanyl group is substituted for said labile hydrogen atom on said carbon atom.

2,713,067

**ADIPIC ACID RECOVERY PROCESS**

Clement H. Hamblet and Robert E. Gee, Wilmington, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 3, 1952,  
Serial No. 307,712

5 Claims. (Cl. 260—537)

1. In a process for the recovery of adipic acid from a reaction mixture obtained by the air oxidation of a cyclo paraffin followed by nitric acid oxidation of the mixture obtained from the air oxidation, the steps which comprise crystallizing a portion of the adipic acid from the nitric acid oxidation reaction mixture, reducing the nitric acid concentration in the mother liquor from crystallization and then crystallizing adipic acid from the mother liquor of dilute nitric acid content.

2,713,068

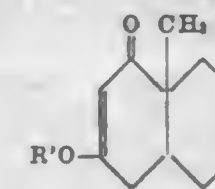
**ALKOXY SUBSTITUTED NAPHTHALENONES**

Angelo J. Speziale, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 12, 1952,  
Serial No. 325,703

17 Claims. (Cl. 260—586)

1. As a new compound a 2-alkoxy-4-keto-4a-methyl-1,4,4a,5,8,8a-hexahydronaphthalene of the formula



where R' is a short chain alkyl radical.

2,713,069

**PREPARATION OF CARBOCYCLIC BICYCLIC KETONES**

Angelo J. Speziale, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 21, 1953,  
Serial No. 356,583

6 Claims. (Cl. 260—586)

1. In the method of making 2-keto-4a-methyl-1,2,4a,5,8,8a-hexahydronaphthalene the step which comprises hydrolyzing a 2-hydroxycarbonyloxy-4-hydroxy-4a-methyl-1,4,4a,5,8,8a-hexahydronaphthalene wherein the hydrocarbon radical of the hydroxycarbonyloxy substituent is a member of the group consisting of aryl, alkyl, alkyl and cycloalkyl radicals in the presence of aqueous mineral acid.

2,713,070

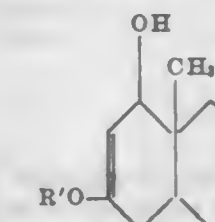
**2-ALKOXY-4-HYDROXY-HEXAHYDRO-NAPHTHALENES**

Angelo J. Speziale, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 15, 1952,  
Serial No. 326,159

10 Claims. (Cl. 260—611)

1. As new compounds 2-alkoxy-4-hydroxy-4a-methyl-1,4,4a,5,8,8a-hexahydronaphthalenes of the formula



where R' is a short chain alkyl radical.



2,713,071

**TELOMERIZATION OF ETHYLENE AND SATURATED MONOHYDRIC ALCOHOLS**

Michael Erchak, Jr., Morris Plains, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 25, 1949, Serial No. 72,759

7 Claims. (Cl. 260-617)

1. A process for obtaining from ethylene and a low molecular weight saturated monohydric alcohol containing not more than 8 carbon atoms, a liquid saturated alcoholic product predominantly of carbon content C<sub>8</sub>-C<sub>10</sub> which process comprises maintaining ethylene in intimate contact with said low molecular weight alcohol under pressures between about 1,000 and about 5,000 pounds per square inch, at temperatures between about 220° C. and about 340° C., with a mol ratio of low molecular weight alcohol : ethylene of about 1:1-6:1 and in presence of hydrogen peroxide catalyst introduced into the reaction zone in amounts of about 0.1-3 parts by weight based on 100% H<sub>2</sub>O<sub>2</sub> per 100 parts of the low molecular weight alcohol introduced into the reaction zone.

2,713,072

**PRODUCTION OF BIS(HYDROXYARYL) SUBSTITUTED COMPOUNDS**

Hans Dannenberg, Berkeley, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application November 24, 1952, Serial No. 322,345

9 Claims. (Cl. 260-619)

1. The process for the production of bis(di-(hydroxyaryl) compounds which comprises contacting an aralkyl hydroperoxide with a strong mineral acid in the presence of an ionizable sulfur compound represented by the formula R<sup>1</sup>-S-R<sup>2</sup> wherein R<sup>1</sup> and R<sup>2</sup> each represent a member of the group consisting of hydrogen and aliphatic, cycloaliphatic, aromatic and heterocyclic organic radicals, and separating bis(di-(hydroxyaryl) compounds from the resulting reaction mixture.

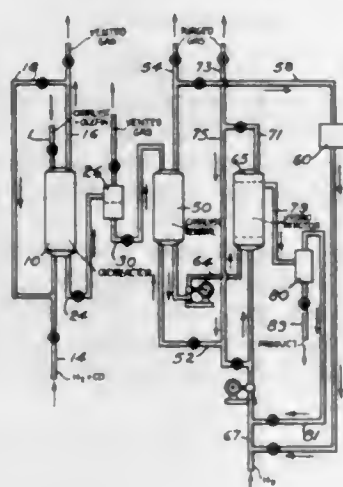
2,713,073

**CATALYTIC HYDROGENATION OF OXO ALDEHYDES**

Warren M. Smith, Baton Rouge, La., assignor to Esso Research and Engineering Company, a corporation of Delaware

Application November 30, 1949, Serial No. 130,249

8 Claims. (Cl. 260-632)



1. In the production of alcohols by reacting olefins with CO and H<sub>2</sub> in an oxygenation stage at elevated temperatures and high pressures in the presence of an oxygenation catalyst, hydrogenating the oxygenated product

in a hydrogenation zone in the presence of a hydrogenation catalyst and at liquid phase hydrogenation conditions of temperature and pressure conducive to the conversion of carbonyl compounds into alcohols, and recovering hydrogenated product rich in alcohols, the improvement which comprises carrying out said hydrogenation in the presence of a catalyst consisting essentially of a major proportion of charcoal supporting a minor proportion of molybdenum sulfide promoted with a minor proportion, based on molybdenum sulfide, of combined phosphorus.

6. The process of claim 1 in which said catalyst is prepared by impregnating charcoal pellets with an ammonium molybdate solution containing P<sub>2</sub>O<sub>5</sub>, drying the impregnated pellets and sulfiding the dry product in a stream of a gaseous sulfiding agent at a temperature of about 700° F. in the presence of hydrogen under a pressure of about 3000 lbs. p. s. i. g.

2,713,074

**ALUMINUM ALCOHOLATE REDUCTION OF OXO ALDEHYDE MIXTURES**

Kenneth K. Kearby, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application August 25, 1949, Serial No. 112,395

4 Claims. (Cl. 260-638)

4. The method of hydrogenating reducible components in a crude Oxo synthesis mixture containing water-insoluble esters, acids, aldehydes, alcohols and olefins which comprises adding aluminum to said mixture, reacting the added aluminum with alcohols in said mixture at a temperature in the range of 100° to 150° C. to form aluminum alcoholates which on hydrolysis yield water-insoluble aluminum hydroxide, simultaneously hydrogenating other components in said mixture by hydrogen liberated from the said alcohols as they react with the aluminum until reaction of the components in said mixture brings about formation of organic products having a substantially lower Carbonyl number, lower Bromine number and lower Saponification number but with a higher Hydroxyl number, hydrolyzing the reaction products thus obtained, and separating organic products from a water slurry of the aluminum hydroxide formed by the hydrolysis.

2,713,075

**METAL OXIDE TREATMENT OF OXO ALCOHOLS**

Russell C. Doeringer, Mountainside, and Carl S. Carlson, Roselle, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application May 4, 1950, Serial No. 160,088

9 Claims. (Cl. 260-643)

1. A process for the treatment of a water-immiscible, primary, C<sub>4</sub>-C<sub>12</sub> alcohol containing sulfur impurities which was produced in a two-stage operation consisting of a first stage in which hydrogen, carbon monoxide, and an olefin are contacted in the presence of an oxonation catalyst, forming a product predominantly aldehyde and of a second stage in which the said aldehyde product is catalytically reduced with hydrogen to form the corresponding alcohol and from which components more volatile than the alcohol have been removed, which comprises the liquid-solid contacting of the topped alcohol with a solid metallic oxide selected from the group consisting of mercury oxide, manganese dioxide, and lead oxide, at temperatures of from 25°-180° C., whereby undesirable impurities, particularly those of the sulfur-containing class are rendered substantially harmless particularly as to color-producing tendencies in subsequent reactions of the alcohol.

2,713,076

**PRODUCTION OF BENZENE HEXACHLORIDE CONTAINING ENHANCED GAMMA ISOMER CONTENT**

Arthur C. Ellsworth, Jr., Paden City, and Fred S. Hisekorn, New Martinsville, W. Va., assignors to Columbia-Southern Chemical Corporation

No Drawing. Application July 30, 1952,

Serial No. 301,800

4 Claims. (Cl. 260-648)

1. A method of producing benzene hexachloride containing an enhanced gamma isomer content which comprises additively chlorinating benzene in the liquid phase at a temperature of up to about 70° C. until a reaction slurry is formed which contains solid benzene hexachloride but wherein virtually all of the gamma isomer is in the liquid phase, raising the temperature of the slurry above the temperature at which the slurry is formed to dissolve at least about 2 per cent by weight of the solid phase, cooling the slurry at a rate not in excess of 12° C. per hour until at least the said dissolved solids are repre-

cipitated but not below the temperature at which any substantial amount of gamma isomer will precipitate, mechanically removing the solid phase from the cooled slurry and recovering gamma enriched benzene hexachloride from the liquid phase.

2,713,077

**REMOVAL OF CARBONYL SULFIDE FROM HYDROCARBON GASES**

Robert W. Rieve, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 25, 1954,

Serial No. 432,330

3 Claims. (Cl. 260-676)

1. A process for the removal of carbonyl sulfide from hydrocarbon fluids containing carbonyl sulfide which comprises contacting at ordinary atmospheric temperatures said fluid with an anionic exchange resin, said resin being in the hydroxyl cycle and hydrated.

**ELECTRICAL**

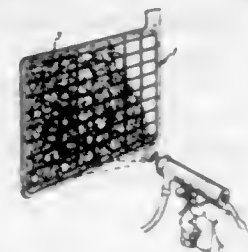
2,713,078

**STORAGE BATTERY PLATE AND METHOD**

John E. Le Gros, Pittsburg, and George D. Smithwick, San Francisco, Calif., assignors, by direct and mesne assignments, of one-third to Donald G. Goin, Montebello, Calif., one-third to Marilyn Smithwick and one-third to said Le Gros

Application September 11, 1950, Serial No. 184,282

4 Claims. (Cl. 136-19)



1. The method of preventing the outfall of active material from a battery plate having a grid filled with a paste of active material comprising the step of; impacting threads of acid resistant plastic against the paste and grid exposed on at least one side of said plate with said threads in indiscriminately crossing relationship leaving interstices between threads directly against said plate to admit electrolyte to the said paste.

2,713,079

**BATTERY PLATE**

Leo L. Carrick, Ann Arbor, and John M. Stapleton, Breckenridge, Mich., assignors to the Regents of the University of Michigan, Ann Arbor, Mich., a constitutional corporation of Michigan

Application April 15, 1952, Serial No. 282,341

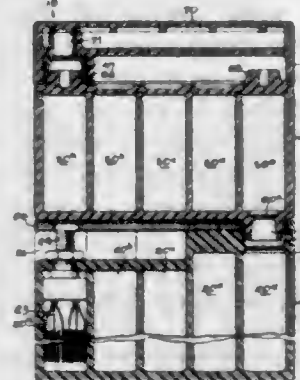
2 Claims. (Cl. 136-39)



1. In electrical secondary batteries, a thin plate comprising a grid formed of a lightweight, electrically conductive, flexible, flat metal plate having a plurality of smooth walled apertures formed therethrough, said plate

**BATTERY AND FILLING ARRANGEMENT THEREFOR**

Edward L. Barrett, La Grange, Ill.  
Application September 6, 1952, Serial No. 308,187  
11 Claims. (Cl. 136-162)



1. A battery filling arrangement comprising a battery having two openings in each of the respective cells thereof, an electrolyte cartridge including a plurality of cells each containing a measured amount of electrolyte suitable for a single filling of the respective cells, said cartridge having a series of nozzles spaced to register with the battery openings so that electrolyte from said cartridge drains into the cells of the battery when the cartridge is inverted thereover with simultaneous escape of air into the cartridge, and means for sealing the battery and said cartridge face-to-face during the filling operation.

2,713,081

**CABLE SYSTEMS**

Edwin J. Merrell, Scarsdale, N. Y., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y., a corporation of Delaware

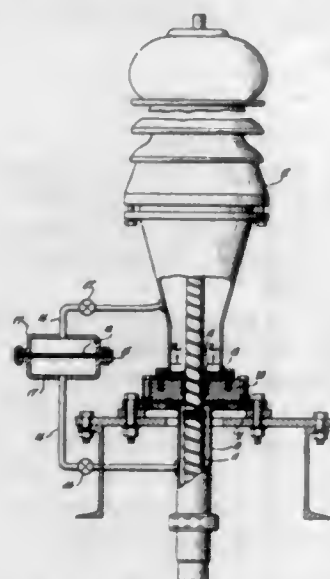
Application August 13, 1951, Serial No. 241,556

1 Claim. (Cl. 174-14)

A cable termination in combination, a cable in a pipe containing an oil insulating medium, a terminal

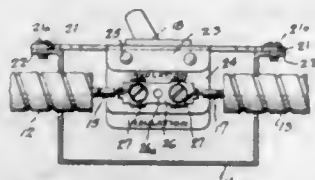


containing an oil insulating medium, a stuffing box separating the oil in the pipe from that in the terminal, a



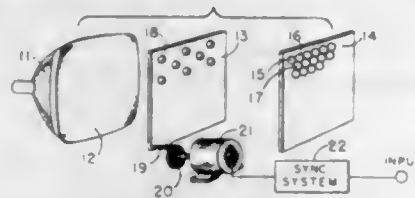
by-pass around the stuffing box, said by-pass containing an oil filter.

**2,713,082**  
**SWITCH WITH SPECIAL JUNCTION BLOCK CONNECTION**  
Harvey Hubbell, Long Hill, Conn.  
Application June 16, 1950, Serial No. 168,532  
4 Claims. (Cl. 174-53)



1. An electric fitting comprising in combination, a fixture box, an electric fixture mounted in said box, a fixture-supporting yoke connected thereto, a flange on said yoke extending longitudinally thereof and extending into said box, means securing said yoke to said box, junction means adapted to provide a through connection between separate lead wires extending into said box, including a plate of insulating material mounted on said flange to form a part thereof, a current-conducting contact bar mounted on said insulating plate, and binding screws to connect said wires to said bar to complete a through connection between said wires through said bar.

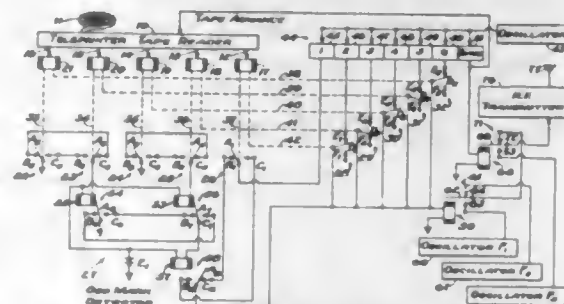
**2,713,083**  
**COLOR SWITCHING SYSTEM**  
Robert B. Tomer, Danvers, Mass., assignor to Columbia Broadcasting System, Inc., a corporation of New York, doing business under the name of Hytron Radio & Electronics Co., Salem, Mass.  
Application December 22, 1951, Serial No. 262,981  
6 Claims. (Cl. 178-5.4)



1. Color switching apparatus for a field sequential television system comprising, a cathode ray tube having a screen for presenting received images in black-and-white, a color filter plate including a plurality of filter elements, said filter elements being arranged in groups of three, each group containing a first, a second, and a third subtractive primary color filter element, a generally opaque mask disposed between said filter plate and said screen,

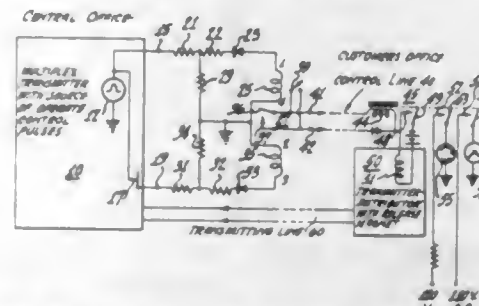
said mask having transparent areas formed therein of size comparable to that of two of said filter elements, and means for moving said mask to permit light from said screen to pass sequentially through elements of said first and second subtractive primary colors, through elements of said second and third subtractive primary colors and through elements of said third and first subtractive primary colors.

**2,713,084**  
**ODD MARK DETECTOR**  
Ted W. Berwin, Encino, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa  
Application April 17, 1953, Serial No. 349,494  
8 Claims. (Cl. 178-23)



8. An odd mark detector comprising, eight switches, the movable contact of the first, third and sixth switches connected to ground, the stationary contacts of the first and second switches connected together, the stationary contacts of the second and third switches connected together, the stationary contacts of the sixth and seventh switches connected together, the stationary contacts of the fifth and eighth switches connected together, three relays with the energizing field of the first relay connected electrically to the movable contact of the second switch and mechanically connected to the movable contact of the sixth switch, the second relay electrically connected to the movable contact of the fourth switch and mechanically connected to the movable contact of the seventh switch, the movable contact of the seventh switch electrically connected to the energizing coil of the third relay, and the third relay mechanically connected to the movable contact of the eighth switch, a closed circuit formed between the movable contacts of the fifth and eighth switches if an odd number of the first five switches are in the same position, fourth, fifth, sixth, seventh and eighth relays mechanically connected, respectively, to the first five switches to control their positions, and a teleprinter tape reader producing a plurality of electrical inputs which are connected, respectively, to the fourth, fifth, sixth, seventh and eighth relays.

**2,713,085**  
**TELEGRAPH TRANSMISSION CONTROL CIRCUITS**  
William Edward Walker, Brooklyn, N. Y., and James Stallings Harris, Old Greenwich, Conn., assignors to Radio Corporation of America, a corporation of Delaware  
Application March 17, 1954, Serial No. 416,814  
11 Claims. (Cl. 178-69)



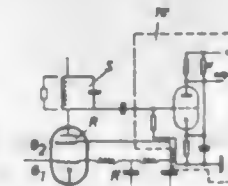
1. A telegraph transmission control circuit arrangement including a control relay having two windings and a pair of contacts connected to control line terminals, operate

pulse input terminals and controlled pulse input terminals, a counting relay having two windings and a double throw contact structure having a common contact and two other contacts, a circuit comprising one winding of each relay and a diode element connected in series across said operate pulse terminals, another series circuit connected across said controlled pulse terminals through another diode element, the common contact of said counting relay and selectively through one other contact of said counting relay and the other winding of said control relay, and through a pair of series connected resistors, a capacitor connected to the junction between said pair of resistors, a further diode element connecting said capacitor through the other winding of said counting relay, and an additional diode element shunting said capacitor and one of said series connected resistors.

**2,713,086**  
**METHOD AND CIRCUIT ARRANGEMENT FOR THE SELECTIVE CUTOFF OF THE VERTICAL SYNCHRONIZING PULSES FROM THE RECEIVED TELEVISION SYNCHRONIZING PULSE MIXTURE**

Rudolf Urtel, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application October 22, 1952, Serial No. 316,138  
Claims priority, application Germany November 15, 1951  
2 Claims. (Cl. 178-69.5)



1. A synchronizing pulse selecting circuit for providing the selective cutoff of vertical synchronizing pulses from a received television synchronizing impulse train, in which narrow line synchronizing pulses and wide vertical synchronizing pulses are used and in which the vertical synchronizing pulses are cut into in order to keep the line synchronizing during the period of a vertical synchronizing impulse, characterized by a delay circuit for delaying the synchronizing pulse train substantially a quarter of a period of the horizontal synchronizing pulse frequency, a coincidence circuit, means for applying the delayed and undelayed pulse trains to said coincidence circuit to produce a combined train of pulses of substantially an even multiple of said horizontal synchronizing pulse frequency and a resonant integrating circuit tuned to the frequency of said undelayed pulse train for integrating the combined train of pulses to generate the vertical synchronizing pulse.

**2,713,087**  
**FULL DUPLEX TELEGRAPH REPEATER CIRCUIT**  
James T. Neiswinter, Garden City, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York  
Application June 21, 1951, Serial No. 232,799  
5 Claims. (Cl. 178-73)

1. A full-duplex hub telegraph repeater system having instrumentalities therein for repeating changes in potential defining telegraph signal elements, said system having a first telegraph line repeater, said line repeater having a receiving leg, a second telegraph line repeater, said second repeater having a sending leg, a full-duplex telegraph hub link, said link interconnecting said leg;

said link comprising a potentiometer connected directly to said receiving leg and a space discharge device having

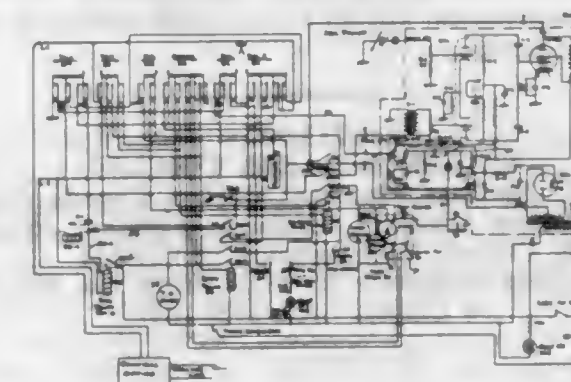


an input circuit connected directly to said potentiometer and an output circuit connected in said link.

**2,713,088**  
**TELEPHONE ANSWERING AND RECORDING DEVICE**

Harry R. Van Deventer and John J. Shively, New York, N. Y., and Paul C. Bailey, Warminster, Pa., assignors, by mesne assignments, to Telephone Answering and Recording Corporation, New York, N. Y., a corporation of Delaware

Application December 17, 1949, Serial No. 133,506  
11 Claims. (Cl. 179-6)



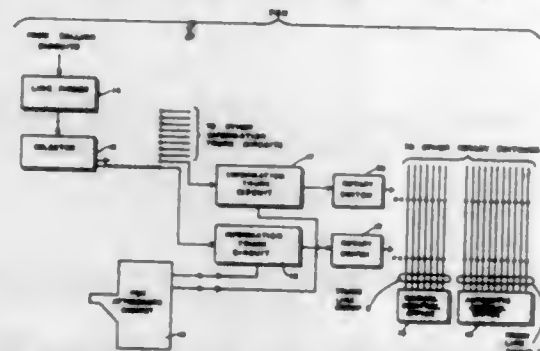
4. In combination with a telephone line circuit, a telephone instrument having the usual hook switch, transmitter and receiver; a recording phonograph, control means in said circuit including a switch independent of said hook switch for connecting said instrument to said circuit for normal use therewith to transmit and receive speech via said line circuit, a second control means in said circuit including a switch for connecting said phonograph and instrument to said line circuit whereby said phonograph may record speech thereover and said instrument may transmit speech thereover, said phonograph while so connected by said second control means recording said last speech and the transmitter of said instrument being used as a recording microphone for said phonograph, said second control means including a relay operated by incoming ringing current over said line for connecting said phonograph thereto.

**2,713,089**  
**TRUNK CIRCUIT FOR TELEPHONE SYSTEMS**  
William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application October 8, 1952, Serial No. 313,666  
12 Claims. (Cl. 179-27)

1. In a telephone system including, a calling line, an attendant's position, and at least two groups of trunk lines, said attendant's position having answer, release, and hold keys together with impulsing mechanism, an information trunk circuit for connecting said calling line to the attendant's position and for extending a connection of said calling line over a trunk line in a selected trunk line group, said trunk circuit including in combination,



means controlled by the operation of said answer key to provide a conversation connection between said calling line and said position, means controlled by the operation of said hold key to split the calling line and connect said impulsing means to the trunk circuit, impulse responsive switching means connected in said trunk circuit having a normal position and movable in response to a predetermined number of impulses from said impulsing means to an operated position for selecting a trunk line

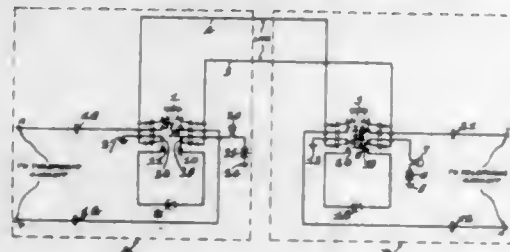


in one of said groups of trunk lines and in response to a predetermined different number of impulses to a different operated position for selecting a trunk line in another of said groups of trunk lines, means controlled by restoration of said hold key after selection of a trunk line to connect said calling line with the selected trunk line, and means in said trunk circuit responsive to the operation of said release key to restore said switching means to normal position.

2,713,090

## TELEPHONE LINE CIRCUIT

Edward H. Lanham, Montreal, Quebec, Canada, assignor to Northern Electric Company, Limited, Montreal, Quebec, Canada, a corporation of Canada  
Application September 15, 1952, Serial No. 309,657  
4 Claims. (Cl. 179-84)



1. In a telephone station calling system including a subscriber's calling station and a remote subscriber's called station, a line interconnecting the stations, a signal device and a source of direct signaling current therefor at the remote station normally bridged across the line, a negative resistance element at the calling station, subscriber controlled switching means at the calling station associated with the resistance element constructed and arranged, when actuated, to bridge the said element across the line thereby completing the circuit therethrough said resistance element normally having a high resistance value and, when the current flow therethrough to decrease its resistance by a rise in its temperature, a resistance value low enough to allow sufficient current to flow in the line to actuate said device.

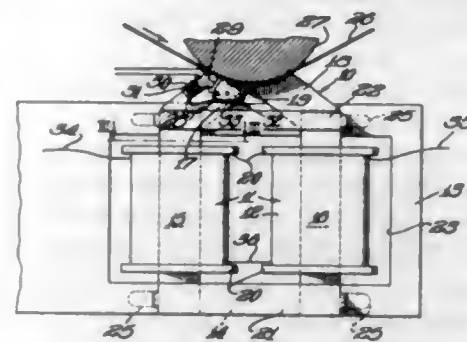
2,713,091

## ELECTROMAGNETIC TRANSDUCER HEAD

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois  
Application June 2, 1951, Serial No. 229,618  
6 Claims. (Cl. 179-100.2)

1. An electromagnetic transducer head assembly comprising a support member having an opening therein, a magnetic core including a pair of inverted L-shaped pieces and an inverted T-shaped piece all disposed against said

support member and spanning the opening therein, the end of the leg of the T-shaped piece and the bases of the two L-shaped pieces overhanging said support member and positioned to define a pair of non-magnetic gaps, a

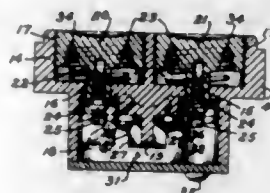


pair of strap brackets straddling said legs and secured to said support member on opposite sides of their openings, thereby to secure said legs to said support member, and coil means mounted on at least one of said legs within said opening.

2,713,092

## PUSH BUTTON SWITCH ASSEMBLY

Edward L. Rucks, Aurora, and Nobel H. Koertge, Glen Ellyn, Ill., assignors to Furnas Electric Company, Batavia, Ill., a corporation of Illinois  
Application March 23, 1951, Serial No. 217,272  
2 Claims. (Cl. 200-5)



1. In an electric switch, a unitary body of insulation having a pair of front recesses and a rear recess separated by a web provided with openings connecting the front recesses with the rear recess and also having therein a pair of rearwardly open approximately semi-cylindrical pivot sockets adjoining the opposite sides of said front recesses, a push button slidable within each of said front recesses and each having a rear projection extending through the adjacent connecting opening, a movable contact secured to each of said button projections within said rear recess, several fixed contacts detachably secured to said web within said rear recess rearwardly remote from said sockets and being cooperable with said movable contacts, a pair of pivot saddles detachably confined within said rear recess by said fixed contacts and each having a forwardly open approximately semi-cylindrical socket cooperable with one of said body sockets to provide a journal bearing, and a pair of independent interlock tumblers located on opposite sides of said button projections and each having an enlarged cylindrical medial portion oscillatably confined within one of said journal bearings and also having opposite ends engageable with peripheral portions of both of said push buttons.

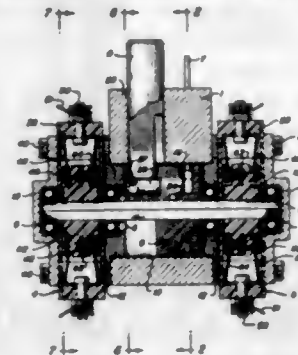
2,713,093

## SWITCH MECHANISM

Wilbur A. Joerndt and James J. Kane, Albuquerque, N. Mex., assignors to the United States Atomic Energy Commission  
Application September 8, 1954, Serial No. 454,861  
12 Claims. (Cl. 200-17)

1. A device of the character described comprising the combination of a rotatable shaft, means movable with the shaft for controlling an electric circuit, means for rotating the shaft comprising a member secured thereto having a socket with open end disposed adjacent a peripheral portion of said member and a generally segmen-

tally disposed recess communicating with the socket, a plunger in the socket, means for normally urging the plunger toward the open end of the socket, a housing containing said member having an aperture with inner

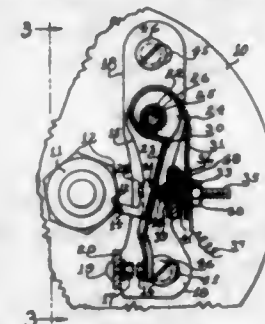


end terminating adjacent said peripheral portion of the member, and an elongated control member extending through the aperture and resting against the plunger to urge it into the rotor in opposition to the effect of the urging means.

2,713,094

## PRESET IGNITION CONTACTS FOR COMBUSTION ENGINE DISTRIBUTOR

Leon G. Zocchi, Milford, Mass.  
Application August 27, 1953, Serial No. 376,794  
2 Claims. (Cl. 200-30)

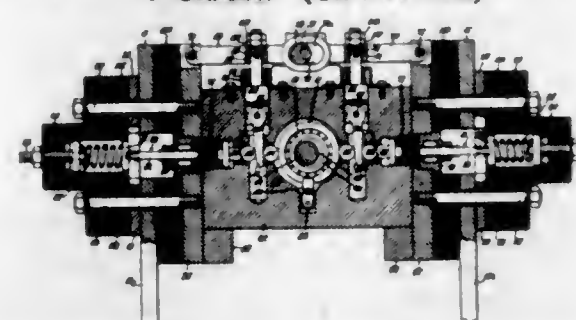


1. In a combustion motor electrical make and break device including a rotary cam, a carrier plate, a stationary electrical contact carried by the plate, a movable contact, a resiliently urged pivoted arm carrying and moved by a follower for the cam, the movable contact being mounted on the arm for movement into and out of engagement with the stationary contact as the cam rotates, a fixed rigid, non-adjustable and non-resiliently mounted stop carried on the plate which engages and limits the maximum outward movement of the arm and predetermines the distance of separation of the contacts, and means for locating the relative positions of the plate and cam so that the follower is on a high point of the cam when the stop engages the arm.

2,713,095

## ADJUSTABLE MECHANISM FOR OPERATING ELECTRIC SWITCHES

Herbert P. Fullerton, Springfield, Pa., assignor to General Electric Company, a corporation of New York  
Application May 9, 1952, Serial No. 286,907  
7 Claims. (Cl. 200-31)



1. In combination, a rectilinearly movable switch member having a pair of spaced apart fixed contacts

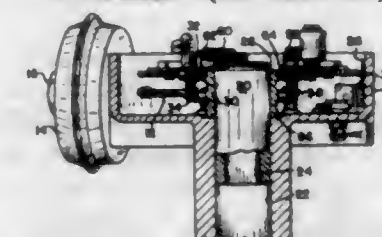
bridged thereby, a revolving cam member having its axis spaced on the opposite side of the fixed contacts from said switch member, means biasing said switch member to move toward said cam member into engagement with the fixed contacts, and thrust means including a reciprocating contact operating member having one end extending between the stationary contacts and an adjustable oscillatory element interposed between the other end thereof and said cam member for causing said switch member to open during a variable part of each revolution of said cam member, said oscillatory element having a fulcrum adjustable relative to the axis of the cam member for shifting the reciprocating range of the contact operating member so that adjustment of said fulcrum inversely varies the switch opening and closing parts of each revolution of said cam member.

2,713,096

## BALL BEARING DISTRIBUTOR PLATE

Leslie L. Brunk, Detroit, Mich., assignor to Renberies Products Co., Detroit, Mich., a corporation of Michigan

Application June 30, 1953, Serial No. 365,033  
5 Claims. (Cl. 200-31)



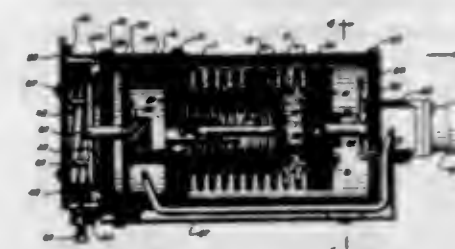
1. In combination with a distributor housing for the ignition system of an internal combustion engine, said housing having a recess therein to receive the distributor plate of the system and having a bushing upstanding from the center of the recess for journaling the cam shaft of the ignition system, a distributor plate in the recess for mounting the distributor points of the ignition system and having a central aperture coaxial with said bushing, a ball bearing having inner and outer races and balls therebetween beneath said plate having its outer race fixedly connected to the underside of said plate, the inner race of said ball bearing being substantially longer than said outer race and being press fitted over said bushing and engaging the bottom wall of said recess about said bushing, the upper end of said inner race extending through the aperture in said plate and terminating adjacent the upper end of said bushing, and a snap ring on the upper end of said bushing engaging the upper end of said inner race.

2,713,097

## ACCELEROMETER

Allen D. Wooten, Falls Church, Va., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application August 28, 1953, Serial No. 382,501  
13 Claims. (Cl. 200-61.53)



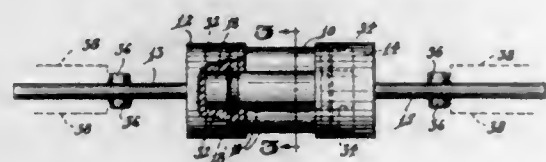
1. In a device of the character described, the combination of a pair of bellows, a member operatively intermediate said bellows having an aperture adapted to receive fluid from one bellows and conduct it to a location adjacent the other bellows, means including a casing



for fixedly supporting said member with respect to each bellows of said pair and for enclosing said other bellows, said other bellows being closed against admission of said fluid thereto and said aperture communicating with the interior of said casing and exterior of said other bellows to thereby facilitate at least partial collapse of the bellows in response to entry of fluid into said casing, a mass attached to said one bellows at a location spaced from said fixedly supported apertured member and free to move toward said member to at least partially collapse said one bellows from a normal expanded condition and expel fluid therefrom through said aperture to a location contiguous to said other bellows to thereby subject said other bellows to pressure of the expelled fluid and vary its effective length.

#### 2,713,098 CURRENT-LIMITING FUSIBLE PROTECTIVE DEVICES

Kenneth W. Swain, Hampton, N. H., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts  
Application July 31, 1951, Serial No. 239,488  
8 Claims. (Cl. 200—120)



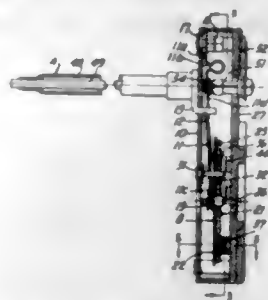
1. A current-limiting fusible protective device comprising a plurality of individually enclosed current-limiting fuses and a pair of terminal members mounted on the opposite ends of said fuses with the said fuses extending in spaced general parallelism between them, each said fuse having a tubular insulating casing and a pair of metallic end caps closing the opposite ends of the casing, and each said fuse having a fuse link extending within its casing and secured to the opposite end caps thereon, with pulverulent arc-extinguishing material surrounding the fuse link within the casing, said end caps having strong mechanical connections to the casings and being capable of successfully resisting high internal pressures tending to displace the end caps axially along the casings, said terminal members having aligned recesses in the opposed faces thereof for reception of the end caps of said fuses, and the opposite end caps of each fuse being seated in aligned recesses of said pair of terminal members and strongly held therein by friction between the walls of said end caps and the walls of said recesses, said fuses having their said casings exposed in spaced general parallelism between the terminal members, and the friction between said end caps and the walls of said recesses in the terminal members constituting the only means maintaining the fuses and terminal members in their assembled relationship.

#### 2,713,099 THERMOSTATIC SWITCH

Arthur J. Kercher, Berkeley, Calif., assignor of one-half to William Wesley Hicks, San Francisco, Calif.  
Application March 10, 1952, Serial No. 275,782  
10 Claims. (Cl. 200—137)

1. In an electrical contacting apparatus particularly adapted for use in connection with controlling three circuits, a flat strip of spring metal, the strip being provided with a resilient portion near one end of the same, means serving to anchor said one end of the strip to a fixed support whereby the other end of the strip is free for movement in opposite directions in a circumferential path, spring tension means intermediate the ends of said strip to afford snap action for the strip, a disk mounted upon the free end of said strip and adapted to be moved there-

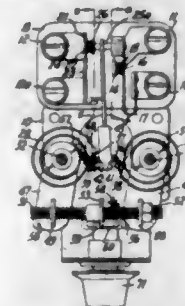
by, a pair of fixed pins passing through said disk and adapted to maintain the same in predetermined align-



ment, three contactors on said disk, and three sets of contacts on said fixed support adapted to be engaged by said contactors.

#### 2,713,100 THERMOSTATIC SWITCH

Arthur J. Kercher, Berkeley, Calif., assignor of one-half to William Wesley Hicks, San Francisco, Calif.  
Application March 5, 1951, Serial No. 213,899  
12 Claims. (Cl. 200—139)

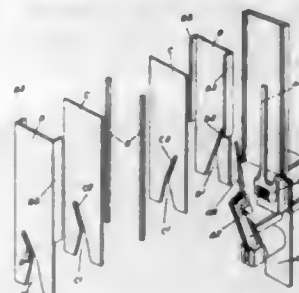


1. In a double pole electric switch to control two lines, means for opening one of the lines comprising a contactor movable into and out of engagement with a pair of contacts in said line, means for moving said contactor comprising a contactor arm adapted to be actuated by a pair of temperature responsive strips, manually cam operated means associated with said strips to determine the temperature at which they actuate said arm, means associated with said arm to open a pair of contacts in the second line, and a lock-out means actuated by said cam operated means adapted to engage said arm and move said contactor out of engagement with said contacts and to lock the pair of contacts in the second line in open position.

#### 2,713,101 ARC CHUTES FOR AIR-BREAK CIRCUIT-BREAKERS

Austin Frederick Brabant Young, Jesmond, Newcastle-on-Tyne, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a company of Great Britain

Application May 1, 1952, Serial No. 285,467  
Claims priority, application Great Britain May 3, 1951  
18 Claims. (Cl. 200—147)

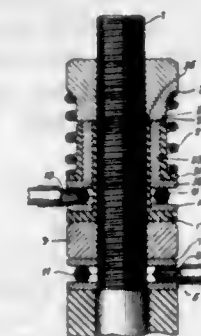


1. An arc chute comprising a series of generally parallel spaced partitions having slots therein which are open at the end where the arc is initially drawn or enters the chute and closed at the other end, the closed ends being staggered so that a line transverse to the partitions

through the closed end of one slot will be at a distance from the closed ends of the slots in adjacent partitions, the partitions including insulating sheets in which the slots are formed and plates of magnetic material so disposed as to urge an arc drawn across the open ends of the slots towards their closed ends where it must assume a zig-zag shape, and additional magnetic material lying between the planes of the plates in adjacent partitions and adjacent those parts of their side edges remote from the open ends of the slots and at least partially bridging the air gap between the plates of adjacent partitions without electrically connecting them together, substantially all the additional magnetic material lying beyond the level of the closed ends of the slots in the direction away from their open ends, the additional magnetic material causing a reduction in the reluctance of the magnetic path from one partition to another at a level beyond the closed ends of the slots thereby tending to urge an arc having a component parallel to the partitions in a direction away from the open ends of the slots.

#### 2,713,102 TEST TERMINAL

Frederick C. Lavarack, Montclair, N. J., and Frank J. Hussey, Jr., Riverdale, and Beverly A. Lundy, Jr., Scarsdale, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York  
Application June 25, 1952, Serial No. 295,476  
2 Claims. (Cl. 200—158)



1. A test post, including, in combination, a screw-threaded electrical conducting metallic post, an abutment, an insulating sleeve surrounding the post and resting on the abutment, said sleeve being provided with a flange whereby an electrically conducting wire may surround the sleeve and be supported by the flange, an electrical conducting metallic bushing surrounding the insulating sleeve, said metallic bushing formed with a flange whereby the bushing rests upon an electrical conducting wire surrounding the insulating sleeve, an internally screw-threaded nut formed with a shoulder screwed onto the post and bearing against the metallic bushing, an insulating bushing surrounding the metallic sleeve, a flange formed on the insulating bushing resting on the flange of the metallic bushing, and a metallic expansion spring interposed between the shoulder on the nut and the flange on the insulating bushing whereby the nut may be backed up slightly electrically disconnecting the metallic bushing from the nut and so the electrical conducting wire from the post.

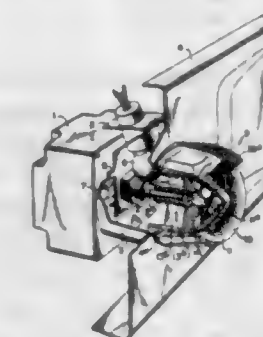
#### 2,713,103 SWITCH POSITIONING MEANS

Raymond N. Slate, Toronto, Ontario, Canada, assignor to Moffats Limited, Weston, Ontario, Canada, a corporation

Application January 29, 1953, Serial No. 333,957  
17 Claims. (Cl. 200—167)

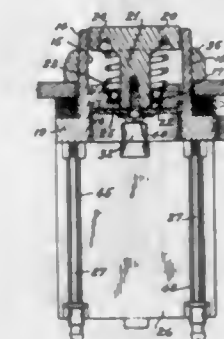
1. Switch positioning means comprising a rotatable shaft, a hollow knob having a peripheral wall by which the knob may be grasped manually and having a trans-

lucent dial at its outer end, a spider within the knob rearward of the dial and connecting the peripheral wall with the shaft whereby the shaft may be rotated by the knob to a plurality of positions, the knob being coaxial with the shaft, the dial bearing switch position indicia located round the axis of rotation of the knob and shaft, and means for illuminating the dial with predominant illumination at a primary area located radially from said axis and through which the indicia are movable sequentially as the knob is rotated and with more dim illumination at adjacent areas, the colour of the predominant



illumination being variable by rotating the knob and the more dim illumination being differently coloured than the predominant illumination; said means comprising a stationary light source behind the spider and located radially from the shaft opposite said primary area, a plurality of differently coloured light filters arranged in circular order on the spider and movable with the knob to pass sequentially in front of the light source to transmit light from the light source to said primary area, adjacent filters transmitting light from the light source to said adjacent areas.

2,713,104  
OILTIGHT ELECTRIC SWITCH ASSEMBLY  
Arthur B. Johnson, Jr., Altadena, Calif., Nobel H. Koertge, Glen Ellyn, Ill., and Edward L. Rucks, Pasadena, Calif., assignors to Furnas Electric Company, Batavia, Ill., a corporation of Illinois  
Application November 26, 1952, Serial No. 322,708  
4 Claims. (Cl. 200—168)



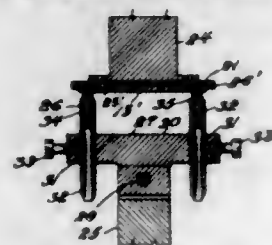
1. In an electric switch, a unitary base having therein aligned oppositely directed bores terminating at an inwardly directed integral flange provided with an inner annular recess adjoining the adjacent end of one of said bores and with an outer annular recess adjoining the adjacent end of the other bore, a push-button slidable within the bore adjoining said inner recess and having an axial projection extending through the inner recess and said flange into said other bore, a resilient sealing ring confined entirely within said inner recess and having inner and outer flanges sealingly engaging said projection and said recess respectively, a rigid cup-shaped disk secured to the free end of said projection and having an annular peripheral flange slidably engaging said other bore and said outer recess, and switch contacts suspended from said base and being relatively movable by said disk.



2,713,105

**SPOT WELDING APPARATUS**

Fritz Gengenback, North Attleboro, Mass., assignor to Evans Case Co., a corporation of Massachusetts  
Application October 3, 1951, Serial No. 249,450  
1 Claim. (Cl. 219—4)

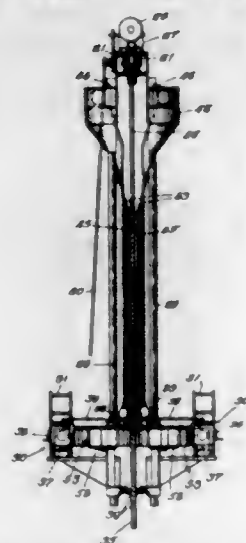


In an apparatus for uniting members to each other, one of which is provided with surface ornamentation on the front side thereof, comprising an upper and lower electrode, one of said electrodes having a surface configuration similar to the surface ornamentation of said front side but in the inverse order for detachably receiving in face-to-face contact the said front side for securing the said one member relative to the axis of the said electrode, tubular members on the other of said electrodes for detachably holding other members and for locating the same relative to the said one member, means for holding said electrodes and said members in engagement, and means for passing an electric current therethrough for spot welding the same together, the said other electrode being made in two parts pivotally connected to each other and having spaced openings extending through one of said parts, said tubular members being received in said openings, and means for securing said tubular members in adjusted position in said openings.

2,713,106

**WELDING APPARATUS**

Perry C. Arnold, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois  
Application December 5, 1949, Serial No. 131,223  
10 Claims. (Cl. 219—8)

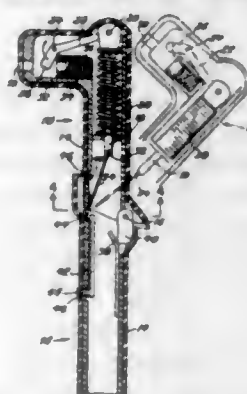


1. Welding tool manipulating apparatus for submerged arc welding of substantially horizontal edges of substantially vertical, stationary shell plates, comprising, a chassis having rolling means mounted thereon to carry the apparatus around the shell of a tank in a direction parallel to the upper edge of the plates at a predetermined rate independent of plate surface irregularities, said chassis including a depending portion, a welding unit mounted on said depending portion, means for moving the welding unit relative to the chassis to position a welding wire at the edges to be welded together, flux support means carried by the depending portion and being held against the plate immediately below said edges, means for feeding flux to the support and welding wire to the edges of said plates, and motor means for driving the apparatus along the plates.

2,713,107

**WELDING ROD HOLDER**

William D. White, Mount Ephraim, N. J.  
Application November 12, 1953, Serial No. 391,457  
4 Claims. (Cl. 219—8)



1. A welding rod holder including an elongated casing having a welding rod receiving opening in a side thereof, a sleeve in said casing in alignment with said opening for receiving the end of a welding rod, a lever in said casing and having one end thereof bent at an angle to the axis thereof, means fulcruming said lever for movement to a first position in which said bent end of said lever will obstruct said opening and to a second position in which said bent end of said lever is out of registration with said opening, a rod located in said casing and disposed substantially transversely of the axis of said opening, means pivotally connecting the other end of said lever to one end of said rod, means normally biasing said rod to a first position to move said lever to its first position, and actuating means for moving said rod to a second position, against the action of said biasing means, to move said lever to its second position.

2,713,108

**COMBINED COVE HEATER AND CUTTER GUIDE**

Eugene T. Hearn, Fairfield, Ill.  
Application October 7, 1953, Serial No. 384,695  
4 Claims. (Cl. 219—19)



1. A combined cove heater and cutter guide device, comprising, a heat transfer plate adapted to have the cove piece laid thereon, said plate along one longitudinal edge thereof having an abutment for a longitudinal edge of the cove piece, a cutter guide rod carried by the device parallel with and spaced from the other edge of said plate, a cutter guide bar slidable at one end on said rod along the last mentioned edge and also swivable on the rod toward and away from the plate, said cutter guide bar having a portion formed to cooperate with said abutment to hold the cove piece when the bar is swung onto the plate with the cove piece between the plate and the bar, a handle at the other end of the bar whereby the cove piece may be cut transversely along said guide bar, and electrical means carried by the device for heating the plate.

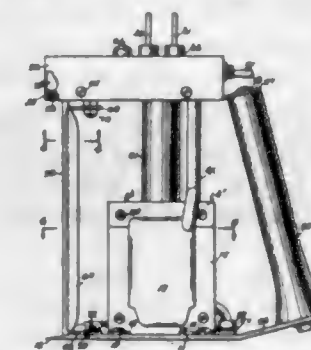
2,713,109

**ELECTRIC MARKING MACHINES**

Clayton M. Elstad, Minneapolis, Minn.  
Application March 19, 1953, Serial No. 343,356  
4 Claims. (Cl. 219—29)

1. A base, a housing fixed on the base, a transformer in the housing, a column fixed to the top of the housing and projecting thereabove, a second housing mounted on the upper end of the column, an upright electric marking

element fixed at its lower end to the base with its upper end portion extending into the second housing and fixed thereto, a pair of terminal prongs fixed to the second

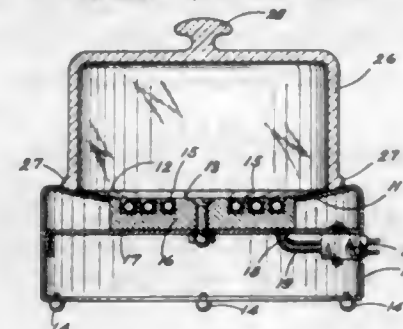


housing, and an electric circuit leading from the terminal prongs to the transformer and from the transformer to the marking element.

2,713,110

**ELECTRIC KILN**

Arthur H. Edgerton, Rocky River, Ohio  
Application February 3, 1954, Serial No. 407,859  
7 Claims. (Cl. 219—35)

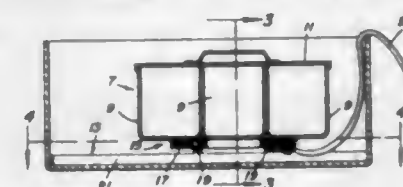


1. A kiln for fusing vitreous enamels comprising a base having a disc shaped top provided with a central opening, an electric heating element in said opening capable of fusing vitreous enamels in the range of 1300° F. to 1600° F. and a transparent cover composed of glass having a softening temperature of approximately 1300° F., said cover having an end wall and a depending annular wall of a greater diameter than the heating element and engaging the upper surface of said top near its outer edge and preventing free access of air to the interior of the cover, the height of the annular wall of said cover being approximately as great as the radius of the mouth of the cover whereby currents of air sweeping the outer periphery of the cover will maintain solidity of the glass cover.

2,713,111

**ELECTRICALLY HEATED LUNCH BOXES**

Marcus Cota McCreary, Florence, Ala.  
Application September 10, 1954, Serial No. 455,161  
1 Claim. (Cl. 219—35)



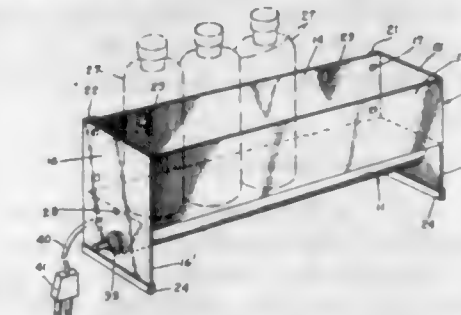
In a lunch box having a rectangular body including ends, sides and a bottom, a U-shaped frame resting on said bottom and fitting between said sides and ends, cross-bars on said frame intermediate its ends and fixed thereto, an annular flat heating element fixed on said cross-bars for removal with said frame, said heating element being spaced from said sides and ends of the body and elevated above said bottom by said frame and cross-bars for circulation of air around and under said element, a container in said body seating on said element and spaced from said ends, and a pair of fingers upstanding from the frame at

opposite sides of the container and confining said container therebetween in spaced relation to the ends of the container to provide for air space between the container and the ends of the body.

2,713,112

**BOTTLE OR CONTAINER WARMER**

Lurline M. Mills and Eleanor F. Taylor,  
Washington, D. C.  
Application March 19, 1953, Serial No. 343,422  
4 Claims. (Cl. 219—43)

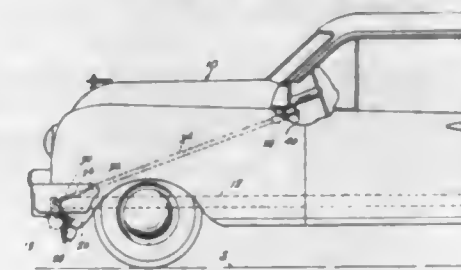


1. A device of the character described, comprising a two-part casing, one part comprising integrally united and foldably related front, back, bottom and end walls, said end walls having integral depending extensions forming leg members, means foldable with respect to said end wall for coupling the end walls with the back wall in forming an elongated casing, said bottom wall having a plurality of elongated vent apertures extending the major portion of the length of said bottom wall, the other part of the casing comprising an elongated transversely curved hood, said hood having side flanges for detachable coupling with apertured portions of the bottom wall of said casing, said hood forming, at the bottom wall of the casing, an elongated heater chamber, said hood having apertures for circulation of air into the chamber and for passage through the apertures into and through the casing, and said leg members having means engaging the bottom wall of the casing to check downward movement of said bottom wall.

2,713,113

**RETRACTABLE LAMP ASSEMBLY FOR AUTOMOBILES**

Wayne Aubrey Snook, Ottumwa, Iowa  
Application September 12, 1952, Serial No. 309,161  
2 Claims. (Cl. 240—7.1)



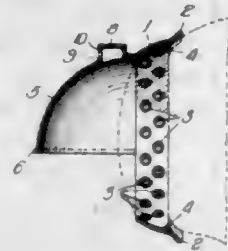
1. In a retractable lamp assembly for an automotive vehicle the combination, with a transversely extending bumper of said vehicle and with a pair of longitudinal frame members of the vehicle spaced transversely of the bumper, of coaxial bearings secured to the undersides of the respective members; a rock shaft journaled intermediate its ends in said bearings and extending transversely of the members in closely spaced, substantially parallel relation to the bumper; lamp units suspended from and fixedly secured to the respective ends of the rock shaft and spaced radially and outwardly from the rock shaft a distance sufficient to dispose the axis of rocking movement of the shaft wholly without the units, the shaft rotating in opposite directions between a first position in which the units are operatively disposed below and in substantially vertically spaced relation to the shaft,



and a second position in which said units are swung through ninety degrees from their operative position to an inoperative position in which they are spaced substantially horizontally from and are disposed between the bumper and rock shaft; protective lens shields secured to said bumper and disposed laterally of the bumper in the space between the bumper and rock shaft at locations effective to cause the shields to protectively cover the lenses of the units while limiting movements of the units beyond their inoperative positions; a radial arm carried by and rotatable with the rock shaft; and abutment means extending laterally from one of the bearings in the path of said arm, said abutment means engaging the arm on rotation of the rock shaft to the first position thereof, to limit movement of the units beyond their operative positions.

### 2,713,114 HOOD FOR HEADLIGHTS

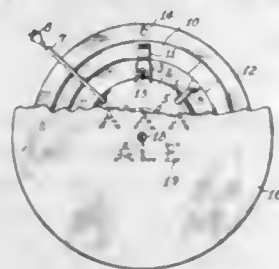
Ida I. Boyd, Chicago, Ill.  
Application July 28, 1953, Serial No. 370,809  
4 Claims. (Cl. 240-46.53)



1. A resilient removably mounted shade for headlights of automotive vehicles formed of a molded elastomer and comprising a cuff adapted to be stretched over a headlight rim; a knife edge rim of V-configuration projecting inwardly from one edge of said cuff and adapted to engage with the junction of the headlight rim and casing; tabs projecting rearwardly from said cuff to facilitate registering the same with the headlight rim; a plurality of suction cups disposed on the inner surface of said cuff adapted to engage the headlight rim to aid in holding the shade thereon; a globular shaped hood integral with said cuff and extending forwardly therefrom and downwardly to a horizontal plane just below the horizontal axis of the headlight; and a bead on the lower edge of the hood for stiffening the same, said hood containing perforations through which air scooped up between the shade and headlight can escape.

### 2,713,115 PIN-UP FLUORESCENT LIGHTING FIXTURE

John L. Archer, Omaha, Nebr.  
Application December 8, 1953, Serial No. 396,935  
1 Claim. (Cl. 240-51.12)

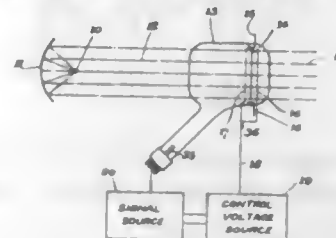


An electric fixture comprising a hollow cup open across its rear side and adapted to house electrical controls, the cup carrying circumferentially spaced outwardly projecting arms having clips on their ends and detachably supporting an annular fluorescent light tube exteriorly of the cup, a flat cover plate detachably secured to the open end of the cup to form a closed chamber therewith, the cover plate having means for detachably securing the fixture to a wall, and a planar light-permeable shield adapted to carry advertising material mounted on the

closed side of the cup, the shield extending outwardly beyond the cover plate and tube to mask the same and being provided with a device whereby the same may be readily removed from the cup.

### 2,713,116 IONIC CRYSTAL RELAY SYSTEM

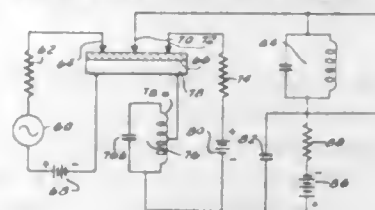
Paul Raibourn, Southport, Conn.  
Application July 8, 1950, Serial No. 172,761  
4 Claims. (Cl. 250-7)



1. An electron ray tube having therein an ionic crystal, means for impressing a signal modulated beam of electrons simultaneously upon a large portion of the entire area of said ionic crystal, means for projecting a beam of light upon said ionic crystal, and means for applying an electric field varying in frequency and intensity with the modulating signal to the said crystal.

### 2,713,117 HETERODYNE CONVERTER

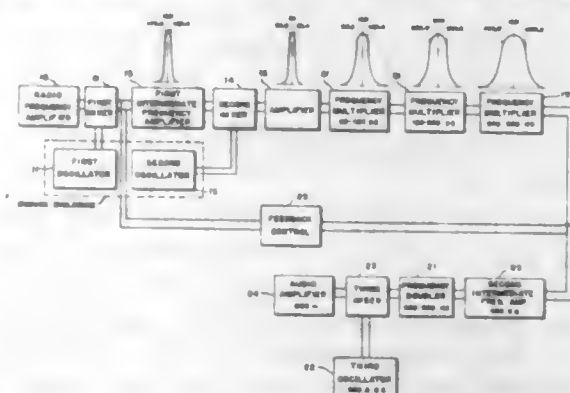
Rowland W. Haegle, Bayside, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts  
Application June 18, 1949, Serial No. 99,895  
6 Claims. (Cl. 250-20)



1. A converter comprising a translating element having a body of semiconductor material, a base contact, and three mutually close electrically interacting whiskers, an input signal circuit connected to one of said three whiskers, a local oscillator circuit including the remaining two whiskers, and an output circuit connected to one of said oscillator circuit whiskers offering matching impedance to the modulation products of the input signals.

### 2,713,118 COMMUNICATION SYSTEM

Robert W. Hart, Lynn, Mass.  
Application May 4, 1951, Serial No. 224,633  
6 Claims. (Cl. 250-20)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

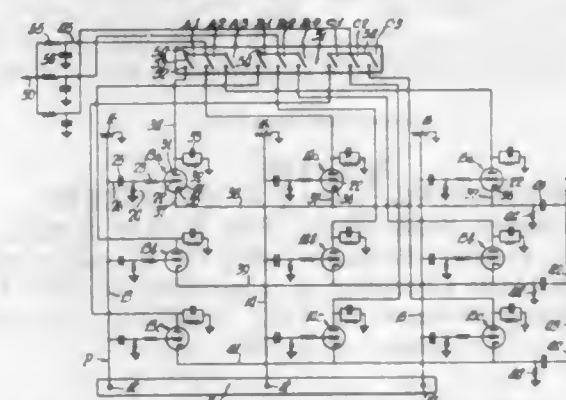


1. A radio receiver having a narrow over-all band width comprising, a radio frequency amplifier for amplifying a modulated received signal, a first local oscillator for providing a signal differing in frequency from said

received signal, means for tuning said radio frequency amplifier and said local oscillator in synchronism to maintain said frequency difference at a first fixed value, a first mixer coupled to said radio frequency amplifier and to said local oscillator for providing an output signal of frequency equal to said first fixed value, a first intermediate frequency amplifier coupled to said mixer and having a relatively broad pass band centered at a frequency equal to said first fixed value, a second local oscillator for providing a signal of a frequency of a second fixed value, said first and second fixed values differing by a third fixed value, a second mixer coupled to said second local oscillator and to said first intermediate frequency amplifier for providing an output signal of a frequency equal to said third fixed value, means for amplifying the output of said second mixer, first, second and third serially coupled frequency doublers, the first of said frequency doublers being coupled to the output of said last-mentioned amplifying means, the frequency spread of the output of said third multiplier being eight times the band width of said first intermediate frequency amplifier and centered at a frequency equal to said first fixed value and a second intermediate frequency amplifier having a pass band less than the frequency spread of the signals in the output of said third frequency multiplier and centered at a frequency equal to said first fixed value, and means coupled to said second intermediate frequency amplifier for detecting the modulating component of said received signal.

### 2,713,119 SWITCHING EQUIPMENT

Benjamin Adler, White Plains, N. Y.  
Application July 21, 1952, Serial No. 300,051  
10 Claims. (Cl. 250-27)



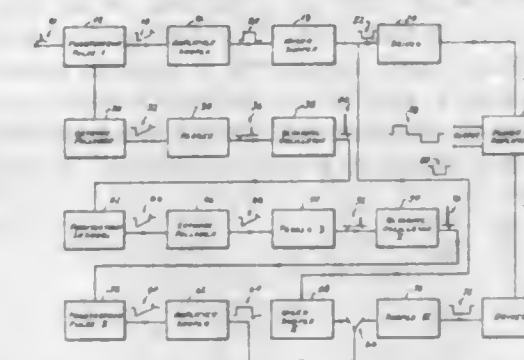
1. Switching equipment comprising a plurality of input lines, a plurality of output lines, a plurality of vacuum tubes arranged in rows and columns associated respectively with said output lines and said input lines, each of said tubes having an input electrode connected respectively to the associated input line and an output electrode connected respectively to the associated output line, and a third electrode, means to make said output electrode positive with respect to said input electrode to prevent flow of current therebetween and means to apply a positive potential to said third electrode for flow of current between said output electrode and said third electrode whereby a signal impressed on the input electrode from the associated input line will be impressed on the output electrode and the associated output line.

### 2,713,120 ELECTRONIC STIMULATOR

David Mostofsky, Brooklyn, and Alexander Sandow, New York, N. Y., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application October 22, 1952, Serial No. 316,292  
10 Claims. (Cl. 250-27)

1. A generator for producing pulses in a unit-cycle consisting of first and second pulses separated by a time

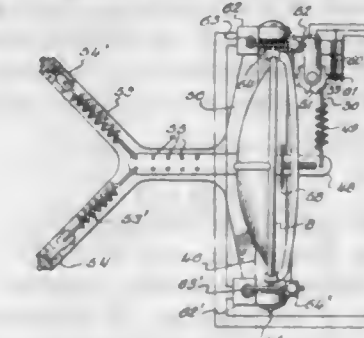
interval comprising a source of trigger voltage impulses, means, actuated by an impulse from said source of trigger voltage impulses, for producing a first output pulse, means for deriving a second trigger voltage impulse coincident with an edge of said first output pulse, means actuated by said trigger voltage impulse for producing a second output pulse, means for deriving a third trigger



voltage impulse coincident with an edge of said second output pulse, means, actuated by said third trigger voltage impulse, for producing a third output pulse, a power amplifier, and means for combining said first and third output pulses in said power amplifier to produce an output unit-cycle voltage wherein the first pulse, an interval determined by the width of the second pulse, and the third pulse appear in sequence.

### 2,713,121 RADIO SCANNING APPARATUS

Joseph Lyman, Huntington, N. Y., and Joe J. Caldwell, Jr., Bloomfield, N. J., assignors to The Sperry Corporation, a corporation of Delaware  
Original application August 12, 1941, Serial No. 406,494.  
Divided and this application October 16, 1947, Serial No. 780,160  
13 Claims. (Cl. 250-33.65)



1. In apparatus of the character described, scanning antenna means comprising an antenna reflector, means for pivotally mounting said reflector for universal movement substantially about the focus thereof, resilient means connected for directing said reflector in an initial direction, and motive means connected to said reflector for oscillating the same to scan a field of view whose center lies in said initial direction.

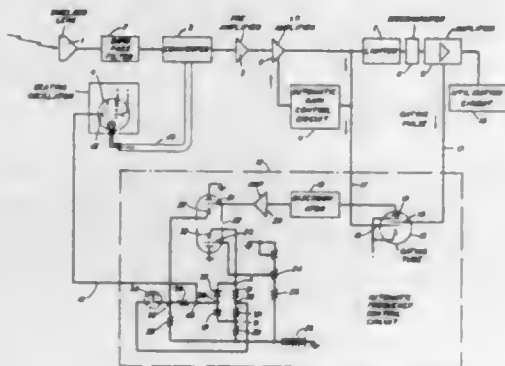
### 2,713,122 AUTOMATIC FREQUENCY CONTROL

Edward Joseph Henley, Chicago, Ill., assignor to American Telephone and Telegraph Company, a corporation of New York  
Application December 8, 1951, Serial No. 260,652  
2 Claims. (Cl. 250-36)

1. In combination, a reflex Klystron oscillator for generating super-high frequency electric waves in the microwave range of the frequency spectrum, said reflex Klystron oscillator having a repeller electrode for determining its frequency of oscillation, an automatic frequency control circuit for automatically controlling the frequency of the super-high frequency electric waves generated by said reflex Klystron oscillator, said circuit comprising discriminator means for producing varying



control voltages, a double cathode-follower tube having two anodes and first and second grid-cathode circuits, means for connecting each of said anodes to ground, said first grid-cathode circuit having a first control grid and a first cathode, means for applying said varying control voltages to said first control grid, said second grid-cathode circuit having a second control grid and a second cathode, a source of constant potential, means for coupling said source to said second control grid, a potential divider, an electric path connected in parallel across said potential divider, a pair of asymmetric conductors connected in series in said path and having a mid-point therebetween, a first resistor, a second resistor, means for

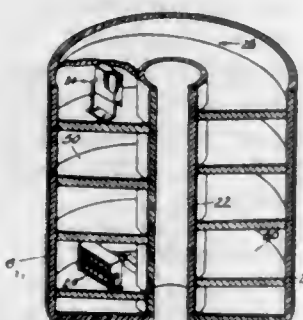


coupling one end of said potential divider to said second cathode, means for coupling the other end of said potential divider to said source and also to one end of said first resistor, means for coupling the other end of said first resistor to said first cathode and also to one end of said second resistor, means for directly connecting the other end of said second resistor to said mid-point between said asymmetric conductors, a direct-current circuit extending from said other end of said second resistor to said repeller electrode of said reflex Klystron oscillator, said potential divider having a mid-point thereon, and a direct-current circuit extending from said mid-point on said potential divider to said ends of said first and second resistors that are coupled together.

2,713,123

## MASS SPECTROMETER

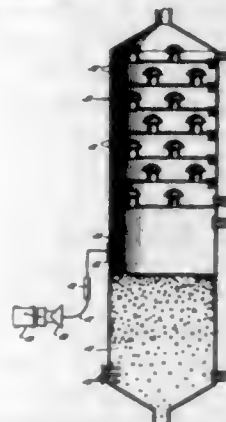
Ian H. McLaren, Dearborn, and William C. Wiley, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware  
Application February 25, 1952, Serial No. 273,198  
7 Claims. (Cl. 250-41.9)



1. A mass spectrometer, including, means for emitting a plurality of ions in a substantially predetermined direction, means for producing a magnetic field in a direction substantially perpendicular to the first direction to subject the ions to a rotational movement, a guide for directing the ions through a predetermined rotational path, a collector disposed substantially perpendicular to the direction of ion flow and substantially parallel to the direction of the magnetic field to receive the ions after their rotational movement, and an indicator for determining the relative times at which the ions of different mass reach the collector.

2,713,124  
RADIOACTIVE RADIATION APPARATUS FOR MEASUREMENT OF LEVEL OF MATERIAL IN TANKS

Oille W. Graham, Tulsa, Okla., assignor to Instruments, Inc., Tulsa, Okla., a corporation of Oklahoma  
Application November 1, 1950, Serial No. 193,465  
3 Claims. (Cl. 250-43.5)

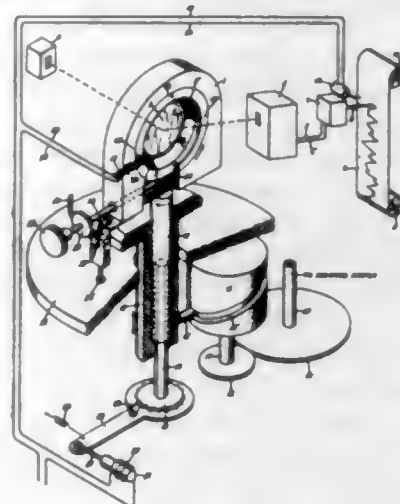


1. In a container adapted to have a solid material flow downwardly through it and having a vertical side wall of substantial height, the improvement that comprises a source of radioactive radiations in a fixed position inside said container near the inner surface of said side wall, said source of radioactive radiations having only a relatively thin covering wall above it to prevent erosion, a member surrounding said covering above said radioactive source and shaped to hold a quantity of said solid material flowing through said tank so that said solid material will prevent erosion of the covering for said radioactive material, a well extending through said side wall in substantial vertical alignment with said source and at a substantial distance therefrom, a detector of radioactive radiations in said well and means for indicating the amount of radiations detected, as an indication of the level of material contained in said container.

2,713,125

## INTEGRATING X-RAY GONIOMETER

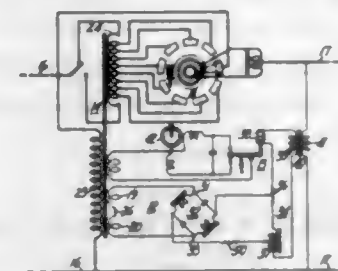
Alfred H. Gelsler, Schenectady, Eric T. Asp, Scotia, and Beulah F. Decker, Ballston Lake, N. Y., assignors to General Electric Company, a corporation of New York  
Application November 22, 1952, Serial No. 322,126  
7 Claims. (Cl. 250-52)



1. An X-ray goniometer comprising the combination of means for scanning a plane area of a crystalline specimen with a beam of X-rays, means for translating the variations of diffraction of such X-rays into electric impulses of corresponding variation, means for recording said electric impulses, means for displacing the area of impingement of said X-ray beam on said specimen through a chosen radial angle, means for moving said recording, coordinately with such angular displacement and means for shifting the angle of impingement by a small increment about a vertical axis of said specimen.

2,713,126  
CURRENT RESPONSIVE SYSTEM EMPLOYING LEAKAGE FLUX RESPONSIVE WINDING MEANS AND A MONOCYCLIC SQUARE

William C. Sealey, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application May 25, 1953, Serial No. 356,996  
5 Claims. (Cl. 307-103)

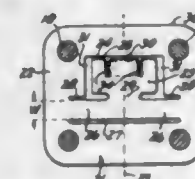


1. A current responsive system comprising a transformer, winding means comprising first and second measuring windings disposed on said transformer to provide a voltage in said winding means proportional to flux which encircles said first winding but does not encircle said second winding, an impedance element, a monocyclic square having input terminals and output terminals, means connecting said input terminals to said winding means, and means connecting said impedance element to said output terminals to supply to said impedance element a current proportional to said flux, and independent of the impedance of said impedance element.

2,713,127

## VARIABLE POSITION TRANSDUCER

Wilbur T. Harris, Southbury, Conn., assignor to The Harris Transducer Corporation, Southbury, Conn., a corporation of Connecticut  
Application May 9, 1952, Serial No. 287,077  
28 Claims. (Cl. 310-15)

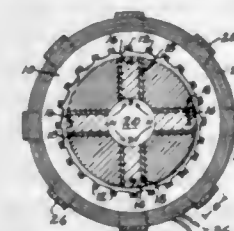


1. As an article of manufacture, a transducer lamination of magnetic material comprising a stator mass area completely surrounding an armature mass area, said mass areas having adjacent pole faces on opposite sides of said lamination defining two gaps on a common axis extending in the plane of said lamination, and yieldable means integrally connecting said stator mass area and said armature mass area symmetrically about said axis and intermediate said gaps.

2,713,128

## DYNAMOELECTRIC MACHINE

Dominic S. Toffolo, Camp Springs, Md.  
Application October 7, 1952, Serial No. 313,489  
8 Claims. (Cl. 310-180)



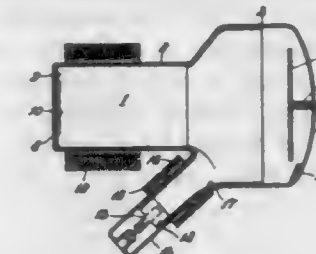
1. A dynamoelectric machine comprising a stator element, a rotor element mounted for rotation in said stator element and dimensioned to define an airgap therebetween, means for establishing a substantially radial magnetic field across said airgap, conductors carried by at least one of said elements for relative movement to cut

the flux lines of said magnetic field, and means for establishing a second magnetic field directed substantially parallel to the axis of rotation of said rotor element and intersecting the radial magnetic field, whereby variation of said second magnetic field may be used to control the effective reluctance of said radial magnetic field.

2,713,129

## TELEVISION CAMERA TUBE

Hajo Bruining and Hendrikus Johannes Lemmens, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application November 7, 1951, Serial No. 255,242  
Claims priority, application Netherlands November 13, 1950  
2 Claims. (Cl. 313-65)

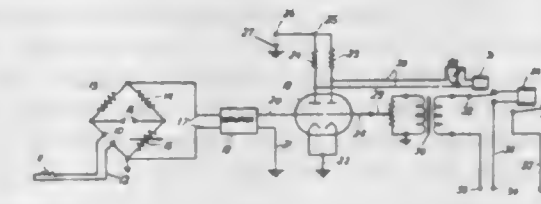


1. A television camera tube for producing electron-optical image magnification comprising a vitreous envelope, including a side-branch, a caesium-activated photo-emissive layer disposed on the inner surface of said envelope at one end thereof, an image electrode disposed within said envelope at the other end thereof, electron-optical means for projecting an electron image produced by said photo-emissive layer onto said image electrode, a scanning electrode system disposed on the same side of the image electrode as the photo-emissive layer and within the side-branch of the envelope and positioned to scan said image electrode with an electron beam, and a metal conductive coating on the inner surface of the wall of said side-branch of the envelope containing said scanning electrode system to prevent unequal potential distributions thereon, the portion of said conductive coating adjacent said electrode system being constituted by a metal capable of binding caesium vapour.

2,713,130

## CONTROL CIRCUIT

Paul G. Weiller, New York, N. Y.  
Application December 2, 1953, Serial No. 395,777  
5 Claims. (Cl. 317-132)



1. In a sensitive relay circuit of the character described, the combination of a signal source; a dual triode tube having one grid connected to said signal source and having its cathodes grounded; a resistor connected to each of the plates of said dual tube with one end, the other ends of said resistors being tied together and being connected to a high voltage A. C. supply; a sensitive relay connected from one plate to the other of said dual tube; a low voltage supply connected to the operating contacts of said relay; a transformer connected in series with said low voltage supply through said contacts of said relay; a potentiometer connected to the secondary of said transformer and grounded at one end, the arm of said potentiometer being connected to the second grid of said dual tube, and a power relay operated by said sensitive relay.



### 2,713,131 DEFLECTION COIL ARRANGEMENT FOR CATHODE RAY TUBES

Rudolf Urtel, Pforzheim, Germany, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware  
Application June 27, 1952, Serial No. 295,946  
Claims priority, application Germany June 29, 1951  
3 Claims. (Cl. 317-200)



1. In a deflection coil system for cathode ray tubes for producing an extended control field axially of the coil system at one end thereof, and a quickly decaying field axially of said coil system at the other end thereof, the combination comprising a closed hollow cylindrical core of magnetic material, and a winding on said core for producing deflection fields, said winding having a first portion comprising wires extending longitudinally internally of said core, a second portion adjacent one end of said core and extending substantially circumferentially and externally thereof for interconnecting said wires, said second portion being positioned intermediate the ends of said core, to provide a substantial extension of said deflection fields axially of said core, and a third portion adjacent a second end of said core and extending substantially circumferentially of the axis and externally to produce a rapid decay of said deflection fields axially of said core.

### 2,713,132 ELECTRIC RECTIFYING DEVICES EMPLOYING SEMICONDUCTORS

Kenneth Albert Matthews and Robert Anthony Hyman, London, England, assignors to International Standard Electric Corporation, New York, N. Y.  
Application October 7, 1953, Serial No. 384,578  
Claims priority, application Great Britain October 14, 1952  
10 Claims. (Cl. 317-236)



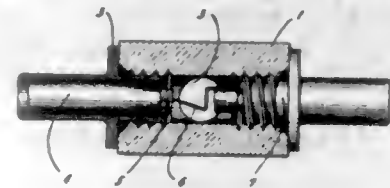
1. An electric crystal rectifier comprising a semiconducting body of given conductivity type, a first electrode making low resistance contact with the said body, the body having been subjected to an electroforming treatment in order to produce a layer of the opposite conductivity type on part of the exposed surface of the body, and a thin film of the given conductivity type over part of the said layer, and a second electrode making contact with the said thin film, the two electrodes being spaced apart by a distance  $d=k\sqrt{T}$  where  $T$  is the lifetime of current carriers in the semiconducting body, and  $k$  is substantially a constant, the value of which depends upon the said electroforming treatment, and upon the reverse turnover voltage required for the rectifier.

### 2,713,133 GERMANIUM DIODE AND METHOD FOR THE FABRICATION THEREOF

Peter L. Ostapovich, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania  
Application June 5, 1952, Serial No. 291,858  
13 Claims. (Cl. 317-239)

1. As a semiconductive material for asymmetrically-conductive devices, that composition of matter which

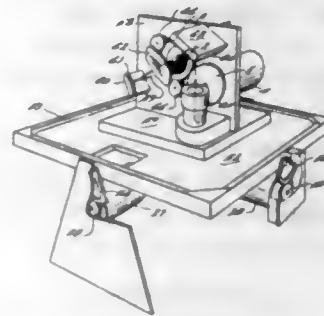
comprises substantially 0.01 percent to 0.04 percent of bismuth by weight and 0.1 percent to 0.3 percent of anti-



mony by weight, the remainder comprising germanium substantially free from other significant impurities.

### 2,713,134 RADIANT ENERGY CONTROLLED FOLLOW-UP SYSTEM

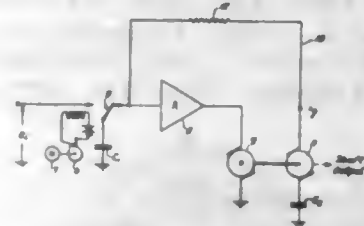
Howard J. Eckweller, Jr., Elmhurst, N. Y., assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y., a corporation of New York  
Application May 27, 1949, Serial No. 95,768  
9 Claims. (Cl. 318-19)



1. In a scanning system, a scanning shutter, means for directing a light beam through said shutter forming a light spot thereon, means for producing relative motion between said light beam and shutter, means for producing a signal voltage whose time phase and amplitude vary with the relative positions of the light spot and shutter, means providing a reference voltage of the same frequency as the signal voltage, a servomotor, and means feeding said servomotor from said signal and reference voltages, said shutter comprising a disc having a portion of its surface transparent, and a portion opaque, the dividing line between said opaque and transparent portions being three sides of a rectangle, two of said sides intersecting the circumference of said disc, the movement of said light beam away from the center of said disc causing the shortening of pulses of said signal voltage.

### 2,713,135 INTERPOLATION SERVO

F. Sutherland Macklem, Freeport, N. Y., assignor to Servo Corporation of America, New Hyde Park, N. Y., a corporation of New York  
Application March 9, 1951, Serial No. 214,697  
11 Claims. (Cl. 318-28)

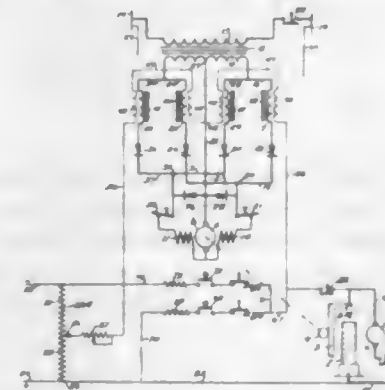


1. In a servomechanism of the character indicated, amplifier means including an input and an output, a first capacitance connected to said input, motor-generator means connected to be driven by said output, sampling means including means for intermittently impressing a charge on said capacitance, feed-back means connecting the output of said motor-generator means to said input in such a way as substantially to discharge said capacitance, within the minimum period between samplings, whereby said motor-generator means may be physically

displaced in accordance with the charge impressed on said capacitance, and a second capacitance in the output of said motor-generator means, whereby said second capacitance may be charged in accordance with the output of said motor-generator means so that after initial substantial discharge of said first capacitance, said second capacitance may through said feed-back means and said amplifier means drive said motor-generator means in accordance with the said rate of change of charges impressed on said first capacitance.

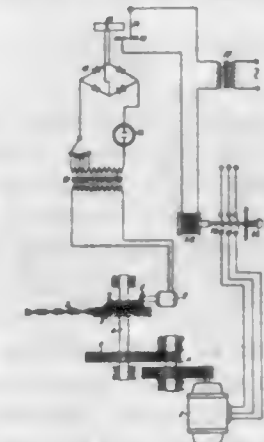
### 2,713,136 WITHDRAWN

2,713,137  
ELECTRIC REGULATION BY CONTROLLED REVERSIBLE MOTOR  
William Few, Cleveland Heights, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio  
Application October 31, 1949, Serial No. 124,689  
9 Claims. (Cl. 318-298)



1. A control for a motor having a pair of differentially acting field windings, comprising: a source of alternating current; two full wave rectifier systems energized from the source; each system comprising two rectifiers for half wave rectification respectively; and an inductor winding in series with each rectifier; and the systems respectively supplying full wave rectified current to the fields respectively, normally at intermediate balanced values of current at which the motor remains at rest; four saturating windings, two for each system, associated with the inductor windings respectively; a circuit comprising unidirectional current mains and connections between the mains which, when the mains are energized, energize all of the saturating windings, concurrently, and those of one system with current in the direction to assist the magnetomotive force of the inductor windings thereof, and those of the other system in the direction to oppose the magnetomotive force of the inductor windings thereof; to cause the current to one field to be increased and that to the other field to be decreased, to cause the motor to run in the direction determined by the predominating field; a control system comprising means producing a first unidirectional potential of preselected fixed value and impressing it on one of said mains; means producing a second unidirectional potential that varies through a range of values above and below that of the first potential and impressing it on the other mains in opposition to the first potential; to cause the current in the said circuit and mains to be at zero value when the two potentials are balanced one against the other to cause the motor to remain at rest as aforesaid, or to cause the current in the mains and circuit to flow in one direction or the other to cause one field or the other to predominate and cause the motor to run in one direction or the other, as the variable potential varies.

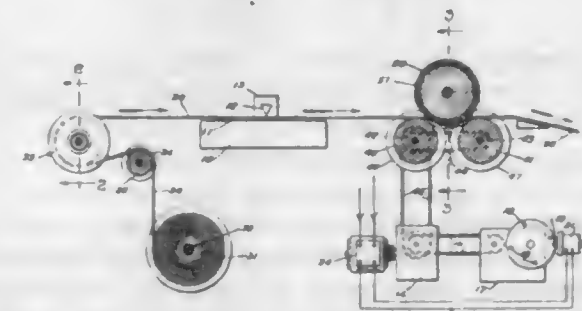
2,713,138  
ELECTRIC MOTOR SPEED PROTECTIVE SYSTEM  
Hero Harbert Lanfers, Berend Riko Ter Brugge, and Hendrik Willem Sasse Mulder, Apeldoorn, Netherlands  
Application September 24, 1951, Serial No. 248,086  
Claims priority, application Netherlands August 9, 1951  
3 Claims. (Cl. 318-464)



1. A device for switching off a driving part of a machine-plant when the driven part is subject to a resistance which is too large, comprising a dynamo coupled to the driven part, a transformer, said dynamo feeding said transformer, a discharge tube and a rectifier in series therewith in the secondary circuit of said transformer, a relay, said rectifier feeding said relay, a driving electromotor, a magnet operated switch in the supply circuit of the driving electromotor, the contacts of said relay controlling the circuit of the magnet of said switch.

### 2,713,139 MOTOR CONTROL SYSTEM FOR SHROUD LINE METER

Augustus John Steinthal, New York, N. Y.  
Application May 10, 1951, Serial No. 225,623  
1 Claim. (Cl. 318-470)



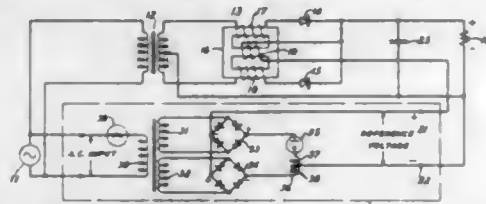
In a motor operated drive mechanism, a transmission, a motor in driving relation to said transmission, a control device driven from said transmission and including a rotary shaft and a disk mounted thereon and carrying a plurality of pins projecting laterally from a side face of the disk and spaced from each other circumferentially thereof, and a switch for effecting starting and stopping of the motor mounted adjacent said disk and having operating means manually movable to a closed position to start the motor, said operating means projecting over one face of said disk and disposed in the path of travel of said pins and engageable individually and successively by the pins for causing movement of the operating means to an opened position during rotation of the disk.

2,713,140  
REGULATED RECTIFYING APPARATUS  
William H. Bixby, Detroit, Mich., assignor to Donald R. Middleton and Stanley M. Hanley, doing business as Power Equipment Company, a copartnership  
Application February 19, 1954, Serial No. 411,467  
8 Claims. (Cl. 321-16)

4. In combination, a first full wave rectifier for deriving from an alternating-current source a first pulsating unidirectional output voltage, a second full wave rectifier



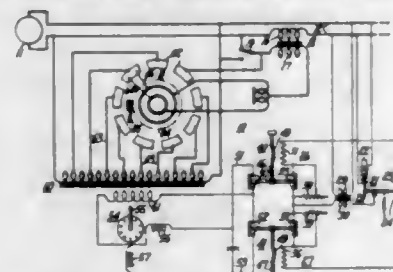
for deriving from said alternating-current source a second pulsating unidirectional output voltage, a cold cathode, gas-filled constant voltage device, an autotransformer having a core and a winding of a plurality of turns thereon, a first circuit comprising in series said winding, said constant voltage device and said first and second pulsating unidirectional output voltages in aiding relationship,



and a second circuit comprising in series said first pulsating unidirectional output voltage, said constant voltage device, and a portion only of the turns of said winding, the ratio of the turns of said winding in said second circuit to the turns in said first circuit being substantially equal to the ratio of said first pulsating unidirectional output voltage to the sum of said first and second pulsating unidirectional output voltages.

**2,713,141**  
**TAP CHANGER MOTOR CONTROL SYSTEM WITH SELF-CONTROLLED THERMAL TIME DELAY RELAY**

William C. Sealey, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application November 6, 1952, Serial No. 319,144  
7 Claims. (Cl. 323-43.5)



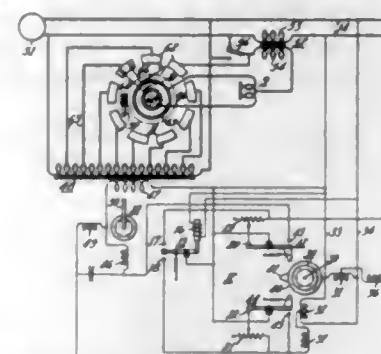
1. In combination, a member adapted to be moved, a motor for moving said member, means for energizing said motor, means for controlling the energizing of said motor comprising a thermally operated switch and a control circuit, said switch comprising main contacts for connecting said motor energizing means to said motor, auxiliary contacts, and a heat responsive element operable at a predetermined temperature to actuate simultaneously said main contacts and said auxiliary contacts, said control circuit comprising said auxiliary contacts, a heating element disposed adjacent to said heat responsive element, a voltage responsive device having first contacts, and current supply means connected in circuit with said heating element through said first contacts and said auxiliary contacts, said device being operable in response to a predetermined change in voltage to connect said current supply means to said heating element to cause said heat responsive element to obtain said predetermined temperature after a predetermined time and actuate simultaneously said main contacts and said auxiliary contacts thereby interrupting said control circuit causing said heat responsive element to cool and energizing said motor causing said member to move.

**2,713,142**  
**TAP-CHANGING UNDERLOAD SYSTEM WITH TIME DELAY DEVICE SELECTIVELY RESPONSIVE TO DIFFERENT CONDITIONS**

William C. Sealey, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application January 7, 1953, Serial No. 329,978  
7 Claims. (Cl. 323-43.5)

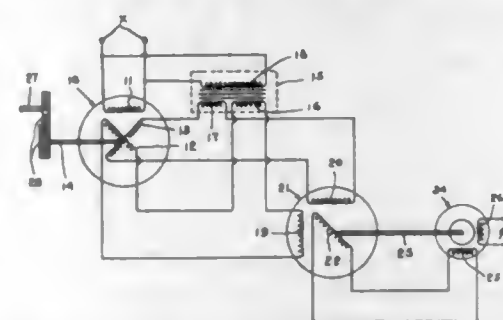
1. In combination, an element to be moved in response to a circuit condition and means for moving said element

comprising a motor, and means for operating said motor in either direction comprising a first voltage supply and first and second main contacts for connecting said supply to said motor, a control system for selectively operating one of said main contacts to provide for operation of said motor in one direction, said control system comprising a relay having first and second normally open contacts selectively actuatable into closed position in response to said circuit condition, an electroresponsive device comprising a movable member, a first unit providing for movement of said member in one direction and a second unit providing for movement of said member in another direction, each of said units comprising a main winding, an auxiliary winding, a voltage supply for energizing said windings, current limiting means, and auxiliary contacts actuatable by said member, said current limiting means connected in series with part of said main winding through said auxiliary winding and said auxiliary contacts, said first relay



contacts connected in series with said current limiting means through said auxiliary contacts, said units being normally energized to predetermined extents while said relay contacts are open, closure of said first relay contacts in response to said circuit condition shunting said current limiting means and said auxiliary contacts of said first unit to increase the energization of said first unit and cause said member to rotate in a predetermined direction, rotation of said member for a predetermined time opening said shunted auxiliary contacts in said first unit and closing one of said main contacts to energize said motor to move said element, opening of said first relay contacts when said condition is corrected causing said first unit to be energized less than said second unit to rotate said member in said other direction, said member after a second predetermined time opening said closed main contacts, and closing said auxiliary contacts of said first unit causing said first unit to be reenergized to said predetermined extent.

**2,713,143**  
**ELECTRO-MECHANICAL RESOLVERS**  
Charles Dickens Bock, New York, N. Y., assignor to American Bosch Arma Corporation  
Application April 25, 1951, Serial No. 222,919  
5 Claims. (Cl. 323-52)



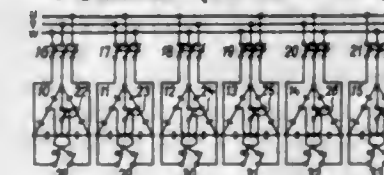
1. In an electro-mechanical resolver having a rotor, a winding carried by said rotor, a stationary winding, a drive shaft, gear means for driving said drive shaft and electrical means for correcting for imperfections in said gear means, said electrical means including a transformer having a primary winding connected to the resolver primary winding and a secondary winding connected to the resolver secondary winding.

**2,713,144**  
**ELECTRICAL IMPEDANCE UNIT**  
James A. Montlor, Morristown, N. J., assignor to Essex Electronics, a corporation of New Jersey  
Application November 22, 1949, Serial No. 128,785  
2 Claims. (Cl. 323-74)



1. An article of the character described comprising an elongated body of dielectric material, a resistive element embedded in said body, a metallic element of greater cross section at one end than at the other embedded in said body and in electrical contact with one end of said resistive element, and an adjustable metallic element on the exterior of said body over said embedded metallic element, said metallic elements and intervening dielectric material forming a capacitor.

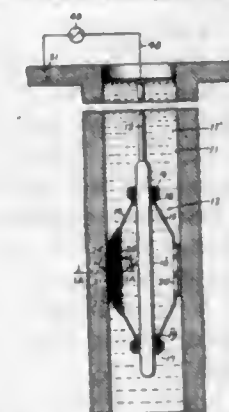
**2,713,145**  
**SWITCHING SYSTEM FOR ADJUSTABLE CONDENSER BATTERIES**  
Bjarne Storsand, Zurich, Switzerland, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland, a corporation of Switzerland  
Application December 20, 1951, Serial No. 262,630  
4 Claims. (Cl. 323-128)



4. A switching system for adjusting, under load, three-phase condenser batteries, comprising at least three main delta connected three-phase condenser groups, each of said group consisting of six condenser elements connected in pairs in series, said series connected groups being connected in delta, and means including switches providing for the selective connection or disconnection of each corner of the said delta connected main condenser groups to the opposite center between two condensers, so as to selectively switch the individual elements under load from series to parallel and vice versa, and at the same time making it possible to obtain a number of intermediate steps between the series and the parallel connection in order to obtain a relatively fine graduation of the capacitive current, and avoid relatively high impulse currents and voltages during operation.

**2,713,146**  
**SPONTANEOUS POTENTIAL WELL LOGGING METHOD AND APPARATUS**  
Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware  
Original application October 18, 1949, Serial No. 122,102, now Patent No. 2,669,690, dated February 16, 1954.  
Divided and this application June 3, 1953, Serial No. 359,361

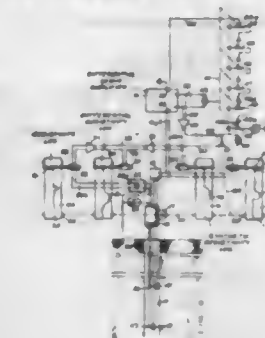
6 Claims. (Cl. 324-1)



1. In a method for investigating earth formations traversed by a bore hole containing a column of conductive

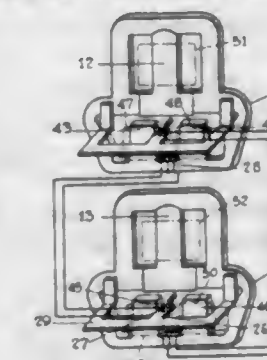
liquid, the steps of disposing an electrode in close proximity to and in electrical communication with the wall of the bore hole, preventing direct electrical communication between said electrode and the column of conductive bore hole liquid, and providing indications of spontaneous potentials between said electrode and a reference point.

**2,713,147**  
**ACOUSTIC VELOCITY-ELECTRICAL RESISTANCE CORRELATION WELL LOGGING**  
Allen A. Stripling, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, a corporation of New York  
Application June 29, 1953, Serial No. 364,717  
14 Claims. (Cl. 324-1)



1. The method of locating sections of earth formations having abnormal fluid content which comprises generating two electrical signals which vary in relation to depth below the earth's surface in accordance with two earth parameters one of which is an electrical resistivity function of the formations and the other an acoustic velocity function of said formations, generating a synthetic signal in dependence upon a mathematical power function, an assumed normal fluid saturation of the formations and one of said electrical signals, and recording as a function of depth of said formations said synthetic signal and the other of said electrical signals to indicate by departures therebetween the sections having said abnormal fluid saturation.

**2,713,148**  
**DEVICE FOR IMPROVING THE ERROR CURVES OF INDUCTION TYPE METERS WITH SEVERAL DRIVING ELEMENTS**  
Georges Jean Thevenon, Paris, France, assignor to Compagnie pour la Fabrication des Compteurs et Matériel d'Usines à Gaz, Montrouge, France, a joint-stock company of France  
Application July 30, 1951, Serial No. 239,244  
Claims priority, application France October 6, 1950  
6 Claims. (Cl. 324-137)



1. In an induction type meter comprising at least two driving elements each of which includes, one voltage electromagnet comprising three poles, and one current electromagnet comprising three poles, the poles of said electromagnets defining an air gap for a conductive metal rotary disc, a device for improving the error curve, said device comprising a first auxiliary pole piece placed between the two poles of said current electromagnet and on the axis of the central pole of said voltage electromagnet

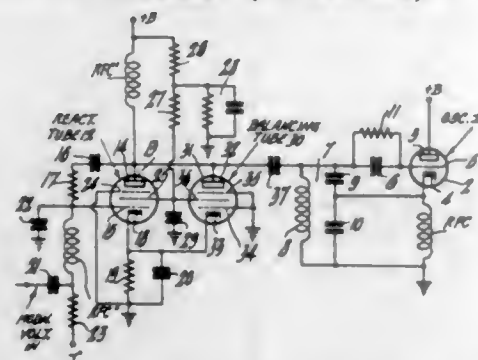


of the first driving element, a second auxiliary pole piece placed between the two poles of said current electromagnet and in the axis of the central pole of the voltage electromagnet of the second driving element, a first electrical circuit comprising a first winding coiled around said first auxiliary pole and a second winding coiled around the said current electromagnet of said second driving element between the bases of the current poles and on the axis of the central pole of the voltage electromagnet of said second driving element, and a second electrical circuit comprising a first winding coiled around said second auxiliary pole and a second winding coiled around the current electromagnet of said first driving element between the bases of the current poles and on the axis of the central pole of the voltage electromagnet of said first driving element.

2,713,149

## FREQUENCY MODULATION CIRCUITS

Max H. Mesner, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application January 15, 1953, Serial No. 331,389  
11 Claims. (Cl. 332-18)

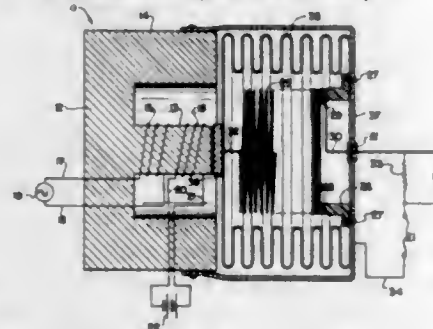


1. In an angular velocity modulation system, a resonant circuit wherein oscillatory waves appear, the angular velocity of said waves being variable in response to variations in the resonant frequency of said circuit, an electron flow control device having at least collector and emitter electrodes and having its collector-emitter path across said circuit, said device being connected to produce an electronically-generated reactance across such circuit, means for applying a modulating voltage to said device to vary the reactive effect of said reactance, the application of said modulating voltage tending to cause incidental amplitude variation at modulation frequency of the current wave flowing in the collector electrode circuit, an electron discharge device having anode, cathode and grid electrodes, means connecting said discharge device for operation as a grounded-grid amplifier, means connecting said anode electrode to the collector electrode of the reactance device, and means for applying a modulating voltage wave to said cathode electrode.

2,713,150

## MODULATORS

Van W. Bearinger, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application October 1, 1951, Serial No. 249,107  
2 Claims. (Cl. 332-51)



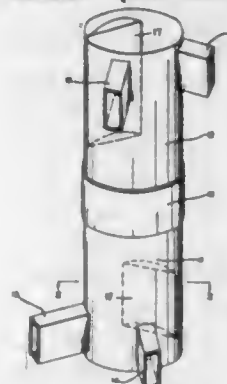
1. Modulator apparatus comprising in combination: an electromagnet constructed of easily magnetizable

material having an electrical winding thereon energized by a source of direct current potential of relatively large magnitude for producing a constant magnetic flux in said electromagnet; a second electrical winding on said electromagnet energized by a source of alternating potential of relatively small magnitude to vary the magnetic flux in said electromagnet; magnetically responsive armature means operated on by said electromagnet; a current conducting coiled spring having its initial tension varying slightly along its length so that its turns separate one at a time in a continuous manner starting at one end and moving to the other such that the electrical resistance of said spring varies with a change in its tension; a resistor; a voltage source; electrical circuit means comprising said source, and resistor, and said coiled spring being connected in series; metallic bellows completely enclosing said spring in a hermetically sealed manner, said bellows being filled with an inert gas, said armature means connected to one wall of said bellows and means supporting said spring from opposite walls of said bellows so that the movement of said armature means in response to the varying flux of said electromagnet effects a change in the resistance of said spring.

2,713,151

## TWO CHANNEL ROTARY JOINT

Harold K. Farr, Binghamton, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application March 29, 1946, Serial No. 657,994  
3 Claims. (Cl. 333-6)



2. A rotating circular waveguide joint comprising, a cylindrical collar, two circular waveguide sections joined by said collar and having a common axis, two pairs of transmission lines, each of the free ends of said circular waveguide sections being connected to one of said pairs of transmission lines, the points of junction of each of said transmission lines of each of said pairs with their respective circular sections being separated by 90° about the circumference of said circular sections, and a conductive plate identically positioned in each of said circular waveguide sections between said cylindrical collar and said transmission lines, the axis of symmetry of said conductive plates being at 45° to the axes of said transmission lines connected to respective circular sections.

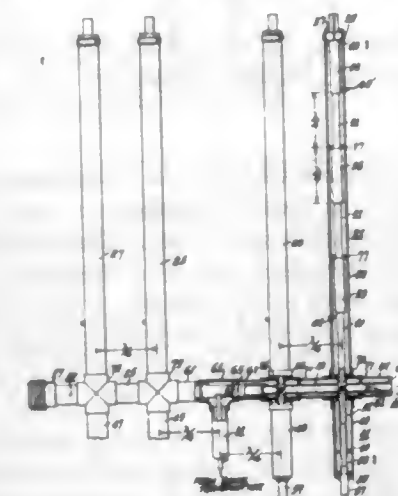
2,713,152

## VESTIGIAL SIDE BAND FILTER

George Harold Brown, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application June 28, 1950, Serial No. 170,915  
The terminal 15 years of the term of the patent to be granted has been disclaimed  
9 Claims. (Cl. 333-9)

1. A band dividing filter arrangement including an input transmission line, a first branch transmission line and a second branch transmission line connected in parallel to said input transmission line, a first transmission line element connected in shunt across said second branch transmission line at a point removed from the junction between said input and said branch transmission lines and

a second transmission line element connected in shunt across said first branch transmission line at a point removed from said junction by the interval between said junction and the connection of said first element to said second branch transmission line, said first transmission line element being tuned to present substantially short circuit impedance at the point of connection to said second branch transmission line at a given frequency at which energy is to be transmitted along said first branch transmission line, said second transmission line element being tuned to present substantially short circuit impedance at the point of connection to said first branch transmission line at a predetermined frequency at which energy

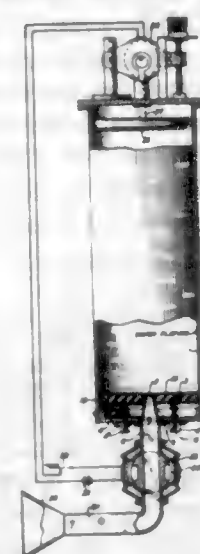


is to be transmitted along said second branch transmission line, said points being a half wavelength apart at the frequency midway between said given and said predetermined frequencies, and first and second transmission line sections connected in shunt across said branch transmission lines at the points of connection of said first and second transmission line elements respectively, said first transmission line section being adjusted in conjunction with said first transmission line element to parallel resonance at said predetermined frequency, said second transmission line section being adjusted in conjunction with said second transmission line element to parallel resonance at said given frequency.

2,713,153

## ORIFICE COUPLING TO RESONANT CAVITIES

Walter F. Kannenberg, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application September 9, 1947, Serial No. 772,987  
1 Claim. (Cl. 333-83)



In combination, a high Q cavity resonator having a cylindrical side wall and a pair of conductive end walls spaced apart and parallel to each other, one end wall being composite and comprising a pair of metallic discs having a lossy dielectric plate coextensive therewith and sandwiched therebetween, said discs having aligned rec-

tangular slots respectively decreasing in cross-sectional area toward the cavity, the innermost slot being a lineal slit of reduced dimensions, and a rectangular wave-guide feed having a tapered section transforming the impedance of the rectangular wave guide to that of the lineal slit, the tapering end thereof being recessed in said dielectric plate adjacent said lineal slit, said slit being located at one-half the radius of its disc, and a closure plate fastened to said side wall.

2,713,154

## ELECTRICAL CONNECTOR

Roy K. Bilsborough, Warwick, R. I., assignor to Patton-MacGuer Co., a corporation of Rhode Island  
Application June 18, 1954, Serial No. 437,620  
4 Claims. (Cl. 339-47)

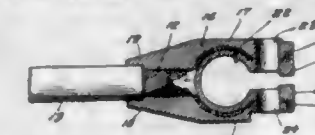


1. In a connector for coupling electric conductors having means for engagement with a wire or the like, a die formed blade portion of conductive material, an offset extending transversely of said blade element at a location substantially midway longitudinally thereof and having half of the extent thereof slotted, a finger cut from said blade portion and offset therefrom to extend parallel thereto but spaced therefrom whereby said connector may be connected with a similar unit, the slotted portion of each unit interlocking with the offset portion of the other and the finger of each unit receiving the end portion of the blade element of the other unit when the units are laterally moved together.

2,713,155

## BATTERY CLAMP

Thure B. Anderson, Cranston, R. I., assignor to The Crescent Company Inc., a corporation of Rhode Island  
Application September 21, 1953, Serial No. 381,308  
4 Claims. (Cl. 339-227)



3. A battery terminal clamp, comprising a body of soft cast metal having an arcuate inner surface providing a battery terminal seat, a thimble at one end for receiving a cable wire, and spaced jaws at the other end, said jaws having aligned bolt receiving bores, said body having a hard metal reinforcement member imbedded therein, said member having an arcuate base concentric with the arcuate body inner surface and two forwardly extending ears extending into the body jaws, said ears having openings therethrough aligned with the bolt receiving bores, said member having a tongue extending into the thimble for insertion into the cable wire end, and said ears having laterally extending prongs at their outer ends, said tongue and said prongs serving to aid in the positioning of the member within the cast metal body.

2,713,156

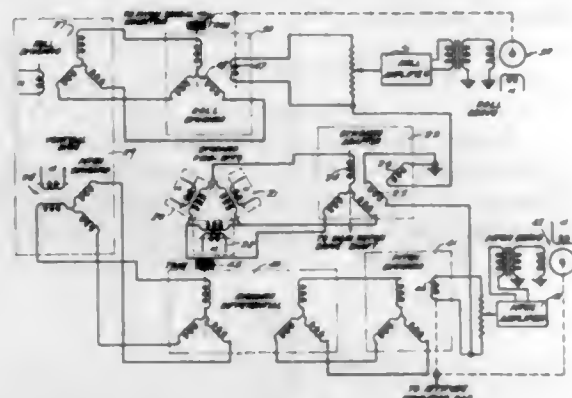
## ROTOR TIP PATH PLANE INDICATOR FOR HELICOPTER

Louis S. Guarino, Yeadon, Pa.  
Application December 23, 1953, Serial No. 400,151  
8 Claims. (Cl. 340-27)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. A tip-path plane indicating system for presenting a visual indication of the orientation in space of a plane

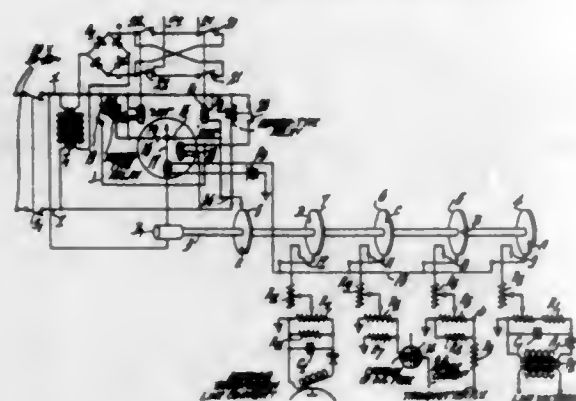


passing through the tips of the rotating main rotor blades of a helicopter in flight, the system comprising pick-off synchro mechanically linked one to each blade of the rotor so as to detect angular movement of each blade in a plane intersecting the plane of rotation of the blade and to generate an electrical signal representing such movement, a slip-ring assembly for providing a con-



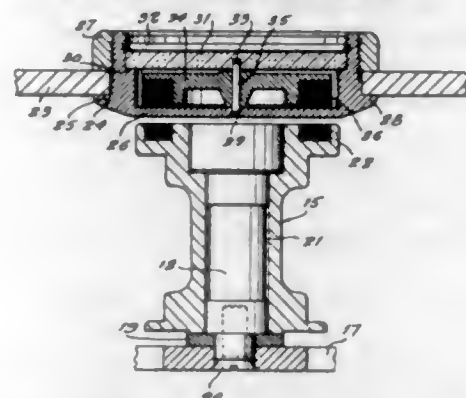
tinuous path from the rotating blades to the fuselage of the helicopter, an adapter for eliminating any portion of said electrical signal due to rotation of the blades, a gyroscope for providing further electrical signals which are added to said electrical signals to convert them to a horizon reference and servo mechanism controlled by the converted signals for positioning a tip-path plane indicator bar.

**2,713,157**  
**FAULT DETECTING AND INDICATING SYSTEM**  
John A. Collins, Valois, Quebec, Canada, assignor to Radio Corporation of America, a corporation of Delaware  
Application April 29, 1952, Serial No. 284,999  
4 Claims. (Cl. 340-213)



1. In a condition indicating system, a plurality of circuits to be checked, a comparator circuit including a source of reference voltage; means for successively sampling each of said circuits and for supplying to said comparator circuit a voltage from each sampled circuit for comparison with said reference voltage, said comparator circuit including also means responsive to a predetermined difference between any of said sampled circuit voltages and said reference voltage for transmitting to a remote monitoring point a voltage the polarity of which is related to the sense of said predetermined difference; means at said remote monitoring point operating in synchronism with said sampling means for successively completing a circuit to respective pairs of indicating devices one pair for each of said circuits, and means at said remote monitoring point responsive to the appearance of a voltage received thereat from said comparator circuit for causing energization of one or the other device of the pair of devices the circuit to which is then completed, the particular-indicating device energized depending upon the polarity of the received voltage appearing at said remote monitoring point.

**2,713,158**  
**FILM MOVEMENT INDICATOR**  
Thomas D. Allen, Jr., Hartsdale, N. Y., assignor to Jacques Bolsey, New York, N. Y.  
Application June 27, 1951, Serial No. 233,891  
1 Claim. (Cl. 340-271)

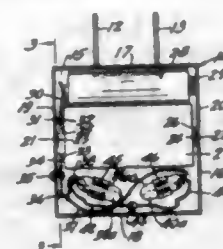


In a motion picture camera, in combination, first and second wall portions located opposite to and apart from each other so as to provide a space therebetween; a stud fixedly mounted adjacent one end thereof to said first wall portion, said stud being located in said space and extending from said first wall portion towards said second wall portion; a roller of non-magnetic material mounted on said stud for free rotation thereabout and being located in the path of film movement in said space so that said roller may be moved by moving film which contacts the same; an opaque housing of non-magnetic material fixedly mounted on said second wall portion over said roller, said housing having an open end located on the outer side of said second wall portion and having a base portion located directly over said roller, said base portion being formed with a first opening extending into the same; an indicator disc of non-magnetic material located in said housing on the opposite side of said base portion thereof from said roller; an elongated pin member fixedly mounted in said disc and extending through the same so that opposite end portions of said pin member extend from opposite sides of said disc, one of said end portions of said pin member being located in said first opening for free rotation therein; a transparent plate member fixedly mounted in said open end of said housing over said disc and being formed with a second opening extending into the same, the other end portion of said pin member being located in said second opening for free rotation therein; a first Alnico permanent magnet ring embedded in said roller member and having an outer face portion located adjacent to said base portion of said housing; and a second Alnico permanent magnet ring embedded in said disc and having an outer face portion located adjacent to said base portion of said housing, said first and second permanent magnet rings being of the same diameter and being coaxially mounted with respect to each other, whereby, when said roller is rotated by moving film said indicator disc is rotated with the same and is visible through said transparent plate to indicate to the operator that there is moving film in the camera.

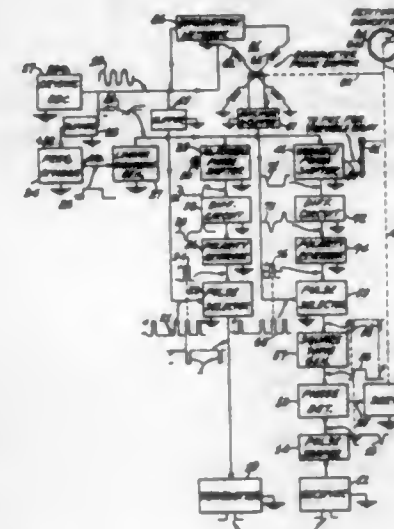
**2,713,159**  
**SLEEP INHIBITING DEVICE**  
Warren E. Morrison, Minneapolis, Minn., assignor of one-half to Lev Pinomaki, Minneapolis, Minn.  
Application May 8, 1953, Serial No. 353,856  
3 Claims. (Cl. 340-279)

1. A sleep inhibiting device comprising a mounting structure for attachment to the head of a wearer, an electrically operated buzzer mechanism secured to the mounting structure and adapted to be placed in physical communication with the head of the wearer in the area of his ear, a small dry cell battery secured to the head mounting structure, an electrical circuit from the dry cell battery to the buzzer, and a pair of independently adjustable mercury switches secured to said mounting

structure in oppositely disposed forward and rearward angular relation one with the other and either of which is capable of closing said circuit whereby nodding of

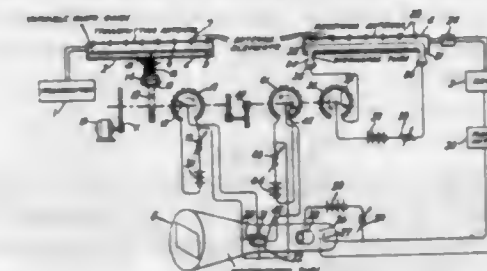


**2,713,160**  
**PULSE-ECHO DISTANCE MEASURING SYSTEMS**  
Robert Trachtenberg, Camden, and David H. Westwood, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware  
Application August 3, 1950, Serial No. 177,486  
7 Claims. (Cl. 343-7.3)



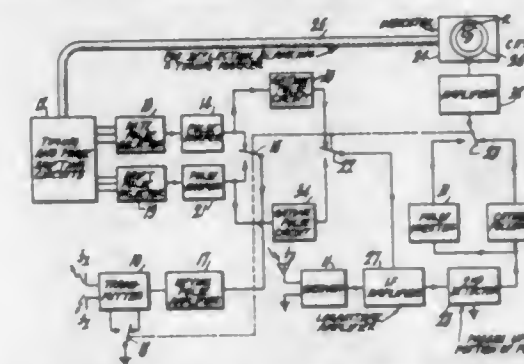
1. A pulse-echo distance measuring system comprising means for transmitting periodically recurring pulses of energy toward an object, means for receiving said pulses after reflection from said object, means for producing control pulses having an adjustable time relation with respect to said transmitted pulses, said last means comprising means for producing a first periodic signal having a frequency that is a multiple of the repetition rate of said transmitted pulses, a phase shifter for shifting the phase of said first periodic signal, means for producing a second periodic signal which has a repetition rate that is a submultiple of said periodic signal, a second phase shifter for shifting the phase of said second periodic signal, said phase shifters being geared together to maintain coincidence of a cycle of said second periodic signal and a selected cycle of said first periodic signal, a pulse coincidence circuit to which the outputs of said phase shifters are applied whereby there is obtained a periodic control pulse having the repetition rate of said second periodic signal and the phase stability and accuracy of said first periodic signal, means for converting said control pulse into a rectangular wave of at least several times the duration of said control pulse, a phase detector, means for comparing in said phase detector the phase relation of said rectangular wave and the reflected pulse, and servo means driven by the output of said phase detector, said servo means being mechanically coupled to said phase shifters to drive them to a position to bring said rectangular wave to a predetermined phase relation with respect to a reflected pulse.

**2,713,161**  
**RADAR SCANNING SYSTEM**  
Milan D. Fiske, Burnt Hills, N. Y., assignor to General Electric Company, a corporation of New York  
Application July 27, 1949, Serial No. 107,037  
5 Claims. (Cl. 343-100)



1. A radar scanning system comprising a transmitting antenna, a receiving antenna supported adjacent said transmitting antenna and facing in the same general direction, said receiving antenna comprising a wave guide having an array of electromagnetic wave receiving elements spaced along the length of said guide and adapted to excite said guide in response to electromagnetic waves incident upon said array, said receiving antenna having a directional electromagnetic wave response pattern, means for producing a beam of ultra high frequency electromagnetic energy radiated from said transmitting antenna, means for oscillating said radiated beam in a direction perpendicular to the longitudinal axis of said wave guide, means for producing a region of electrically charged particles within said wave guide and substantially co-extending with said antenna elements along the length of said guide which controls the propagation characteristics of said guide, and means for controlling the density of said electrically charged region in accordance with a predetermined controlling influence whereby said receiving antenna response pattern is varied in a direction parallel to the longitudinal axis of said guide in order to produce determinable regions of intersection with said radiated beam.

**2,713,162**  
**PULSE RECEIVER WITH LOGARITHMIC AMPLIFIER AND BASE CLIPPING DETECTOR**  
John B. Gehman, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application December 14, 1950, Serial No. 200,761  
5 Claims. (Cl. 343-103)



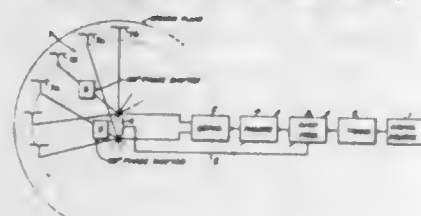
1. A receiver for receiving pulses having a regular repetition period and having a short duration compared with their repetition period, said receiver comprising an amplitude compressing amplifier and a base clipping device connected to receive pulses from said amplifier, the pulses applied to said clipping device varying in amplitude from a lower amplitude limit to an upper amplitude limit over the operating range of said clipping device, said clipping device comprising a rectifier, a capacitor, an output resistor and an input impedance unit all connected in series with each other, and a substantially constant current resistive device connected across said capacitor, said capacitor having such capacity that it is charged close to full charge upon the reception of a single pulse, said constant current resistive device having an average resistance



when the lower amplitude limit pulses are being applied to said clipping device such that the time constant of the circuit comprising said capacitor and said constant current device in series is less than the repetition period of said pulses, whereby constant amplitude pulses appear across said output resistor, and whereby the front edges of said output pulses have a timing that is substantially constant regardless of variations in the amplitude of the received pulses.

2,713,163

**MULTILOBE OMNIRANGE BEACON SYSTEMS**  
Leon Himmel, Cedar Grove, N. J., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland  
Application December 14, 1951, Serial No. 261,688  
13 Claims. (Cl. 343—106)



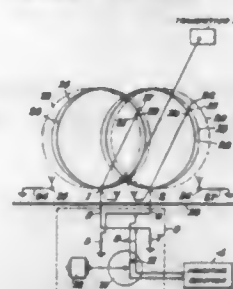
2. A radio beacon system for rotating a multilobe radiation pattern comprising a source of R. F. energy, a first series of at least four antennas arranged in a circle, a second series of at least four antennas interspersed with the antennas of said first series, means to couple the R. F. energy to said first series of antennas in phase sequence, means to couple the R. F. energy to the said second series of antennas in phase sequence in quadrature relation to

the R. F. energy coupled to said first series of antennas, and means reversing the phase of the R. F. energy coupled to alternate antennas of each of said series.

2,713,164

**DIRECTION FINDING SYSTEM**

Richard F. Baum, New York, N. Y., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland  
Application May 21, 1945, Serial No. 594,860  
11 Claims. (Cl. 343—113)



1. In a directional radiant acting system, similar first and second directive radiant acting means spaced from one another a predetermined distance, and so mounted that the mutual reaction effects of said radiant acting means tend to distort their respective radiation patterns from symmetry, and parastic reradiating means mounted on opposite sides of said first and second radiant acting means each mounted in principle coupling relation with its associated radiant acting means in such relationship that reradiation from said auxiliary radiators will substantially compensate the distortion.

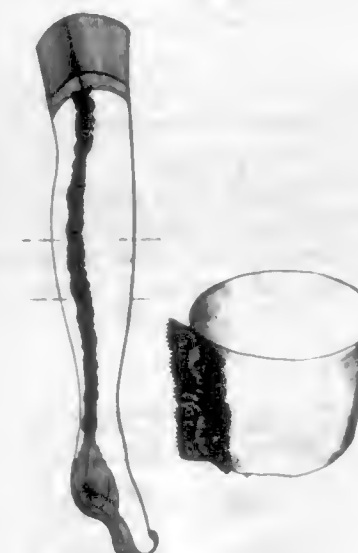
**DESIGNS**

JULY 12, 1955

175,098

**LADY'S STOCKING**

Leonard J. Accardi, Jamaica, N. Y.  
Application November 16, 1954, Serial No. 33,113  
Term of patent 7 years  
(Cl. D47—7)



175,101

**SPOON OR SIMILAR ARTICLE OF FLATWARE**  
Harry S. Berk, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York  
Application October 27, 1954, Serial No. 32,847  
Term of patent 14 years  
(Cl. D54—12)



175,099

**FISH LURE**

Gustave F. Bahr, Fairfield, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut  
Application October 14, 1953, Serial No. 27,171  
Term of patent 14 years  
(Cl. D31—4)



175,100

**SPOON OR SIMILAR ARTICLE OF FLATWARE**  
Harry S. Berk, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York  
Application October 27, 1954, Serial No. 32,846  
Term of patent 14 years  
(Cl. D54—12)



175,102

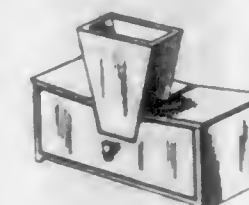
**COMBINED DETERGENT DISPENSER AND BRUSH**  
Ralph E. Bletcher and Irving A. Ward, Los Angeles, Calif., assignors of five per cent to Ralph E. Bletcher, twelve and one-half per cent to Ernest H. Bucknell, twelve and one-half per cent to Mabel Bucknell, ten per cent to Pearl White Bletcher, twenty-five per cent to Marcia Bucknell Liston, ten per cent to James H. Bletcher, ten per cent to Hazel Bletcher Skinner, eight per cent to Charlotte R. B. Robertson (also known as Mrs. F. K. Robertson), two per cent to Frederick Kenneth Robertson, as trustee, and five per cent to James Hamilton Bletcher, as trustee  
Application March 8, 1954, Serial No. 29,419  
Term of patent 14 years  
(Cl. D9—2)



175,103

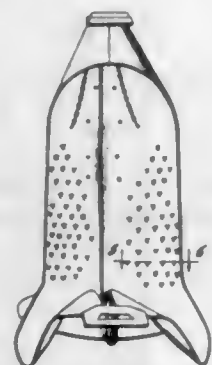
**COMBINED VASE AND CABINET**

David S. Boyer, Albany, N. Y.  
Application November 18, 1953, Serial No. 27,660  
Term of patent 7 years  
(Cl. D33—3)





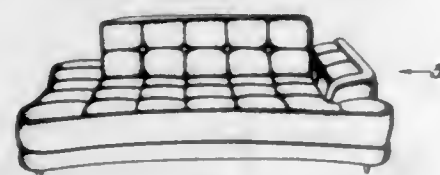
175,104  
COMBINATION BAG HOLDING AND EMPTYING  
DEVICE  
Vernon J. David, Durham, Kans.  
Application June 21, 1954, Serial No. 31,097  
Term of patent 14 years  
(Cl. D55—1)



175,105  
COMBINED VISE AND TELESCOPING STAND  
FOR PIPE WORK  
Marion L. Ewing and Orison P. Kambestad, Sacramento,  
Calif., assignors to Kambestad-Ewing, Inc., Sacramento  
County, Calif.  
Application November 9, 1953, Serial No. 27,497  
Term of patent 3½ years  
(Cl. D54—14)



175,106  
CONVERTIBLE SOFA BED  
Frank Faller, Los Angeles, Calif., assignor to Restwell  
Mfg. Co., Los Angeles, Calif., a partnership  
Application December 20, 1954, Serial No. 33,605  
Term of patent 14 years  
(Cl. D15—11)



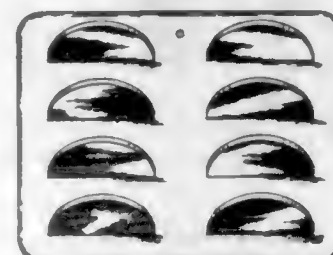
175,107  
HOSIERY DISPLAY STAND  
Melvin J. Gordon, Wellesley, Mass.  
Application September 22, 1953, Serial No. 26,905  
Term of patent 14 years  
(Cl. D80—9)



175,108  
AIRPLANE  
Edward H. Heinemann and Leo J. Devlin, Los Angeles,  
Calif., assignors to Douglas Aircraft Company, Inc.,  
Santa Monica, Calif.  
Application June 14, 1948, Serial No. 146,954  
Term of patent 7 years  
(Cl. D71—1)



175,109  
COMB HOLDER  
Fred W. Henry, Jamestown, N. Y.  
Application February 16, 1954, Serial No. 29,049  
Term of patent 7 years  
(Cl. D86—10)



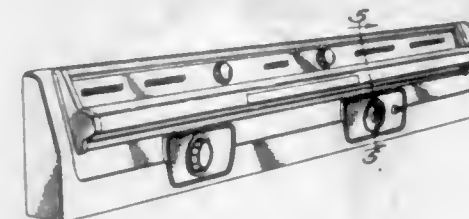
175,110  
TABLE  
Elmer Howard, Escanaba, Mich.  
Application February 23, 1954, Serial No. 29,178  
Term of patent 14 years  
(Cl. D33—14)



175,111  
COOKING RANGE INSTRUMENT BACK PANEL  
Richard Bolton Janes and Charles W. Sanders, Green-  
ville, Mich., assignors to Gibson Refrigerator Com-  
pany, Greenville, Mich., a corporation of Michigan  
Application November 5, 1954, Serial No. 32,979  
Term of patent 14 years  
(Cl. D81—25)



175,112  
COOKING RANGE INSTRUMENT BACK PANEL  
Richard Bolton Janes and Charles W. Sanders, Green-  
ville, Mich., assignors to Gibson Refrigerator Com-  
pany, Greenville, Mich., a corporation of Michigan  
Application November 5, 1954, Serial No. 32,980  
Term of patent 14 years  
(Cl. D81—25)



175,113  
NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application January 13, 1955, Serial No. 33,975  
Term of patent 7 years  
(Cl. D45—16)



175,114  
NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application January 26, 1955, Serial No. 34,215  
Term of patent 7 years  
(Cl. D45—16)



175,115  
LINK CHAIN FOR A NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application January 26, 1955, Serial No. 34,216  
Term of patent 7 years  
(Cl. D45—16)



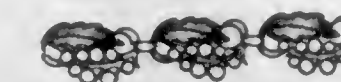
175,116  
LINK CHAIN FOR A NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,474  
Term of patent 7 years  
(Cl. D45—16)



175,117  
LINK CHAIN FOR A NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,475  
Term of patent 7 years  
(Cl. D45—16)



175,118  
LINK CHAIN FOR A NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,695  
Term of patent 7 years  
(Cl. D45—16)



175,119  
BRACELET OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,699  
Term of patent 7 years  
(Cl. D45—4)



175,120  
NECKLACE OR THE LIKE  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,700  
Term of patent 7 years  
(Cl. D45—16)





175,121

**LINK CHAIN FOR A NECKLACE OR THE LIKE**  
Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,714  
Term of patent 7 years  
(Cl. D45-16)

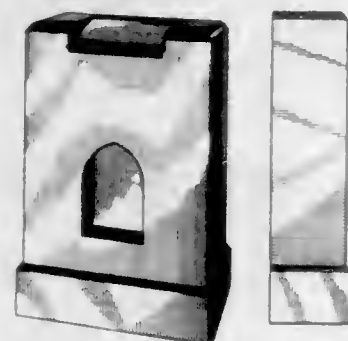


175,122

**DISPLAY CONTAINER OR SIMILAR ARTICLE**  
Herbert W. Marano, Summit, N. J., assignor to Wilson  
Jones Company, Chicago, Ill., a corporation of Massa-  
chusetts  
Application March 10, 1955, Serial No. 34,981  
Term of patent 14 years  
(Cl. D80-5)

175,123  
ALTAR

Donald R. Maxwell, Edwardsburg, Mich.  
Application December 14, 1954, Serial No. 33,547  
Term of patent 3½ years  
(Cl. D29-23)

175,124  
LAMP

Joseph S. McInnis, Chicago, Ill.  
Application September 14, 1954, Serial No. 32,283  
Term of patent 14 years  
(Cl. D48-20)



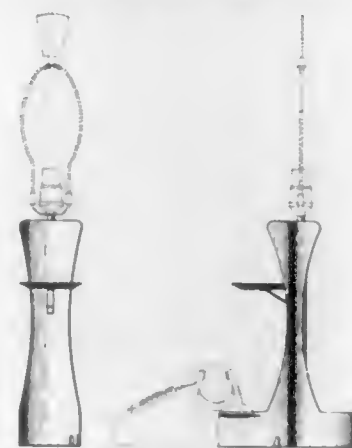
175,125

**CORNER SHELF OR SIMILAR ARTICLE**  
William V. McNamara, Boston, Mass.  
Application March 8, 1955, Serial No. 34,952  
Term of patent 7 years  
(Cl. D33-1)



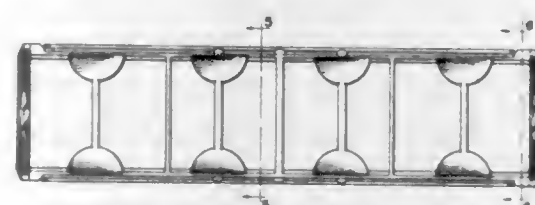
175,126

**COMBINED TELEPHONE LAMP BASE AND  
HOLDING TRAYS**  
Walter A. Moede, Naperville, Ill.  
Application June 30, 1954, Serial No. 31,240  
Term of patent 7 years  
(Cl. D48-20)



175,127

**TRAY FOR A WRAPPED FRUIT CONTAINER**  
Joseph E. Murphy, Hicksville, and Murray Schnall,  
Brooklyn, N. Y., assignors to See-Qual Package Corp.,  
New York, N. Y., a corporation of New York  
Application March 11, 1954, Serial No. 29,468  
Term of patent 14 years  
(Cl. D58-26)



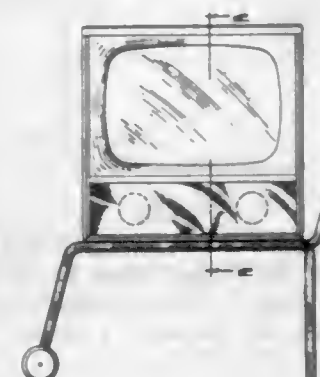
175,128

**TOWEL HOLDER**  
Paul M. O'Connor and Genevieve A. O'Connor,  
Chicago, Ill.  
Application October 29, 1954, Serial No. 32,872  
Term of patent 14 years  
(Cl. D4-3)



175,129

**TELEVISION CABINET OR SIMILAR ARTICLE**  
Joseph D. Portanova, Arcadia, and John Stevens, Downey,  
Calif., assignors to Hoffman Radio Corporation, a cor-  
poration of California  
Application April 15, 1954, Serial No. 30,035  
Term of patent 14 years  
(Cl. D56-4)



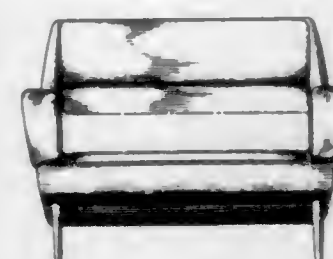
175,130

**COVER FOR CAMERA CASES OR SIMILAR  
ARTICLE**  
Samuel C. Roth, Allentown, Pa.  
Application August 27, 1953, Serial No. 26,603  
Term of patent 3½ years  
(Cl. D61-1)



175,131

**SOFA OR SIMILAR ARTICLE**  
Sheldon M. Rutter, Evanston, Ill., assignor to Kroehler  
Mfg. Co., Naperville, Ill., a corporation of Illinois  
Application January 3, 1955, Serial No. 33,790  
Term of patent 14 years  
(Cl. D15-11)



175,132

**DINNER PLATE**  
Evan K. Shaw, Manhattan Beach, Robert Y. Allen, Pa-  
cific Palisades, and Melvin Shaw, Beverly Hills, Calif.,  
and Gisella Loeffler, Taos, N. Mex., assignors to Metlox  
Mfg. Co., Manhattan Beach, Calif., a corporation of  
California  
Application May 25, 1953, Serial No. 25,174  
Term of patent 3½ years  
(Cl. D44-15)



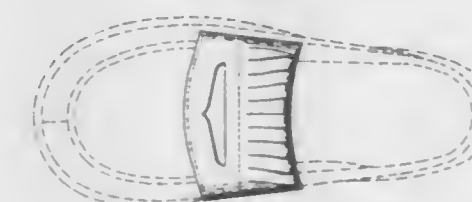
175,133

**COMBINED BIRD SEED HOPPER AND DISPENSER**  
George Siggins, East Orange, N. J.  
Application April 5, 1954, Serial No. 29,873  
Term of patent 14 years  
(Cl. D31-2)



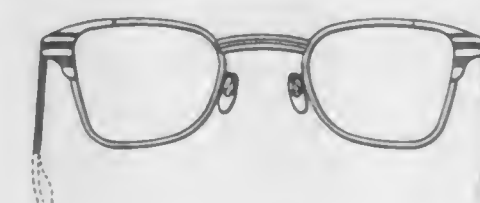
175,134

**MOCCASIN**  
Myer S. Silver, Brookline, Mass.  
Application November 26, 1954, Serial No. 33,253  
Term of patent 14 years  
(Cl. D7-7)



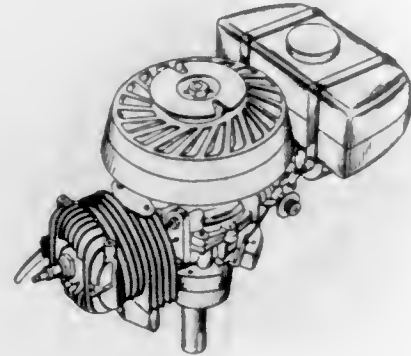
175,135

**SPECTACLE FRAME**  
Raymond F. E. Stegeman, Greece, N. Y., assignor to  
Bausch & Lomb Optical Company, Rochester, N. Y.,  
a corporation of New York  
Application September 15, 1954, Serial No. 32,301  
Term of patent 14 years  
(Cl. D57-1)

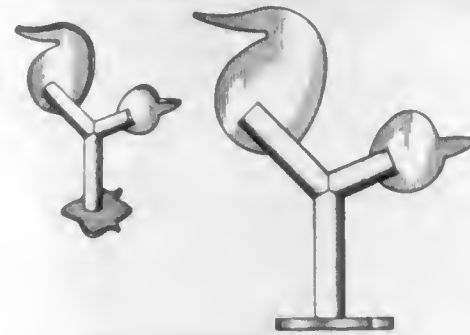




**175,136**  
**INTERNAL COMBUSTION ENGINE**  
 Brooks Stevens, Fox Point, Wis., assignor to Power Products Corporation, Grafton, Wis., a corporation of Wisconsin  
 Application March 30, 1953, Serial No. 24,256  
 Term of patent 14 years  
 (Cl. D77-1)



**175,137**  
**FIGURINE**  
 Irene Wolfberg, Chicago, Ill.  
 Application January 14, 1955, Serial No. 33,998  
 Term of patent 14 years  
 (Cl. D29-23)



**175,138**  
**TOMATO BASKET OR SIMILAR ARTICLE**  
 William W. Wright, Oak Park, Ill.  
 Application June 9, 1954, Serial No. 30,873  
 Term of patent 14 years  
 (Cl. D58-26)



## LIST OF REISSUE PATENTEEES

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PATENTS WERE ISSUED ON THE 12TH DAY OF JULY, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

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 Leach, Clayton B. Re. 24,035.  
 Johnson & Johnson: See—  
 Willis, George W. Re. 24,037.  
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 Henry, Fred W. 175,109, Cl. D86-10.  
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 Janes, Richard B., and C. W. Sanders, to Gibson Refrigerator Co. 175,112, Cl. D81-25.  
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 Ewing, Marion L., and Kambestad. 175,105.  
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 Katz, Adolph, to Coro, Inc. 175,116, Cl. D45-16.  
 Katz, Adolph, to Coro, Inc. 175,117, Cl. D45-16.  
 Katz, Adolph, to Coro, Inc. 175,118, Cl. D45-16.  
 Katz, Adolph, to Coro, Inc. 175,119, Cl. D45-16.  
 Katz, Adolph, to Coro, Inc. 175,120, Cl. D45-16.  
 Katz, Adolph, to Coro, Inc. 175,121, Cl. D45-16.  
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 McNamara, William V. 175,125, Cl. D33-1.  
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 Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,135, Cl. D57-1.  
 Stevens, Brooks, to Power Products Corp. 175,136, Cl. D77-1.  
 Stevens, John: See—  
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 Ward, Irving A.: See—  
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 Wilson Jones Co.: See—  
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 Wolfberg, Irene. 175,137, Cl. D29-23.  
 Wright, William W. 175,138, Cl. D58-26.



# LIST OF PATENTEEES

TO WHOM

PATENTS WERE ISSUED ON THE 12TH DAY OF JULY, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

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 Adelson, David E., to Shell Development Co. 2,713,066, Cl. 260—482.  
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 Aerojet-General Corp.: See—  
 Nickerson, Herman. 2,712,989.  
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 Weyde, Edith. 2,712,995.  
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 Lundgren, Karl E. 2,712,952.  
 Aktiebolaget Svenska Kullagerfabriken: See—  
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 Brünliche-Olsen, Henning A. 2,713,009.  
 Albee, Arthur C.: See—  
 Pettus, James L., and Albee. 2,712,941.  
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 Allen, Thomas D., Jr., to J. Bolsey. 2,713,158, Cl. 340—271.  
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 American Can Co.: See—  
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 Cadwell, Leonard E., and Petropoulos. 2,713,039.  
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TRADEMARKS  
NOTICES

## Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

T. M. 354,199 (The Lone Ranger Magazine), The Lone Ranger, Inc., Periodical publication; T. M. 365,670, T. M. 507,040 (The Lone Ranger), same, Cartoon or comic strip series; T. M. 527,916, same, Entertainment presented by means of an integrated series of dramatic radio programs, etc., filed Jan. 23, 1951, D. C., S. D. N. Y., Doc. 63/345, *The Lone Ranger, Inc. v. Robert W. Farrell et al.* Stipulation and order of discontinuance May 2, 1955.

T. M. 355,898 (Phenaphen), A. H. Robins Co., Inc., Medicinal preparation used as an analgesic and anti-spasmodic, filed Mar. 23, 1955, D. C., S. D. N. Y., Doc. 99/255, *A. H. Robins Co., Inc. v. Joseph Freilich*, Notice of voluntary discontinuance May 3, 1955.

T. M. 365,670. (See T. M. 354,199.)

T. M. 434,317 (Davy Crockett Frontiersman), The Schwartz Mfg. Co., Outer wearing apparel for men, women and children, suit for declaratory judgment filed May 6, 1955, D. C. Md. (Baltimore), Doc. 8231, *Walt Disney Productions v. The Schwartz Mfg. Co. et al.* Same, Doc. 8232, *Rudin and Roth v. Davy Crockett Enterprises, Inc. et al.* Same, filed May 18, 1955, D. C. Md. (Baltimore), Doc. 8249, *Davy Crockett Enterprises, Inc. v. W. T. Grant Co.* Same, Doc. 8250, *Davy Crockett Enterprises, Inc. v. Sears, Roebuck and Co.*

T. M. 507,040. (See T. M. 354,199.)

T. M. 527,916. (See T. M. 354,199.)

T. M. 583,337 (Singer), The Singer Mfg. Co., Renting of sewing machines to the public; management engineering; service maintenance; thermoplastic material; dust bags for vacuum cleaners, etc., filed Sept. 30, 1954, D. C., N. D. Calif. (San Francisco), Doc. 34097, *Singer Mfg. Co. et al. v. Broadway Furniture Co.* Consent decree; injunction against defendant May 3, 1955.

T. M. 585,594, T. M. 585,596 (CRA), Cloth Laying Appliances Corp., Laying and spreading machines, clamps, pin bars, weights, etc.; T. M. 585,595 (C. R. A.), same, Laying and spreading machines, clamps, pin bars, etc., filed May 4, 1955, D. C., S. D. N. Y., Doc. 100/236, *Cutting Room Appliances Corp. v. Zuckerman Perlow Co.*

T. M. 585,595. (See T. M. 585,594.)

T. M. 585,596. (See T. M. 585,594.)

T. M. 602,037 (Morocco), Nidia Botanical Garden, Incense powder, filed May 6, 1955, D. C., S. D. N. Y., Doc. 100/274, *Nidia Botanical Garden v. Darya Products Co. et al.*

## Decisions of the Commissioner of Patents

The 1954 Edition of the Decisions of the Commissioner of Patents has been published. Copies may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C.

Price: Buckram bound \$2.00.

## CONDITION OF TRADEMARK APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding renewals and republications)	28, 112
Total number of applications awaiting action (excluding renewals and republications)	11, 808
Date of oldest new application	Nov. 3, 1954
Date of oldest amended application	Nov. 15, 1954

TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
I. STERBA, J. R., Classes 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 52	11-16-54	12-2-54
Renewals (All Classes)	4-13-55	5-5-55
Republications (All Classes)	3-31-55	4-25-55
II. KEYS, O. M., Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	11-3-54	11-15-54
III. RACKNOR, M., Classes 1, 3, 4, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50	12-1-54	12-1-54

Applications Filed During Week Ended June 17, 1955—459

Registrations Issued	408—No. 608,512 to No. 608,919
Renewals Issued	60



## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5. As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 658,190. Kleinwanzlebener Saatucht vorm. Rabbethge & Giesecke Aktiengesellschaft, Einbeck, Hannover, Germany. Filed Dec. 18, 1953.

**KLEINWANZLEBEN**

The mark "Kleinwanzleben" is a German word comprising "Klein" meaning "little," "wanz" meaning "bug" and "leben" meaning "life," which has no meaning or significance in English. In German, the term "Kleinwanzleben" refers to an area located near Magdeburg, Germany, which is in the Russian Zone.

For Agricultural Seed—Namely, Sugar-Beet Seed. Use since about December 1950.

SN 658,191. Kleinwanzlebener Saatucht vorm. Rabbethge & Giesecke Aktiengesellschaft, Einbeck, Hannover, Germany. Filed Dec. 18, 1953.



Applicant disclaims the representation of a sugar beet apart from the mark as shown. The term "Kleinwanzleben" appearing in the mark is a German word comprising "Klein" meaning "little," "wanz" meaning "bug" and "leben" meaning "life," which has no meaning or significance in English. In German, the term "Kleinwanzleben" refers to an area located near Magdeburg, Germany, which is in the Russian Zone.

For Agricultural Seed—Namely, Sugar-Beet Seed. Use since about December 1950.

SN 661,025. Luminous Resins Incorporated, Chicago, Ill. Filed Feb. 12, 1954.



For Luminescent Synthetic Plastic Molding Powders and Molded Luminescent Synthetic Plastic Parts Including Strips, Sheets, Laminated Sheets, Knobs, Rods, and Blocks. Use since July 1953.

TM 70

SN 667,924. Leon R. Begalka, Clear Lake, S. Dak. Filed June 9, 1954.



The drawing is lined for green but color is not claimed as part of the mark.

For Trees and Shrubs, Evergreens, Fruit Trees, Rose Bushes, Perennials.

Use since Apr. 1, 1954.

SN 674,773. Lawrence G. Swanzel, d. b. a. Decoarts Mfg. Co., Toledo, Ohio. Filed Oct. 13, 1954.

**NEPOFLEX**

For Plastic Compounds for Use in the Casting of Molds Particularly of the Moulage Type.

Use since on or about Apr. 4, 1954.

SN 676,924. O. L. Weeks, d. b. a. Weeks Wholesale Rose Grower, Ontario, Calif. Filed Nov. 18, 1954.



For Dormant, Bare Root Rose Plants, and Dormant Root Wrapped Rose Plants.

Use since Apr. 18, 1952.

JULY 12, 1955

U. S. PATENT OFFICE

TM 71

SN 677,028. Automotive Rubber Company, Incorporated, Detroit, Mich. Filed Nov. 22, 1954. SN 673,036. M-K Enterprises, Inc., Chicago, Ill. Filed Sept. 10, 1954.

**ARCO  
CEL**

For Closed-Cell Sponge Rubber. Use since on or about Dec. 1, 1953.

SN 677,131. Bar's Products Supply Inc., Dearborn, Mich. Filed Nov. 23, 1954.

**RHIZEX**

For Rhizome Flour Adapted for Use in Preparing Stop-Leak Preparations Employed in the Cooling Systems of Internal Combustion Engines.

Use since Sept. 15, 1954.

### CLASS 2

SN 656,415. Highland Box Company, Highland, Ill. Filed Nov. 16, 1953.



For Cartons and Boxes Made of Paperboard and Blanks Therefor.

Use since Sept. 22, 1953.

SN 658,949. Erma R. Worthen, d. b. a. Janan Co., Los Angeles, Calif. Filed Jan. 4, 1954.

**Chuk-It**

For Plastic Bags. Use since Aug. 3, 1953.

SN 667,411. Marathon Corporation, Menasha, Wis. Filed June 1, 1954.

**CONTOUR**

For Collapsible Cardboard Cartons Suitable for Packaging Sliced Bacon and Other Foods for Display Purposes. Use since Dec. 9, 1950.

**EMKAY**

For Plastic Kitchenware and Household Articles—Namely, Sugar Bowls, Cream Pitchers, Canisters, Flower Containers, Bread Boxes, Vegetable Dishes, Drawer Dividers for Silverware, Ice Buckets, Garbage Receptacles, Dust Pans, Waste-baskets, Silverware Chests, Children's Tableware, Serving Trays, Platters, Dinner Plates, Cups, Saucers, Salad and Cereal Bowls, Picnic Plates, Mugs, Tier Trays, Lazy Susans, Trivets, Planters, Refrigerator Trays, Butter Dishes, Coasters, Paper Dispensers, and Cake Covers.

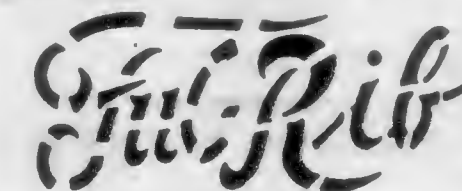
Use since July 5, 1954.

SN 673,056. Robnett Sheet Metal Works, Inc., Greenwood, Miss. Filed Sept. 10, 1954.

**SEPTANK**

For Septic Tank. Use since Apr. 10, 1954.

SN 673,980. Fulton Bag & Cotton Mills, Atlanta, Ga. Filed Sept. 29, 1954.



For Cotton Pickers' Bags. Use since Aug. 23, 1954.

SN 674,031. Plastic Container Corporation, West Warren, Mass. Filed Aug. 30, 1954.



For Plastic Jars and Boxes. Use since Nov. 20, 1953.

SN 674,636. Sutherland Paper Company, Kalamazoo, Mich. Filed Oct. 11, 1954. Sec. 2(f).

**Handi-  
Handle**

Applicant claims ownership of Reg. No. 509,807. For Cups of Fibrous Material. Use since June 15, 1946.



SN 674,860. Chase Bag Company, Chicago, Ill. Filed Oct. 12, 1954. SN 680,261. Dairypak Incorporated, Cleveland, Ohio. Filed Jan. 21, 1955.

## JET-KNOT

For Net Bags for Produce.  
Use since Apr. 5, 1954.

SN 674,998. Office Equipment Mfg. Company, Inc., Dallas, Tex. Filed Oct. 18, 1954.

*Permafile*

For Storage Boxes of Corrugated Paper.  
Use since July 19, 1954.

SN 679,260. Abbott Laboratories, North Chicago, Ill. Filed Jan. 3, 1955.

## PHANTOCUBE

For Container and Absorber for Radioactive Capsules and Solutions for Use in Quantitating Against Uptake in the Thyroid Gland.  
Use since Sept. 7, 1954.

SN 679,464. Hammond Iron Works, Warren, Pa. Filed Jan. 5, 1955.

## HAMONDTANK

Applicant claims ownership of the mark shown in Reg. No. 442,042.  
For Oil Storage Tanks.  
Use since Mar. 1, 1916.

SN 679,775. Robert S. Henderson, d. b. a. Nation-Wide Sales Co., Carbondale, Ill. Filed Jan. 12, 1955.

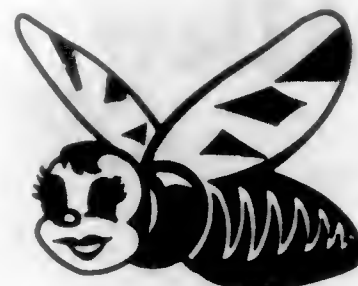
## CLO-BIN

For Clothes Hamper.  
Use since Dec. 9, 1954.

SN 680,260. Dairypak Incorporated, Cleveland, Ohio. Filed Jan. 21, 1955.

**Firefly**

For Paper Cartons.  
Use since Nov. 11, 1954.



For Paper Cartons.  
Use since Nov. 11, 1954.

SN 682,291. Pioneer Iron Works, Sioux City, Iowa. Filed Feb. 24, 1955.

## TORI-TANK

For Aluminum Storage Tanks.  
Use since Aug. 2, 1954.

SN 682,786. Constellation Cup Corporation, Long Island City, N. Y. Filed Mar. 4, 1955.



For Paper Cups and Covers Therefor.  
Use since Nov. 26, 1954.

SN 683,155. Union Bag & Paper Corporation, New York, N. Y. Filed Mar. 9, 1955.

## TWIN-TEN

For Paper Boxes.  
Use since Jan. 10, 1955.

SN 683,222. New York Shipbuilding Corporation, d. b. a. Nesco, Division of New York Shipbuilding Corporation, Milwaukee, Wis. Filed Mar. 10, 1955.

## SERVERYTE

For Serving Trays of All Types.  
Use since July 5, 1954.

## CLASS 3

SN 654,965. Charles Harband, d. b. a. Continental-Vogue Luggage Company, San Francisco, Calif. Filed Oct. 19, 1953. SN 661,513. Leonard S. Strauss, d. b. a. Endurance Products Company, New York, N. Y. Filed Feb. 23, 1954.

## PALOMINO PONY BAR

The descriptive word "Bar" is disclaimed apart from the mark as shown.

For Portable Handbags for the Purpose of Carrying Flasks and Accessory Material.  
Use since Dec. 1, 1951.

SN 654,966. Charles Harband, d. b. a. Continental-Vogue Luggage Company, San Francisco, Calif. Filed Oct. 19, 1953.

## PALOMINO STALLION BAR

The descriptive word "Bar" is disclaimed apart from the mark as shown.

For Portable Handbags for the Purpose of Carrying Flasks and Accessory Material.  
Use since Apr. 3, 1953.

SN 660,704. Buxton, Incorporated, Springfield, Mass. Filed Feb. 8, 1954.

## FRENCH-FOLD

For Billfolds, Pass Cases, Purses, and Combinations Thereof.  
Use since Aug. 13, 1953.

SN 661,498. N. Porter Saddle and Harness Company, Phoenix, Ariz., now by change of name N. Porter Mercantile Company. Filed Feb. 23, 1954.

*Toots Mansfield*

Consent to the name "Toots Mansfield" is of record.  
For Saddles, Saddle Trees, and Saddle Tree Horns.  
Use since May 1952.

SN 680,476. B. B. Leather Goods Company, New York, N. Y. Filed Jan. 25, 1955.



No claim is made to the word "Wallets" apart from the mark as shown.

For Men's Wallets.  
Use since on or about July 1, 1954.

## CLASS 4



The drawing is lined for silver, but no claim is made to color.

For Combined Wax Cleaner and Polish.  
Use since Oct. 1, 1953.

SN 676,990. Nu-Shu, Inc., Dallas, Tex. Filed Nov. 19, 1954.

*nu-Shu*

Applicant claims ownership of Reg. Nos. 405,427 and 604,695.

For Leather Polish.  
Use since Feb. 1, 1954.

## CLASS 6

SN 656,931. The Davison Chemical Corporation, Baltimore, Md., now by merger W. R. Grace & Co., New York, N. Y. Filed Nov. 25, 1953.

**D**

For Silica Gel; Silica Gel Flattening Agent; Silica Gel Used for Drying Refrigerants; Compound for Dehumidification of Interior of Packages; Compound for Dehumidification of the Air; Contacting Agent for Treatment of Gases, Liquids, or Solids, and Employed Particularly as a Desiccant or Dehumidifier and in Containers or Enclosures Including Packages or for Drying and Maintaining Dry, Cable Splices and Other Solid Objects; Catalysts; Mothproofing Compound; Ammonium Silicofluoride; Zinc Silicofluoride; Magnesium Silicofluoride; Hydrofluosillicic Acid; and Sodium Silico Fluoride.  
Use since on or about 1943.

SN 662,724. Ferro Corporation, Cleveland, Ohio. Filed Mar. 16, 1954.

## FERRO Pickle Pills

Applicant claims ownership of Reg. Nos. 333,234 and 549,848.

For Chemicals for Chemical Quantitative Analysis of Acids, Alkalies, and Elements in Solutions in Pickling Baths.  
Use since May 20, 1926.



SN 663,153. Allied Chemical & Dye Corporation, New York, N. Y. Filed Mar. 24, 1954. SN 676,058. Le Blanc Brothers, Inc., Lafayette, La. Filed Nov. 4, 1954.

# STA-KLOR

For Non-Selective Herbicides.  
Use since Dec. 15, 1953.

SN 663,980. Warner-Hudnut, Inc., New York, N. Y. Filed Apr. 5, 1954.

# KETODASE

For Diagnostic Reagent Not for Therapeutic or Internal Use.  
Use since Mar. 25, 1954.

SN 666,553. Textile Adjuncts Corporation, Brooklyn, N. Y. Filed May 17, 1954.



For Synthetic Resins.  
Use since Jan. 15, 1954.

SN 667,513. Finishline Laboratories, Inc., Syracuse, N. Y. Filed June 2, 1954. Sec. 2(f).

# FINISHINE

For Chemical Compositions for Repairing, Finishing and Refinishing Wood, Metal and Ceramic Objects—Namely, Aniline Dyes, Chemical Pigments, Oil Paste Colors, Waxes Other Than Polishing Waxes, and Wood Preservatives.

Use since February 1935 on a chemical pigment for ceramic materials.

SN 670,729. Crosby Chemicals Inc., De Ridder, La. Filed July 28, 1954.

# PARATHANE

For Terpene Solvent.  
Use since on or about May 1951.

SN 673,347. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Sept. 17, 1954.

# DARVYL

For Lysine Monohydrochloride in Granular or Flake Form.  
Use since July 21, 1954.

SN 675,729. Specialty Products Company, Jersey City, N. J. Filed Oct. 29, 1954.

# DAM-CHEX

For Glass-Mold Parting Agent, Consisting Essentially of Organic Polysulphide Polymers, Adapted To Form a Parting Film Between the Hot Glass and the Metal of the Mold.  
Use since 1947.

# QUIKIE

For Dry Chemical Fire Extinguisher.  
Use since Oct. 6, 1954.

SN 676,945. The Dow Chemical Company, Midland, Mich. Filed Nov. 19, 1954.

# MAGRON

For Vegetation Maturant Containing Magnesium Chlorate.  
Use since June 23, 1954.

SN 676,988. Arthur F. Moan, d. b. a. Soldering Flux Co., Cranston, R. I. Filed Nov. 19, 1954.

# SWEAT-TITE

For Soldering Paste, Soldering Salt, Soldering Fluid, and Solder.  
Use since Mar. 17, 1954.

SN 677,104. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Nov. 22, 1954.

# STA-PUF

For Rinse Used as a Textile Softener.  
Use since Nov. 17, 1954.

SN 679,766. General Aniline & Film Corporation, New York, N. Y. Filed Jan. 12, 1955.

# ANTHOSINE

For Dyestuffs.  
Use since Sept. 30, 1932.

SN 680,716. Bray Chemical Company, Los Angeles, Calif. Filed Jan. 31, 1955.

# SYNFOMIX

For Synthetic Sulfonates of Organic Compounds Including Petroleum Fractions, Such Synthetic Sulfonates in Petroleum Fractions as Carriers, Such Synthetic Sulfonates as Rust-Preventive and Anti-Corrosion Agents, Such Synthetic Sulfonates as Emulsifiers, and Such Synthetic Sulfonates Admixed With Additional Chemical Additives.  
Use since Jan. 17, 1951.

SN 680,801. The River Plate Corporation, New York, N. Y. Filed Jan. 31, 1955.

# DIRYTAN

For Solid Quebracho Extract for Use as a Tanning Material.  
Use since Dec. 3, 1954.

SN 680,824. James Robert Tully, d. b. a. Wood Preservative Products, Seattle, Wash. Filed Jan. 31, 1955.



For Chemical Wood Preservatives.  
Use since Jan. 7, 1954.

SN 680,826. United Chromium, Incorporated, New York, N. Y. Filed Jan. 31, 1955.

# SRHS

For Chemical Compounds and Compositions in Dry Form for Use in Chromium Plating Baths and Also in the Form of Aqueous Solutions.  
Use since Dec. 29, 1954.

SN 681,395. Arnold, Hoffman & Co. Incorporated, Providence, R. I. Filed Feb. 10, 1955.

# SYNTHRAMINE

For Textile Auxiliaries.  
Use since Dec. 2, 1954.

SN 681,852. The B. F. Goodrich Company, d. b. a. B. F. Goodrich Chemical Company a Division of The B. F. Goodrich Company, Cleveland, Ohio. Filed Feb. 17, 1955.

# SANITERGE

For Surface-Active Agents Including Carboxy Ethylated Aliphatic Amines.  
Use since December 1954.

SN 681,896. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Feb. 17, 1955.

# HALOX

For Laundry Bleach Compound.  
Use since Mar. 29, 1954.

## CLASS 7

SN 676,516. Motorola, Inc., Chicago, Ill. Filed Nov. 12, 1954.

# Motorola

Applicant claims ownership of Reg. Nos. 275,837, 520,977, and others.  
For Flexible Drive Cable, and Dial Drive Cord.  
Use since in or about September 1931.

## CLASS 8

SN 676,871. Colibri Lighters Limited, London, England. Filed Nov. 18, 1954.



Applicant claims ownership of British Reg. Nos. 543,424, dated July 29, 1933, and 629,960, dated June 17, 1944; and U. S. Reg. No. 441,305.  
For Pyrophoric Lighters and Parts of Such Lighters, Lighter Flints and Wicks.

## CLASS 9

SN 675,629. The Garrett Corporation, Los Angeles, Calif. Filed Oct. 28, 1954.



For Ammunition Feed Boosters for Machine Guns.  
Use since December 1948.

## CLASS 10

SN 666,547. The Stadler Fertilizer Company, Cleveland, Ohio. Filed May 17, 1954.

# TRIPLE XXX ROSE MAKER

Applicant claims ownership of Reg. No. 61,315.  
For Rose Bush Feed.  
Use since Feb. 17, 1954.

SN 672,078. Roy E. Hoover, d. b. a. Hoover Soil Service, Gilman, Ill. Filed Aug. 23, 1954.

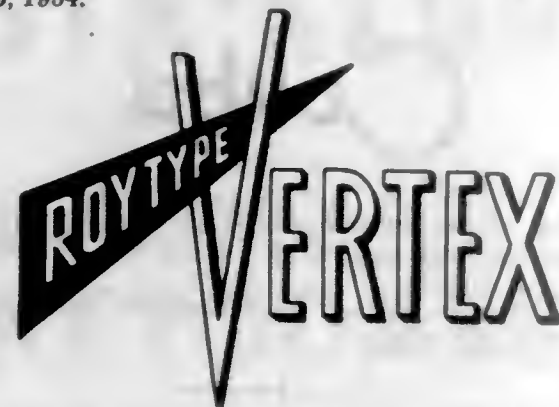


Applicant disclaims the words "Bio-Catalytic Soil Conditioner" apart from the mark as shown.  
For Liquid Soil Conditioners.  
Use since May 1, 1954.



## CLASS 11

SN 665,645. Royal Typewriter Company, Inc., New York, N. Y., now by merger Royal McBee Corporation. Filed May 3, 1954.



Applicant claims ownership of Reg. Nos. 392,541 and 214,474.

For Inking Ribbons, Carbon Paper, and Stencil Ink. Use since January 1953.

SN 674,796. Godfrey L. Cabot, Inc., Boston, Mass. Filed Oct. 14, 1954.

# ELFTEX-3

Applicant claims ownership of Reg. Nos. 556,376 and 570,875.

For Black Pigment of High Opacity for Use in Ink and Inking Materials.

Use since Dec. 9, 1953.

SN 679,517. Codo Manufacturing Corporation, Coraopolis, Pa. Filed Jan. 6, 1955.

# BLACK - O - GRAPH

For Hectograph Process Carbon Paper.

Use since Dec. 22, 1954.

## CLASS 12

SN 638,653. Klemp Metal Grating Corporation, Chicago, Ill. Filed Nov. 26, 1952.

# KLEMP-KREST

Applicant claims ownership of Reg. No. 604,075.

For Metal Gratings.

Use since Aug. 4, 1952.

SN 652,481. George S. Wachtman, Harrisburg, Pa. Filed Aug. 28, 1953.

# STORMGLAS

For Rigid Transparent Clear Plastic Sheets Cut to Size Used in Connection With Weatherstripping on Doors and Windows for Reducing Heat Transmission Through Doors and Windows.

Use since May 22, 1953.

SN 667,366. Atlas Plywood Corporation, Boston, Mass. Filed June 1, 1954.

# PLYMINATE

For Laminated Board Products Consisting of Plywood and Laminated Fiberboard.

Use since in February 1954.

SN 669,162. Youngstown Industries, Inc., Girard, Ohio. Filed June 29, 1954.



No claim is made to the words "Youngstown Industries" apart from the mark as shown.

For Aluminum Doors and Windows, Siding, Decorative and Commercial Aluminum Moldings, and Awning Components—Namely, Panels Formed of Molded Resin Incorporating Fiber Glass.

Use since Jan. 15, 1954.

SN 669,285. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed July 1, 1954.

# PENNCOAT

For Asphalt Both in Bulk and Sheet Form Sold for Use Primarily in Forming Protective Linings and Innerlinings.

Use since Mar. 19, 1950.

Subj. to Intf. with SN 660,890.

SN 669,626. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed July 8, 1954.

# FROST GOLDEN PINE

The word "Pine" is hereby disclaimed except in combination with the mark shown.

For Lumber.

Use since on or about Sept. 3, 1953.

SN 670,000. National Steel Corporation, Pittsburgh, Pa. Filed July 14, 1954.



For (a) Metallic Structural Members for Conveyance Floors and Walls, Cold Formed Metallic Structural Members for Building Frameworks, Metallic Window Sash, Flashing and Metallic Building Sheathing; and (b) for Galvanized Corrugated Roofing, Galvanized Roof Edging, Galvanized Ridge Roll, Galvanized Roll Flashing and Valley, Galvanized Formed Valley, Galvanized Gutter and Eaves Trough, Galvanized Conductor Pipe, Galvanized Ribbed Roofing, Weatherboard Corner Trim, Endwall Flashing, Galvanized Shingles, Galvanized Adjustable Elbows, Galvanized Gravel Guard, Galvanized Pier Caps, Galvanized Weatherboard Siding, Galvanized Corrugated Endwall, Galvanized Side Wall Flashing, Bright Tin Shingles, Galvanized Counter Flashing and Galvanized Window Flashing.

Use since June 18, 1953, on metallic structural members for conveyance floors and walls, cold formed metallic structural members for building frameworks, metallic window sash, flashing and metallic building sheathing.

SN 677,458. Bernice Head Stow, Tampa, Fla. Filed Nov. 29, 1954.

# Sundire

For Lumber and Millwork. Use since July 30, 1954.

SN 678,007. Walpole Woodworkers, Inc., Walpole, Mass. Filed Dec. 8, 1954. Sec. 2(f).

# Walpole

For Wood Fencing. Use since March 1940.

SN 678,474. R. O. W. Sales Co., Ferndale, Mich., to Winter-Seal Corporation, Detroit, Mich. Filed Dec. 16, 1954.



The term "Combination Windows" is disclaimed apart from the mark as shown. The drawing is lined for red. For Combination Storm Windows, and Screens. Use since Oct. 25, 1954.

SN 678,998. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Dec. 27, 1954.

# GLASSEAL

Applicant claims ownership of Reg. No. 603,812. For Double Glazed Windows. Use since on or about Dec. 15, 1954.

SN 679,150. William B. Gilbert and Bernard Gerson, Detroit, Mich. Filed Dec. 30, 1954.

# FLUSH-FOLD

For Folding Doors, Walls, and Partitions. Use since Dec. 16, 1954.

TM 696 O. G.—7



For Sheathed Wire Cable for Use in Prestressing Concrete Structures.

Use since on or about October 1952.

SN 679,473. Modern Sign Advertising Company, Philadelphia, Pa. Filed Jan. 5, 1955.

# CALMODE

For Porcelain-Enameled Metal Panels for Use in Sheathing the Exteriors of Buildings in Constructing Store Fronts and in Constructing Business Name and Advertising Signs.

Use since Oct. 18, 1954.

SN 679,594. M and M Wood Working Company, Portland, Oreg. Filed Jan. 7, 1955.

# PLYWEAVE

For Plywood.

Use since Oct. 16, 1950.

SN 679,599. Norristown Magnesite and Asbestos Co., Inc., Norristown, Pa. Filed Jan. 7, 1955.

# INSUL-ATTIC

For Aluminum Walled Asbestos Felt Insulation. Use since July 2, 1954.

SN 679,722. Federal Cement Tile Company, Chicago, Ill. Filed Jan. 11, 1955.

# INSUL-COUSTIC

For Precast Concrete Units for Use in Building Structures as in Walls and Roofs. Use since Dec. 9, 1954.

SN 679,993. The Glidden Company, d. b. a. A. Wilhelm Company, Cleveland, Ohio. Filed Jan. 17, 1955.

# SUPER PLY

For Putty and Wood Fillers. Use since Mar. 10, 1953.

SN 680,172. Alexander Rubber Co., Inc., Trenton, N. J. Filed Jan. 20, 1955.

# ALEXON

For Rubber and Vinyl Tile in the Form of Blocks. Use since Nov. 1, 1954.



SN 680,257. The Colotrym Company, Seattle, Wash. Filed Jan. 21, 1955. SN 667,143. Ch. J. Neuman Limited, South Croydon, England. Filed May 26, 1954.

**RIBBON SPLINE**

For Extruded and Formed Metallic Moldings and Splines Used in Connection With Panelling and Counter-Tops.  
Use since Jan. 2, 1954.

SN 680,483. Parafall Corporation, Los Angeles, Calif. Filed Jan. 25, 1955.

**PARASCUFF**

For Resilient Material Used To Prepare Non-Skid Surfaces on Tennis Courts, Playgrounds, Sandboxes, and the Like.  
Use since July 14, 1952.

SN 680,484. Parafall Corporation, Los Angeles, Calif. Filed Jan. 25, 1955.

**PARASEAL**

For Resilient Material Used To Prepare Non-Skid Surfaces on Tennis Courts, Playgrounds, Sandboxes, and the Like.  
Use since Aug. 12, 1954.

SN 680,542. Joseph J. Nash, d. b. a. Nash Manufacturing Company, Long Branch, N. J. Filed Jan. 26, 1955. Sec. 2(f).

**NASH**

For Aluminum Framed Doors, Windows, and Window Screens.  
Use since Aug. 6, 1946.

SN 680,676. International Minerals & Chemical Corporation, Chicago, Ill. Filed Jan. 28, 1955.

**PITLINE**

For Mixture of Clay, Sand, and Grog, Together With a Binder and a Flux, Used as Refractory Lining in Soaking Pits, and Other Refractory Lining Applications.  
Use since Jan. 24, 1955.

#### CLASS 13

SN 654,009. Stahl-Armaturen G. m. b. H., Beleck (Möhne), Germany. Filed Sept. 30, 1953.

**Persta**

Applicant claims ownership of German Reg. No. 611,681, dated Sept. 21, 1951.

For Finished Valves and Slides for Use in Pipe Lines of Industrial Installations.



The words "Tite-Seal" are disclaimed apart from the mark as a whole. Applicant claims ownership of British Reg. No. 717,155, dated Apr. 24, 1953.  
For Grease Fittings and Nipples.

SN 667,170. Carl A. Strand, d. b. a. The Carl A. Strand Company, Birmingham, Mich. Filed May 26, 1954.

**STRANDGLAS**

For Bathtubs.  
Use since Oct. 30, 1953.

SN 667,178. Tinnerman Products Inc., Cleveland, Ohio. Filed May 26, 1954. Sec. 2(f).

**FASTEST THING IN FASTENINGS**

Applicant claims ownership of Reg. No. 542,841.  
For Sheet Metal Nuts for Screws and Bolts.  
Use since on or about February 1942.

SN 667,182. Tinnerman Products Inc., Cleveland, Ohio. Filed May 26, 1954. Sec. 2(f).



The drawing is lined for red. The representation of the goods is disclaimed apart from the mark.  
For Sheet Metal Fastening Devices Such as Locking Members for Screws, Nuts, and Bolts.  
Use since on or about May 15, 1937.

SN 668,721. Austral Products Corporation, New York, N. Y. Filed June 23, 1954.

**AUSTRAL**

Applicant claims ownership of Reg. No. 94,586 and the mark shown in expired Reg. No. 294,268.

For Balance Arms for Balanced Windows, Door Holders, Friction Sash Sustainers, Door Bumpers; Hardware for

School Room Wardrobes—Namely, Pivot Arms, Adjustment Devices, Universal Joints, Ball Bearing Pivots, Handles, Coat Hooks, Door Operating Mechanism; Door Control Mechanism.  
Use since November 1905 on balance arms for balanced windows.

SN 671,607. Talon, Inc., Meadville, Pa. Filed Aug. 12, 1954.  
Applicant claims ownership of Reg. No. 606,012.



For Fasteners of the Type Having Two Parts—Namely, a Slider and a Track Wherein the Slider Is Movable Along the Track To Adjust One Part of the Garment or Article Relative to Another Part.  
Use since on or about July 26, 1954.

SN 672,094. Phillips Petroleum Company, Bartlesville, Okla. Filed Aug. 23, 1954.

**Philgas**

For Dispensing Equipment for Liquefied Petroleum Gas—Namely, Valves and Regulators.  
Use since about July 1, 1938.

SN 676,380. Louis P. Gryp, d. b. a. Klipper-Kraft Sales, South Bend, Ind. Filed Nov. 10, 1954.

**KLIPPER-KRAFT**

For Floor Drain Plug.  
Use since Oct. 23, 1954.

SN 676,419. Texas Plastic Products Co., Galena Park, Tex. Filed Nov. 10, 1954.

**TEX-TRUDE**

For Spray Nozzles and Plastic Pipe and Fittings.  
Use since Mar. 20, 1954.

SN 676,482. Dor-O-Matic Division of Republic Industries, Inc., Chicago, Ill. Filed Nov. 12, 1954.

**DOR-O-MATIC**

Applicant claims ownership of Reg. No. 533,349.  
For Automatic Door Operators.  
Use since Nov. 24, 1952.

SN 676,483. Dor-O-Matic Division of Republic Industries, Inc., Chicago, Ill. Filed Nov. 12, 1954.

**INVISIBLE DOR-MAN**

For Automatic Door Operators.  
Use since Nov. 24, 1952.

SN 676,533. S. A. Eteco (European Overseas Trading Company), Zwevegem, Belgium. Filed Nov. 12, 1954.

**BEKA**

For Barbed Wire for Fencing, Bale Ties, Steel Fences, and Fence Wire.  
Use since May 20, 1954.

SN 676,534. S. A. Eteco (European Overseas Trading Company), Zwevegem, Belgium. Filed Nov. 12, 1954.

**BEKAMAN**

For Barbed Wire for Fencing, Bale Ties, Steel Fences, and Fence Wire.  
Use since May 20, 1954.

SN 677,241. The G. E. Prentice Mfg. Co., Kensington, Conn. Filed Nov. 24, 1954.

**JUS-RITE**

For Separable Fasteners for Garments Composed of a Series of Fastener Elements and a Fastener Member Adjustably Connectable to Such Elements.  
Use since on or about Aug. 1, 1953.

SN 677,350. Nathan Chazan, d. b. a. Perma-Flo Copper Company, Astoria, N. Y. Filed Nov. 26, 1954.

**PERMA-FLO**

For Copper Tubing for Household Plumbing and Heating Applications.  
Use since about June 8, 1954.

SN 678,570. S. A. Eteco (European Overseas Trading Company), Zwevegem, Belgium. Filed Nov. 24, 1954.

**BEKADEN**

For Barbed Wire for Fencing, Bale Ties, Steel Fences, and Fence Wire.  
Use since May 20, 1954.

SN 679,193. Standard Commodities Import and Export Corp., Los Angeles, Calif. Filed Dec. 30, 1954.

**SCOWARE**

For Hinges, Hasps, Shelf Brackets, Corner Braces, Door Sheaves, and Letter Drops.  
Use since Aug. 20, 1954.



SN 679,526. Knickerbocker Rubber Company, Chicago, Ill.  
Filed Jan. 6, 1955.

**Swingabout**

For Faucet Strainers.  
Use since on or about Aug. 17, 1954.

SN 679,530. Mechanical Steel Tubing Corporation, New York, N. Y. Filed Jan. 6, 1955.

**GALV--MAST**

For Steel Tubing.  
Use since Nov. 1, 1954.

SN 679,604. The William Powell Company, Cincinnati, Ohio.  
Filed Jan. 7, 1955.

**W.S.**

For Globe Valves and Angle Valves.  
Use since on or about Apr. 1, 1950.

SN 679,843. Handcraft Novelty Co., Brooklyn, N. Y. Filed Jan. 13, 1955.

**PERCMASTER**

For Glass Percolators.  
Use since Jan. 5, 1955.

SN 679,844. The H. M. Harper Company, Morton Grove, Ill.  
Filed Jan. 13, 1955. Sec. 2(f).

**HARPER**

For Threaded Bolts, Nuts, Screws, Metal Washers, Rivets, Cotter Pins, and Studs.  
Use since 1923.

SN 680,045. Texas Lawn Sprinkler Co., Inc., Dallas, Tex.  
Filed Jan. 17, 1955.

**Weathermatic**

Applicant claims ownership of Reg. No. 592,722.  
For Lawn Sprinkler Heads.  
Use since Aug. 24, 1953.

## CLASS 14

SN 624,713. Utica Drop Forge & Tool Corporation, Utica, N. Y. Filed Feb. 8, 1952. Sec. 2(f).

**U T I C A**

Applicant claims ownership of Reg. Nos. 83,793, 534,764, and others.

For Rough and Partly Finished Metal Forged Shapes.  
Use since on or about Oct. 28, 1946.

SN 636,823. Utica Drop Forge & Tool Corporation, Utica, N. Y. Filed Oct. 17, 1952.

**PRECISION...  
U T I C A  
...FORGINGS**

Applicant disclaims the words "Precision Forgings" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 83,793, 534,764, and others.

For Rough and Partly Finished Forged Metal Shapes as Specified by the Customer.  
Use since Sept. 26, 1952.

SN 666,206. National Steel Corporation, Pittsburgh, Pa.  
Filed May 12, 1954.

**WEIRKOTE**

Applicant claims ownership of Reg. Nos. 414,611, 414,612, and 414,613.

For Zinc and Zinc Alloy Coated Ferrous Base Sheets and Strip.  
Use since Jan. 12, 1954.

SN 668,157. Continental Copper & Steel Industries, Inc., New York, N. Y. Filed June 14, 1954. Sec. 2(f).

**CCM  
Continental**

For Aluminum, Bronze, Magnesium, Nickel, Manganese, Calcium, Copper, Iron, Silver, Tin Solders and Alloys and Tool Steel and Tool Casting Alloys.  
Use since July 1, 1948.

SN 669,301. Utica Drop Forge & Tool Corporation, Utica, N. Y. Filed July 1, 1954.

**U D I M E T**

For Metal Cast and Wrought Stock Such as Rods, Bars, and Ingots Made From Ferrous Metal and Its Alloys, Such as Iron and Steel, and Non-Ferrous Metals Such as Nickel, Chromium, Copper, Aluminum, and Titanium, and Their Alloys.  
Use since June 17, 1954.

SN 674,446. Chemical Development Corporation, Danvers, Mass. Filed Oct. 7, 1954.

**DEVCON**

For Comminuted Metal Mixtures Sold in the Form of a Liquid Capable of Hardening Into a Metallic Moldable Product When Mixed With a Hardening Agent for Making Jigs, Fixtures, Forming and Drawing Dies, Molds, Models, Holding Devices for Two Jaw and Magnetic Chucks, Pattern Plates, Core Boxes, Altering Metal Parts, a Caulking Compound for Steel and Other Metals, Including Cementing Steel to Itself and to Carbide.

Use since Feb. 23, 1954.

SN 676,062. Marquette Manufacturing Co., Inc., Minneapolis, Minn. Filed Nov. 4, 1954.

**ARCUT-ROD**

For Metallic Welding Rods.  
Use since Nov. 17, 1952.

## CLASS 15

SN 556,307. Arrow Petroleum Company, Forest Park, Ill.  
Filed May 6, 1948.

**Arrow**

For Gasoline, Fuel Oil, Kerosene, Naphtha, and Lubricating Oils and Greases.  
Use since 1925.

SN 657,930. Hudson Oil Company, Kansas City, Kans. Filed Dec. 14, 1953. Sec. 2(f).

**HUDSON**

Applicant claims ownership of Reg. Nos. 366,350 and 372,721.

For Gasoline and Lubricating Oil.  
Use since about May 1, 1940.

SN 670,498. Owens Illinois Oil Co., Bloomington, Ill. Filed July 23, 1954.

**OCO  
PEP**

The word "Pep" is disclaimed apart from the mark as shown.

For Gasoline.  
Use since January 1946.

SN 672,025. The Texas Company, New York, N. Y. Filed Aug. 20, 1954.

**SPINTEX**

For Lubricating Oil.  
Use since on or about Apr. 15, 1954.

SN 674,535. Stewart Brothers Oil's, Inc., El Paso, Tex.  
Filed Oct. 8, 1954.

**POWER-FILM**

For Motor and Lubricating Oil.  
Use since Dec. 17, 1935.  
Subj. to Intf. with SN 602,064.

SN 675,319. Chester W. Smith, d. b. a. Whitfield Chemical Company, Detroit, Mich. Filed Oct. 22, 1954.

**REVSOL**

For Water Dispersible Rust Preventive Oil for Protecting Ferrous Metals.  
Use since Oct. 5, 1953.  
Subj. to Intf. with SN 679,308.

SN 678,230. Key Petroleum Corporation, La Follette, Tenn.  
Filed Dec. 13, 1954.

**Peer**

For Gasoline, and Lubricating Oils; Additives for Gasoline; Lighter Fluids; Kerosene; Fuel Oils; Motor Oils and Greases.  
Use since July 16, 1954.

SN 678,418. The Pure Oil Company, Chicago, Ill. Filed Dec. 15, 1954. Sec. 2(f) as to "Pure" and "Be Sure With Pure."

**BE SURE  
PURE  
WITH PURE**

Applicant claims ownership of Reg. No. 514,028.  
For Light Oils—Namely, Motor Fuel Oils, Solvent Oils, Kerosene, Diesel Fuel Oil, and Furnace Oils; Lubricating Oils—Namely, Cylinder Oils, Engine and Machine Oils, Diesel and Turbine Oils and Automotive Oils; Miscellaneous Industrial Oils—Namely, Residual Fuel Oils, Cutting Oils, Quenching Oils, Slushing Oils, Lubricating Oil Fractions for Process Applications, Metal Drawing Oils, Lubricating Oils for Pneumatic Tools, Brick Mold Oils, Lubricating Oils for Air and Gas Compressors, and White Oils; Greases—Namely, Automotive Greases, Automotive Gear Lubricants, Industrial Gear Lubricants, and Greases for Industrial Machinery; and Viscous, Oleaginous, Liquid Media Employed in Hydrokinetically Operated Transmissions.  
Use since on or about April 1941.



SN 679,308. Haas Miller Corporation, Philadelphia, Pa. Filed Jan. 3, 1955.

## REVERSON

For Cutting Oils, Rust Preventives, Drawing Lubricants, Wool Stock Lubricants, and Thread Lubricants.  
Use since Oct. 1, 1954.  
Subj. to Intf. with SN 675,319.

SN 680,570. Air Associates, Inc., Orange, N. J. Filed Jan. 27, 1955.

## EMEX

For Lubricating Fluid.  
Use since Dec. 22, 1954.

### CLASS 16

SN 650,174. The Glidden Company, d. b. a. A. Wilhelm Company, Cleveland, Ohio. Filed July 13, 1953.

## SUPER PLY

For Paints, Paint Enamels, Varnishes, Colors in Oil, Stains, Varnish Stains, and Paint Thinners.  
Use since Jan. 27, 1953.

SN 651,682. The Wilbur & Williams Company, Boston, Mass. Filed Aug. 11, 1953. Sec. 2(f).

## RUBBER-COAT

For Corrosion Resistant Paints for Exterior Masonry and Pool and Tank Linings.  
Use since Dec. 1, 1920.

SN 660,890. Pennsylvania Saw Corporation, York, Pa. Filed Feb. 10, 1954.

## " PENNCOTE "

For Paint Coating To Prevent Rust.  
Use since July 1, 1953.  
Subj. to Intf. with SN 669,285.

SN 664,174. Paul W. Nordstrom, Oakland, Calif. Filed Apr. 8, 1954.

## Seal - Tuff

For Primer for Application to Stucco To Promote Efficient Adhesion of a Finish Coat, and a Finish Sealing Coat for Stucco.  
Use since Mar. 4, 1953.

SN 667,236. Grand Rapids Varnish Corporation, Grand Rapids, Mich. Filed May 27, 1954.

## Crestline

For Flat Wall Paint.  
Use since Jan. 15, 1954.

SN 673,469. Claudius Nielsen, d. b. a. The Nielco Laboratories, Detroit, Mich. Filed Sept. 20, 1954.

## NIEL-COAT

For Primer, Used for Priming of Surfaces, Such as Metal, Masonry, Etc.  
Use since Nov. 5, 1950.

SN 675,647. National Chemical & Manufacturing Company, Chicago, Ill. Filed Oct. 28, 1954.

## LUMINALL

Applicant claims ownership of Reg. No. 304,519.  
For Liquid and Paste Paints, Primers, Sealers, Vapor Barriers (Quick Drying Sealers Each of Which May Serve as an Undercoat of Paint), Casein Colors and Spackling Compound.  
Use since on or about Mar. 11, 1930.

SN 679,823. Chem-Tech Industries, Inc., Santa Monica, Calif. Filed Jan. 13, 1955.

## ACRYL-O-TREAT

For Ready-Mixed Resin Base Paints.  
Use since January 1954.

SN 680,684. The Martin-Senour Company, Chicago, Ill. Filed Jan. 28, 1955.

## LACQUER COLOR-SOLV

Any exclusive rights to the word "Lacquer" are disclaimed except for the mark as shown.  
For Lacquer Thinner.  
Use since Sept. 9, 1954.

### CLASS 18

SN 665,271. Lona Duval Inc., New York, N. Y. Filed Apr. 27, 1954.

## LD4

For Dermatologically Compounded Cream for Counteracting the Adverse Effect of Soap and Alkalies on Eczema of the Hands and for Lubrication of Dry and Chapped Skins.  
Use since Apr. 8, 1954.

SN 668,865. Carroll Dunham Smith Pharmacal Company, New Brunswick, N. J. Filed June 24, 1954. Sec. 2(f).

## MARROW MALT

Applicant claims ownership of Reg. No. 300,028.  
For Medicinal Reconstructive Tonic and Appetite Stimulator.  
Use since April 1945.

SN 671,951. Andrew Marcinko, Youngstown, Pa. Filed Aug. 19, 1954. SN 675,740. White Laboratories, Inc., Kenilworth, N. J. Filed Oct. 29, 1954.

## REVENGE

For Lotion for the Treatment of Poison Ivy, Athlete's Foot, and Allied Skin Disorders.  
Use since July 1, 1954.

SN 674,414. Noramex Company, Inc., New York, N. Y. Filed Oct. 6, 1954.

## PELKASIN

For Germicidal Preparation Indicated for the Care and Treatment of the Hair and Scalp.  
Use since in or about July 1947.

SN 674,415. Noramex Company, Inc., New York, N. Y. Filed Oct. 6, 1954.

## NORAFER

For Medicinal Preparation Having Tonic Properties and Indicated as a Stimulant to the Appetite and the Generation of Red Blood Cells.  
Use since in or about July 1947.

SN 674,550. American Home Products Corporation, d. b. a. Wyeth Laboratories, Division of American Home Products Corp., Philadelphia, Pa. Filed Oct. 11, 1954.

## HIPO-ALERGICA

Applicant claims ownership of Reg. No. 303,476.  
For Hypo-Allergenic Milk Powder.  
Use since 1940.

SN 675,499. The Panray Corp., New York, N. Y. Filed Oct. 26, 1954.

## Serpanray

For Pharmaceutical Preparation Effective as an Anti-Hypertensive, Calming, Taming, and Sedative Agent.  
Use since Sept. 16, 1954.

SN 675,738. Mary Viault, d. b. a. Rayfair Company, New York, N. Y. Filed Oct. 29, 1954.



For Medicinal Preparation Indicated in and for the Care, Hygiene, Protection, and Treatment of the Skin.  
Use since on or about Apr. 1, 1893.

## LACTOFORT

For Preparation Intended for the Prevention and Treatment of Nutritional-Deficiency States.  
Use since Oct. 1, 1954.

SN 675,741. White Laboratories, Inc., Kenilworth, N. J. Filed Oct. 29, 1954.

## VI-LYSINE

For Preparation Intended for the Prevention and Treatment of Nutritional-Deficiency States.  
Use since Oct. 1, 1954.

SN 675,889. Johnston's Products, Los Angeles, Calif. Filed Nov. 2, 1954.

## KENOPLEX

For Multiple Vitamin and Mineral Preparation.  
Use since Apr. 9, 1951.

SN 675,899. Celesta B. Lincoln, d. b. a. Horizon Company, Austin, Tex. Filed Nov. 2, 1954.



For Dietary Supplement Designed Especially for Ease of Assimilation and Digestibility by the System.  
Use since Oct. 19, 1954.

SN 676,021. Whitehall Pharmacal Company, New York, N. Y. Filed Nov. 3, 1954.

## Duplexin

For Analgesic and Antacid Preparation in Dosage Form.  
Use since Oct. 15, 1953.

SN 676,052. Gray Pharmaceutical Co., Inc., Boston, Mass. Filed Nov. 4, 1954.

## Therasalis

For Therapeutic Saline and Salt Substitute Preparation.  
Use since Oct. 19, 1954.

SN 676,074. Pharmaco, Inc., Kenilworth, N. J. Filed Nov. 4, 1954.

## CHOOZ

For Preparation to Aid Digestion.  
Use since Dec. 5, 1939.



SN 676,112. William L. Gould, d. b. a. Amherst Research Division Research Supplies, Albany, N. Y. Filed Nov. 5, 1954.

**Glukor**

For Fortified Gonadotropin.  
Use since on or about Apr. 2, 1951.

SN 676,113. William L. Gould, d. b. a. Amherst Research Division Research Supplies, Albany, N. Y. Filed Nov. 5, 1954.

**Glutest**

For Fortified Androgen.  
Use since on or about Apr. 1, 1953.

SN 676,197. Irwin, Neisler and Company, Decatur, Ill. Filed Nov. 8, 1954.

**UNITENSEN - PHEN**

Applicant claims ownership of Reg. No. 584,670.  
For Tablets for the Relief of Hypertension.  
Use since Aug. 23, 1954.

SN 676,198. Irwin, Neisler and Company, Decatur, Ill. Filed Nov. 8, 1954.

**UNITENSEN - R**

Applicant claims ownership of Reg. No. 584,670.  
For Tablets for the Relief of Hypertension.  
Use since Sept. 7, 1954.

SN 678,666. Pascual Pinzon, New York, N. Y. Filed Dec. 20, 1954.

**Four Element  
12-24-33**

For Medicinal Preparation for the Treatment of Arthritis.  
Use since Sept. 20, 1954.

SN 679,306. E. S. Miller Laboratories, Inc., Los Angeles, Calif. Filed Jan. 3, 1955.

**SCOPAMAL**

For Tablet for Gastric Disorders.  
Use since Dec. 16, 1954.

SN 679,628. American Cyanamid Company, New York, N. Y. Filed Jan. 10, 1955.

**MULTISTREP**

For Antibiotic Preparation.  
Use since Dec. 10, 1954.

SN 679,793. Organon Inc., Orange, N. J. Filed Jan. 12, 1955.

**CORTROLYTE**

For Adrenal Hormone Preparation.  
Use since Dec. 20, 1954.

#### CLASS 19

SN 662,448. Hehr Manufacturing Company, Los Angeles, Calif. Filed Mar. 11, 1954.



For Windows for Automobile Trailers.  
Use since Feb. 12, 1954.

SN 665,230. R & W Products Co., Minneapolis, Minn. Filed Apr. 26, 1954.

**STA-IN**

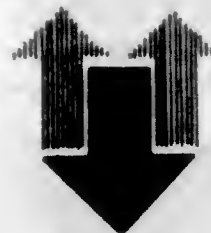
For Safety Belts for Automotive and Aeronautical Uses.  
Use since February 1954.

SN 668,703. Standard Traller Company, San Leandro, Calif. Filed June 22, 1954.

**REELMASTER**

For Telephone Cable Transporting Vehicle.  
Use since Dec. 4, 1951.

SN 668,923. Pest Control Limited, Bourn, England. Filed June 25, 1954.



Applicant claims ownership of British Reg. No. 710,653, dated Sept. 17, 1952.  
For Trucks, Tank Wagons, Carrier Vehicles for Timber, Aeroplanes, and Helicopters.

SN 669,950. Visioneering Company, Inc., Cleveland, Ohio. Filed July 13, 1954.



Applicant claims ownership of Reg. No. 430,760.  
For Vehicles and Vehicle Parts—Namely, Miscellaneous Types of Trailers, Undercarriages for Trailers for Special Equipment, and Off-Road Highway Vehicles Such as Self-Propelled Rock Haulers, Traller Type Dirt and Rock Movers.  
Use since on or about Oct. 1, 1948.

SN 670,747. Meltrotter Systems, Incorporated, Columbia, S. C. Filed July 28, 1954.

**ELECTRALIFT**

For Electrically Operable Elevators Adapted To Be Associated With Truck Bodies and Truck Bodies Having Electrically Operable Elevators Associated Therewith.  
Use since on or about June 25, 1954.

SN 678,955. Bellingham Shipyards Co., Bellingham, Wash. Filed Dec. 27, 1954.

**BELLGLAS**

For Outboard Motor Boat Hulls and Connected Components of Plastic-Impregnated Glass Fiber Mat Construction.  
Use since Nov. 28, 1954.

SN 679,201. Bellingham Shipyards Co., Bellingham, Wash. Filed Dec. 31, 1954.

**Bell Boy**

For Outboard and Inboard Motorboats.  
Use since Jan. 16, 1954.

SN 680,242. Aircraft Engineering Foundation, Inc., Washington, D. C. Filed Jan. 21, 1955. CERTIFICATION MARK.



The drawing is lined for blue and gold.  
For Aircraft Modified in Accordance With the Requirements and Specifications of Aircraft Engineering Foundation.  
Use since Sept. 1, 1954.

SN 682,144. The Hell Co., Milwaukee, Wis. Filed Feb. 23, 1955.

**FRIGID - LITE**

For Vehicular Milk Tank Bodies, Vehicular Chemical Tank Bodies, and Vehicular Insulated Bodies for Refrigerated Cargo.  
Use since Sept. 10, 1955.

SN 683,092. Frank Berman, Fair Lawn, N. J. Filed Mar. 9, 1955.



For Memorandum Pad Holders Secured to Automobile Steering Wheels.  
Use since Feb. 16, 1955.

SN 684,041. The Gabriel Company, d. b. a. Hadees Heater Division of The Gabriel Company, Rockford, Ill. Filed Mar. 23, 1955.

**Chieftain**

Applicant claims ownership of Reg. No. 319,901.  
For Automobile Heaters and Parts and Accessories Therefor, and More Particularly Heaters Heated by the Engine-Cooling Medium.  
Use since June 1934.

SN 684,143. The Martin Company, Incorporated, Cleveland, Ohio. Filed Mar. 24, 1955.

**Travel-Tier**

For Auto Top Carriers.  
Use since Jan. 11, 1955.



SN 684,548. Finnish Yachts and Boats, Inc., New York, N. Y. Filed Mar. 30, 1955.

*Flying Finn*

For Boats.  
Use since Feb. 12, 1955.

SN 684,624. Anthony Company, Streator, Ill. Filed Mar. 31, 1955.

**TELERAMIC**

For Vehicle Dumping Bodies and Parts Thereof.  
Use since Feb. 14, 1955.

SN 684,742. Michigan Wheel Company, Grand Rapids, Mich. Filed Apr. 1, 1955.

**AQUA-MASTER**

For Marine Propellers and Marine Steering Wheels.  
Use since January 1954.

SN 684,744. Michigan Wheel Company, Grand Rapids, Mich. Filed Apr. 1, 1955.

*MICHALLOY  
XX*

Applicant disclaims the notation "XX" apart from the mark.  
For Marine Propellers.  
Use since January 1955.

SN 684,857. Michigan Wheel Company, Grand Rapids, Mich. Filed Apr. 4, 1955.

*Hydro-Dyne*

For Marine Propellers.  
Use since 1946.

SN 684,858. Michigan Wheel Company, Grand Rapids, Mich. Filed Apr. 4, 1955.

**EQUI-POISE**

For Marine Propellers.  
Use since 1933.

*bag bug*

For Powered Vehicles for Carrying Golfers.  
Use since Aug. 14, 1954.

SN 685,330. James H. Aldous, d. b. a. Daytona Harley-Davidson Sales & Service, Daytona Beach, Fla. Filed Apr. 12, 1955.

**LITTLE REBEL**

For Motorcycle Sidecars and Vans.  
Use since Mar. 28, 1955.

SN 685,345. The Buxbaum Company, Canton, Ohio. Filed Apr. 12, 1955.

**Akro**

Applicant claims ownership of Reg. No. 540,427.  
For Rubber Fender Guards.  
Use since Jan. 20, 1955.

#### CLASS 21

SN 592,423. Irving Fertel, d. b. a. Mitchell Auto Supply Company, Brooklyn, N. Y. Filed Feb. 14, 1950.

**MITCHELL  
PRODUCT**

The applicant disclaims "Product" apart from the mark as shown.  
For Ignition Points for Internal Combustion Engines, Electrical Automobile Wire, and Electrical Friction Insulating Tape.  
Use since Apr. 1, 1948.

SN 648,431. Protection Controls, Inc., Chicago, Ill. Filed June 8, 1953.



The wording "Electrical Safety Equipment" is disclaimed. No claim is made to the words "Protection" and "Controls" apart from the mark. Color is not claimed as an essential feature.

For Electrical Safety Equipment Including Particularly a Control Panel and Associated Apparatus Comprising Cooperatively Interconnected Electrical Flame or Burner Sensing Means and Electronic Supervising Controls, Motor Starting Devices, Motor and Power Circuit Breakers, Control Switches, Transformers, and Circuit Connections for Supervising the Safe and Efficient Operation of Gas, Oil, and Other Flame-Type Burners, Ovens, Furnaces, Heat-Treating and Heat-Operated Devices.  
Use since Mar. 31, 1953.

SN 662,363. International Rolling Mill Products Corporation, Chicago, Ill. Filed Mar. 10, 1954.



For Conduits for Housing Electric Wires.  
Use since Dec. 8, 1952.

SN 664,788. Pioneer Pulverizer Co., Los Angeles, Calif. Filed Apr. 19, 1954.

**Pioneer**

For Domestic Garbage Disposals.  
Use since Apr. 7, 1952.



The letter "E" in the drawing is lined for the color red. Applicant claims ownership of Reg. No. 195,718.  
For Electrical Machines—Namely, Meat and Food Choppers, Juice Extractors, Coffee Grinders.  
Use since the year 1901.

SN 665,650. Sola Electric Co., Chicago, Ill. Filed May 3, 1954.

**SENSIBOOST**

For Relay and Transformer Combinations for Voltage Controlling and Regulating Apparatus.  
Use since in or about April 1952.

SN 665,651. Sola Electric Co., Chicago, Ill. Filed May 3, 1954.

**SENSIVOLT**

For Relay Units for Voltage, Current, or Frequency Controlling and Regulating Devices.  
Use since in or about September 1951.

SN 665,900. Edgerton, Germeshausen & Grier, Inc., Boston, Mass. Filed May 7, 1954.

**EEG**

For Radio and Television Broadcasting and Reception Equipment, Point-to-Point Relay Communication Equipment, Microwave Transmitting and Receiving Equipment, Electric Flash Lamps, and Electronic Tubes.  
Use since in or about October 1949.

SN 668,160. George K. Culbertson, d. b. a. George K. Culbertson Company, San Gabriel, Calif. Filed June 14, 1954.



For Electric Phonograph Record Players and Sound Recorders.  
Use since July 15, 1939, on electric phonograph record players.



SN 668,481. Thermador Electrical Manufacturing Co., Inc., Los Angeles, Calif. Filed June 18, 1954.

## THERMADOR

Applicant claims ownership of the mark shown in Reg. No. 276,861 (expired).

For Electric Space Heaters, Electric Water Heaters, Electric Cooking Stoves, Electric Ovens, and Electric Transformers.

Use since Oct. 1, 1929, on electric space heaters.

SN 668,484. Thermador Electrical Manufacturing Co., Inc., Los Angeles, Calif. Filed June 18, 1954.



Applicant claims ownership of the mark shown in expired Reg. No. 276,861.

For Electric Space Heaters, Electric Water Heaters, Electric Cooking Stoves, Electric Ovens, and Electric Transformers.

Use since Oct. 1, 1929, on electric space heaters.

SN 669,010. Knapp-Monarch Company, St. Louis, Mo. Filed June 28, 1954.

*Redi-Baker*

For Electrical Baking Appliances.  
Use since June 10, 1954.

SN 672,599. Smitsvonn N. V., Leidschendam, Netherlands. Filed Sept. 1, 1954.

## SMITSVONK

Applicant claims ownership of Dutch Reg. No. 105,212, dated June 10, 1950.

For Electrical Low Tension Ignition System, Ignitors for Jet Engines and Industrial Burners, Sparking Elements for Igniting Explosives, and Low Tension Flash Lamps for Illumination Purposes.

SN 672,600. Smitsvonn N. V., Leidschendam, Netherlands. Filed Sept. 1, 1954.

## SMIVO

Applicant claims ownership of Dutch Reg. No. 118,234, dated Apr. 10, 1954.

For Electrical Low Tension Ignition System, Ignitors for Jet Engines and Industrial Burners, Sparking Elements for Igniting Explosives, and Low Tension Flash Lamps for Illumination Purposes.

SN 675,943. Markel Electric Products, Inc., Buffalo, N. Y. Filed Oct. 6, 1954. Sec. 2(f).

## FAN-GLO

Applicant claims ownership of Reg. No. 514,955.

For Electric Air Heaters for Domestic Use.

Use since on or about June 5, 1947.

SN 677,057. General Lighting & Equipment Co. Inc., Houston, Tex. Filed Nov. 22, 1954.



Applicant claims ownership of Reg. No. 591,603.

For Fluorescent Tubes.

Use since Sept. 1, 1954.

SN 677,529. Annie Richardson, d. b. a. Richardson Company, Los Angeles, Calif. Filed Nov. 30, 1954.

## CAL-MET

For Sockets to Accommodate Printed Circuit Boards.  
Use since July 27, 1953.

SN 678,378. New Haven Clock and Watch Company, New Haven, Conn. Filed Dec. 15, 1954.

## PLASTICON

For Capacitors.  
Use since in the year 1939.

SN 678,379. New Haven Clock and Watch Company, New Haven, Conn. Filed Dec. 15, 1954.



For Capacitors.  
Use since 1939.

SN 678,380. General Electric Company, Bridgeport, Conn. Filed Dec. 15, 1954.

## ALKANEX

For Electrical Wire and Cable.  
Use since Dec. 3, 1954.

SN 678,761. Cable Electric Products, Inc., Providence, R. I. Filed Dec. 22, 1954.



For Portable Electric Lantern.  
Use since Sept. 30, 1954.

SN 678,923. Poloron Products, Inc., New Rochelle, N. Y. Filed Dec. 24, 1954.



For Electric Steam Vaporizers.  
Use since Dec. 3, 1954.

SN 678,932. Thermal Control Co. Limited, Hove, Sussex, England. Filed Dec. 24, 1954.

## "FIRETEC"

Applicant claims ownership of British Reg. No. 716,103, dated Mar. 24, 1953.

For Electrical Apparatus for Use in Giving Warning of Outbreak of Fire and Changes in Temperature.

SN 679,158. Gulton Mfg. Corp., Metuchen, N. J. Filed Dec. 30, 1954.

## FLEXDUCER

For Ceramic Electrical Components Comprising, in Particular, Ceramic Electro-Mechanical Transducer Elements Which Are Excited in Bending, Torsional, or Flexural Modes.  
Use since Dec. 23, 1954.

SN 679,165. Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Filed Dec. 30, 1954.

## TWO-SHOT

For Electric Conductor Cables Such as Rubber Insulated-Neoprene Jacketed Triplex Self-Supporting Aluminum Cables.  
Use since Nov. 5, 1954.

SN 679,355. U. S. Electrical Motors, Inc., Los Angeles, Calif. Filed Jan. 3, 1955.

## AUTOMATROL

For Equipment Utilizing Pneumatic Controls for an Electric Motor Controller for the Starting, Stopping, Speed Controlling, and Reversing of Electric Motors.  
Use since Oct. 25, 1954.

SN 680,051. The Ward Products Corporation, Cleveland, Ohio. Filed Jan. 17, 1955.

## INVADER

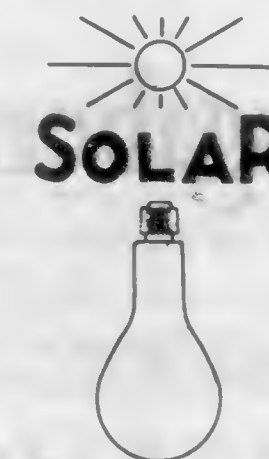
For Television Antennas.  
Use since Nov. 1, 1954.

SN 680,179. The Chase-Shawmut Company, Newburyport, Mass. Filed Jan. 20, 1955.



For Fuses and Fuse Links.  
Use since in the year 1947.

SN 680,813. Solar Electric Corporation, Warren, Pa. Filed Jan. 31, 1955.



No claim is made to the representation of the goods apart from the mark as shown. Applicant claims ownership of Reg. Nos. 577,325 and 389,988.

For Electric Incandescent Lamps, Electric Wire Connectors, Electric Attachment Plugs, Electric Fluorescent Starters, Electric Fluorescent Lamps, Electric Fluorescent Signs, and Electric Fuses.

Use since in about April 1917.

SN 680,893. Multi-Products Company, Oak Park, Mich. Filed Feb. 1, 1955.



For Radio Receivers, Radio Transmitters, Radio Operated Gate and Door Controls, Radio Operated Alarms and Warning Signals, Radio Controlled Switches, and Accessory Equipment—Namely, Power Supplies, Inter-Connecting Power Cables, Antennas, Antenna Cables, Antenna Switches, Antenna Relays, and Antenna Coils.  
Use since Nov. 19, 1954.

SN 680,919. United States Steel Corporation, Pittsburgh, Pa. Filed Feb. 1, 1955.

## TIGER

Applicant claims ownership of Reg. No. 280,127.  
For Electrical Wires and Cables.  
Use since June 15, 1954.

SN 680,973. The Peerless Corporation, New York, N. Y. Filed Feb. 2, 1955.

## ELDORADO

For Infra-Red Broiler Rotisserie.  
Use since Jan. 5, 1955.



SN 680,997. The Art Metal Company, Cleveland, Ohio. Filed Feb. 3, 1955. Sec. 2(f).  
 SN 681,115. W. W. Welch Company, Cincinnati, Ohio. Filed Feb. 4, 1955.

## DISINFECTAIRE

Applicant claims ownership of Reg. No. 409,634.  
 For Ultra-Violet Ray Electric Germicidal Units.  
 Use since July 23, 1943.

SN 681,042. Shure Brothers, Incorporated, Chicago, Ill.  
 Filed Feb. 3, 1955.

# Vagabond

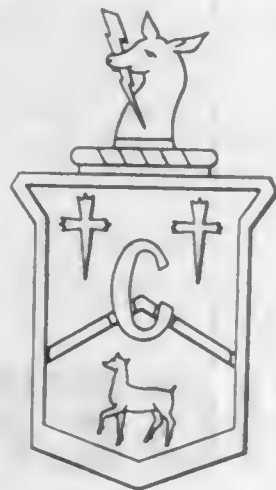
For Sound Pickup and Reproduction Systems and Components Thereof.  
 Use since in or about December 1953.

SN 681,044. Speedway Manufacturing Company, Cicero, Ill.  
 Filed Feb. 3, 1955.

# Speed Way

Applicant claims ownership of Reg. No. 166,574.  
 For Electrically Operated Portable Tools—Namely, Drills, Sanders, Saws Grinders, and Wrenches; Fractional Horsepower Motors; Kits Containing Electrically Operated Portable Drills and Attachments Therefor; Kits Containing Electrically Operated Portable Sanders and Attachments Therefor; Kits Containing Electrically Operated Portable Grinders and Attachments Therefor; Kits Containing Electrically Operated Wrenches and Attachments Therefor; and Stands for Electrically Operated Drills to Convert a Portable Tool to a Bench Tool.  
 Use since Dec. 21, 1921.

SN 681,055. Arco Manufacturing Corporation, Cincinnati, Ohio. Filed Feb. 4, 1955.



For Radio and Television Receivers.  
 Use since March 1950.

SN 681,059. Bell & Howell Company, Chicago, Ill. Filed Feb. 4, 1955.

# TDC

For Electric Tape Sound Recorders and Reproducers.  
 Use since December 1953.



For Electric Fans.  
 Use since Dec. 21, 1954.

SN 681,165. The Hoover Company, North Canton, Ohio.  
 Filed Feb. 7, 1955.

# IPXIE

For Suction Cleaners and Parts Therefor.  
 Use since Jan. 7, 1954.

SN 681,166. The Hoover Company, North Canton, Ohio.  
 Filed Feb. 7, 1955.

# Lark

For Suction Cleaners and Parts Therefor.  
 Use since Feb. 8, 1954.

SN 681,352. G. M. Giannini & Co. Inc., Pasadena, Calif.  
 Filed Feb. 9, 1955.

# MAGSEAL

For Magnetic Switches and Relays.  
 Use since July 30, 1954.

SN 681,457. Sprague Electric Company, North Adams, Mass.  
 Filed Feb. 10, 1955.

# AUTOCON

For Electrical Capacitors.  
 Use since Jan. 18, 1953.

### CLASS 22

SN 624,524. J. Baron & Co., Outremont, Quebec, Canada.  
 Filed Feb. 5, 1952.

# "TUMBLEJOY"

Applicant claims ownership of Canada Reg. No. N. S. 39,535,  
 dated Oct. 5, 1951.  
 For Tumbling Toys.

SN 656,237. Louis Marx & Company, Inc., New York, N. Y. Filed Nov. 12, 1953.  
 SN 676,888. Clyde K. Goto, Los Angeles, Calif. Filed Nov. 18, 1954.

# {FIRE} CHIEF

The drawing is lined for Gold, but color is not claimed as a feature of the mark. Applicant claims ownership of Reg. No. 304,705.

For Miniature Toy Autos Too Small to Ride Upon.  
 Use since February 1933.

SN 656,956. Leroy A. Kling, Jr., d. b. a. Federal Products Company, Evanston, Ill. Filed Nov. 25, 1953.

# STROKOSCOPE

For Concentrating Attachment for Golf Putters to Aid the Player in Making Proper Contact With the Golf Ball and Correct Improper Movement of the Putter Blade.  
 Use since Nov. 3, 1953.

SN 664,772. Marford Industries, Dallas, Tex. Filed Apr. 19, 1954.

# Marford

For Toys and Sporting Goods—Namely, Toy Punching Bags.  
 Use since May 1, 1953.

SN 665,559. Central Wholesale Company, Boise, Idaho.  
 Filed May 3, 1954.

# SUN VALLEY

For Outdoor Sleeping Bags.  
 Use since Dec. 1, 1953.

SN 665,733. Sté. Africaine de Distribution et de Commission, Société Anonyme, Casablanca, Morocco. Filed May 4, 1954.

# "taotl"

For Playing Cards.  
 Use since Mar. 15, 1954.

# Clyde's

# CLOBBER

For Fishing Jig.  
 Use since Aug. 1, 1954.

### CLASS 23

SN 632,876. The Clement Company, Northampton, Mass.  
 Filed July 22, 1952. Sec. 2(f) as to "Clement."

# Clement DELVYNWARE

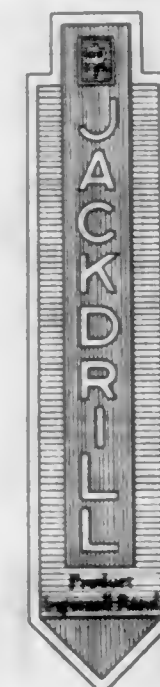
For Carving Knives and Forks, Kitchen Knives and Forks, and Table Knives, Forks, and Spoons, All of Non-Precious Metal and Having Handles of Wood, Horn, Porcelain, Bone, Plastic, or Similar Non-Precious Metallic Materials.  
 Use since Feb. 28, 1949; and 1880 as to "Clement."

SN 641,102. Toro Manufacturing Corporation of Minnesota, Minneapolis, Minn. Filed Jan. 21, 1953.

# Whirlwind

Applicant claims ownership of Reg. No. 336,433.  
 For Electric Lawn Mowers.  
 Use since Jan. 14, 1953.

SN 649,368. Ingersoll-Rand Company, Phillipsburg, N. J.  
 Filed June 25, 1953. Sec. 2(f) as to "Ingersoll-Rand."



The drawing is lined for red and blue. The word "Product" is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 577,554.  
 For Rock Drills With Feed Leg.  
 Use since Nov. 17, 1952; and since Jan. 1, 1906, as to "Ingersoll-Rand."



SN 656,393. Dortmund-Hörder Hüttenunion Aktiengesellschaft, Dortmund, Germany. Filed Nov. 16, 1953.



Applicant claims ownership of German Reg. No. 227,209, dated Oct. 31, 1918.

For Machinery and Parts of Machinery, Non-Electric—Namely, Locomotives; Steam and Gas Engines, Turbine Engines; Dredgers, Rinsers, Driving Bars, Axle Sleeves, Cylinders, Pistons and Crossheads, Crank Shafts and Connecting Rods; Air Pumps, Water Pumps, Oil Pumps, and Pumps and Other Machinery Used for Field Irrigation; Steel Balls, Transmission Tubes, Differential Tubes; High-Pressure Flanges, Fly-Wheels; Ship's Auxillary Machinery—Namely, Winches, Windlasses, Donkey Engines, Machinery for Lowering Boats, Hoist Booms and Masts, Stabilizers, Bilge Pumps; Skip or Mine Truck Gear, Pressure Polishing Apparatus for Polishing Axle Journals; Tools and Parts Thereof—Namely, Hammers, Tongs, Wrenches, Screw Drivers, Chisels, Draw Plates, Draw Rods, Draw Dies, Stamps and Stamping Dies, Soldering Irons, Pulleys.

SN 656,718. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Nov. 20, 1953.

**Kleen-Ezy**

Applicant claims ownership of Reg. No. 419,029. For Barn Cleaners—Namely, Litter Carriers, Conveying Systems, Loaders, Loading Elevators, and Parts Thereof. Use since Dec. 31, 1951.

SN 658,503. Allis-Chalmers Manufacturing Company, West Allis, Wis. Filed Dec. 24, 1953.

**BAL-PAK**

For Rolling Contact Bearings. Use since June 11, 1952.

SN 663,121. Quik Products Company, Queens Village, N. Y. Filed Mar. 23, 1954.

**QUIK-TAC**

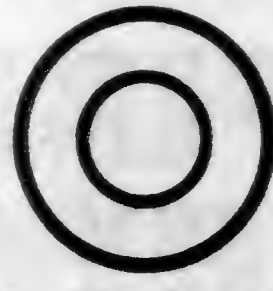
For Hand Tool for Inserting, Removing, and Storing Thumbtacks. Use since Jan. 7, 1954.

SN 663,891. Marvin Ellis, d. b. a. Marvin Ellis Machinery Co., Guthrie, Okla. Filed Apr. 5, 1954. The mark is "Memco."

**Memco**

For Rotary Scrapers and Bulldozers for Attachment to Tractors; for Proportioners and Mixers for Mixing Drilling Mud; and for Sign Erection Cranes. Use since 1946.

SN 664,931. Firma Ferdinand Bernhard Schmetz, Herzogenrath, near Aachen, Germany. Filed Apr. 21, 1954.



Priority under Sec. 44(d). German application No. Sch. 5374/23 Wz., filed Oct. 29, 1953, Reg. No. 653,386, dated Feb. 13, 1954.

For Sewing Machine Needles.

SN 665,983. The Aetna-Standard Engineering Company, Pittsburgh, Pa. Filed May 10, 1954.



For Nodular Iron Rolls for Rolling Mills. Use since May 1953.

SN 666,119. The Maroth-Kennedy Corporation, Greenwich, Conn. Filed May 11, 1954.

**Marken**

For Typewriter Balls. Use since Dec. 23, 1953.

SN 666,563. The Wyatt Manufacturing Co., Inc., Salina, Kans. Filed May 17, 1954.



For Portable Elevating and Conveying Machines. Use since Mar. 13, 1953.

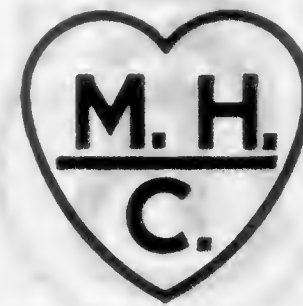
SN 666,621. Barnes Drill Co., Rockford, Ill. Filed May 19, 1954.



Applicant claims ownership of Reg. Nos. 524,063 and 524,919.

For Machine Tools for Finishing Holes. Use since January 1953.

SN 672,864. Blech- und Metallwarenfabrik Schütz & Patry, Vienna, Austria. Filed Sept. 8, 1954.



Applicant claims ownership of Austrian Reg. No. 315, dated Jan. 11, 1915.

For Knives, Forks, and Spoons for Household Use.

SN 674,575. General Motors Corporation, Detroit, Mich. Filed Oct. 11, 1954.

**Strato Streak**

For Internal Combustion Engines and Parts Thereof. Use since Aug. 30, 1954.

SN 674,794. Bloomfield Industries, Inc., Chicago, Ill. Filed Oct. 14, 1954.

**BI-COR**

For Housewares—Namely, Ladles, Forks, Spoons, Cake Turners, Spatulas, Potato Mashers, Ice Cream Dishes, Barbecue Spoons, Barbecue Cake Turners, Cocktail Spoons, and Cocktail Forks. Use since Mar. 1, 1954.

SN 674,895. Kliklok Corporation, New York, N. Y. Filed Oct. 15, 1954.

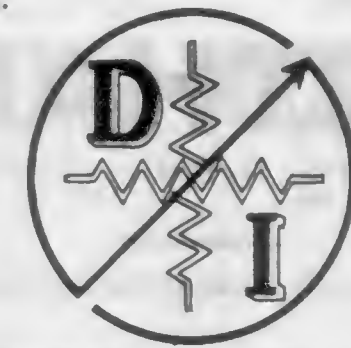
**KLIKLOK**

For Machines for Setting Up Blanks of Flexible Sheet Material into Receptacle Form, Machines for Forming and Transferring Sheet Material into Simultaneously or Previously Formed Receptacles, and Machines for Inserting Articles of Merchandise into a Simultaneously or Previously Formed Receptacle. Use since February 1945.

SN 675,676. Wall Trading Corporation, New York, N. Y. Filed Oct. 28, 1954.



For Household Utensils—Namely, Egg Slicers, Apple Corers, Cherry and Olive Pitters, French Fried Potato Cutters, Ice Cream Scoops, Garlic Presses, Ice Crushers, Cork Screws, Potato Graters, Nut Graters, Slotted Spoons and Turners, Coffee Mills, Pepper Mills, Cookie Rollers, Tomato Slicers, Vegetable Graters, Melon and Potato Ballers, and Juice Extractors. Use since Sept. 1, 1954.



For Drive Gear and Housing Assembly. Use since Sept. 29, 1954.

SN 677,656. George E. Hughes, San Diego, Calif. Filed Dec. 2, 1954.

**PULLET PUNCH**

Applicant disclaims the word "Punch" apart from the mark as shown. For Impact Tools—Namely, Punches. Use since May 24, 1949.

SN 677,704. Electric Regulator Corporation, Norwalk, Conn. Filed Dec. 3, 1954.

**AIRPOT**

For Dashpots. Use since Apr. 26, 1954.

SN 677,801. C. W. Mott—Research Engineers, Brookfield, Ill. Filed Dec. 6, 1954. Sec. 2(f).

**HAMMER KNIFE**

For Lawnmowers. Use since May 28, 1949.

SN 678,026. The Fate-Root-Heath Company, Plymouth, Ohio. Filed Dec. 9, 1954.

**BUCKEYE**

For Power-Driven Manually-Portable Endless-Chain Wood Saws, Cutting Chains for Endless-Chain Wood-Cutting Saws, and Replaceable Cutter Inserts for Such Cutting Chains. Use since Sept. 13, 1954.

SN 678,053. Standard Packaging Corporation, Jersey City, N. J. Filed Dec. 9, 1954.



For Bag Sealing Machine. Use since Nov. 24, 1954.



SN 678,183. Astor Equipment Corporation, New York, N. Y. Filed Dec. 13, 1954. SN 678,871. The Lees-Bradner Company, Cleveland, Ohio. Filed Dec. 23, 1954.

## GOTHAM

For Household Sewing Machines.  
Use since Oct. 18, 1954.

SN 678,471. Marlon M. Parsons, Webster Groves, Mo. Filed Dec. 16, 1954.

## PAR-THATCHER

For Grass Cutting Apparatus Adapted for Attachment to Grass Mowers.  
Use since Oct. 15, 1954.

SN 678,726. Joseph E. Klenel, d. b. a. Specialty Mfrs. & Sales Co., Acworth, Ga. Filed Dec. 21, 1954.

## INSPECTOMATIC

For Apparatus for Turning and Stacking Hosiery.  
Use since on or about Dec. 1, 1953.

SN 678,778. John A. Eberly, Inc., Mohnton, Pa. Filed Dec. 22, 1954.



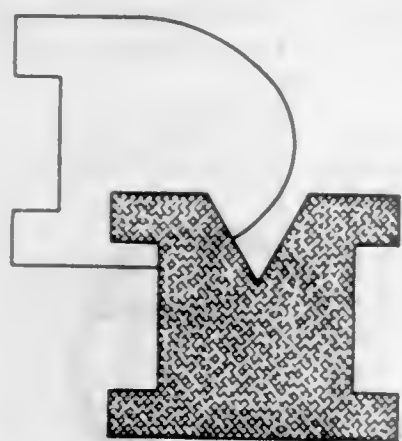
Applicant claims ownership of Reg. No. 321,662.  
For Scissors.  
Use since on or about Aug. 18, 1950.

SN 678,808. Fayette R. Plumb, Inc., Philadelphia, Pa. Filed Dec. 22, 1954.

## PERMABOND

For Hammers, Hatchets, Axes, Sledges, Mauls, and Chisels.  
Use since Dec. 1, 1954.

SN 678,844. Di Machine Corporation, Chicago, Ill. Filed Dec. 23, 1954.



The drawing is lined for orange, however, no claim is made to any specific color as a feature of the mark.  
For Die and Punch Presses.  
Use since Nov. 24, 1954.



Applicant claims ownership of Reg. No. 385,375.  
For Machine Tools—Namely, Hobbing Machines and Parts Thereof.  
Use since Sept. 17, 1954.

SN 679,084. Cummins Engine Company, Inc., Columbus, Ind. Filed Dec. 29, 1954.

## PT

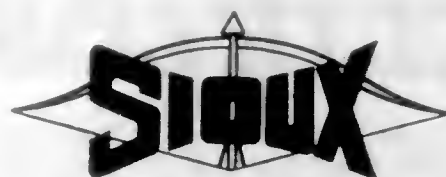
For Fuel Systems for Diesel Engines, Including Fuel Pumps and Fuel Injectors, and Parts Thereof.  
Use since Nov. 8, 1954.

SN 679,250. R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Filed Dec. 31, 1954.

## CIRCE

For Stainless Steel Flatware, i. e., Knives, Forks, and Spoons.  
Use since Dec. 27, 1954.

SN 679,703. Albertson & Company, Inc., Sioux City, Iowa. Filed Jan. 11, 1955.



Applicant claims ownership of Reg. No. 396,753 and of the mark shown in Nos. 112,607 and 130,599.

For Hand Valve Grinders, Metal Spray Guns, Flexible Shafts and Attachments Therefor, Work Heads, Legs and Casters for Stands, Chuck Keys, Hole Punches, Socket Wrenches, Pilot Wrenches, Valve Stem Guide Cleaners, Valve Stem Guide Reamers, Valve Seat Indicators, Valve Seat Insert Tools and Accessories, Valve Seat Grinding Sets and Supplies, Ring-Installing Fixtures, Valve Seat Ring Tool Sets, Ring Tool Drive Units, Ring Tool Automatic Feed Screws, Ring Rolling Tools, Peening Tools, Guards, Stands, Chucks, Feed Screws for Reamers, Ratchet Wrenches, Hammers, Valve Seat Reamers, Feed-Screws, Ring Tool Pilot Shanks, Valve Seat Ring Cutters and Blades, Ring Drivers, Valve Seat Rings, High Speed Hole Saws and Arbors Therefor, and Tire Rasps.  
Use since Mar. 15, 1915.

SN 679,726. Gaunt Industries, Chicago, Ill. Filed Jan. 11, 1955.

## "HYPO-OILER"

For Oilers.  
Use since Nov. 13, 1948.

SN 679,755. Beloit Iron Works, Beloit, Wis. Filed Jan. 12, 1955. Sec. 2(f).

## BELOIT

Applicant claims ownership of Reg. Nos. 371,917, 371,918, and 566,846.

For Paper Making Machinery—Namely, Headboxes, Presses, Dryer Sections, Calenders, Reels, Winders, and Cutters.  
Use since in the year 1935.

SN 679,861. Remington Rand Inc., New York, N. Y. Filed Jan. 13, 1955.

## TRANSCOPY

For Paper Dispensers—Namely, Hand Operated, Spring Controlled Paper Dispensers for Ejecting a Single Sheet of Sensitized Paper.  
Use since Nov. 4, 1954.

SN 679,881. Appleton-Atlas Car Mover Corp., Milwaukee, Wis. Filed Dec. 9, 1954.



No claim is made to the exclusive use of the representation of a car mover. Applicant claims ownership of Reg. Nos. 77,477, 571,834, and others.

For Manually Operable Car Movers.  
Use since on or about Feb. 2, 1934.

SN 679,964. A. B. T. Manufacturing Corp., Chicago, Ill. Filed Jan. 17, 1955.



The drawing is lined for red. No claim is made to the address "Chicago, U. S. A."  
For Vending Machines, Coin Changers, and Coin Chutes.  
Use since Oct. 15, 1926.

SN 680,133. Disabled American Veterans, Inc., Cincinnati, Ohio. Filed Jan. 19, 1955.

## IDENTO-DOUSER

For Fire Extinguisher.  
Use since Nov. 26, 1954.

SN 680,277. I-Snips Distributing Co., Rye, N. Y. Filed Jan. 21, 1955.

## I-SNIPS

For Cross-Handle Ice Breaker and Tongs for Table Use.  
Use since Oct. 22, 1954.

SN 680,793. Frank J. Pahl, d. b. a. F. J. Pahl Co., Lidgerwood, N. Dak. Filed Jan. 31, 1955.

## ROCK-A-BYE

For Stone and Rock Trap for Combines.  
Use since Jan. 25, 1955.

### CLASS 24

SN 667,424. The National Marking Machine Company, Cincinnati, Ohio. Filed June 1, 1954.

## National

Applicant claims ownership of Reg. No. 370,691.  
For Laundry Conveyors, Laundry Tables for Marking, Sorting, and Handling Articles To Be Laundered and Seam Dampener Machines.  
Use since sometime in November 1928 on laundry tables for marking, sorting, and handling articles to be laundered.

SN 668,881. Wiley Enterprises, Inc., Sunnyvale, Calif. Filed June 24, 1954.

## BLOK-RITE

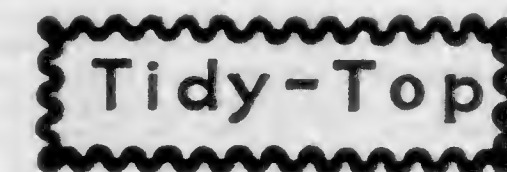
For Apparel Cleaning and Pressing Apparatus, Particularly Knitwear Such as Sweaters.  
Use since Dec. 11, 1953.

SN 672,697. Solar Corporation, d. b. a. Beam Manufacturing Company, Webster City, Iowa. Filed Sept. 2, 1954.

## SYNCRD-MATIC BALANCE

For Household Clothes Washing Machines.  
Use since Aug. 12, 1954.

SN 673,675. Joyce Neely, St. Clair Shores, Mich. Filed Sept. 23, 1954.



For Fabric Slip Covers for Ironing Boards.  
Use since Aug. 1, 1954.



SN 674,043. The American Laundry Machinery Company, Cincinnati, Ohio. Filed Sept. 30, 1954.

**Truclear**

Applicant claims ownership of Reg. No. 575,732. For Dry Cleaning Filters. Use since May 10, 1954.

SN 680,363. Central Rubber and Steel Corporation, Findlay, Ohio. Filed Jan. 24, 1955.

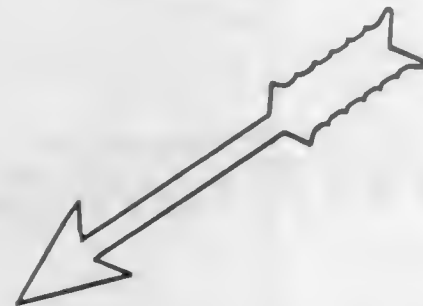
**Monarch**

For Washing Machines. Use since on or about May 16, 1953.

#### CLASS 25

SN 678,730. S. H. Kress and Company, New York, N. Y. Filed Dec. 21, 1954.

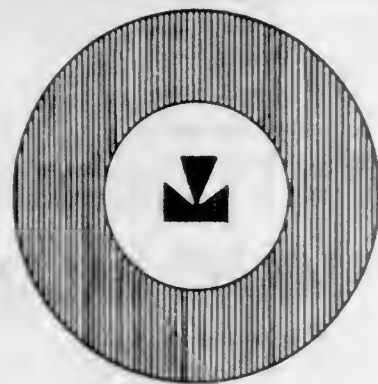
**DART**



Applicant claims ownership of the mark shown in Reg. Nos. 319,943 (expired), 594,390, and others. For Padlocks. Use since Mar. 1, 1933.

#### CLASS 26

SN 636,287. Hagan Corporation, Pittsburgh, Pa. Filed Oct. 7, 1952.



The drawing is lined for red and black. Applicant claims ownership of Reg. No. 414,834.

For Controlling, Signalling, Recording, and/or Measuring Instruments and Parts Thereof—Namely, Regulators and Controllers for Regulating and Controlling Pressure and Temperature as Well as Conditions Dependent Upon Pressure and Temperature, and Meters of the Recording Type, Indicating Type, or Integrating Type, the Foregoing Instruments Used Chiefly in Industrial Establishments and the Like. Use since Jan. 9, 1952.

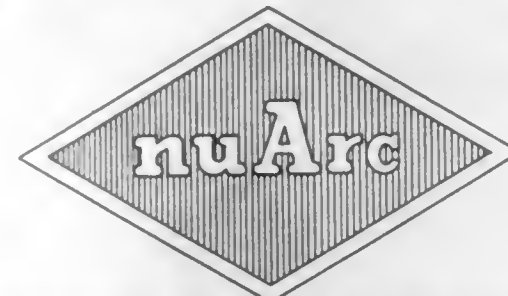
SN 639,536. Dr. Boeger K. G., Hamburg, Germany, now by change of name Lumoprint Zindler K. G. Filed Oct. 27, 1952.

**LUMO  
PRINT**

Applicant claims ownership of German Reg. No. 515,061, dated Aug. 26, 1939, and No. 515,017, dated Aug. 25, 1939.

For Photographic Appliances—Namely, Photocopying Apparatus for Handling and Reading Microfilm, Photocopying and Printing Apparatus, Transfer, Reproduction, Optical Tracing and Enlarging Apparatus, Developing Apparatus for Photographic Film and Paper, Developing and Exposing Apparatus, Film Copying Machines, Drying Presses, Cupboards and Reels, Containers for Developing, Fixing and Washing Liquids, Squeegees, Including Individual and Replacement Parts, Illuminating Lamps, Objectives and Film Mounting Presses, Photographic Papers, and Photographic Films.

SN 640,689. nuArc Co., Inc., Chicago, Ill. Filed Jan. 13, 1953.



No claim is made to the color for which the drawing is lined.

For Photographic Equipment—Namely, Arc Lamps, Arc Lamp Controls for Automatically Maintaining the Light Output of Such Arc Lamps Constant, Photometers for Use With Said Arc Lamps, Photographic Reflectors for Such Arc Lamps, Photographic Timers for Use With Such Arc Lamps for Timing Exposures to Light and Giving Either an Indication at the End of a Predetermined Time or Performing a Control Operation or Both, Automatic Exposure Control Mechanism for Use With Such Arc Lamps and Developing Accessories for Use With Such Arc Lamps for Developing Light Sensitive Film and Paper. Use since Apr. 18, 1949.

SN 647,267. Columbia Protokosite Company, Inc., Carlstadt, N. J., now by merger Curtiss-Wright Corporation. Filed May 19, 1953.



Applicant disclaims the words "Protects Your Sight" apart from the entire mark shown in the drawing. For Sun Glasses, Goggles, and Spectacles. Use since Oct. 1, 1952.

SN 648,158. Dennert & Pape, Hamburg-Altona, Germany. Filed June 3, 1953.

**AIRISTO**

Applicant claims ownership of West German Reg. No. 544,955, dated May 5, 1942. For Slide Rules and Similar Instruments.

SN 650,023. Academy of Natural Sciences of Philadelphia, Philadelphia, Pa. Filed June 25, 1953.

**CATHERWOOD DIATOMETER**

For Measuring Apparatus Used To Obtain an Index of Aquatic Life in a Stream. Use since May 20, 1953.

SN 654,968. Hills Bros. Coffee, Inc., San Francisco, Calif. Filed Oct. 19, 1953.

**"COFFEE-GUIDE"**

Applicant claims ownership of Reg. No. 322,133. For Coffee Measure. Use since June 22, 1934.

SN 656,542. Brooks Rotameter Company, Lansdale, Pa. Filed Nov. 18, 1953. Sec. 2(f).

**FULL-VIEW**

For Variable Area Flowmeters for Measuring, Indicating, Recording, and Controlling the Flow of Fluids. Use since Feb. 28, 1946.

SN 658,098. Central States Specialties Inc., Chicago, Ill. Filed Dec. 17, 1953.

**METER MINDER**

For Visual Timer Adapted To Be Carried in the Hand, Pocket, or Purse and Settable To Indicate Expiration of a Predetermined Time Interval. Use since Nov. 25, 1953.

SN 658,687. Wirecraft Jewelry Company, Long Island City, N. Y. Filed Dec. 28, 1953.



For Photographic Cameras. Use since February 1948.

SN 662,683. Stansel Scientific Company, Chicago, Ill. Filed Mar. 15, 1954.

**STANSI**

Applicant claims ownership of Reg. No. 548,983.

For Scientific Apparatus and Appliances, for Chemical, Clinical, Industrial and School Science Laboratories—Namely, Source of Light Apparatus, Optical Discs, Magnetizers, Balances and Weights, Pneumatic Troughs, Jars, Burettes, Centrifuges, Scientific Charts, Clamps, Condensers, Desiccators, Eudiometers, Stirring Rods, Graduates, Pipettes, Retorts, Hydrometers, Thermometers, Tripods, Mineral Collections, Projectors and Microscopes, Delineoscopes and Screens, Dissecting Sets, Botanical Specimen Mounts, Magnifiers, Preserved Zoological Materials, Calipers, Liter Blocks and

Cases, Rulers, Protractors, Slide Rules, Gyroscopes, Inclined Planes, Pendulums, Demonstration Pulleys, Barometers, Hygrometers, Vacuum Gauges, Calorimeters, Linear Expansion Demonstration Apparatus, Thermostats, Conductometers, Compasses, Electromagnets, Helices, Magnets, Electroscopes, Leyden Jars and Static Machines, Wire Current Electricity and Induction Demonstration Apparatus, Galvanometers, A. C. and D. C. Meters, Resistance Boxes, Wheatstone Bridges and Resistance Coils, Rheostats, Tuning Forks and Sound Apparatus, Lenses, Photometers and Optical Light Apparatus, Diffraction Grating and Reflection Replicas, Molecular Models and Blocks, Millimeters, Drying Racks and Test Tube Supports, Demonstration Motor Generators, Static Machines, Light Meters, and Stroboscopes. Use since about October 1928.

SN 662,955. Jacob Schultz, d. b. a. Schultz Surgical Instrument Co., New York, N. Y. Filed Mar. 19, 1954.



For Microscopes. Use since Sept. 1, 1953.

SN 668,503. Siemens & Halske Aktiengesellschaft, Munich, Germany. Filed June 18, 1954.



Applicant claims ownership of German Reg. No. 337,261, dated Aug. 3, 1925; and of the mark shown in U. S. Reg. No. 244,846.

For Electrical Measuring and Testing Equipment, Namely: Electrical Precision Measuring Instruments; Wattmeters; Ammeters and Voltmeters, Galvanometers; Electrometers; Oscilloscopes; Compensators; Measuring Bridges and Precision Rheostats; Current and Voltage Transformers for Measuring Purposes; Measuring Instruments for Telecommunication Engineering; Teleprinter Testing Apparatus; Metering Apparatus for the Automatic Registration, Compensation, and Indication of Telephone Call Charges; Ink Recorders; Telemetering Apparatus; Portable Industrial Measuring Instruments; Insulation and Ground-Connection Testing Devices; Wood Humidity Meters; Test Benches for the Testing of Electricity Meters and Other Electrical Instruments, Circuit Components and Electrical Machines; Ferrometers for the Examination of Iron; Equipment for Electrical Calibration; Experimental Laboratory Equipment for Institutes and Colleges; Electrical Instruments for Caloric Measuring; Electric Temperature Measuring Instruments; Psychrometers; Instruments for Gas Analysis and Conductivity Measurements; Volume Meters for Fluids; Pressure Gauges; Electric Level Meters; Regulators for Temperature, Pressure, Volume, and Level of Liquids; Industrial Testing Equipment; Dynamometers; Testing Transformers; Measuring Instrument Panels, Electric Meter Panels; Electron Microscopes; Apparatus for Photographic Film Processing; Automatic Photocopying Equipment; Moving Picture Projectors With and Without Reproduction of Sound; Axle Counting Devices for Railroads.



SN 668,513. Arma Corporation, Garden City, N. Y., now by change of name American Bosch Arma Corporation. Filed June 21, 1954.



For Navigation Instruments—Namely, Gyroscopes Including Gyro Compasses and Stable Verticals, Dead Reckoning Apparatus; Calculating Instruments—Namely, Electromechanical Computers, Electrical Resolvers, Potentiometers, Differentials, and Parts Therefor.  
Use since May 3, 1954.

SN 670,720. Belock Instrument Corporation, College Point, N. Y. Filed July 28, 1954.



For Bomb Sights; Gyroscopes; Gun Fire Control Computers and Directors; Electrical Computers; Instrument Dial Assemblies.  
Use since Sept. 15, 1952.

SN 674,506. The Foxboro Company, Foxboro, Mass. Filed Oct. 8, 1954.

# ROTAX

Applicant claims ownership of Reg. No. 318,008.  
For Controlling Instruments, That Is To Say, Mechanisms for Automatically Controlling an Operation Responsively to the Fluctuations of a Variable Condition.  
Use since on or about June 1932.

SN 674,919. Agfa Camera-Werk Aktiengesellschaft, Munich, Germany. Filed June 9, 1954.

# SILETTE

Applicant claims ownership of German Reg. No. 609,678, dated July 26, 1951.  
For Photographic and Cinematographic Apparatus, Parts Thereof, and Auxiliary Equipment.

SN 675,139. Farrand Optical Co., Inc., New York, N. Y. Filed Oct. 20, 1954.

# INDUCTOSYN

For Electrical Apparatus for the Measurement of Angles and of Linear Displacements.  
Use since Sept. 10, 1954.

SN 675,263. John J. Crowley, Atlanta, Ga. Filed Oct. 22, 1954.

# DOWLRITE

For Pocket Calculator.  
Use since Oct. 4, 1954.

SN 675,352. Aremac Associates, Pasadena, Calif. Filed Oct. 25, 1954.

# Aremac

For Photographic Equipment, Recording Equipment and Accessories—Namely, Cameras, Projectors, Data Cameras, Oscilloscope Cameras, Fixtures for Optical Instruments, Navigational Instruments, Optical Instruments, Telescopes, Collimators, Potentiometer Components, and Servo-Mechanism Components.  
Use since May 15, 1952, on cameras.

SN 675,453. Theodore E. Welchelbaum, d. b. a. Hemoterm Scientific Company, Normandy, Mo. Filed Oct. 25, 1954.

# HEMOTERM

For Cuvettes Used in Quantitative and Qualitative Analyses.  
Use since Oct. 12, 1954.

SN 675,959. Bell & Howell Company, Chicago, Ill. Filed Nov. 3, 1954.

# STEREO PROJECT-OR-VIEW

For Stereopticon Projectors.  
Use since December 1953.

SN 675,960. Bell & Howell Company, Chicago, Ill. Filed Nov. 3, 1954.

# ShowPak "300"

For Stereopticon Projectors.  
Use since December 1952.

SN 675,962. Bell & Howell Company, Chicago, Ill. Filed Nov. 3, 1954.

# Mainliner 300"

For Stereopticon Projectors.  
Use since January 1951.

SN 676,456. Atomic Instrument Company, Cambridge, Mass. Filed Nov. 12, 1954. Sec. 2(f).

# MULTISCALER

For Computing Device.  
Use since Dec. 2, 1948.

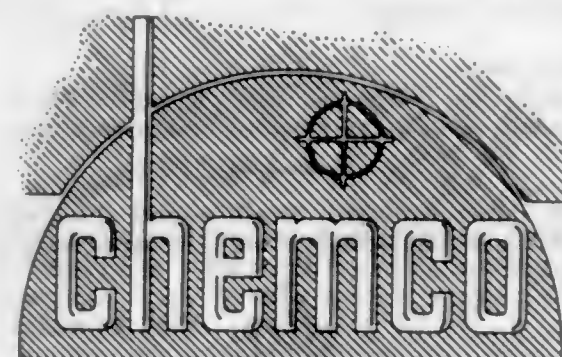
SN 676,541. Shuron Optical Company, Inc., Geneva, N. Y. Filed Nov. 12, 1954.

# RONLORD

Applicant claims ownership of Reg. Nos. 377,228, 589,384, and others.

For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.  
Use since Aug. 30, 1954.

SN 677,393. Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Filed Nov. 29, 1954.



The drawing is lined to represent the color green, and the lining outside the circle represents a portion of the background of the label, no claim being made to the background color apart from the combination shown on the drawing. Applicant claims ownership of Reg. Nos. 353,510 and 551,215.

For Photographic Film Sold in the Form of Rolls and Sheets for Photomechanical and Other Photographic Use.  
Use since July 1953; and Jan. 1, 1920, as to "Chemco."

SN 679,266. Beckman Instruments, Inc., Fullerton, Calif. Filed Jan. 3, 1955. Sec. 2(f).

# BECKMAN

Applicant claims ownership of Reg. No. 596,937.  
For Recording and Nonrecording Spectrophotometers Operating in the Visible, Ultraviolet, or Infrared Ranges of the Spectrum; Monochromators; Accessories for Spectrophotometers Sold Separately Therefrom—Namely, Flame Photometry Attachments, Fluorescence and Nephelometry Attachments, Diffuse Reflectance Attachments for Measuring the Diffuse Reflectance of Opaque Samples, Recording Attachments for Converting Nonrecording Spectrophotometers to the Recording Type, Gas and Liquid Sample Absorption Cells, Photo-Multiplier Attachments for Increasing Sensitivity, Temperature-Controlling Bath Equipment for Thermostating Spectrophotometric Apparatus, Gas Handling Accessories for Measuring and Purifying Gas Samples and Conducting Such Samples to the Sample Cells of Infrared Spectrophotometers; pH Meters; Automatic Titrators for Performing Potentiometric and Dead-Stop Titrations; Colorimeters for Analyzing Samples by Measurement of a Characteristic Color Absorption and for Making Such Measurements Continuously on Flowing or Static Liquid or Gaseous Samples; Chart Recorders for Recording Galvanometer Mirror and Other Torsion-Mirror Deflections; Ohmmeters; Vacuum Tube Electrometers; Micro-Microammeters; Electro-Phoresis-Convection Apparatus for Protein Fractionation; Analog Computers; Electronic Analog-to-Digital Converters; Control Knobs for Angularly Adjusting and Measuring the Position of a Shaft; and Component Parts of Each of the Foregoing Sold Separately Therefrom.  
Use since October 1935 on pH meters.

# MAXIVISION

For Dials.  
Use since Dec. 6, 1954.

SN 679,416. Société Anonyme Dite: Distribution Internationale Cinématographique (D I C), Paris, France. Filed Jan. 4, 1955.

# cinépanoramic

Applicant claims ownership of French Reg. No. 429,137, dated June 19, 1953.  
For Lenses for Shooting and Projecting Panoramic Moving Pictures.

SN 679,533. Peerless Photo Products, Inc., Shoreham, N. Y. Filed Jan. 6, 1955.



Applicant claims ownership of Reg. No. 597,350.  
For Photo Copying Machines, Including Photo Printing Machines, Photo Processing Machines and Combination Photo Printing and Processing Machines.  
Use since Sept. 18, 1953.

SN 679,607. Robertson Photo-Mechanix, Inc., Chicago, Ill. Filed Jan. 7, 1955. Sec. 2(f) as to "Robertson."

# Robertson 320

For Cameras.  
Use since on or about Sept. 14, 1954; and since in or about 1917 as to "Robertson."

CLASS 27

SN 682,817. Saxony Watch Co., New York, N. Y. Filed Mar. 17, 1954.

# MARINER

For Watches.  
Use since Nov. 11, 1953.



SN 676,890. Hammel, Riglander & Co. Inc., New York, N. Y.  
Filed Nov. 18, 1954. Sec. 2(f).

## SOUTH BEND

Applicant claims ownership of Reg. No. 439,261.  
For Parts for Watches and Clocks.  
Use since Nov. 15, 1931.

### CLASS 28

SN 666,690. Bernhard J. Sherman, d. b. a. Gibraltar Trading Company, New York, N. Y. Filed May 19, 1954.



The representation of the goods per se is disclaimed.  
For Cultured Pearls.  
Use since Mar. 1, 1954.

SN 673,592. Hickok Manufacturing Co. Inc., Rochester, N. Y.  
Filed Sept. 22, 1954.

## DIAMON-GOL

For Articles of Jewelry—Namely, Necktie Holders, Cuff Links, Collar Holders, Key Chains, Shirt Studs, Watch Chains, and Money Clips.  
Use since May 25, 1954.

SN 674,684. Gladys Leslie Moore, New Rochelle, N. Y. Filed Oct. 12, 1954.

*Bab's*

*Kiddie and Doll Jewelry*

Applicant disclaims the words "Kiddie and Doll Jewelry" apart from the mark as shown.

For Jewelry—Namely, Doll Jewelry and Children's Costume Jewelry.  
Use since Oct. 1, 1954.

### CLASS 29

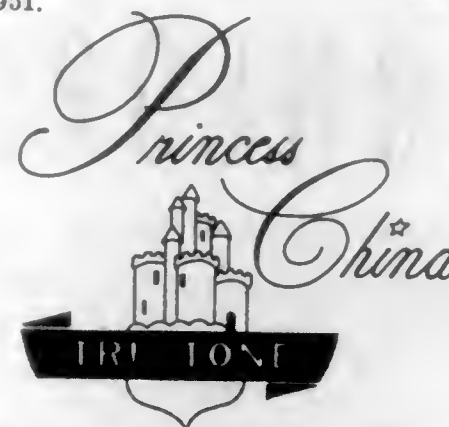
SN 658,055. E Z Paint Corporation, Milwaukee, Wis. Filed Dec. 16, 1953.

## BAL-LOK

For Paint Rollers and Extension Handles for Paint Rollers.  
Use since Dec. 4, 1953.

### CLASS 30

SN 622,702. Empire Crafts Corporation, Newark, N. Y. Filed Dec. 19, 1951.



Without surrendering any of applicant's commonlaw rights to the words "China" and "Tru-Tone," for purposes of this registration applicant disclaims "China" and "Tru-Tone."

For China Dishes.  
Use since Oct. 1, 1951; and since during the fall of 1945 as to "Princess China" and modified design of a castle.

SN 665,723. Porzellanfabrik Tirschenreuth, Zweigniederlassung der Lorenz Hutschenreuther Aktiengesellschaft Selbst,



Tirschenreuth, Bavaria, Germany. Filed May 4, 1954.  
The words "Bavaria Tirschenreuth" are disclaimed apart from the mark as shown.

For House and Kitchen Porcelain Ware—Namely, Dinner Sets, Coffee and Tea Service, After Dinner Coffee Service, Chocolate and Liquor Service, Egg Service; and Art Objects of Porcelain—Namely, Vases, Boxes, Dishes, and Decorated Plates.

Use since Jan. 1, 1947.

SN 673,717. Mary Phelan Baynes, Arlington, Va. Filed Sept. 24, 1954. Sec. 2(f).

*Mary Baynes*

The name "Mary Baynes" is applicant's own name.  
For Ceramic Artware and Tableware—Namely, Table China, Vases, Trays, and Planters.  
Use since November 1944.

### CLASS 31

SN 659,452. Air-Maze Corporation, Cleveland, Ohio. Filed Jan. 14, 1954.

## AUTOMAZE

Applicant claims ownership of Reg. Nos. 255,632 and 523,092.

For Automatically Cleaned Filters for Gaseous Streams, Comprising an Endless Filter Curtain Moving in an Orbit Which Includes Passage Through a Cleaning Bath.  
Use since December 1953.

SN 659,536. J. R. Dowdell & Co., Dallas, Tex. Filed Jan. 15, 1954. SN 677,946. Diamond Bros. Company, Trenton, N. J. Filed Dec. 8, 1954.



For Dust Filters for Ventilating Apparatus.  
Use since Sept. 16, 1953.

### CLASS 32

SN 663,278. Norman Fisher Hadley, d. b. a. Norman Fisher Hadley Displays, Buffalo, N. Y. Filed Mar. 25, 1954.



For Self-Contained Display Units Which Comprise Background Screens and Tables, and Which Form Their Own Shipping Cases.

Use since about Mar. 1, 1952.

SN 665,203. Paul Heinley, Santa Monica, Calif. Filed Apr. 26, 1954.



For Louvered Shutters Finished or Unfinished, for Forming Free Standing Screens, Panels, and Doors on Cabinets and Portable Wardrobe Closets, and Other Items of Furniture.  
Use since Mar. 18, 1953.

SN 673,551. Slumberland Products Co., Waltham, Mass. Filed Sept. 21, 1954.



For Mattresses, Bed Springs, and Studio Couches.  
Use since April 1954.

SN 674,670. G. & H. Wood Products Company, Brooklyn, N. Y., to G. & H. Wood Products Co. Inc., Brooklyn, N. Y. Filed Oct. 12, 1954.



The lining on the drawing represents the color brown.  
For Wood Cabinets for Phonograph, Radio, and Television and Kits for Making Cabinets.  
Use since July 1948.

TM 696 O. G.—8



For Living Room Furniture—Namely, Upholstered Chairs, Chair Beds, Bed Davenports, Sofas, Sofa Beds, and Ottomans.  
Use since November 1951.

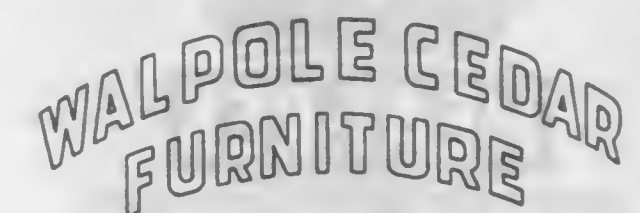
SN 677,997. The Shaw-Walker Company, Muskegon, Mich. Filed Dec. 8, 1954. Sec. 2(f).

## "Built Like a Skyscraper"

Applicant claims ownership of Reg. Nos. 535,589 and 557,058.

For Office Desks and Tables, Bookcases, Cupboards, Office Chairs and Filing Cabinets.  
Use since 1915.

SN 678,008. Walpole Woodworkers, Inc., Walpole, Mass. Filed Dec. 8, 1954. Sec. 2(f).



Applicant disclaims any exclusive right to the use of the words "Cedar Furniture" apart from the mark as shown.  
For Furniture.  
Use since January 1947.

### CLASS 33

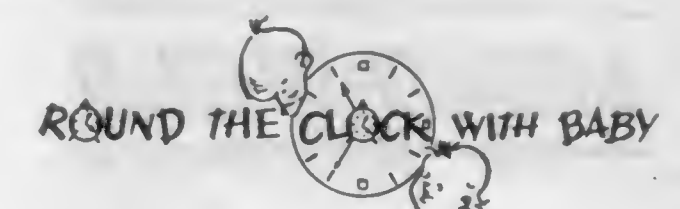
SN 674,817. The Hobart Manufacturing Company, Troy, Ohio. Filed Oct. 14, 1954.



Applicant claims ownership of Reg. Nos. 133,143 and 234,988.

For Glass Cullinary Equipment—Namely, Bowls, Mixing Bowls, and Containers for Receiving Ground Coffee.  
Use since July 28, 1937.

SN 675,981. Glasco Products Company, Chicago, Ill. Filed Nov. 3, 1954.



Applicant claims ownership of Reg. No. 428,145.  
For Clean-Up Jars and Nursery Jars Formed of Glass, and Jar and Tray Sets Composed of a Glass Jar and Plastic Tray Sold as a Unit.  
Use since on or about Jan. 1, 1947.



## CLASS 34

SN 629,962. Silent-Flame Manufacturing Co., Inc., New York, N. Y. Filed May 20, 1952. Sec. 2(f) as to "Silent-Flame."



For Oil Burners for Both Industrial and Domestic Use. Claims use since Feb. 27, 1951; and since 1945 as to "Silent-Flame."

SN 636,105. York-Shipley, Inc., York, Pa. Filed Oct. 2, 1952.



For Rotary Oil Burners, Gun-Type Oil Burners, Pressure-Type Boiler Units and Steam Boiler Units Including Said Burners, and Gas-Fired Boilers and Gas-Fired Furnaces for Residential Space Heating Purposes.

Use since Sept. 4, 1952, on pressure-type oil burners.

SN 650,619. The Alan E. Burden Company, Inc., Los Angeles, Calif. Filed July 22, 1953.

BURDCO

For Rotary Type Fan Blades and Hubs Therefor. Use since May 21, 1953.

SN 666,084. Young Radiator Company, Racine, Wis. Filed May 10, 1954. Sec. 2(f).



The drawing is lined for red and yellow. For Heat Transfer Units for Use in Cooling Water, Gas and/or Oil Involved in the Operation of Gas, Gasoline, and Diesel Engines, Transformer Oil Coolers, Torque Converter Oil Coolers, Gas Coolers, and Air Intercoolers. Use since Oct. 14, 1947.

SN 674,374. The Cleveland Heater Company, Cleveland, Ohio. Filed Oct. 6, 1954.

REXGLAS

For Domestic and Commercial Hot Water Heaters Operating on Either Natural, Manufactured, Mixed, or Liquefied Petroleum Gases, and Their Structural Parts. Use since on or about Sept. 15, 1954.

SN 674,640. United Aircraft Products, Inc., Dayton, Ohio. Filed Oct. 11, 1954.



Applicant claims ownership of Reg. Nos. 339,886, 595,323, and others.

For Heat Exchangers Interposed as Accessories in Engine Fuel Supply Systems or in Engine Lubricant Circulating Systems or Both To Warm the Fuel or To Cool the Lubricant or Both.

Use since Jan. 1, 1953.

SN 676,291. American Machine & Foundry Company, New York, N. Y. Filed Nov. 9, 1954.

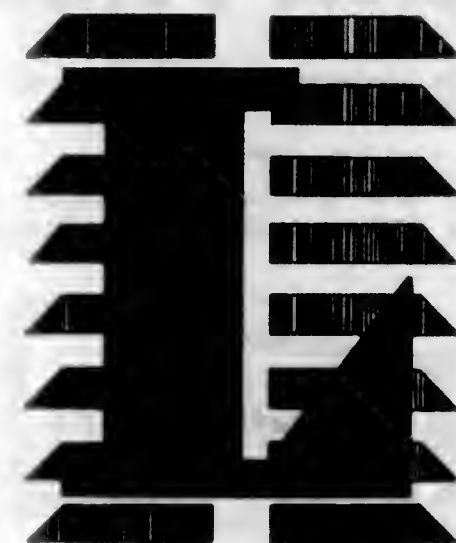


Applicant claims ownership of Reg. Nos. 168,740, 441,863, and others.

For Ovens.

Use since on or about Nov. 17, 1937.

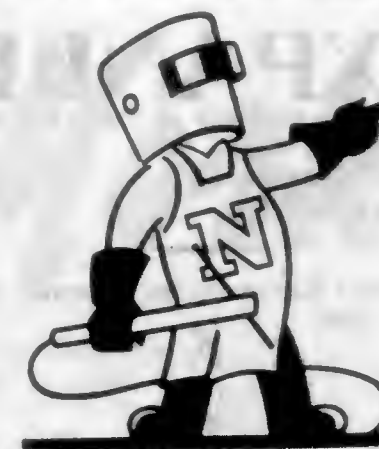
SN 677,328. The Louvra Corp., Union, N. J. Filed Nov. 26, 1954.



For Air Conditioning and Furnace Accessories, Particularly Base Boards and Floor Registers, Ventilating Registers, Ceiling Diffusers and Ventilating Grills.

Use since Dec. 10, 1953.

SN 677,671. Nooter Corporation, St. Louis, Mo. Filed Dec. 2, 1954. SN 671,649. Joseph Koss, Hollywood, Calif. Filed Aug. 13, 1954.



For Boilers, Tanks, Pressure Vessels, and Smokestacks. Use since 1951.

SN 678,133. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed Dec. 10, 1954.

Remembrance Lite

No claim is made to the word "Lite" apart from the mark as shown.

For Cemetery Lighting Units Adapted for Erection on Graves.

Use since May 20, 1950.

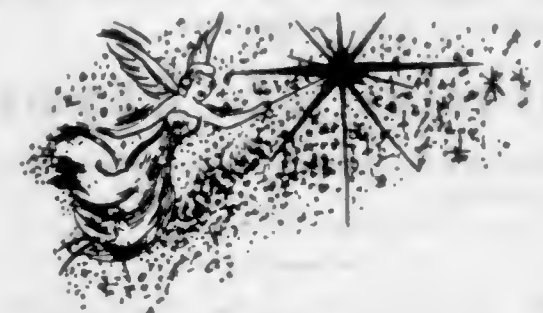
## CLASS 36

SN 653,404. Herbert R. Shriber, d. b. a. Russell Mfg. Co., Boston, Mass. Filed Sept. 18, 1953.



For Bindings for Phonograph Record Jackets. Use since Aug. 17, 1953.

SN 658,196. Mercury Record Corporation, Chicago, Ill. Filed Dec. 18, 1953.



For Grooved Phonograph Records. Use since Oct. 28, 1953.

SN 659,229. Robert J. Atkinson, d. b. a. Atkinson Music Company, Wichita, Kans. Filed Jan. 11, 1954.



The representation of the French horn is disclaimed apart from the mark as shown.

For Musical Instruments—Namely, French Horns and Accessories Therefor.

Use since Aug. 19, 1953.



For Mechanically Grooved Phonograph Records. Use since June 30, 1954.

SN 674,656. Arnold Brillhart, Carlsbad, Calif. Filed Oct. 12, 1954. Sec. 2(f).



Applicant disclaims the representations of a mouthpiece and reed apart from the mark as shown. Applicant claims ownership of Reg. No. 403,433.

For Mouthpieces, Protective Caps for Mouthpieces, Reeds, and Neck Straps for Wind Musical Instruments.

Use since Jan. 20, 1942, on mouthpieces and reeds.

SN 676,792. The Decca Record Company Limited, London, England. Filed Nov. 17, 1954.



For Grooved Phonograph Records. Use since Mar. 15, 1954.

SN 677,065. The Jazztone Society, Inc., New York, N. Y. Filed Nov. 22, 1954.



For Mechanically Grooved Records of the Disc Type. Use since Oct. 30, 1954.

SN 677,223. Imperial Accordion Manufacturing Co., Chicago, Ill. Filed Nov. 24, 1954.

Lindo

For Accordions. Use since 1949.



## CLASS 37

SN 651,864. Standard Oil Company of California, San Francisco, Calif. Filed Aug. 14, 1953.

**CHEVRON-MATIC**

Applicant claims ownership of Reg. No. 521,271.  
For Partially Printed Business Invoice Forms.  
Use since Jan. 28, 1953.

SN 660,101. Amberg File and Index Company, Kankakee, Ill.  
Filed Jan. 26, 1954.



Applicant claims ownership of Reg. Nos. 333,521, 420,369, and 509,603.

For Paper, Cloth, and Cardboard Files; Mounts for Photographic Negatives, Prints, and Films; Metal Tabs for File Guides; Indexing and Filing System Guides and Folders; Card Index Guides; Expansion Folders, Pockets and Jackets; File Folders; Photographic Albums; Paper Picture Frames; Bride and Baby Record Books; Paper Brief Covers; Rolls of Blank Labels; Transparent Sheet Protectors, Binder Covers for Loose Sheets, and Loose Leaf Ring Binders.

Use since on or about May 6, 1940, on paper, cloth, and cardboard files and mounts for photographic negatives, prints, and films.

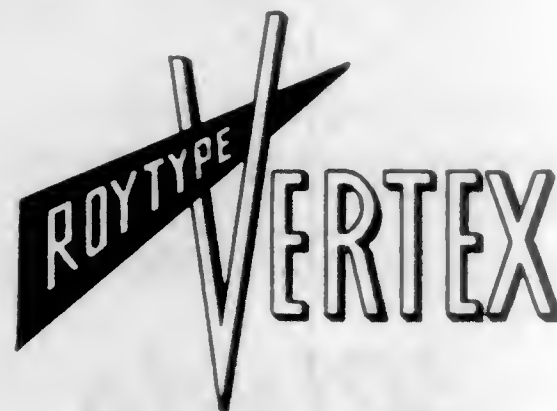
SN 664,782. The National Cash Register Company, Dayton, Ohio. Filed Apr. 19, 1954.



The phrase "No Carbon Required" and the word "Paper" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 366,465, 367,442, and 368,485.

For Coated Paper and Printed Forms on Coated Paper.  
Use since Mar. 26, 1954.

SN 665,646. Royal Typewriter Company, Inc., New York, N. Y., now by merger Royal McBee Corporation. Filed May 3, 1954.



Applicant claims ownership of Reg. No. 392,541.  
For Stencils.  
Use since March 1953.

SN 668,931. William D. Selbert, New York, N. Y. Filed June 25, 1954.

**EXPANDIT**

Applicant claims ownership of the trade-mark shown in Reg. No. 302,304, expired.  
For Binder for Magazines.  
Use since Apr. 1, 1932.

SN 675,483. Island Manufacturing Company, Brooklyn, N. Y. Filed Oct. 26, 1954.

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For Mechanical Pens and Pencils.  
Use since Aug. 12, 1953.

SN 676,309. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Filed Nov. 9, 1954.

**FIRST STEP**

Applicant claims ownership of Reg. No. 100,302, expired.  
For Lead Pencils, Colored Pencils, Copying Pencils, Ink Pencils, Mechanical Pencils, Rubber Erasers in Pencil Form, Rubber Erasers, and Penholders.  
Use since Oct. 23, 1913.

SN 676,398. Leon Olsen, d. b. a. National Diploma Company, Eden, N. Y. Filed Nov. 10, 1954.

**Bachelor of Rhymes**

For Kindergarten Diplomas and Writing Paper and Envelopes Therefor.  
Use since on or about Sept. 27, 1954.

SN 676,664. Robotyper Corporation, Hendersonville, N. C. Filed Nov. 15, 1954.



Applicant claims ownership of Reg. No. 530,088.  
For Sheet Material in the Form of Rolls or Strips of Paper or Related Material Which When Perforated in a Predetermined Manner Is Usable for Selectively Controlling the Operation of Pneumatically Actuated Typewriters and Business Machines.  
Use since Mar. 27, 1947.

SN 679,311. Name-Maker Corporation, New York, N. Y. Filed Jan. 3, 1955.



For Laundry Marking Pen.  
Use since Dec. 21, 1954.

SN 679,387. Bernice Gray, Indianapolis, Ind. Filed Jan. 4, 1955.

**BEE GEE CHEXETTE**

For Checkbooks, Checkbook Covers, and Pads of Printed Checks Therefor.  
Use since Nov. 16, 1954.

SN 679,564. Ditto, Incorporated, Chicago, Ill. Filed Jan. 7, 1955.

**CHEMOGRAPH**

For Paper for Duplicating Use.  
Use since Sept. 17, 1954.

SN 679,817. Frawley Corporation, Culver City, Calif. Filed Jan. 10, 1955.



For Ball-Point Fountain Pens.  
Use since Dec. 10, 1954.

SN 685,071. Norman Harrower, d. b. a. Linton Brothers & Company, Fitchburg, Mass. Filed Apr. 22, 1955.

**WACHUSETT**

Applicant claims ownership of the mark shown in Reg. No. 318,543.  
For Mill Blanks.  
Use since Jan. 1, 1925.

**ACCOUNTANTS**

Applicant claims ownership of the mark shown in Reg. No. 323,216.  
For Index Bristols.  
Use since Jan. 1, 1932.

SN 685,073. Norman Harrower, d. b. a. Linton Brothers & Company, Fitchburg, Mass. Filed Apr. 22, 1955.

**DURATAG**

Applicant claims ownership of the mark shown in Reg. No. 355,529.  
For Tag Board and Cardboard, for the Manufacture of Shipping Tags and Folders.  
Use since Feb. 1, 1937.

## CLASS 38

SN 671,953. National Tool & Die Manufacturers Association, Cleveland, Ohio. Filed Aug. 19, 1954. Sec. 2(f).



For Publications Issued From Time to Time.  
Use since 1944.

SN 677,270. Norcross, Inc., New York, N. Y. Filed Nov. 15, 1954.



For Greeting Cards.  
Use since on or about Oct. 17, 1950.

SN 678,690. Time, Incorporated, New York, N. Y. Filed Dec. 20, 1954.



The drawing is lined for the color red.  
For Feature of a Periodical Publication.  
Use since Dec. 16, 1954.

SN 680,645. ACF Industries, Incorporated, New York, N. Y. Filed Jan. 28, 1955.

**acf HORIZONS**

For Magazines Published Bimonthly.  
Use since Dec. 9, 1954.



## CLASS 39

SN 636,743. Shreveport Garment Manufacturers, Shreveport, La. Filed Oct. 16, 1952.

# RANCH KING

For Men's and Boys' Blue Jeans, Dungarees, Jumpers, Overalls, and Shorts.  
Use since Oct. 3, 1952.

SN 630,810. International Latex Corporation, Dover, Del. Filed July 24, 1953.

## Calorie-Curve control

For the purposes of registration, the word "Control" is disclaimed.  
For Girdles.  
Use since July 23, 1953.

SN 659,904. The Warren Featherbone Company, Three Oaks, Mich. Filed Jan. 21, 1954.

# STERO-PAK

For Baby Pants and Baby Bibs.  
Use since July 1, 1953.

SN 660,130. Gladys W. Geissmann, d. b. a. Merry Hull, New York, N. Y. Filed Jan. 26, 1954.

## + TALL + TROUSERS

For Children's Slacks, Shorts, and Overalls.  
Use since Nov. 11, 1950.

SN 660,169. Thompson Bros. Shoe Co., Brockton, Mass. Filed Jan. 26, 1954.



For Boots and Shoes, for Men, Women, and Boys.  
Use since on or about Jan. 1, 1948.

SN 662,232. The Theodore Kotzin Co., Ltd., Los Angeles, Calif. Filed Mar. 8, 1954.

# TAPERS

For Trousers.  
Use since Mar. 4, 1954.

SN 663,735. The Josephine Company, St. Paul, Minn. Filed Apr. 1, 1954.



For Infants' Wearing Apparel.  
Use since on or before December 1948.

SN 664,166. Betty McCorkle, Los Angeles, Calif. Filed Apr. 8, 1954.



For Women's Dresses.  
Use since Feb. 6, 1954.

SN 665,040. H. Glaser & Son, Inc., Boston, Mass. Filed Apr. 22, 1954.

# Royal Teens

The word "Teens" is disclaimed.  
For Men's, Women's, and Children's Hosiery.  
Use since June 1, 1941.

SN 665,100. Joan Doug Undergarment Co. Inc., New York, N. Y. Filed Apr. 23, 1954.

## Protect-Eez

For Ladies' Panties and Ladies' Peds.  
Use since June 1, 1953.

SN 666,379. Palmyra Hosiery Mills, Inc., Albany, Ga. Filed May 14, 1954. SN 672,566. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed Sept. 1, 1954.

# Romance

For Women's Hosiery.  
Use since Sept. 3, 1952.

SN 669,168. Belle Point Manufacturing Company, Fort Smith, Ark. Filed June 30, 1954.



For Infants', Toddlers', and Children's Panties, Sunsuits, Overalls, Playsuits; Men's and Boys' (Outer or Under) Shirts, Pants, and Jackets; Ladies' Blouses, Skirts, Shorts, Slacks, Jackets, and Playsuits.  
Use since Apr. 17, 1950.

SN 669,668. Caribe Shoe Corporation, Manati, Puerto Rico. Filed July 9, 1954.

# CANDY KIDS

For Shoes for Misses, Children, and Infants.  
Use since October 1953.

SN 670,098. Educator Shoe Corporation, New York, N. Y. Filed July 16, 1954.

# Coolsters

For Men's Shoes.  
Use since on or about Jan. 1, 1954.

SN 672,561. M. Beckerman & Sons, Inc., New York, N. Y. Filed Sept. 1, 1954.

# ResTep Juniors

Applicant claims ownership of Reg. No. 577,231.  
For Misses', Children's, Infants', Boys', and Girls' Shoes Made of Leather.  
Use since Aug. 18, 1954.

# Larkwood fabulous Stocking X

Applicant claims ownership of Reg. Nos. 249,750, 576,413, and others.  
For Ladies' Hosiery.  
Use since July 1954.

SN 672,957. Ipswich Hosiery Co., Inc., Manchester, N. H. Filed Sept. 9, 1954. Sec. 2(f).

# ipswich

For Women's and Girls' Hosiery.  
Use since Aug. 24, 1945.

SN 673,307. Sonco Trading Corp., New York, N. Y. Filed Sept. 16, 1954.



For Baby Shoes.  
Use since May 26, 1954.

SN 674,228. The Coward Shoe, Inc., New York, N. Y. Filed Oct. 4, 1954.

# Vitakose

For Women's Hosiery.  
Use since Apr. 27, 1954.

SN 674,663. Consolidated Dry Goods Co., d. b. a. Boston Store, McCallum's, and The Wallace Company, Springfield, Mass. Filed Oct. 12, 1954.

# GlenArden

For Women's Shoes.  
Use since Sept. 2, 1954.



SN 675,040. Wee Moderns, Inc., New York, N. Y. Filed Oct. 18, 1954. SN 678,332. Jack Kreiss Hosiery, Inc., New York, N. Y. Filed Dec. 14, 1954.

PERSONALIZED



For Infants' and Children's Overalls.  
Use since May 1, 1954.

SN 675,181. Trimfoot Company, Farmington, Mo. Filed Oct. 20, 1954.



Applicant claims ownership of Reg. Nos. 206,483, 556,689, and others.

For Shoes Made of Leather, Fabric, or Rubber, or Combinations Thereof, for Women and Children.  
Use since on or about Oct. 1, 1949.

SN 675,906. Parlow, Inc., San Francisco, Calif. Filed Nov. 2, 1954.

*Li Ranno*

For Women's Shoes.  
Use since July 1952.

SN 676,384. Mavest Inc., New York, N. Y. Filed Nov. 10, 1954.

*Marolina*

For Men's Sport Coats, Suits, and Topcoats.  
Use since Sept. 22, 1954, on men's sport coats.

SN 677,218. Hat Corporation of America, Norwalk, Conn. Filed Nov. 24, 1954.

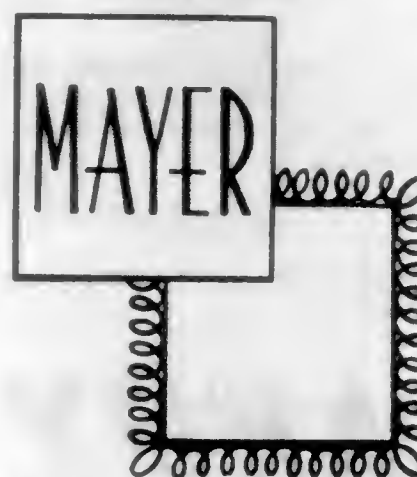
**STOCKMAN**

For Hats for Men.  
Use since Nov. 15, 1954.

*Singing Star*

For Ladies' and Misses' Hosiery.  
Use since Aug. 26, 1954.

SN 678,413. The Mayer Company, Inc., New York, N. Y. Filed Dec. 15, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 524,017.  
For Women's and Misses' Hosiery.  
Use since January 1945.

SN 678,896. Waldensian Hosiery Mills, Incorporated, Valdeese, N. C. Filed Dec. 23, 1954.

*Pan Pan*

For Ladies' Full Fashion Hosiery and Ladies' Full Fashion Panties.  
Use since June 29, 1954, on ladies' full fashion panties.

SN 679,098. Gro-Cord Rubber Company, Lima, Ohio. Filed Dec. 29, 1954.

*NEO-NUCLEAR*

For Shoe Soles.  
Use since Nov. 9, 1954.

SN 679,111. Phoenix Hosiery Company, Milwaukee, Wis. Filed Dec. 29, 1954.

**STRETCHMASTERS**

For Men's Hosiery.  
Use since June 1, 1954.

SN 679,116. Loula Rubenstein and Sons, Inc., Syracuse, N. Y. Filed Dec. 29, 1954. SN 680,279. Lamm Brothers, Inc., Baltimore, Md. Filed Jan. 21, 1955.

**Simple Simon**

For Children's Shoes.  
Use since Aug. 23, 1954.

SN 679,129. Alfred Shoe Corporation, Pennsburg, Pa. Filed Dec. 30, 1954.



For Children's Shoes.  
Use since Nov. 24, 1954.

SN 679,216. Ben Cooper, Inc., New York, N. Y. Filed Dec. 31, 1954.

**NURSE MATES**

For Duplicate Nurses' Outfits To Be Worn Respectively by Children and Dolls and Comprising a Cap, a Cape, and a Pinafore All Packaged Together.  
Use since May 5, 1954.

SN 679,218. James F. Donnelly, d. b. a. J. Donnelly Co., Monmouth Beach, N. J. Filed Dec. 31, 1954.



No claim is made to the words "For Little Tuffies and Little Ladies Too" apart from the mark as shown.  
For Sleeve Protectors for Infants.  
Use since May 5, 1954.

SN 680,186. Even-Pul Foundations, Inc., New York, N. Y. Filed Jan. 20, 1955.

*Elasto*

For Brassières.  
Use since Nov. 20, 1954.

SN 680,274. Hollywood-Maxwell Co., Los Angeles, Calif. Filed Jan. 21, 1955.

**PINK CHAMPAGNE**

For Brassières.  
Use since Dec. 17, 1954.  
TM 696 O. G.—9

**THE SLIDER**

For Men's and Women's Coats.  
Use since Dec. 1, 1954.

SN 680,365. Chesterfield Blouse & Sportswear, Inc., New York, N. Y. Filed Jan. 24, 1955.



*Rosa ITALIANA*

For Ladies' Blouses.  
Use since Dec. 15, 1954.

SN 680,505. Alamo Manufacturing Co., Inc., New York, N. Y. Filed Jan. 26, 1955.

*Southern Belle*

For Cotton Wash Frocks.  
Use since September 1954.  
Subj. to Intf. with SN 676,169.

SN 680,530. Robert Hall Clothes, Inc., New York, N. Y. Filed Jan. 26, 1955.

**ROBERTA HALL**

Applicant claims ownership of Reg. Nos. 523,355 and 571,688.  
For Women's and Misses' Coats, Suits, Toppers, Dresses, Blouses, Skirts, Sweaters, and Slacks.  
Use since on or about Dec. 15, 1954.

SN 680,538. Le Roy Knitted Sportswear, Los Angeles, Calif. Filed Jan. 26, 1955.

*Lil' Lambee*

For Lady's Knitted Sweater.  
Use since Oct. 1, 1951.

SN 680,539. Le Roy Knitted Sportswear, Los Angeles, Calif. Filed Jan. 26, 1955.

*Wunda-Lam*

For Lady's Knitted Sweater.  
Use since Sept. 10, 1953.



SN 680,804. Roosevelt Mills Incorporated, New York, N. Y. Filed Jan. 31, 1955.

# Romille

For Wearing Apparel—Namely, Women's, Girls', and Misses' Sweaters.  
Use since June 3, 1954.

## CLASS 40

SN 668,176. Leonard Lawrence, Kew Gardens, N. Y. Filed June 14, 1954.

# "Comfees"

For Foam Rubber Ear Cushions for Use With Earrings.  
Use since May 19, 1953.

SN 679,949. Frances S. Waggener, Davis, Calif. Filed Jan. 14, 1955.

# Vamp

For Clips for Holding Contoured Hair.  
Use since Sept. 2, 1954.

## CLASS 42

SN 663,659. Martha Green, d. b. a. The Wally Knitwear Co., Brooklyn, N. Y. Filed Mar. 31, 1954.

# Vicralon

For Textile Fabrics in the Piece of Synthetic Fibers.  
Use since July 1, 1953.

SN 668,883. The Worcester Knitting Company, Worcester, Mass. Filed June 24, 1954.

# Cherry Valley

For Piece Goods of Cotton, Wool, and Synthetic Fibers.  
Use since June 1, 1954.

SN 669,374. Somersville Mfg Company, Somersville, Conn. Filed July 2, 1954.

# Empress Chinchilla

The word "Chinchilla" is disclaimed apart from the mark as shown.  
For Piece Goods Made of Wool Fibers.  
Use since Feb. 7, 1950.

SN 670,453. American Woolen Company, New York, N. Y., now by merger and change of name Textron American, Inc. Filed July 23, 1954.

# KOOL-AM-1

For Textile Fabrics Composed of a Synthetic Polyester Fiber and Wool Sold in the Piece.  
Use since July 13, 1954.

SN 670,489. Lincoln Fabrics Co. Inc., New York, N. Y. Filed July 23, 1954.

# MIRACLE PERMA PLEATS

The word "Pleats" is disclaimed apart from the mark as shown.  
For Cotton Piece Goods.  
Use since June 10, 1954.

SN 670,575. Hayward-Schuster Woolen Mills Inc., East Douglas, Mass. Filed July 26, 1954.

# Germania

For 100 Per Cent Wool Outerwear Fabrics.  
Use since June 28, 1954.

SN 670,773. Joseph Burlock, d. b. a. Joseph Burlock Co., New York, N. Y. Filed July 29, 1954.

# ACENYL

For Ribbons Made of Nylon and Spun Acetate and Sold by the Yard, Piece, or Bolt.  
Use since Jan. 3, 1954.

SN 673,891. Rudolph Ambach, d. b. a. Ambatex Company, Chicago, Ill. Filed Sept. 28, 1954.

**Ambatex "Sew'n Save" FABRICS**  
Applicant disclaims the wording "Sew 'N Save' Fabrics" apart from the mark as shown.  
For Piece Goods or Bolt-Fabrics of Various Lengths and Width Made of Cotton or Rayon or Synthetic Fibers or Wool.  
Use since Feb. 15, 1954.

SN 674,488. M. J. Whittall Associates, Inc., Worcester, Mass. Filed Oct. 7, 1954.

# ANNIVERSARY

For Textile Carpets and Rugs.  
Use since Sept. 1, 1954.

SN 675,084. Leeds-Dubenstein Inc., New York, N. Y. Filed Oct. 19, 1954.

# LOUPÉ

For Worsted and Woolen Fabrics in the Piece.  
Use since Apr. 1, 1954.

SN 675,534. Sidney Blumenthal & Co., Inc., New York, N. Y. Filed Oct. 27, 1954.

# KERAMI

Applicant claims ownership of Reg. No. 117,984.  
For Pile Fabrics in the Piece Composed of Cotton and Rayon.  
Use since about Feb. 15, 1917.

SN 676,169. Bell Textile Co., Inc., New York, N. Y. Filed Nov. 8, 1954.

# Southern Belle

For Sheets, Pillow Cases, Bed Spreads, and Piece Goods of Cotton, Wool, and Synthetic Fibers.  
Use since June 1, 1954.  
Subj. to Intf. with SN 680,505.

SN 676,733. Klopman Mills, Inc., New York, N. Y. Filed Nov. 16, 1954.

# K

For Piece Goods of Nylon, Polyester Fibers, Acrylic Fibers, Rayon, Acetate, Cotton, Wool, and Silk, and Combinations Thereof.  
Use since Nov. 2, 1954.

SN 677,292. Berglas-Rieger Corporation, New York, N. Y. Filed Nov. 26, 1954.

# BERRIEGE

For Woolen and Worsted Fabrics Sold by the Bolt and/or in Cut Lengths.  
Use since Sept. 21, 1954.

# NAPACA

For Textile Fabric in the Piece of Cotton.  
Use since Oct. 18, 1954.

SN 677,537. Woodward, Baldwin & Co., Inc., New York, N. Y. Filed Nov. 30, 1954.

# HANOVER

For Cotton and Rayon Piece Goods and Combinations Thereof.  
Use since 1912.

SN 677,640. Colonial Drapery & Curtain Corp., New York, N. Y. Filed Dec. 2, 1954.

# thermoseal

For Drapery Fabrics.  
Use since Oct. 10, 1954.

SN 677,721. J. B. Martin Company, New York, N. Y. Filed Dec. 3, 1954.

# AMOROSA

For Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers.  
Use since Nov. 4, 1954.

SN 677,769. Daido Woolen Textile Mfg. Corp., Chiyoda-ku, Tokyo, Japan. Filed Dec. 6, 1954.

# MILLIONTEX

For Woolen Piece Goods.  
Use since July 10, 1953.

SN 678,039. W. A. Landry, New York, N. Y. Filed Dec. 9, 1954.

# SILVGORA

For Woolen and Worsted Textile Fabrics in the Piece.  
Use since Feb. 20, 1950.

SN 678,248. North Shore Manufacturing Company, Duluth, Minn. Filed Dec. 13, 1954.

# Norselite

For Lining Material.  
Use since June 16, 1954.



SN 678,323. Goldblatt Bros., Inc., Chicago, Ill. Filed Dec. 14, 1954.

# GOLD COAST

Applicant claims ownership of the mark shown in canceled Reg. No. 295,646.

For Textile Pillow Cases, Textile Bed Sheets, and Textile Bed Sheetting.

Use since May 15, 1931.

SN 678,388. D. B. Fuller & Co., Inc., New York, N. Y. Filed Dec. 15, 1954.

# MODERN MASTER PRINTS

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres, and Mixtures Thereof.

Use since Aug. 10, 1953.

SN 678,433. Charles Bloom, Inc., New York, N. Y. Filed Dec. 16, 1954.

# SPINNAKER CLOTH SUGAR AND STRIPES

For Fabrics in the Piece Made of Cotton, Wool, Silk, and Artificial Fibres and Mixtures Thereof.

Use since June 1, 1954.

SN 678,623. Goodall-Sanford, Inc., Sanford, Maine. Filed Dec. 20, 1954.

# BLENRON

For Piece Goods of Combinations of Wool, Mohair, and Synthetic Fibres.

Use since Aug. 31, 1954.

SN 678,624. Goodall-Sanford, Inc., Sanford, Maine. Filed Dec. 20, 1954.

# BLEN — WOOL

No claim is made to the word "Wool" apart from the mark as shown.

For Piece Goods of Combinations of Wool and Synthetic Fibres, Sold in Bolt.

Use since July 22, 1954.

SN 678,626. Goodall-Sanford, Inc., Sanford, Maine. Filed Dec. 20, 1954.

# PALM CORD

For Piece Goods of Combinations of Rayon, Acetate, and Nylon.

Use since Aug. 31, 1954.

SN 678,708. Chicopee Mills, Inc., New York, N. Y. Filed Dec. 21, 1954.

# Bonform

Applicant claims ownership of Reg. No. 423,917. For Interlining Fabric Sold by the Yard or by the Piece. Use since Sept. 9, 1954.

SN 678,710. Crompton Company, Crompton, R. I. Filed Dec. 21, 1954.

# DEN-M-ROY

For Corduroy Fabrics in the Piece Composed of Cotton. Use since Dec. 1, 1954.

## CLASS 43

SN 675,260. Chadolon, Inc., Charlotte, N. C. Filed Oct. 22, 1954.

# CHADOLON

For Yarn. Use since Oct. 20, 1954.

SN 675,865. Châtillon Società Anonima Italiana per le Fibre Tessili Artificiali S. P. A., Milan, Italy. Filed Oct. 26, 1954.

# dylene

Priority under Sec. 44(d). Italian application filed on Sept. 2, 1954. Reg. No. 119,884, dated Nov. 25, 1954. For Special Dyed Yarns of Viscose Rayon.

SN 677,192. Châtillon Società Anonima Italiana per le Fibre Tessili Artificiali S. P. A., Milan, Italy. Filed Nov. 16, 1954.

# anthella

Applicant claims ownership of Italian Reg. No. 96,853, dated June 21, 1950. For Special Lucid Dyed Yarns of Viscose Rayon.

SN 677,230. M. K. M. Hosiery Mills, Inc., Boston, Mass. Filed Nov. 24, 1954.

# MINKMIST

For Yarn Made of Fur Blended With Other Fibers of Which the Fur Commonly Contains Mink. Use since Oct. 11, 1954.

SN 678,279. Textured Yarn Company, Philadelphia, Pa. Filed Dec. 13, 1954.

# TEXTURA

For Thread and Yarn. Use since Aug. 1, 1954.

SN 678,280. Textured Yarn Company, Philadelphia, Pa. Filed Dec. 13, 1954.

# FILA-CRIMP

For Thread and Yarn. Use since Aug. 1, 1954.

SN 678,732. Madison Throwing Company, Inc., Madison, N. C. Filed Dec. 21, 1954.

# MAGILON

For Specially Processed Synthetic Yarns. Use since November 1954.

## CLASS 44

SN 682,271. The Walker Company, Middleboro, Mass. Filed Mar. 8, 1954. Sec. 2(f).

# "Leek-Pruf"

Applicant claims ownership of Reg. No. 363,238. For Ice Bags and Ice Caps for Therapeutic Purposes. Use since Oct. 29, 1937.

SN 671,184. Multibiotics Corporation of America, Baltimore, Md. Filed Aug. 5, 1954.

# BIO-BAND

For Surgical Antibiotic Impregnated Gauze Pad for Use as a Surgical Dressing. Use since February 1952.

SN 671,185. Multibiotics Corporation of America, Baltimore, Md. Filed Aug. 5, 1954.

# BIO-PAD

For Surgical Antibiotic Impregnated Gauze Pad for Use as a Surgical Wipe and Dressing. Use since November 1951.

SN 674,687. Nichols & Clark, Inc., Danvers, Mass. Filed Oct. 12, 1954.

# UNEX

For Hearing Aids. Use since 1945.

# Lord and Lady

For Hearing Aids. Use since Sept. 1, 1954.

SN 675,900. Medical Alginates Limited, Middlesex, England. Filed Nov. 2, 1954.

# CALGITEX

Applicant claims ownership of British Reg. No. 661,874, dated Aug. 25, 1947. For Surgical Dressings.

SN 676,068. O & G Instrument Company, Inc., New York, N. Y. Filed Nov. 4, 1954.

# LEFF

For Obstetrical Forceps. Use since Sept. 17, 1954.

## CLASS 45

SN 643,140. Canada Dry Ginger Ale, Incorporated, New York, N. Y. Filed Mar. 5, 1953. Sec. 2(f).

# The Champagne

# of Ginger Ales

Applicant claims ownership of Reg. No. 392,159. For Ginger Ale. Use since Sept. 1, 1922. Subj. to Intf. with SN 644,088.

SN 644,088. Rotella Beverages, Inc., Newark, N. J. Filed Feb. 27, 1953. Sec. 2(f).

# Champagne sparkling Dry Ginger Ale

The words "Sparkling Dry Ginger Ale" are disclaimed separate and apart from the mark. Applicant claims ownership of the mark shown in Reg. No. 301,461.

For Ginger Ale. Use since Jan. 1, 1951; and since Nov. 15, 1931, as to "Champagne Sparkling Dry Ginger Ale." Subj. to Intf. with SN 643,140.



SN 652,599. Buffalo Rock Company, Inc., Birmingham, Ala. Filed Sept. 1, 1953.



No claim is made to the words "Drink" or "Beverages" apart from the mark as shown, or to the outline design of the container. The representation of the container appears on the drawing to illustrate the mark affixed thereto. For Non-Alcoholic Maltless Soft Drinks. Use since June 9, 1953.

SN 663,964. Sun-Rise, Inc., Marshall, Minn. Filed Apr. 5, 1954.

**SUN-HI**

Applicant claims ownership of Reg. No. 397,361. For Bottled Carbonated Soft Drinks. Use since Mar. 5, 1954.

SN 672,749. Old Fashion, Inc., Wilkes-Barre, Pa. Filed Sept. 3, 1954.



No registration rights are claimed for the words "Old Fashion," "Root Beer," and "The Kind That Mother Used To Make" apart from the mark as shown. The drawing is lined for red and blue. Applicant claims ownership of Reg. Nos. 387,476, 567,273, and others. For Root Beer and Syrups and Extracts for Making the Same. Use since Mar. 20, 1941.

SN 672,750. Old Fashion, Inc., Wilkes-Barre, Pa. Filed Sept. 3, 1954.



No registration rights are claimed for the words "Old Fashion," "Root Beer," and "The Kind That Mother Used To Make" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 387,476, 567,273, and others. For Root Beer and Syrups and Extracts for Making the Same. Use since Mar. 20, 1941.

SN 675,621. Cammarano Bros., Tacoma, Wash. Filed Oct. 28, 1954.

**Paradise CLUB**

For Bottled Carbonated Soft Drinks. Use since 1927.

SN 677,869. Derl-Del, Inc., Baltimore, Md. Filed Dec. 7, 1954.

**GLOW**

For Fruit Flavored, Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Concentrates for Making the Same. Use since Dec. 3, 1954.

SN 678,432. W. R. Beyer, d. b. a. Beyer & Company, Odessa, Tex. Filed Dec. 16, 1954.

**WILD HORSE**

For Soft Drinks. Use since July 1, 1954.

CLASS 46  
SN 618,614. Arctic Circle Company, Salt Lake City, Utah. Filed Sept. 11, 1951.



For Ice Cream, Ice Cream Sundaes, Ice Cream Floats, and Ice Cream Sodas. Use since on or about May 1, 1950.

SN 634,941. International Minerals & Chemical Corporation, Chicago, Ill. Filed Sept. 6, 1952.

**THE THIRD SHAKER**

For Monosodium Glutamate, for Use as a Condiment. Use since June 24, 1952.

SN 656,869. Western Popcorn Company, Atlantic Iowa. Filed Nov. 23, 1953.



For Raw Popcorn. Use since Nov. 1, 1946.

SN 657,198. Chickasha Milling Company, d. b. a. Oklahoma Improved Seed Co., Chickasha, Okla. Filed Dec. 1, 1953.



For Packaged Mung Beans for Human Consumption. Use since Oct. 3, 1949.

SN 657,945. McCormick & Company, Incorporated, Baltimore, Md. Filed Dec. 14, 1953. Sec. 2(f).

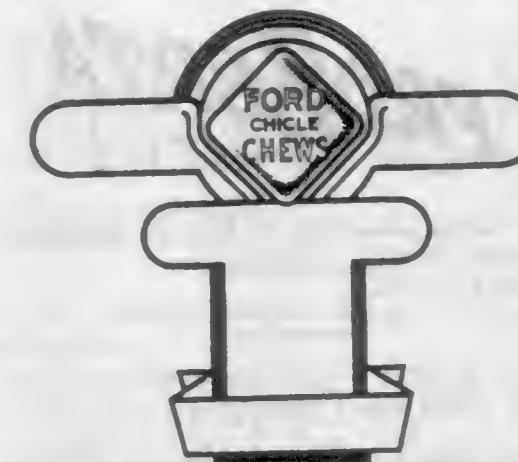
**Jell-a-teen**

Applicant claims ownership of the mark shown in expired Reg. No. 278,261. For Gelatine Dessert Powder. Use since Apr. 24, 1939.

SN 658,353. Turnbull Cone Baking Company, Chattanooga, Tenn. Filed Dec. 21, 1953. Sec. 2(f).

**RITE SIZE**

For Unfilled Ice Cream Cones. Use since 1947.



No claim is made to the words "Chicle Chews" apart from the mark shown on the drawing. Applicant claims ownership of Reg. No. 537,588. For Candy Coated Chewing Gum. Use since Dec. 14, 1953; and since about 1935 as to "Ford."

SN 661,072. Ford Gum and Machine Company, Inc., Akron, N. Y. Filed Feb. 15, 1954. Sec. 2(f) as to "Ford."



No claim is made to the words "Chicle Chews Chlorophyll" apart from the mark shown on the drawing. Applicant claims ownership of Reg. No. 537,588. For Candy Coated Chewing Gum. Use since Dec. 14, 1953; and since about 1935 as to "Ford."

SN 661,275. Hopkins Agricultural Chemical Co., Madison, Wis. Filed Feb. 18, 1954.

**HOPKINS SULF-A-SILE**

For Grass Silage Preservatives. Use since May 19, 1953.

SN 663,517. Rogers Canning Company, Milton, Ore. Filed Mar. 29, 1954.

**MAMMOTH**

For Canned Peas. Use since March 1939.



SN 663,783. G. P. Gundlach & Co., Inc., Cincinnati, Ohio. Filed Apr. 2, 1954.

# FROZERTA

Applicant claims ownership of Reg. No. 288,899.  
For Ice Cream, Ice Milk, and Water Ice.  
Use since May 1, 1942.

SN 667,422. Mor-Pak Preserving Corporation, San Francisco, Calif. Filed June 1, 1954.

# Delhi

Applicant claims ownership of Reg. No. 509,369.  
For Canned Fruits and Canned Vegetables.  
Use since June 20, 1932.

SN 669,875. Foodland, Inc., Cleveland, Ohio. Filed July 13, 1954.

# FOODLAND

Applicant claims ownership of Reg. Nos. 314,869, 341,785, and others.

For Canned Foods--Namely, Fruits, Vegetables, Deciduous and Citrus Fruit Juices, Vegetable Juices, Baked Beans With Pork, Salmon, Crab Meat, Tuna, Shrimp, Oysters, Sauerkraut, Mushrooms, Mixed Vegetables and Pimientos; Marshchino Cherries; Fruit Preserves, Jams, Jellies; Cane and Maple Syrup; Cranberry Sauce; Apple Sauce; Honey; Mayonnaise; Peanut Butter; Pickles; Sweet Pickle Relish; Spaghetti Sauce; Food Flavoring Extracts; Prepared Mustard; Meat Sauces; Olives; Salad Dressing; Sandwich Spread; Candied Dill Sticks; Canned Raw Shelled Walnut Halves; Unshelled Mixed Nuts; Tomato Catsup; Tomato Puree; Tomato Sauce; Macaroni Salad; Marshmallow Creme; Molst Coconut; Wheat Flour; Pancake Flour; Dates; Raisins; Prunes; Egg Noodles; Tea; Tea Bags; Vinegar; Oleomargarine; Evaporated Milk; Rolled Oats; Table Salt; Coffee; Spices; Molasses; Eggs; Potted Meat; Vienna Sausage; Sliced Dried Beef.  
Use since January 1934.

SN 670,058. Murphy Products Company, Burlington, Wis. Filed July 15, 1954.

# NOTHER-MOTHER

For Calf Feed.  
Use since May 24, 1954.

SN 673,395. Jack Sher, d. b. a. Papapizza Company, Columbus, Ohio. Filed Sept. 17, 1954.

# BABYPizza

No exclusive claim is made to the word "Pizza" apart from the mark as shown.

For Pizza Sauce.  
Use since July 23, 1954.

SN 673,397. Jack Sher, d. b. a. Papapizza Company, Columbus, Ohio. Filed Sept. 17, 1954.

# PAPA Pizza

No exclusive claim is made to the word "Pizza" apart from the mark as shown.

For Pizza Sauce.  
Use since July 23, 1954.

SN 674,493. Arbie Mineral Feed Co., Inc., Marshalltown, Iowa. Filed Oct. 8, 1954.



For Mineralized Hog Feed.  
Use since on or about July 1, 1953.

SN 675,418. Oxnard Citrus Association, Port Hueneme, Calif. Filed Oct. 25, 1954. Sec. 2(f).

# OXNARD

Applicant claims ownership of Reg. No. 347,211.  
For Fresh Citrus Fruits.  
Use since 1918.

SN 675,426. B. & K. Prepack, Salem, Oreg. Filed Oct. 25, 1954.

# BEAVER KING

For Fresh Fruits and Vegetables.  
Use since Oct. 11, 1954.

SN 675,759. The Borden Company, New York, N. Y. Filed Nov. 1, 1954.

# MISS Sno-Frost

For Ice Milk.  
Use since May 26, 1952.

SN 675,812. Monroe Packing Co., Inc., Gary, Ind. Filed Nov. 1, 1954.

# Dine-Rite

For Imitation Vienna Sausage.  
Use since May 26, 1954.

SN 675,893. Kabushiki-Kaisha Nakano Su Miso, d. b. a. Nakano Vinegar Co., Handa-Shi, Japan. Filed Nov. 2, 1954.



Applicant claims ownership of Japanese Reg. No. 140,570, dated May 26, 1888.  
For Vinegar.

SN 676,186. Glen A. Emenhiser, d. b. a. Emenhiser Fruit Co., Beaumont, Calif. Filed Nov. 8, 1954.

# DESERT SEA

For Fresh Vegetables and Fresh Citrus Fruits.  
Use since Oct. 15, 1947.

SN 676,283. Walla Walla Canning Company, Walla Walla, Wash. Filed Nov. 8, 1954.



For Canned Vegetables.  
Use since in the fall of 1946.

SN 677,083. Sam I. Musashi, Indio, Calif. Filed Nov. 22, 1954.

# Fair Valley

For Fresh Vegetables.  
Use since Apr. 4, 1952.

SN 677,107. Steven Candy Kitchens, Inc., Chicago, Ill. Filed Nov. 22, 1954.

# ANIMALLOWS

For Candies.  
Use since Oct. 15, 1954.

# MIRAMAR

For Frozen Fresh Shrimp.  
Use since 1947.

SN 677,366. Southern Foods Company, McAllen, Tex. Filed Nov. 26, 1954.

# SUNNY Acres

Applicant claims ownership of Reg. No. 429,139.  
For Canned Vegetables and Canned Citrus Fruits.  
Use since Oct. 30, 1945.

SN 677,440. Oriental Foods, Incorporated, Bell Gardens, Calif. Filed Nov. 29, 1954.



*Arthur H. Hyman, Jr.*

The portrait and signature are those of the president of the applicant corporation, consent of record.

For Chicken Chow Mein, Vegetable Chow Mein, Chicken Chop Suey Gravy.  
Use since Nov. 1, 1953.

SN 677,483. Cheese Producers' Marketing Association, Monroe, Wis. Filed Nov. 30, 1954. Sec. 2(f).

# Honey Creek

Applicant claims ownership of Reg. No. 518,025.  
For Cheese.  
Use since Feb. 15, 1947.

SN 678,068. Worthington Foods, Inc., Worthington, Ohio. Filed Dec. 9, 1954.

# Soyamel

For Powdered Soy Milk.  
Use since July 22, 1954.



SN 678,314. Werner Eckart, d. b. a. Pannl-Werke, Munich, Germany. Filed Dec. 14, 1954.

**Panni**

For Potato Pancake Mix, Potato Dumpling Mix, Flour.  
Use since July 23, 1954.

SN 678,315. Werner Eckart, d. b. a. Pannl-Werke, Munich, Germany. Filed Dec. 14, 1954.



For Potato Dumpling Mix.  
Use since July 23, 1954.

SN 678,316. Werner Eckart, d. b. a. Pannl-Werke, Munich, Germany. Filed Dec. 14, 1954.



For Potato Pancake Mix.  
Use since July 23, 1954.

SN 679,891. The Capital City Products Company, Columbus, Ohio. Filed Jan. 14, 1955.

**PURITY . MIX**

Applicant claims ownership of Reg. No. 425,020.  
For Product Made From Hydrogenated Vegetable Oils for the Manufacture of Frozen Dessert.  
Use since Nov. 30, 1954.

SN 680,062. Blumenthal Bros. Chocolate Co., Philadelphia, Pa. Filed Jan. 18, 1955. Sec. 2(f).

**malties**

For Chocolate Malted Milk Balls.  
Use since May 1941.

SN 680,104. Sisco-Hamilton Co., Chicago, Ill. Filed Jan. 18, 1955.

*Miss  
Marjorie's*

For Chocolate Covered Cherries.  
Use since 1939.

SN 680,105. Sisco-Hamilton Co., Chicago, Ill. Filed Jan. 18, 1955. Sec. 2(f).

**ADRIATIC**

For Chocolate Covered Cherries.  
Use since 1936.

SN 680,226. Stephen "Bob" Scurich, Watsonville, Calif. Filed Jan. 20, 1955.



For Fresh Apples.  
Use since 1884.

SN 680,305. Rogue River Packing Corporation, Medford, Oreg. Filed Jan. 21, 1955. Sec. 2(f).

**ROGUE-  
RIVER**

Applicant claims ownership of Reg. No. 425,472.  
For Canned Fruits.  
Use since 1920.

SN 680,311. Turano Brothers, Hanford, Calif. Filed Jan. 21, 1955. Sec. 2(f).

**TURANO**

For Fresh Grapes.  
Use since September 1943.

SN 680,410. E. H. Pratt, d. b. a. Springgreen Products Co., Kansas City, Mo. Filed Jan. 24, 1955.

**SPRINGGREEN**

For Concentrated Food Products for Human Consumption and Consisting Principally of Powdered Young Open Pollinated Corn Plant Juice With Pectin and Other Products.  
Use since Nov. 1, 1952.

SN 682,182. Pen Argyl Milling Co., Inc., Pen Argyl, Pa. Filed Feb. 23, 1955.

**pocono**  
*Heart of Buckwheat.*

Applicant claims ownership of Reg. Nos. 417,569, 569,289, and others.  
For Buckwheat Groats.  
Use since Jan. 14, 1955.

## CLASS 47

SN 620,839. Wilen Brothers, Inc., Philadelphia, Pa. Filed Oct. 29, 1951. Sec. 2(f).

**WILEN**

For Wines—Namely, Barberone, Blackberry, Cherry, Chianti, Red Concord Grape, White Concord Grape, Muscatel, Port, White Port, Sauterne, Sherry, White Tokay, and Zinfandel.  
Use since on or about Dec. 1, 1933.

## CLASS 48

SN 664,071. Frank Fehr Brewing Co., Louisville, Ky. Filed Apr. 7, 1954.

*Liquid Gold*

For Beer.  
Use since Feb. 1, 1954.

## CLASS 49

SN 673,633. Hiram Walker & Sons, Inc., Peoria, Ill. Filed Sept. 22, 1954.

**HIRAM WALKER'S**

Applicant claims ownership of Reg. No. 328,232.  
For Whiskey, Gin, Cordials, Liqueurs, Cocktails, Cremes, Specialties, Fruit Flavored Brandy, and Vodka.  
Use since April 1933 on whiskey and gin.

SN 676,014. Standard Distillers Products, Baltimore, Md. Filed Nov. 3, 1954. Sec. 2(f).

**NORWOOD**

Applicant claims ownership of Reg. No. 374,061.  
For Bourbon Whiskey.  
Use since on or about Jan. 5, 1937.

## CLASS 50

SN 684,516. Meakins-McKinnon Inc., Lockport, N. Y. Filed Apr. 15, 1955.

**MAT-A-DOOR**



For Door Mats.  
Use since July 1952.  
Subj. to Intf. with SN 661,716.

## CLASS 51

SN 630,608. Old Empire Manufacturing Chemists, Inc., d. b. a. National Chlorophyll Company, Newark, N. J. Filed June 2, 1952.



For Foot Balm.  
Use since May 1, 1952.

SN 666,506. June Nelson, Inc., Wilkes-Barre, Pa. Filed May 17, 1954.

*June Nelson*

The name "June Nelson" is that of a living individual, who has given consent to the applicant to use and register the same.

For Cleansing Cream, Emollient Cream, Facial Mask, Make-Up Base, Skin Freshener, Hormone Oil, Rouge (Dry and Creme), Face Powder, Lipstick, Eye Brow Pencil, Eye Shadow, Mascara, Hand Cream, Hand Lotion, Hair Creme, Lotion, Hair Creme Rinse, Bath Oil, a Preparation for Producing Bubbles in the Bath Water, Dusting Powder, Talcum Powder, Deodorant (Stick and Liquid), Perspiration Cream, Cologne, Perfume, Cuticle Lubricator, Nail Polish, Nail Polish Remover, After Shave Lotion, and Shaving Cream (Lather and Brushless).  
Use since Dec. 16, 1953.

SN 667,832. Plough, Inc., Memphis, Tenn. Filed June 7, 1954.

**MEXSANA**

Applicant claims ownership of Reg. No. 395,323.  
For Skin Cream, Baby Oil, Baby Lotion, and Suntan Lotion.  
Use since January 1950.



SN 668,775. Nelson Mfg. Co., Inc., Memphis, Tenn., to Plough, Inc., Memphis, Tenn. Filed June 23, 1954. Sec. 2(f).  
SN 650,974. Sidney L. Caplan, Detroit, Mich. Filed July 28, 1953.

# NELSON'S

For Hair Dressing.  
Use since 1904.

SN 674,360. Zonite Products Corporation, New Brunswick, N. J. Filed Oct. 5, 1954.

# Natural Magic

Applicant claims ownership of Reg. No. 591,408.  
For Pressed Powder With Lanolin Foundation.  
Use since June 23, 1954.

SN 683,161. Elwood Joseph Goodier, d. b. a. Goodier Company, Dallas, Tex. Filed Mar. 14, 1955.

*Irish Rose*

Applicant claims ownership of the mark shown in canceled Reg. No. 502,983.  
For Hair Tonic.  
Use since June 1, 1925.

## CLASS 52

SN 640,358. Paul-Reed, Inc., Charlevoix, Mich. Filed Jan. 5, 1953.

# Magic Leaf

The drawing is lined for silver, but no claim is made to color.

For Metallic Silverware Cleaner of Cast Metal Form, the Metal Being a Manganese Alloy and Used by Placing in Water in Which a Detergent Is Dissolved in Which Silverware Is Washed.

Use since December 1951.

SN 643,994. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 20, 1953.

# RINTEX

For Laundry Washing Compound.  
Use since Feb. 29, 1951.

SN 644,369. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 27, 1953.

# ALKADIP

For Compound for Vat Cleaning and Forced Circulation Solution Cleaning of Diesel Engine Parts and Filters and Steam Locomotive Parts.  
Use since July 26, 1951.



For Cast or Stamped Article Made of Magnesium, Aluminum, or Other Non-Ferrous Metal for Use in a Detergent Solution Containing Dishpan, Which, When so Used Facilitates the Removal of Tarnish in the Cleaning of Silverware.  
Use since Apr. 28, 1953.

SN 653,772. Purex Corporation, Ltd., South Gate, Calif. Filed Sept. 25, 1953.

# Trend 5

Applicant claims ownership of Reg. Nos. 430,422, 598,604, and 603,715.

For Powdered Cleanser for General Household Use and Also Certain Commercial Uses, Such as in Laundries and in Cleaning of Dairy Equipment.  
Use since Sept. 22, 1952.

SN 654,195. John Goodwill Campbell, Vancouver, British Columbia, Canada. Filed Oct. 5, 1953.

# TOUCH-and-GO

Applicant claims ownership of Canadian Reg. No. N. S. 44,692, dated Nov. 22, 1952.  
For Cleanser for Household Use.

SN 656,424. Kerkling & Company, Whittier, Calif. Filed Nov. 16, 1953.



Applicant claims ownership of Reg. No. 382,969.  
For Cleaning and Sealing Compound for Repairing Cracked Engine Cylinder Blocks and Engine Cooling System Radiators.  
Use since Jan. 1, 1946.

SN 660,983. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Feb. 11, 1954.

# PHOS-IT

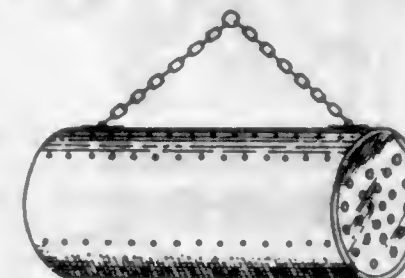
For Metal Surface Cleaning and Pre-Paint Treatment Compound.  
Use since July 17, 1948.

SN 661,198. Henry D. Hukill, d. b. a. Antique Corner, South Bend, Ind. Filed Feb. 17, 1954.  
SN 666,128. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed May 11, 1954.

# SOLVENTIQUE

Applicant claims ownership of Reg. No. 547,943.  
For Paint and Varnish Remover Consisting of Active Alkalis Mixed With a Filler Combined To Form a Paste When Water Is Added Used in the Complete Removal of Paint and Varnishes From Finished Surfaces.  
Use since February 1953.

SN 663,989. The Walterisation Company Limited, Croydon, Surrey, England. Filed Feb. 18, 1954.



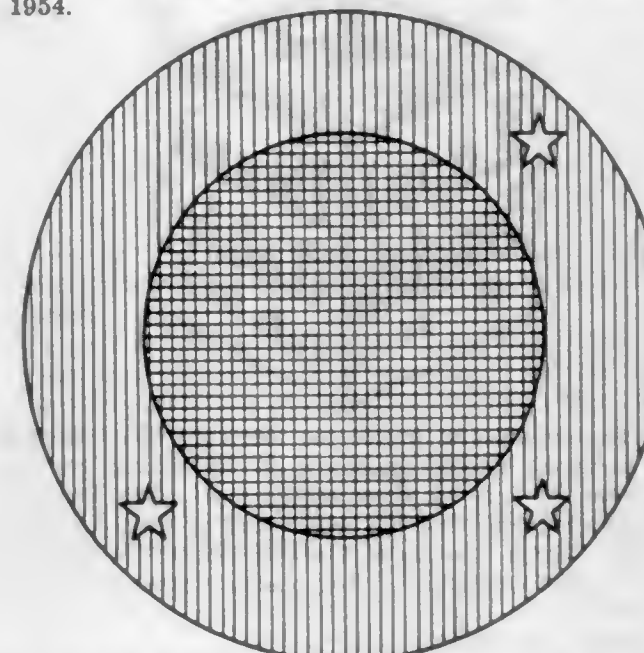
Applicant claims ownership of British Reg. No. 708,498, dated June 30, 1952, and U. S. Reg. Nos. 509,786 and 592,085.  
For Rust Removing Preparations.

SN 664,292. The Cobb Manufacturing Co., Inc., Richmond, Va. Filed Apr. 12, 1954.

# NYLON-BRITE

For Bleach-Detergent for Fabrics and Clothing.  
Use since at least as early as Feb. 15, 1953.

SN 665,977. Wynn Oil Company, Azusa, Calif. Filed May 7, 1954.



The drawing is lined for red and black. Applicant claims ownership of Reg. Nos. 588,163 and 589,942.

For Motor Cleaning Compound To Be Added to the Motor Oil or in Which the Motor Parts May Be Soaked To Remove the Sludge, Carbon, and Dirt.  
Use since Feb. 26, 1954.

# PHOS-KLEEN

Applicant claims ownership of Reg. No. 532,238.  
For Sanitizing Cleaning Composition for Use in the Food Processing Industries, Particularly the Dairy Trade.  
Use since on or about Apr. 4, 1952.

SN 672,394. Finger Lakes Chemical Company, Inc., Etna, N. Y. Filed Aug. 30, 1954.

# NO - CHAM

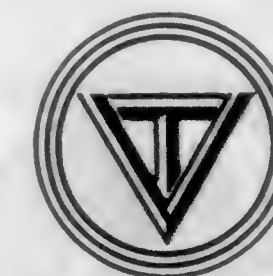
For Powdered Detergent Product for Cleaning Motor Vehicle Bodies.  
Use since June 9, 1954.

SN 677,376. American Alcolac Corporation, Baltimore, Md. Filed Nov. 29, 1954.

# SWELL

For Liquid Dishwashing Compound.  
Use since June 14, 1954.

SN 677,685. Voorhis-Tiebout Company, Inc., Red Hook, N. Y. Filed Dec. 2, 1954.



Applicant claims ownership of Reg. Nos. 342,750, 342,281, and 521,647.  
For Soap.  
Use since Aug. 30, 1948.



## SERVICE MARKS

### CLASS 100

SN 651,590. The Interstate Co., d. b. a. "Glass House," Chicago, Ill. Filed Aug. 10, 1953.



For Serving of Food and Beverages in Restaurants.  
Use since June 1, 1952.

SN 654,404. International Association of Civitan Clubs, Birmingham, Ala. Filed Oct. 8, 1953.



For Promoting Good Citizenship, and Perpetuating at All Times the Qualities of Genuine Patriotism, Community Cooperation, and Service.  
Use since 1920.

SN 655,713. Thomas W. Simmons, Los Angeles, Calif. Filed Nov. 2, 1953.



The surname "Simmons" is disclaimed apart from the mark as shown.

For Engineering Consultation and Advisory Services in Connection With Ground Water Development and Well Drilling.

Use since Oct. 1, 1953.

TM 122

SN 660,333. Roy L. Jones, d. b. a. Roy's Las Vegas Bar-B-Q, Washington, D. C. Filed Jan. 29, 1954.



No exclusive claim is made to the words "Wonderful Western Food," and the word "Bar-B-Q," apart from the mark as shown. The lining on the drawing is lining forming a part of the mark.

For Serving of Foods and Beverages.  
Use since Dec. 21, 1953.

SN 668,039. Loyal Knights of the Round Table, Berkeley, Calif. Filed June 10, 1954. COLLECTIVE MARK.



For Developing and Improving the Abilities of Members of the Chartered Tables or Clubs in Rendering Services to Charitable Projects or Organizations, to Civic Programs or Organizations, and to Clubs Sponsored by Such Local Tables or Clubs, Which Sponsored Clubs Endeavor To Build Character and the Qualities of Responsible Citizenship in Youth and Adults.

Use since April 1922.

SN 671,125. United Press Associations, New York, N. Y. Filed Aug. 4, 1954. Sec. 2(f).



For Furnishing News Items of General Interest From All Over the World for Use by Newspapers, Radio, and Television Stations.

Use since Dec. 4, 1944.

JULY 12, 1955

U. S. PATENT OFFICE

TM 123

SN 671,411. Babe Ruth League, Inc., Trenton, N. J. Filed Aug. 10, 1954.



For Stimulating and Maintaining Interest in Good Sportsmanship, Citizenship, and Baseball Activities Through Organizing Baseball Teams and Leagues Throughout the United States for Boys Between 12 and 16 Years of Age and Furnishing Advice and Guidance to Participants Therein.  
Use since Nov. 5, 1953.

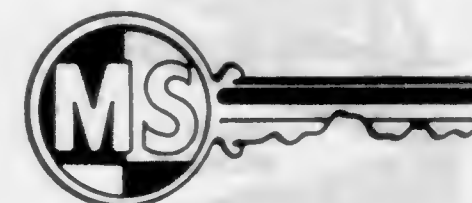
SN 677,263. The National Osteopathic Institute and Cerebral Palsy Foundation, Philadelphia, Pa. Filed Nov. 15, 1954.



The words "The National Osteopathic Institute and Cerebral Palsy Foundation" apart from the mark as shown are disclaimed.

For Care and Treatment of Persons Afflicted With Cerebral Palsy and Other Physical Handicaps and Scientific Research Into the Cause and Cure of Cerebral Palsy and Other Diseases.  
Use since July 14, 1950.

SN 677,434. National Multiple Sclerosis Society, New York, N. Y. Filed Nov. 29, 1954.



Applicant claims ownership of Reg. Nos. 598,025 and 598,026.

For Promoting Research and Providing Diagnostic Services, Treatments, and Physical Therapy in Clinics, in Respect of Multiple Sclerosis and Related Neurological Diseases.

Use since on or about Apr. 1, 1954.

### CLASS 101

SN 667,729. Bonnie E. Mutford, d. b. a. Tartan Productions, New York, N. Y. Filed June 4, 1954.



For Theatrical Employment Agency Services for Scottish and Irish Bagpipe Bands, Singers, Dancers, and Entertainers.  
Use since May 18, 1954.

### CLASS 102

SN 654,593. Selective Auto & Fire Insurance Company of America, Seattle, Wash., now by change of name Safeco Insurance Co. of America. Filed Oct. 12, 1953.



For Underwriting of Automobile and Fire Insurance.  
Use since Sept. 15, 1953.

### CLASS 103

SN 583,861. Carvel Corporation, New York, N. Y. Filed Aug. 23, 1949.



For Leasing, Maintenance, Service and Repair of Machines for Handling Congealed Products Such as Frozen Custard, Ice Cream, Ices, Beverages Containing Frozen and Chilled Matter.

Use since January 1946.

SN 635,875. Doane Agricultural Service, Inc., St. Louis, Mo. Filed Sept. 27, 1952. Sec. 2(f).



Applicant claims ownership of Reg. Nos. 507,103, 530,511, and 565,035.

For Constructing Farm Buildings.

Use since Feb. 1, 1947.



SN 664,714. Well Service, Inc., Charleston, W. Va. Filed Apr. 16, 1954.

# GEO-FRAC

For Well Treating Services—Namely, Hydraulic Fracturing of Petroleum and Natural Gas Producing Formations. Use since Feb. 1, 1954.

SN 666,005. Doane Agricultural Service, Inc., St. Louis, Mo. Filed May 10, 1954. Sec. 2(f).



Applicant makes no claim to the words "Farm Buildings" apart from the mark shown. Applicant claims ownership of Reg. Nos. 507,103, 539,511, and 565,035.

For Constructing Farm Buildings. Use since June 15, 1953; and since Feb. 1, 1947, as to "Doane Designed."

## CLASS 105

SN 641,997. Viking World Travel Service, Inc., New York, N. Y. Filed Feb. 9, 1953.



For Travel Agency Services in Arranging for Package Visits to Foreign Cities. Use since May 27, 1952.

SN 657,133. Hertz Drivurself System, Inc., Chicago, Ill., now by change of name Hertz System, Inc. Filed Nov. 30, 1953. Sec. 2(f).

# HERTZ

Applicant claims ownership of Reg. No. 569,760. For Rental of Automobiles and Trucks. Use since 1924.

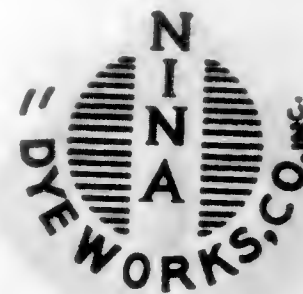
SN 677,108. Swissair Transport Co., Ltd., New York, N. Y. Filed Nov. 22, 1954.



For Air Transportation of Passengers, Freight, and Mail. Use since Apr. 1, 1953.

## CLASS 106

SN 651,851. Nina Dye Works Co., Inc., York, Pa. Filed Aug. 14, 1953.



For Dyeing Textile Fabrics. Use since June 15, 1948.

SN 651,852. Nina Dye Works Co., Inc., York, Pa. Filed Aug. 14, 1953.



Applicant disclaims sole right to use the terms "Crease Resistant" and "Water Repellent" separate and apart from the mark as shown.

For Treating Textile Fabrics To Render Them Crease Resistant and Water Repellent. Use since June 15, 1953.

SN 651,853. Nina Dye Works Co., Inc., York, Pa. Filed Aug. 14, 1953.



Applicant disclaims sole right to use the term "Crease Resistant" separate and apart from the mark as shown.

For Treating Textile Fabrics To Render Them Crease Resistant. Use since June 15, 1953.

SN 651,854. Nina Dye Works Co., Inc., York, Pa. Filed Aug. 14, 1953.



Applicant disclaims sole right to use the terms "Vat Dyed," "Washfast" and "Crease Resistant" separate and apart from the mark as shown.

For Treating Textile Fabrics To Render Them Crease Resistant and Vat Dyeing the Fabrics To Prevent a Loss of Color in Washing.

Use since June 15, 1953.

## CLASS 107

SN 678,703. Block Drug Company, Inc., Jersey City, N. J. Filed Dec. 21, 1954.

# DANGER

For Entertainment Service Rendered Through the Medium of a Series of Dramatic Television Programs Broadcast From Time to Time.

Use since Sept. 19, 1950.

SN 679,673. W. W. McMillan, d. b. a. W. W. McMillan & Company, Jacksonville, Fla. Filed Jan. 10, 1955.

# EXECUTIVE PROFILE

For Entertainment Service in the Nature of a Narrative With Pictures Regarding Outstanding Personalities, Rendered Through the Medium of a Television Program.

Use since May 1954.



# TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

## CLASS 1

- 608,512. GOLDEN CURE. Coker's Pedigreed Seed Co. SN 651,437. Pub. 4-12-55. Filed 8-6-53.  
608,513. GUARANTY. The Guaranty Gas Coal Company. SN 658,988. Pub. 4-12-55. Filed 1-5-54.  
608,514. GUARANTY AND DESIGN. The Guaranty Gas Coal Company. SN 658,989. Pub. 4-12-55. Filed 1-5-54.  
608,515. GUARANTY ELKHORN. The Guaranty Gas Coal Company. SN 658,990. Pub. 4-12-55. Filed 1-5-54.  
608,516. NEVER DIE. D. Landreth Seed Company. SN 660,738. Pub. 4-12-55. Filed 2-8-54.  
608,517. CYANOCOTTON. American Cyanamid Company. SN 665,085. Pub. 4-5-55. Filed 4-23-54.  
608,518. BEAUFIL. Celanese Corporation of America. SN 669,088. Pub. 4-12-55. Filed 6-29-54.  
608,519. HICKORY HILL CHARCOAL. Hardwood Charcoal Company. SN 669,114. Pub. 4-5-55. Filed 6-29-54.  
608,520. LEFATEX. Lefatex, Inc. SN 669,563. Pub. 4-12-55. Filed 7-7-54.

## CLASS 2

- 608,521. BONES FOR "BOWSER" AND REPRESENTATION OF A DOG. Crown Zellerbach Corporation. SN 640,327. Pub. 4-12-55. Filed 1-5-53.

## CLASS 3

- 608,522. SEÑORITA. Fran-Stef Manufacturing Company. SN 664,436. Pub. 3-29-55. Filed 4-13-54.  
608,523. ACCORDEX AND DESIGN. American Kleer-Vu Plastics, Inc. SN 671,922. Pub. 3-29-55. Filed 8-19-54.

## CLASS 4

- 608,524. REPRESENTATION OF A LITTLE MAN. Michigan Abrasive Company. SN 667,138. Pub. 4-19-55. Filed 5-26-54.

## CLASS 5

- 608,525. REPRESENTATION OF A BADGE. Hudson Pulp & Paper Corporation. SN 653,479. Pub. 4-26-55. Filed 9-21-53.  
608,526. SR SEAMLESS FINEST QUALITY SINCE 1877 AND DESIGN. The Seamless Rubber Company. SN 665,961. Pub. 4-12-55. Filed 5-7-54.  
608,527. NEFGLU. J. W. Neff Laboratories, Inc. SN 672,594. Pub. 4-19-55. Filed 9-1-54.  
608,528. DEXOCOR. Corn Products Refining Company. SN 672,721. Pub. 4-19-55. Filed 9-3-54.

## CLASS 6

- 608,529. ENGLISH-THUMB, FRANCAIS-POUCE, ETC., AND DESIGN. Marco Ivanow Mantchev. SN 659,874. Pub. 4-19-55. Filed 1-21-54.  
608,530. HEXAPHOS. Food Machinery and Chemical Corporation. SN 661,628. Pub. 4-19-55. Filed 2-25-54.  
608,531. STARDUST. The Procter & Gamble Company. SN 669,030. Pub. 4-19-55. Filed 6-28-54.  
608,532. MOBAY. Mobay Chemical Company. SN 669,791. Pub. 4-19-55. Filed 7-12-54.  
608,533. AIREACTOR. Aireactor Corporation. SN 670,081. Pub. 4-19-55. Filed 7-16-54.  
608,534. KONOGRAPHY. The Haloid Company. SN 670,479. Pub. 4-19-55. Filed 7-23-54.

## CLASS 7

- 608,535. COLPACK. Columbian Rope Company. SN 669,530. Pub. 4-12-55. Filed 7-7-54.

## CLASS 8

- 608,536. HI 'N DRI. Sigmund Leonard Safranek, d. b. a. Soovla Janis. SN 665,142. Pub. 4-5-55. Filed 4-23-54.

- 608,537. LADY JEWEL. Manhattan Briar Pipes' Ltd. SN 672,584. Pub. 4-5-55. Filed 9-1-54.

## CLASS 9

- 608,538. TOP NOTCH. Savage Arms Corporation. SN 660,445. Pub. 4-12-55. Filed 2-1-54.  
608,539. AEROBEE. Aerojet-General Corporation. SN 668,959. Pub. 4-5-55. Filed 6-28-54.  
608,540. BIG INCH. Olin Industries, Inc., now by merger and change of name Olin Mathieson Chemical Corporation. SN 669,627. Pub. 4-12-55. Filed 7-8-54.

## CLASS 10

- 608,541. VIM. F. S. Royster Guano Co. SN 670,124. Pub. 4-12-55. Filed 7-16-54.

## CLASS 11

- 608,542. NBE AND FLEUR DE LIS. National Business Equipment Co. SN 660,744. Pub. 3-29-55. Filed 2-8-54.

## CLASS 12

- 608,543. DUO TRIM. The Steelcraft Manufacturing Company, d. b. a. Steelcraft. SN 648,204. Pub. 4-12-55. Filed 6-3-53.  
608,544. CLEARVIEW. J. E. Bush. SN 652,706. Pub. 4-12-55. Filed 9-3-53.  
608,545. SOLAR-VENT, SV, AND DESIGN. Trenmetal, Inc. SN 662,482. Pub. 4-12-55. Filed 3-11-54.  
608,546. IDEAL. Showalter Manufacturing Co., Inc. SN 662,825. Pub. 4-12-55. Filed 3-17-54.  
608,547. ARVON. Arvon Products Co. Inc., d. b. a. Arvon Products Co., Inc., and Arvon Products Company, Inc. SN 663,995. Pub. 4-12-55. Filed 4-6-54.

## CLASS 13

- 608,548. LU RE CO HOMES—LUMBER DEALERS RESEARCH COUNCIL. Lumber Dealers Research Council. SN 664,163. Pub. 4-12-55. Filed 4-8-54.  
608,549. BOWBAY. General Woodcraft Co., Inc. SN 664,438. Pub. 4-12-55. Filed 4-13-54.  
608,550. HOMESTEADER. General Woodcraft Co., Inc. SN 664,439. Pub. 4-12-55. Filed 4-13-54.  
608,551. RUSCO. The F. C. Russell Company. SN 666,132. Pub. 4-12-55. Filed 5-11-54.  
608,552. THERMOSEAL. The F. C. Russell Company. SN 666,133. Pub. 4-12-55. Filed 5-11-54.  
608,553. TEXWALL BY TEXLITE. Texlite, Inc. SN 666,398. Pub. 4-12-55. Filed 5-14-54.  
608,554. SHAN-TONG AND DESIGN. Sierra Lumber Products. SN 666,537. Pub. 12-7-54. Filed 5-17-54.  
608,555. UNDULATILE. The Mosaic Tile Company. SN 668,458. Pub. 4-12-55. Filed 6-18-54.  
608,556. SATIN-TONES. Plastile Products, Inc. SN 671,116. Pub. 4-12-55. Filed 8-4-54.  
608,557. REPRESENTATION OF A GROTESQUE HUMAN. Puget Modern, Inc. SN 671,200. Pub. 4-12-55. Filed 8-5-54.  
608,558. KENFLOR. Kentile, Inc. SN 671,648. Pub. 4-19-55. Filed 8-13-54.  
608,559. RIJARC BRAND THE STRIP WITHOUT ITS EQUAL AND DESIGN (REPRESENTATION OF A CIRCLE). Manhattan Terrazzo Brass Strip Company, Inc. SN 672,519. Pub. 4-12-55. Filed 8-31-54.

## CLASS 14

- 608,560. SKILSPIN AND DESIGN. C. A. Dahlin Company. SN 658,100. Pub. 8-3-54. Filed 12-17-53.  
608,561. AMP IN CIRCLE. The Atlas Mineral Products Company of Pennsylvania. SN 660,249. Pub. 8-17-54. Filed 1-28-54.

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- 608,562. ANKOLITE. The Anchor Packing Company. SN 668,227. Pub. 4-12-55. Filed 6-15-54.  
608,563. THERMADAPTER. Hudson Engineering Corporation. SN 673,451. Pub. 4-12-55. Filed 9-20-54.  
608,564. DECRA-DOR. Independent Lock Company. SN 673,595. Pub. 4-12-55. Filed 9-22-54.  
608,565. VANILAV. Supermatic Products Corporation. SN 673,791. Pub. 4-12-55. Filed 9-24-54.  
608,566. ATLAS. Atlas Supply Company. SN 673,799. Pub. 4-12-55. Filed 9-27-54.  
608,567. INST-O-MATIC AND DESIGN. E. B. Wiggins Oil Tool Company, Inc. SN 673,883. Pub. 4-12-55. Filed 9-27-54.  
608,568. GEYSER AND DESIGN (REPRESENTATION OF GEYSER IN CIRCLE). The Fyr-Fyter Company. SN 673,982. Pub. 4-12-55. Filed 9-29-54.  
608,569. ESTATE. Manufacturers Corporation of Mansfield, Ohio. SN 674,001. Pub. 4-12-55. Filed 9-29-54.  
608,570. "PRIVATE EYE". M. D. Skroopka, d. b. a. Morda Importing & Distributing Co. SN 674,100. Pub. 4-12-55. Filed 9-30-54.

## CLASS 15

- 608,571. MOFALENE. M. F. A. Oil Company. SN 641,192. Pub. 3-29-55. Filed 1-23-53.  
608,572. THE PEP BOYS. The Pep Boys—Manny, Moe & Jack. SN 651,724. Pub. 4-5-55. Filed 8-12-53.

## CLASS 16

- 608,573. DURA-SHIELD. The Flintkote Company. SN 625,896. Pub. 4-12-55. Filed 3-4-52.  
608,574. PERMA. The Perma Products Company. SN 647,653. Pub. 4-12-55. Filed 5-25-53.  
608,575. BRAYCO. Bray Oil Company. SN 653,435. Pub. 4-12-55. Filed 9-21-53.  
608,576. BONDURA. Bondura Corporation. SN 654,947. Pub. 4-12-55. Filed 10-19-53.  
608,577. SPRAYCLOTH. Monroe Rapaport, d. b. a. The Vulcan Lacquer and Coating Company. SN 665,781. Pub. 4-12-55. Filed 5-5-54.  
608,578. SELCO VITRO-GLAZE. Selby, Battersby & Co. SN 666,065. Pub. 4-5-55. Filed 5-10-54.  
608,579. KILN JACK. Colonial Refining & Chemical Company. SN 671,722. Pub. 4-12-55. Filed 8-16-54.  
608,580. SPRAY-O-NAMEL. Illinois Bronze Powder Co., Inc. SN 674,075. Pub. 4-12-55. Filed 9-30-54.  
608,581. ROC-CRETE. M. A. Bruder & Sons, Incorporated. SN 674,133. Pub. 4-19-55. Filed 10-1-54.  
608,582. GEMASTIC. Maintenance Products, Inc. SN 674,751. Pub. 4-19-55. Filed 10-13-54.

## CLASS 18

- 608,583. PROPHYLLIQUE AND DESIGN. M. C. Vault, d. b. a. Prophylactic Products Co. SN 634,061. Pub. 4-5-55. Filed 8-16-52.  
608,584. MONICHOL. Ives-Cameron Company, Inc., to American Home Products Corporation. SN 646,288. Pub. 10-27-53. Filed 5-1-53.  
608,585. VALENTAB. Moore and Company, Inc. SN 658,130. Pub. 4-19-55. Filed 12-17-53.  
608,586. GOLDEN FLEECE AND DESIGN. Woll-Wascherel und Kammerel in Dohren bei Hannover. SN 658,428. Pub. 4-12-55. Filed 12-22-53.  
608,587. GUM-A-DYNE. The Harrower Laboratory, Inc. SN 664,755. Pub. 4-19-55. Filed 4-19-54.  
608,588. NUTROMBE. Schenley Laboratories, Inc. SN 665,233. Pub. 4-19-55. Filed 4-26-54.  
608,589. HYPOSTEROL. Societe Anonyme Chimie & Atomistique. SN 667,587. Pub. 4-26-55. Filed 6-2-54.  
608,590. PROHEPARUM. Nordmark-Werke Gesellschaft mit Beschraenkter Haftung. SN 669,625. Pub. 4-19-55. Filed 7-8-54.  
608,591. PETROLINE AND DESIGN. Day-Baldwin Inc. SN 669,973. Pub. 4-12-55. Filed 7-14-54.  
608,592. PRIMATENE. Whitehall Pharmacal Company. SN 670,640. Pub. 3-8-55. Filed 7-26-54.

- 608,593. BIOLATOR. American Cyanamid Company. SN 670,891. Pub. 3-29-55. Filed 8-2-54.  
608,594. ITOL. Larré Laboratories, Inc. SN 670,939. Pub. 3-29-55. Filed 8-2-54.  
608,595. KAFMALAK. Wisconsin Alumni Research Foundation. SN 671,006. Pub. 3-29-55. Filed 8-2-54.  
608,596. BLUCINE. Cutter Laboratories. SN 671,026. Pub. 4-12-55. Filed 8-3-54.  
608,597. MYCITAB. The Upjohn Company. SN 671,281. Pub. 3-29-55. Filed 8-6-54.  
608,598. SELZTABS. Remedia, Inc. SN 671,464. Pub. 3-29-55. Filed 8-10-54.  
608,599. TYZANE. Chas. Pfizer & Co., Inc. SN 671,581. Pub. 4-5-55. Filed 8-12-54.  
608,600. DURA-CORTATE. Schering Corporation. SN 671,593. Pub. 4-12-55. Filed 8-12-54.  
608,601. DURA-PRANTAL. Schering Corporation. SN 671,598. Pub. 4-5-55. Filed 8-12-54.  
608,602. VER-A-LOE. Florida Laboratories Inc. SN 671,819. Pub. 4-12-55. Filed 8-17-54.  
608,603. GESTROPHIN. White Laboratories, Inc. SN 671,873. Pub. 4-12-55. Filed 8-17-54.  
608,604. MEDUPHITES. Armour and Company. SN 671,925. Pub. 4-12-55. Filed 8-19-54.  
608,605. SAF-SLEEP. Frederick Herrschner. SN 671,942. Pub. 4-12-55. Filed 8-19-54.  
608,606. DONNAGEL. A. H. Robins Company, Inc. SN 672,017. Pub. 4-19-55. Filed 8-20-54.  
608,607. SCOFEDRIN-C. Natick Industries Corporation, d. b. a. Natick Pharmacal Laboratories. SN 672,308. Pub. 4-19-55. Filed 8-26-54.  
608,608. EXPASMUS. Martin H. Smith Co. SN 672,540. Pub. 4-12-55. Filed 8-31-54.  
608,609. ZARUMIN. Pharmaceuticals, Inc. SN 672,683. Pub. 4-12-55. Filed 9-2-54.  
608,610. EYE OPENER. Zola Siegal, d. b. a. Vita Chemical Products. SN 672,693. Pub. 4-12-55. Filed 9-2-54.  
608,611. GIARDICIDE. Jessca, Inc. SN 672,739. Pub. 4-12-55. Filed 9-3-54.  
608,612. HYDROBIOTIC. Merck & Co., Inc. SN 672,968. Pub. 4-19-55. Filed 9-9-54.  
608,613. HYDROTRACE. Merck & Co., Inc. SN 672,969. Pub. 4-19-55. Filed 9-9-54.  
608,614. POWERCAPS AND DESIGN. Florida Power & Light Company. SN 673,015. Pub. 4-19-55. Filed 9-10-54.  
608,615. HEMICIN. Walker Laboratories, Inc. SN 673,211. Pub. 4-19-55. Filed 9-14-54.  
608,616. LEDERNEMIA. American Cyanamid Company. SN 673,219. Pub. 4-19-55. Filed 9-15-54.  
608,617. IBP. Pearson Remedy Company, Inc. SN 673,244. Pub. 4-19-55. Filed 9-15-54.  
608,618. LO-TABS. Crookes Laboratories, Inc. SN 673,343. Pub. 4-19-55. Filed 9-17-54.  
608,619. BEBE CREAM. Crookes Laboratories, Inc. SN 673,344. Pub. 4-19-55. Filed 9-17-54.

## CLASS 18

- 608,620. HYDREF. Abbott Laboratories. SN 673,417. Pub. 4-19-55. Filed 9-20-54.  
608,621. TRILETS. American Home Products Corporation, d. b. a. Wyeth Laboratories, Division of American Home Products Corp. SN 676,448. Pub. 4-12-55. Filed 11-12-54.

## CLASS 19

- 608,622. "NEW-EMPRESS." Société Anonyme Nouvelle de Constructions Mécaniques de la Loire "Automoto." SN 641,472. Pub. 4-19-55. Filed 1-28-53.  
608,623. THE CHAMPION. Champion Wheelbarrow Company. SN 647,473. Pub. 4-19-55. Filed 5-22-53.  
608,624. BEAVER AND DESIGN. Leatherwood Manufacturing Company. SN 676,982. Pub. 4-19-55. Filed 11-19-54.

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## CLASS 21

- 608,625. TECHNOGRAPH PRINTED CIRCUITS. Technograph Printed Circuits Incorporated, now by change of name Technograph Printed Electronics Incorporated. SN 622,868. Pub. 4-26-55. Filed 12-26-51.
- 608,626. AUTOTRON. Werner A. Gieseke, d. b. a. The Autotron Company. SN 631,054. Pub. 3-22-55. Filed 6-11-52.
- 608,627. "MUSICIAN'S." David Sarser. SN 639,784. Pub. 4-26-55. Filed 12-19-52.
- 608,628. PROTECT-O-MATIC AND DESIGN. Fire Protection Company. SN 642,276. Pub. 4-19-55. Filed 2-16-53.
- 608,629. OHMLETTE. Dr. Peter Schlumbohm. SN 655,002. Pub. 4-26-55. Filed 10-19-53.
- 608,630. STEREOSONIC SOUND. Sonic Industries, Inc. SN 656,464. Pub. 4-19-55. Filed 11-16-53.
- 608,631. TRANSPAC. Electronic Research Associates, Inc. SN 657,269. Pub. 4-19-55. Filed 12-2-53.
- 608,632. N AND DESIGN. International Telemeter Corporation. SN 659,265. Pub. 4-19-55. Filed 1-11-54.
- 608,633. BLINK-O-LITE AND DESIGN. Algonquin Tool and Die Co. SN 659,915. Pub. 4-26-55. Filed 1-22-54.
- 608,634. WUNDERFUL. Regent Sales, Inc. SN 660,438. Pub. 4-19-55. Filed 2-1-54.
- 608,635. THERMO-REACTOR. A. L. Doering Spark Plug Corp. SN 660,532. Pub. 4-19-55. Filed 2-3-54.
- 608,636. VISIONOLA. David H. Rubinger. SN 660,568. Pub. 4-19-55. Filed 2-3-54.
- 608,637. FERMONT AND DESIGN. International Fermont Machinery Co., Inc. SN 661,895. Pub. 4-19-55. Filed 3-2-54.
- 608,638. RAYDYOT. James Neale and Sons Limited. SN 662,810. Pub. 4-26-55. Filed 3-17-54.
- 608,639. MICRO-LITE. Micro-Lite Company, Inc., to Ray-O-Vac Company. SN 664,457. Pub. 4-26-55. Filed 4-13-54.
- 608,640. RELIOHM. Sanders Associates Incorporated. SN 665,443. Pub. 4-19-55. Filed 4-29-54.
- 608,641. GROUP OF GEOMETRICAL FIGURES. Hughes Aircraft Company. SN 668,842. Pub. 4-19-55. Filed 6-24-54.
- 608,642. "LIPSTIK." Altec Lansing Corporation. SN 670,887. Pub. 4-19-55. Filed 8-2-54.
- 608,643. DE-SNOWER. Jerrold Electronics Corporation. SN 671,037. Pub. 4-19-55. Filed 8-3-54.
- 608,644. RAYCO. Ray-O-Vac Company. SN 671,055. Pub. 4-19-55. Filed 8-3-54.
- 608,645. TRONIC. Ray-O-Vac Company. SN 671,056. Pub. 4-19-55. Filed 8-3-54.
- 608,646. LOXBOX. Appleton Electric Company. SN 671,080. Pub. 4-19-55. Filed 8-4-54.
- 608,647. AP-PHOTOFA. The Associated Press. SN 671,083. Pub. 4-19-55. Filed 8-4-54.
- 608,648. DAGLAS. Phelps Dodge Copper Products Corporation. SN 671,268. Pub. 4-19-55. Filed 8-6-54.
- 608,649. BULLDOG. The Ohio Brass Company. SN 671,367. Pub. 4-19-55. Filed 8-9-54.
- 608,650. RAYLON. Raybestos-Manhattan, Inc. SN 671,374. Pub. 4-19-55. Filed 8-9-54.
- 608,651. ADDIPHON. Creator, A. G. SN 671,403. Pub. 4-19-55. Filed 7-2-54.
- 608,652. UTILIVUE. Diamond Power Specialty Corporation. SN 671,558. Pub. 4-19-55. Filed 8-12-54.
- 608,653. TYNIS SWITCH. The Sessions Clock Company, to Detroit Controls Corporation. SN 671,602. Pub. 4-19-55. Filed 8-12-54.
- 608,654. ZENITH. Marshall-Wells Company. SN 671,655. Pub. 4-19-55. Filed 8-13-54.
- 608,655. THE CHANNELL "SILENT HELPER" TEST BOARD. Channell Splicing Machine Co. SN 671,720. Pub. 4-19-55. Filed 8-16-54.
- 608,656. YANKEE. The Plastic Wire & Cable Corporation. SN 672,178. Pub. 4-19-55. Filed 8-24-54.
- 608,657. HELIDEL. Helipot Corporation. SN 672,230. Pub. 4-19-55. Filed 8-25-54.

- 608,658. MINIROC. Cornell-Dublier Electric Corporation. SN 672,640. Pub. 4-19-55. Filed 9-2-54.
- 608,659. IDEAL. Ideal Corporation. SN 672,668. Pub. 4-19-55. Filed 9-2-54.
- 608,660. MEDI-LITE. George F. Grebey. SN 672,951. Pub. 4-19-55. Filed 9-9-54.

## CLASS 22

- 608,661. OSPREY AND DESIGN. Louis J. Eppinger. SN 639,988. Pub. 4-19-55. Filed 12-24-52.
- 608,662. A RIGHT-TIME TOY ETC. AND DESIGN. Childhood Interests, Inc. SN 653,114. Pub. 12-28-54. Filed 9-14-53.
- 608,663. KLIK. The Pioneer Co. Inc. SN 660,151. Pub. 4-19-55. Filed 1-26-54.
- 608,664. COPS 'N' ROBBERS. Frederick D. Groth. SN 660,941. Pub. 4-19-55. Filed 2-11-54.
- 608,665. WEN-MAC AQUAMITE. Wen-Mac Corporation. SN 662,275. Pub. 4-19-55. Filed 3-8-54.
- 608,666. FARMALL. International Harvester Company. SN 666,666. Pub. 4-19-55. Filed 5-19-54.
- 608,667. JIMMY CRANE. The Associated Merchandising Corporation. SN 666,821. Pub. 4-19-55. Filed 5-21-54.
- 608,668. DANIEL BOONE AND DESIGN. Campers' Supplies, Inc. SN 668,631. Pub. 4-5-55. Filed 6-22-54.
- 608,669. IQ AND DESIGN (REPRESENTATION OF AN EYE ON A GOLF BALL). William W. Carpenter. SN 669,086. Pub. 4-19-55. Filed 6-29-54.
- 608,670. NYBRE. Harry C. Stockfleth, d. b. a. The Sabre Archery Company. SN 669,292. Pub. 4-19-55. Filed 7-1-54.
- 608,671. HILBRE. Harry C. Stockfleth, d. b. a. The Sabre Archery Company. SN 669,293. Pub. 4-19-55. Filed 7-1-54.
- 608,672. D & M AND DESIGN (DOG AND TRIANGLE). MacGregor Sport Products, Inc. SN 669,454. Pub. 4-19-55. Filed 7-6-54.
- 608,673. DINGLE-DANGLE. J. Swedlin Inc. SN 669,504. Pub. 4-19-55. Filed 7-6-54.
- 608,674. CHOLLY HOSS AND DESIGN. American Handle Company. SN 670,150. Pub. 4-19-55. Filed 7-19-54.
- 608,675. DYMONDS AND DESIGN (REPRESENTATION OF TWO DIAMONDS). Ralph T. Dingman, d. b. a. The Dingman Company. SN 670,182. Pub. 4-19-55. Filed 7-19-54.
- 608,676. PEARL-ETS. American Pearl Button Company. SN 670,527. Pub. 4-19-55. Filed 7-26-54.
- 608,677. RING BOWL. Rinvic Products, Inc. SN 670,802. Pub. 4-19-55. Filed 7-29-54.
- 608,678. YOGO. The Plas-Trix Company. SN 672,012. Pub. 4-19-55. Filed 8-20-54.
- 608,679. JETRAIL EXPRESS. Northrop Products, Inc. SN 672,091. Pub. 4-19-55. Filed 8-23-54.

## CLASS 23

- 608,680. NATIONAL WASH-O-MAT AND DESIGN. National Farm Equipment Co., Inc. SN 631,751. Pub. 4-19-55. Filed 6-25-52.
- 608,681. RP. General Motors Corporation. SN 639,035. Pub. 6-1-54. Filed 12-5-52.
- 608,682. LOEWY-HYDROPRESS AND DESIGN. Hydropress, Incorporated. SN 640,939. Pub. 4-19-55. Filed 1-19-53.
- 608,683. BELL FLOWER. Utica Cutlery Company. SN 642,850. Pub. 4-19-55. Filed 2-26-53.
- 608,684. BLUEBELL. Utica Cutlery Company. SN 642,851. Pub. 4-19-55. Filed 2-26-53.
- 608,685. BACON. Bacon Crane & Hoist Company. SN 649,466. Pub. 4-19-55. Filed 6-29-53.
- 608,686. CO-AX. John A. Cupler, II, d. b. a. National Jet Company. SN 651,751. Pub. 4-19-55. Filed 8-13-53.
- 608,687. TRUHONE. F. & B. Products Company. SN 652,713. Pub. 4-26-55. Filed 9-3-53.
- 608,688. HYDRO WASH. Peters-Dalton, Inc. SN 652,891. Pub. 4-26-55. Filed 9-8-53.

- 608,689. P & L. Modern Village Stores, Inc. SN 655,916. Pub. 4-19-55. Filed 11-5-53.
- 608,690. ZEBRA ETC. AND DESIGN. San Giorgio Società Industriale per Azioni. SN 658,658. Pub. 4-26-55. Filed 12-28-53.
- 608,691. CHENEY. Henry Cheney Hammer Corporation. SN 661,321. Pub. 4-19-55. Filed 2-19-54.
- 608,692. PRENTISS. Prentiss Vise Company. SN 661,360. Pub. 4-19-55. Filed 2-19-54.
- 608,693. RO-FLO. Allis-Chalmers Manufacturing Company. SN 661,759. Pub. 4-19-55. Filed 3-1-54.
- 608,694. "TAP." Tap Equipment Co. SN 662,031. Pub. 4-26-55. Filed 3-4-54.
- 608,695. MULTIGROOVE. The Bingham-Herbrand Corporation. SN 662,188. Pub. 4-19-55. Filed 3-8-54.
- 608,696. CCF. The Cleveland City Forge Company. SN 662,418. Pub. 4-19-55. Filed 3-11-54.
- 608,697. KAM-KNURL. Earl W. Tillis, d. b. a. Tillis Manufacturing Co. SN 663,324. Pub. 4-19-55. Filed 3-25-54.
- 608,698. BAG-O-MATIC. The T. Eaton Company Limited. SN 663,565. Pub. 4-19-55. Filed 3-30-54.
- 608,699. PRESS SURE COOL. Associated Engineers, Inc. SN 663,868. Pub. 4-19-55. Filed 4-5-54.
- 608,700. WIK. M. V. Welch, d. b. a. Welch Sales Company. SN 662,239. Pub. 4-19-55. Filed 5-12-54.
- 608,701. UNI-TRACTOR. Minneapolis-Moline Company. SN 666,894. Pub. 4-19-55. Filed 5-21-54.
- 608,702. BARRY B MOUNT. The Barry Corporation, now by change of name Barry Controls Incorporated. SN 670,153. Pub. 4-19-55. Filed 7-19-54.
- 608,703. SPEARHEAD. International Harvester Company. SN 670,741. Pub. 4-19-55. Filed 7-28-54.
- 608,704. SEREDGED. Nut Tree. SN 670,846. Pub. 4-19-55. Filed 7-30-54.
- 608,705. BOPPER. A. A. Somerville, d. b. a. The Carmelita Company. SN 670,859. Pub. 4-19-55. Filed 7-30-54.
- 608,706. RIDE-TRAC. Belsaw Machinery Co. SN 670,892. Pub. 4-26-55. Filed 8-2-54.
- 608,707. MITEECUT. Mitee Manufacturing Company, Inc. SN 670,953. Pub. 4-26-55. Filed 8-2-54.
- 608,708. STAMINA WOOD. Fibron Products, Inc. SN 671,095. Pub. 4-26-55. Filed 8-4-54.
- 608,709. OKELCO AND DESIGN (REPRESENTATION OF A DIAMOND). Orville C. Keller Products Corporation. SN 671,103. Pub. 4-19-55. Filed 8-4-54.
- 608,710. TRIPOD. Vulcan Manufacturing Co., Inc. SN 671,126. Pub. 4-26-55. Filed 8-4-54.
- 608,711. W AND DESIGN (REPRESENTATION OF A HEXAGON). Watson Elevator Company, Inc. SN 671,130. Pub. 4-12-55. Filed 8-4-54.
- 608,712. ROLL-O-MATIC. The Gallon Iron Works & Manufacturing Company. SN 671,426. Pub. 4-12-55. Filed 8-10-54.
- 608,713. TRACTRED. Charles N. Aronson, d. b. a. Aronson Machine Company. SN 671,482. Pub. 4-19-55. Filed 8-11-54.
- 608,714. STRUCK GROOVE. The Torrington Company. SN 671,611. Pub. 4-12-55. Filed 8-12-54.
- 608,715. FLUOPACKER. Food Machinery and Chemical Corporation. SN 671,820. Pub. 4-12-55. Filed 8-17-54.
- 608,716. TORCON AND DESIGN. Torcon Corporation, to Clark Equipment Company. SN 671,969. Pub. 4-12-55. Filed 8-19-54.
- 608,717. FESCO. Fertilizer Equipment Sales Corporation. SN 672,335. Pub. 4-19-55. Filed 8-27-54.
- 608,718. CUSHMAN THE CHUCKMAN, ETC., AND DESIGN. The Cushman Chuck Company. SN 673,084. Pub. 4-26-55. Filed 9-13-54.

## CLASS 26

- 608,719. REPRESENTATION OF A BEE. Bailie Lemaire Fils & Cie. SN 614,645. Pub. 4-19-55. Filed 6-2-51.
- 608,720. ARISTO. Aristo Import Co., Inc. SN 643,203. Pub. 4-19-55. Filed 3-6-53.

- 608,721. GEOMETRIC DESIGN. Chemische Fabriek L. van der Grinten N. V. SN 648,234. Pub. 4-19-55. Filed 6-4-53.
- 608,722. PROTEKTOSITE. Columbia Protektosite Company, Inc., now by merger Curtiss-Wright Corporation. SN 653,624. Pub. 4-19-55. Filed 9-23-53.
- 608,723. REPRESENTATION OF A CIRCLE WITH A BAR. Brooks Rotameter Company. SN 656,543. Pub. 4-19-55. Filed 11-18-53.
- 608,724. KANDU. Paul L. Hexter, Inc. SN 659,716. Pub. 4-19-55. Filed 1-19-54.
- 608,725. ZYGLO. Magnaflex Corporation. SN 660,876. Pub. 4-19-55. Filed 2-10-54.
- 608,726. FRIDEN. Friden Calculating Machine Co., Inc. SN 663,898. Pub. 4-19-55. Filed 4-5-54.
- 608,727. LADYBROW. Universal Optical Company, Inc. SN 671,539. Pub. 4-12-55. Filed 8-11-54.
- 608,728. CTI. Color Television Incorporated. SN 672,048. Pub. 4-19-55. Filed 8-23-54.
- 608,729. THE GELT AND DESIGN (REPRESENTATION OF A GROTESQUE ANIMAL). Terrytoons, Inc. SN 672,257. Pub. 4-19-55. Filed 8-25-54.

## CLASS 27

- 608,730. WINN DIAL HANDS AND DESIGN. J. H. Winn Inc. SN 656,683. Pub. 4-12-55. Filed 11-19-53.

## CLASS 29

- 608,731. Y-PING TOOL. Industrial Wiping Cloth Co., Inc. SN 661,804. Pub. 4-5-55. Filed 3-1-54.
- 608,732. DUSTEEZ. The New York Association for the Blind, Inc. SN 671,189. Pub. 4-5-55. Filed 8-6-54.
- 608,733. TEMPLE AND DESIGN (STAR). Southern Pine Lumber Company. SN 671,682. Pub. 4-5-55. Filed 8-13-54.
- 608,734. TEMPLE. Southern Pine Lumber Company. SN 671,683. Pub. 4-5-55. Filed 8-13-54.
- 608,735. HOME USER. Star Brush Manufacturing Co., Inc. SN 671,684. Pub. 4-5-55. Filed 8-13-54.

## CLASS 31

- 608,736. SANI-GRIP. American Urn Bag Co. Inc. SN 671,548. Pub. 3-29-55. Filed 8-12-54.

## CLASS 34

- 608,737. WALDORF. Waldorf Heater Company. SN 668,709. Pub. 4-5-55. Filed 6-22-54.

## CLASS 35

- 608,738. GENSTRUD. The General Tire & Rubber Company. SN 634,896. Pub. 4-19-55. Filed 9-5-52.
- 608,739. PHILLIPS 66 AND DESIGN (REPRESENTATION OF A SHIELD). Phillips Petroleum Company. SN 665,852. Pub. 4-19-55. Filed 5-6-54.
- 608,740. PHILLIPS 66. Phillips Petroleum Company. SN 665,853. Pub. 4-19-55. Filed 5-6-54.
- 608,741. THOR. The Goodyear Tire & Rubber Company. SN 677,314. Pub. 4-19-55. Filed 11-26-54.

## CLASS 36

- 608,742. RITE-HITE. Louis W. Chaudet, II. SN 659,598. Pub. 4-12-55. Filed 1-18-54.
- 608,743. MUSICAIRE AND DESIGN (REPRESENTATION OF MUSICAL NOTES). Farrington Manufacturing Company. SN 669,321. Pub. 4-5-55. Filed 7-2-54.
- 608,744. MARCHESA. M. Hohner, Inc. SN 669,883. Pub. 4-5-55. Filed 7-13-54.

## CLASS 38

- 608,745. PIPING ENGINEERING. Tube Turns, Inc., to National Cylinder Gas Company. SN 635,447. Pub. 4-5-55. Filed 9-18-52.
- 608,746. BW. & CO. A MARK TO REMEMBER AND DESIGN. Burroughs Wellcome & Co. (U. S. A.) Inc. SN 646,108. Pub. 4-5-55. Filed 4-29-53.
- 608,747. AUTO ODDITIES AND PANEL DESIGN. Anthony J. Koveleski, d. b. a. Scranton Hobby Center. SN 648,410. Pub. 4-5-55. Filed 6-8-53.



- 608,748. ORAL HYGIENE. Oral Hygiene, Inc. SN 657,169. Pub. 4-5-55. Filed 11-30-53.
- 608,749. PUMPING TRENDS. Dresser Equipment Company, d. b. a. Kobe Inc. Division of Dresser Equipment Co., to Kobe, Inc. SN 660,004. Pub. 4-12-55. Filed 1-25-54.
- 608,750. SNOOZ NEWS. McEntire Brothers, Inc. SN 665,213. Pub. 4-12-55. Filed 4-26-54.
- 608,751. MISTER BREGER. The Hearst Corporation. SN 669,262. Pub. 4-12-55. Filed 7-1-54.
- 608,752. BEDDING MERCHANDISER. National Association of Bedding Manufacturers. SN 669,462. Pub. 4-12-55. Filed 7-6-54.
- 608,753. AIM THE MARK OF GOOD MANAGEMENT. American Institute of Management. SN 670,451. Pub. 4-12-55. Filed 7-23-54.
- 608,754. REPRESENTATION OF A SCHOOL HOUSE. Stanley Home Products, Inc. SN 674,104. Pub. 4-5-55. Filed 9-30-54.
- 608,755. FAITH TODAY. Faith Today, Inc. SN 674,149. Pub. 4-5-55. Filed 10-1-54.
- 608,756. SENTINEL. The Plumbers Publishing Company. SN 674,619. Pub. 4-5-55. Filed 10-11-54.

## CLASS 39

- 608,757. AIRE MORE. Avonnac Shoe Company. SN 639,308. Pub. 4-12-55. Filed 12-11-52.
- 608,758. CAMEL CURL AND REPRESENTATION OF CAMEL. Western Garment Company. SN 646,638. Pub. 4-5-55. Filed 5-7-53.
- 608,759. "ANATONE" AND DESIGN WITH LETTER A. Magic Mold, Inc. SN 656,577. Pub. 4-5-55. Filed 11-18-53.
- 608,760. NI-CO AND DESIGN (REPRESENTATION OF A CAP). Tilford K. Blackmon. SN 658,880. Pub. 4-5-55. Filed 1-4-54.
- 608,761. VALERIE ORIGINAL. Princess Peggy, Inc. SN 661,362. Pub. 4-5-55. Filed 2-19-54.
- 608,762. PHYL-FLEX FLAT-TERERS AND DESIGN (REPRESENTATION OF TWO STARS). Phyllis Shoe Co., Inc. SN 664,178. Pub. 4-5-55. Filed 4-8-54.
- 608,763. BELTEX. Riverside Shirt & Underwear Corp. SN 671,466. Pub. 4-5-55. Filed 8-10-54.
- 608,764. BLESSED EVENT. Tretex Dress Co., Inc. SN 674,199. Pub. 4-5-55. Filed 10-1-54.
- 608,765. IT'S A FEIN ORIGINAL. Fein Children's Dress Co. Inc. SN 674,236. Pub. 4-5-55. Filed 10-4-54.
- 608,766. III-FI. Super-Form Brassiere, Inc. SN 674,479. Pub. 4-5-55. Filed 10-7-54.
- 608,767. VIP. Perdue Manufacturing Company. SN 674,691. Pub. 4-12-55. Filed 10-12-54.

## CLASS 40

- 608,768. "DURA-GRIP." Dura Grip, Inc. SN 663,726. Pub. 4-12-55. Filed 4-1-54.
- 608,769. UP-TILT. S & G Rubber Company. SN 663,955. Pub. 4-12-55. Filed 4-5-54.
- 608,770. AMERBAC. American Cutting and Binding Company. SN 670,526. Pub. 4-12-55. Filed 7-26-54.

## CLASS 42

- 608,771. CUENELLA. Deering, Milliken & Co., Inc. SN 634,311. Pub. 4-12-55. Filed 8-22-52.
- 608,772. VERDETTE. Verd Mont Woolen Mills, Inc. SN 640,764. Pub. 6-29-54. Filed 1-14-53.
- 608,773. D'OR LAINE. Greyhaine Mills, Inc. SN 645,706. Pub. 4-12-55. Filed 4-22-53.
- 608,774. RAKASHAN. Dan River Mills, Incorporated. SN 663,771. Pub. 4-12-55. Filed 4-2-54.
- 608,775. WASH 'N' SMILE. William Rothlein, Inc. SN 664,623. Pub. 4-12-55. Filed 4-15-54.
- 608,776. HARDY WEAR. James G. Hardy & Co. Inc. SN 668,320. Pub. 4-5-55. Filed 6-16-54.
- 608,777. RESON. Boston Fabrics Corporation. SN 671,486. Pub. 4-5-55. Filed 8-11-54.
- 608,778. LADY BETSY. Fieldcrest Mills, Inc., d. b. a. Lady Betsy Textiles. SN 672,146. Pub. 4-12-55. Filed 8-24-54.

- 608,779. SIGNET. Signet Club Plan. SN 672,264. Pub. 4-5-55. Filed 8-25-54.
- 608,780. "TUBBY TUB." Dumari Textile Co., Inc. SN 672,877. Pub. 4-12-55. Filed 9-8-54.
- 608,781. INNERSPRING WEAVE. Alexander Smith, Incorporated. SN 673,060. Pub. 4-12-55. Filed 9-10-54.

## CLASS 43

- 608,782. TRU-SET. Coats & Clark Inc. SN 646,602. Pub. 4-12-55. Filed 5-7-53.
- 608,783. BEMBERG ADLER. Beaunit Mills, Inc. SN 648,473. Pub. 4-12-55. Filed 6-9-53.
- 608,784. ROYARN. Robinson Yarns, Inc. SN 674,695. Pub. 4-12-55. Filed 10-12-54.

## CLASS 44

- 608,785. SITTUP AND DESIGN. Bernard W. Tichy, d. b. a. Noair Manufacturing Company. SN 667,657. Pub. 4-12-55. Filed 6-3-54.
- 608,786. MAXICON. General Electric Company. SN 668,834. Pub. 4-5-55. Filed 6-24-54.
- 608,787. SURGILOPE. Davis & Geck, Inc. SN 668,895. Pub. 4-5-55. Filed 6-25-54.
- 608,788. JOHNSON'S. Johnson & Johnson. SN 668,906. Pub. 4-5-55. Filed 6-25-54.

## CLASS 46

- 608,789. TEXAS BRAGS AND DESIGN. Texas Brags—World's Finest Foods, Inc. SN 602,980. Pub. 4-22-52. Filed 8-30-50.
- 608,790. VERIFINE. Verifine Dairy Products Corporation of Sheboygan Inc., d. b. a. Verifine Dairy Products Company. SN 630,524. Pub. 4-19-55. Filed 5-29-52.
- 608,791. PENN DUTCH AND REPRESENTATION OF A BARN WALL. Penn-Dutch Lebanon Bologna, Inc. SN 632,098. Pub. 3-29-55. Filed 7-2-52.
- 608,792. THE MIRACLE BREAD AND DESIGN. Bon Ton, Inc. of Bozeman. SN 639,311. Pub. 4-19-55. Filed 12-11-52.
- 608,793. PENN-DUTCH. Penn-Dutch Lebanon Bologna, Inc. SN 641,793. Pub. 3-29-55. Filed 2-5-53.
- 608,794. PENN DUTCH AND DESIGN. Penn-Dutch Lebanon Bologna, Inc. SN 641,794. Pub. 3-29-55. Filed 2-5-53.
- 608,795. SOUTHERN FARE. Arthur Bauer, d. b. a. Arthur Bauer Plantation Products and Bauer's Fine Foods. SN 642,124. Pub. 4-19-55. Filed 2-12-53.
- 608,796. WITHDRAWN.
- 608,797. X-CELLO. Vegetable Oil Products Company, Inc. SN 650,950. Pub. 3-30-54. Filed 7-27-53.
- 608,798. REPRESENTATION OF A BEE AND AN ORANGE. Tropical Blossom Honey Company. SN 652,440. Pub. 9-21-54. Filed 8-27-53.
- 608,799. SALA-OIL. Armour and Company, d. b. a. Lookout Oil & Refining Co. SN 653,052. Pub. 4-12-55. Filed 9-11-53.
- 608,800. HEAVY-DUTY AND DESIGN. The Southern Cotton Oil Company. SN 653,332. Pub. 4-19-55. Filed 9-17-53.
- 608,801. T G CO AND DESIGN (FANCIFUL). The Grange Company. SN 654,051. Pub. 4-19-55. Filed 10-1-53.
- 608,802. PAN-FREE. Russell K. Wells, d. b. a. Gifts 'n Gadgets. SN 656,136. Pub. 4-19-55. Filed 11-9-53.
- 608,803. FLAV-R-PAC. North Pacific Cannery & Packers, Inc. SN 656,899. Pub. 4-12-55. Filed 11-24-53.
- 608,804. JFG SPECIAL. J. F. G. Coffee Company. SN 658,788. Pub. 4-19-55. Filed 12-30-53.
- 608,805. RIVIERA. Riviera Packing Company. SN 659,494. Pub. 4-19-55. Filed 1-14-54.
- 608,806. MRS. VOOGTS. Dainty Maid Candy Co. SN 659,994. Pub. 4-12-55. Filed 1-25-54.
- 608,807. CREAMSICLE. Joe Lowe Corporation. SN 662,373. Pub. 4-12-55. Filed 3-10-54.
- 608,808. DREAMSICLE. Joe Lowe Corporation. SN 662,374. Pub. 4-12-55. Filed 3-10-54.

- 608,809. FUDGSICLE. Joe Lowe Corporation. SN 662,375. Pub. 4-12-55. Filed 3-10-54.
- 608,810. RESSEGUIE'S ROYAL. Leon Ressegule, d. b. a. B. Ressegule & Son. SN 662,469. Pub. 4-12-55. Filed 3-11-54.
- 608,811. FRONTIER DAYS. Haelan Laboratories, Inc. SN 662,731. Pub. 4-19-55. Filed 3-16-54.
- 608,812. FIREFIGHTERS. Haelan Laboratories, Inc. SN 662,732. Pub. 4-19-55. Filed 3-16-54.
- 608,813. SEA-SOL (SOLUBLES FROM THE SEA). Good-Life Chemicals, Inc. SN 664,667. Pub. 4-12-55. Filed 4-16-54.
- 608,814. INDIAN BRAND AND DESIGN. Agress Nut & Seed Co. SN 665,672. Pub. 4-19-55. Filed 5-4-54.
- 608,815. BIRD DESIGN. J. A. Folger & Company. SN 666,011. Pub. 4-19-55. Filed 5-10-54.
- 608,816. DAITCH DAYPAK AND DESIGN. Daitch Crystal Dairies, Inc. SN 666,739. Pub. 4-12-55. Filed 5-20-54.
- 608,817. TEXAID. General Baking Company. SN 666,749. Pub. 4-19-55. Filed 5-20-54.
- 608,818. FEMALE CARICATURE IN THE FORM OF A PEANUT. David Der Halbedian, d. b. a. David & Sons. SN 666,949. Pub. 4-19-55. Filed 5-24-54.
- 608,819. BETSY ROSS FLOUR AND DESIGN. International Milling Company. SN 666,957. Pub. 4-12-55. Filed 5-24-54.
- 608,820. PET. San Dimas Lemon Association. SN 668,201. Pub. 2-22-55. Filed 6-14-54.
- 608,821. SWIRL. Fisher Cheese Company. SN 668,983. Pub. 4-19-55. Filed 6-28-54.
- 608,822. VAF. Anderson, Clayton & Co. SN 669,849. Pub. 4-12-55. Filed 7-13-54.
- 608,823. BROUGHTON AND DESIGN. Broughton's Farm Dairy, Inc. SN 670,329. Pub. 4-12-55. Filed 7-21-54.
- 608,824. BROUGHTON B AND DESIGN. Broughton's Farm Dairy, Inc. SN 670,330. Pub. 4-12-55. Filed 7-21-54.
- 608,825. FAT BOY. Wynpee's, Inc. SN 670,396. Pub. 4-19-55. Filed 7-21-54.
- 608,826. PROSPERITY. Anton Caratan & Son. SN 671,016. Pub. 4-19-55. Filed 8-3-54.
- 608,827. PECOLONE. William Faehndrich, Inc. SN 671,245. Pub. 4-19-55. Filed 8-6-54.
- 608,828. REPRESENTATION OF A HOBBY HORSE ON SHIELD. Fine Products Corporation, d. b. a. Hollingsworth's. SN 671,423. Pub. 4-19-55. Filed 8-10-54.
- 608,829. MY HOBBY BOX. Fine Products Corporation, d. b. a. Hollingsworth's. SN 671,423. Pub. 4-19-55. Filed 8-10-54.
- 608,830. CRYSTAL SPRINGS. Crystal Spring Packing Co., Inc., d. b. a. Crystal Springs Packing Co. SN 671,724. Pub. 4-12-55. Filed 8-16-54.
- 608,831. ALBABEST AND DESIGN (REPRESENTATION OF A PENNANT). Fidelity Trading Co., Inc. SN 671,732. Pub. 4-12-55. Filed 8-16-54.
- 608,832. KUZZEN'S. Lipman and Lipman, Inc. SN 672,003. Pub. 4-19-55. Filed 8-20-54.
- 608,833. MEDO-GREEN. Monsanto Chemical Company. SN 672,342. Pub. 4-19-55. Filed 8-27-54.
- 608,834. FLAVOR KIST. Walla Walla Canning Company. SN 672,463. Pub. 4-12-55. Filed 8-30-54.
- 608,835. INLAND VALLEY. Walla Walla Canning Company. SN 672,464. Pub. 4-12-55. Filed 8-30-54.
- 608,836. AROMA-PEP. Dorsey S. Dunlap, d. b. a. Dunwlin Company. SN 672,571. Pub. 4-12-55. Filed 9-1-54.
- 608,837. PAVIA PROCESSED P AND DESIGN. Pavia Process, Inc. SN 672,682. CERTIFICATION MARK. Pub. 4-19-55. Filed 9-2-54.
- 608,838. MAXAKO. Fisher Flouring Mills Company. SN 672,934. Pub. 4-19-55. Filed 9-9-54.
- 608,839. MERAKO. Fisher Flouring Mills Company. SN 672,935. Pub. 4-19-55. Filed 9-9-54.

- 608,840. MONTOP. Fisher Flouring Mills Company. SN 672,936. Pub. 4-19-55. Filed 9-9-54.
- 608,841. SOLAR WAY. Mars, Incorporated. SN 674,083. Pub. 4-19-55. Filed 9-30-54.

## CLASS 49

- 608,842. CHERRY KARISE. Leroux and Company, Inc. SN 669,994. Pub. 4-12-55. Filed 7-14-54.

## CLASS 50

- 608,843. STAY-STEM. Regan Manufacturing Corp. SN 664,180. Pub. 4-12-55. Filed 4-8-54.
- 608,844. ANAGRAMS. Coca-Cola Bottling Company of Watertown, So. Dak. SN 665,095. Pub. 4-12-55. Filed 4-23-54.
- 608,845. SMARGANA. Coca-Cola Bottling Company of Watertown, So. Dak. SN 665,096. Pub. 4-5-55. Filed 4-23-54.
- 608,846. REDI-LAST. Oscar N. Eisendrath, d. b. a. United States Dowel Co. SN 666,450. Pub. 4-12-55. Filed 5-17-54.
- 608,847. CUSTOMCRAFT AND DESIGN. Geo. A. Curtright. SN 667,223. Pub. 4-12-55. Filed 5-27-54.
- 608,848. FLUROTYP. Illinois Electrotyping Company. SN 668,999. Pub. 4-5-55. Filed 6-28-54.
- 608,849. AMERICAN HOME. Goodren Products Corporation. SN 669,327. Pub. 4-12-55. Filed 7-2-54.
- 608,850. LIFE-LITE. Living Plastics, Inc. SN 669,342. Pub. 4-5-55. Filed 7-2-54.
- 608,851. TEXTURE-FLEX. Chester Rakeman Scenic Studios, Inc. SN 669,358. Pub. 4-5-55. Filed 7-2-54.
- 608,852. BIRD'S EYE AND DESIGN (BIRD). Sigmund Silver. SN 669,492. Pub. 4-5-55. Filed 7-6-54.
- 608,853. POP-TOP. Crown Cork & Seal Company, Inc. SN 669,531. Pub. 4-5-55. Filed 7-7-54.

## CLASS 51

- 608,854. CHLORO-COLOGNE DE SCHIAPARELLI. Parfums Schiaparelli, Inc. SN 633,429. Pub. 4-12-55. Filed 8-2-52.
- 608,855. SUN-FLUFF BY SKOL. The J. B. Williams Company. SN 669,226. Pub. 3-15-55. Filed 6-30-54.

## CLASS 52

- 608,856. BOL-O-SUDS AND DESIGN. F. B. Okje. SN 640,690. Pub. 4-19-55. Filed 1-13-53.
- 608,857. MAD MIST. M. A. D. Products, Inc. SN 643,598. Pub. 6-1-54. Filed 3-13-53.
- 608,858. STAGE. Colgate-Palmolive-Peet Company, now by change of name Colgate-Palmolive Company. SN 653,903. Pub. 4-19-55. Filed 9-29-53.
- 608,859. RECOMMENDED BY PETER PUTTER AND DESIGN (REPRESENTATION OF A HUMAN MALE HEAD). Schalk Chemical Company. SN 667,347. Pub. 4-19-55. Filed 5-28-54.
- 608,860. FEATHER FOAM AND DESIGN. Phillip A. Barone, d. b. a. Roberta Barron Co. SN 669,961. Pub. 4-19-55. Filed 7-14-54.
- 608,861. MAGNA-KROM. August U. Mangifest, d. b. a. Magna-Krom. SN 670,202. Pub. 4-19-55. Filed 7-20-54.
- 608,862. VELVELENE. James E. Grice, d. b. a. Jas. E. Grice Chemical Co. SN 672,511. Pub. 4-19-55. Filed 8-31-54.
- 608,863. HIDDEN MAGIC. The Procter & Gamble Company. SN 672,977. Pub. 4-19-55. Filed 9-9-54.

## Service Marks

## CLASS 100

- 608,864. M D A ETC. AND DESIGN. Marking Device Association. SN 639,485. Pub. 4-19-55. Filed 12-15-52.
- 608,865. PRODUCTIONEERS FOR INDUSTRY. Douglas Tool Company. SN 645,037. Pub. 4-12-55. Filed 4-10-53.
- 608,866. CARBONEERING. Speer Carbon Company. SN 659,675. Pub. 4-19-55. Filed 1-18-54.



608,867. ODELL DEMOUNTABLE SCHOOL SYSTEM AND DESIGN. Edward E. Odell. SN 660,218. Pub. 4-12-55. Filed 1-27-54.

608,868. OFFICIAL PORT O CALL AND REPRESENTATION OF A LIGHTHOUSE. Houston Branch, d. b. a. The Sportsman's Handbook. SN 661,314. CERTIFICATION MARK. Pub. 4-12-55. Filed 2-19-54.

608,869. ARCO APPLIED RADIATION CORPORATION AND DESIGN. Applied Radiation Corporation. SN 665,880. Pub. 4-19-55. Filed 5-7-54.

608,870. THOROPHOTO. Thorobred Photo Service, Inc. SN 670,628. Pub. 4-12-55. Filed 7-26-54.

608,871. EDGAR TOBIN AERIAL SURVEYS AND DESIGN (REPRESENTATION OF A MAP OF U. S. AND WING DESIGN). Margaret Batts Tobin. SN 672,192. Pub. 4-12-55. Filed 8-24-54.

608,872. FEAST HOUSE. Feast House, Inc. SN 672,650. Pub. 4-19-55. Filed 9-2-54.

608,873. PROTECTED DIAPERS ETC. AND DESIGN. The Diaper Service Institute of America. SN 673,168. CERTIFICATION MARK. Pub. 4-12-55. Filed 9-14-54.

## CLASS 101

608,874. SELLING MUSCLES. R. M. Hibbs, d. b. a. Mail-sales Productions. SN 642,351. Pub. 4-19-55. Filed 2-17-53.

608,875. REPRESENTATION OF AN EYE AND WHEEL. Bausch & Lomb Optical Company. SN 650,769. Pub. 4-19-55. Filed 7-24-53.

608,876. IR AND DESIGN. Informative Research. SN 665,914. Pub. 4-19-55. Filed 5-7-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 12

608,887. C. Conradty, Nurnberg, Germany. SN 679,213. Filed 12-31-54.

## CONRADTY

For Carbon and Graphite Blocks for Lining Tanks, Baths, Containers and Apparatus, and for the Construction of Chemical Equipment.

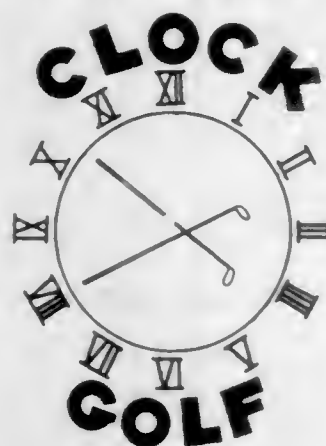
## CLASS 22

608,888. Vogue Dolls, Inc., Medford, Mass. SN 656,679. Filed 11-19-53.

## FASHION LEADERS IN DOLL SOCIETY

For Dolls and Doll Accessories—Namely, Clothes, Spectacles, and Wigs.  
Use since March 1924.

608,889. The Clock Golf Company, Fort Worth, Tex. SN 663,721. Filed P. R. 4-1-54. Am. S. R. 10-27-54.



For Outdoor or Indoor Golf Game Characterized by a Putting Course Consisting of the Numerals of a Clock, Said Game Being Played With Golf Balls and Golf Clubs.  
Use since July 22, 1953.

## CLASS 102

608,877. CS AND DESIGN. Charge System, Inc. SN 637,426. Pub. 4-19-55. Filed 10-31-52.

608,878. ICT GROUP BUILDING A BETTER AMERICA AND DESIGN. Jack Cage & Company. SN 651,972. Pub. 4-12-55. Filed 8-18-53.

608,879. SOUTHERN COMMERCIAL & SAVINGS BANK AND DESIGN. Southern Commercial & Savings Bank. SN 661,041. Pub. 4-12-55. Filed 2-12-54.

## CLASS 103

608,880. "OTTO THE ORKIN MAN." Orkin Exterminating Co., Inc. SN 623,445. Pub. 4-12-55. Filed 1-2-52.

608,881. CALL "OTTO" THE ORKIN MAN AND DESIGN. Orkin Exterminating Co., Inc. SN 629,214. Pub. 4-12-55. Filed 5-5-52.

## CLASS 104

608,882. DREAM GIRL. Gordon Broadcasting Company. SN 669,423. Pub. 4-12-55. Filed 7-6-54.

## CLASS 105

608,883. PAMOSA. Jean Leo Alfandari, d. b. a. Pacific Motor Sales. SN 643,528. Pub. 4-12-55. Filed 3-12-53.

## CLASS 106

608,884. VATRU-SET. North Carolina Finishing Company. SN 666,125. Pub. 4-19-55. Filed 5-11-54.

608,885. LAUND-A-FORT. United Merchants and Manufacturers, Inc. SN 671,691. Pub. 4-19-55. Filed 8-13-54.

608,886. CANTAVONE. American Electro Products, Inc. SN 680,564. Pub. 4-12-55. Filed 11-24-54.

## CLASS 26

608,890. The FR Corporation, New York, N. Y. SN 678,913. Filed 12-24-54.

## PRINTRAY

For Trays for Processing Photographic Films and Papers.  
Use since Nov. 3, 1947.

## CLASS 34

608,891. Robert D. Spickler, Mamaroneck, N. Y. SN 657,080. Filed P. R. 11-2-53. Am. S. R. 10-29-54.

## SUPERSTONE

For Hot Water Storage Tanks.  
Use since Aug. 15, 1949.

## CLASS 37

608,892. The Philadelphia Sketch Club, Philadelphia, Pa. SN 661,288. Filed 2-18-54.



For Engagement Calendars.  
Use since October 1952.

## CLASS 38

608,893. Dell Publishing Company, Inc., New York, N. Y. SN 675,970. Filed 11-3-54.

HOLLYWOOD  
yearbook

For Magazine Published Annually.  
Use since Jan. 11, 1950.

## CLASS 39

608,894. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. SN 613,416. Filed 5-2-51.

## ' ' PASADENA ' '

For Women's Shoes Made of Rubber and Leather or Fabric or Combinations Thereof.  
Use since Apr. 2, 1948.

608,895. Howard & Foster Co., Inc., Brockton, Mass. SN 648,756. Filed P. R. 6-15-53. Am. S. R. 3-9-55.

## Miami-Ties

For Shoes for Use by Men and Women.  
Use since August 1952.

608,896. Lewel Manufacturing Company, Inc., New York, N. Y. SN 660,601. Filed P. R. 2-4-54. Am. S. R. 4-20-55.



For Girdles and Brassières.  
Use since Dec. 28, 1953.

608,897. Binky Baby Products Company, New York, N. Y. SN 662,599. Filed P. R. 3-15-54. Am. S. R. 3-31-55.

## Superlatex

For Baby Pants.  
Use since Feb. 2, 1954.

608,898. Knit Products Corporation, Belmont, N. C. SN 662,800. Filed P. R. 3-17-54. Am. S. R. 3-17-55.

COLOR  
COORDINATES

For Hosiery for Ladies.  
Use since Jan. 15, 1954.  
TM 696 O. G.—10

608,899. I. C. Isaacs & Company, Inc., Baltimore, Md. SN 663,285. Filed P. R. 3-25-54. Am. S. R. 3-28-55.



For Dungarees.  
Use since Aug. 27, 1953.

608,900. Edward L. Newman & Company, New York, N. Y. SN 665,131. Filed 4-23-54.



For Bibs, Bathrobes.  
Use since Aug. 18, 1947.

608,901. The William Carter Company, Needham Heights, Mass. SN 675,763. Filed 11-1-54.

## Handy-Cuffs

For Children's Nightwear, Including Gowns and Sleeping Bags.  
Use since May 29, 1951.

## CLASS 40

608,902. Walter G. Wetherhead, Springfield, Vt. SN 640,059. Filed P. R. 12-26-52. Am. S. R. 7-6-54.

## THE E-Z BO TYER

For Bow Tying Devices in Which a Board and Adjustable Pegs Provide Jigs for Forming Ribbons and the Like Into Bows.  
Use since Nov. 1, 1951.

## CLASS 42

608,903. D. B. Fuller & Co., Inc., New York, N. Y. SN 675,210. Filed 10-21-54.

## FULLERTEX

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres and Mixtures Thereof.  
Use since July 20, 1953.

## CLASS 46

608,904. Crystal Pure Candy Co., Chicago, Ill. SN 624,078. Filed P. R. 1-25-52. Am. S. R. 3-23-54.

## TOT POPS

For Candy.  
Use since Jan. 19, 1952.



- 608,905. Mountain View Canning Company, Seagrove, N. C., to Luck's, Incorporated, Seagrove, N. C. SN 641,686. Filed P. R. 2-3-53. Am. S. R. 12-20-54.
- 608,910. Ore-Ida Potato Products, Inc., Ontario, Oreg. SN 676,222. Filed P. R. 11-8-54. Am. S. R. 4-20-55.

**LUCK'S**  
*Country Style*

For Canned Pork and Beans.  
Use since Dec. 1, 1950.

- 608,906. Mitchell M. Konarski, Jr., Medina, Ohio. SN 647,504. Filed P. R. 5-22-53. Am. S. R. 1-18-55.



For Packaged Frozen Chickens.  
Use since Oct. 23, 1952.

- 608,907. Hijos de Daniel Espany S. A., Osuna, Spain. SN 651,827. Filed 8-14-53.

*Espany*

For Olives and Olive Oil in Cans, Jars or Bottles.

- 608,908. B. Heller & Company, Chicago, Ill. SN 653,974. Filed P. R. 9-30-53. Am. S. R. 1-6-55.

*The Microsized Cure*

For Pickling and Curing Compound.  
Use since June 8, 1953.

- 608,909. Schwen Ice Cream & Candy Company, Blue Earth, Minn. SN 667,451. Filed P. R. 6-1-54. Am. S. R. 3-17-55.

*"Always Good"*

For Ice Cream.  
Use since in the year of 1946.



The drawing is lined for yellow, red (maroon), brown, green and blue.  
For Frozen Shredded Potato Patties.  
Use since Feb. 1, 1954.

- 608,911. Sanna Dairies, Inc., Madison, Wis. SN 677,816. Filed 12-6-54.

**Coffee Rich**

For Powdered Dry Dairy Product for Use in Coffee in Place of Cream.  
Use since Nov. 3, 1953.

## CLASS 51

- 608,912. Lexicon Products Inc., St. Paul, Minn. SN 649,792. Filed P. R. 7-3-53. Am. S. R. 1-17-55.

*"O-So-Kool"*

For Preparation in Stick Form, Prepared for Use for Hot, Tired Feet.  
Use since June 4, 1953.

- 608,913. George E. Johnson, d. b. a. Johnson Products Company, Chicago, Ill. SN 672,157. Filed 8-24-54.



For Preparation for Straightening the Hair.  
Use since May 26, 1953.

## CLASS 52

- 608,914. Liquid Glaze, Incorporated, Lansing, Mich. SN 625,989. Filed P. R. 3-5-52. Am. S. R. 4-30-54.

**Chrome-gard**

For Kit Comprising a Rust Dissolver and a Liquid Coating for Car Bumpers, Grills, and Other Chrome Trim, for Sporting Equipment, Such as Golf Clubs and Fishing Rods, for Outdoor Signs, Metal Window Trim, and Household Fixtures.  
Use since February 1951.

- 608,915. Farbach Chemical Company, Cincinnati, Ohio. SN 634,196. Filed P. R. 8-20-52. Am. S. R. 4-21-54.

**Dip-Off**  
**TARNISH**  
**SILVER CLEANER**  
by **FAR**

For Liquid Silver Cleaner.  
Use since July 1, 1952.

- 608,916. Panther Oil & Grease Mfg. Co., Fort Worth, Tex. SN 655,271. Filed P. R. 10-23-53. Am. S. R. 9-17-54.

**RIG - WASH**

For Chemical Detergent Designed Specifically and Primarily for Cleaning Oil Field Installations and Equipment.  
Use since July 24, 1953.

Service Marks  
CLASS 100

- 608,917. Fulton Recording Company, New York, N. Y. SN 621,880. Filed P. R. 11-30-51. Am. S. R. 12-4-53.

**CLEAN SOUND**

For Recording Commercial Announcements, Motion Picture Sound Tracks, Remotes, Air Checks, Dubbings and Pressings, and Supplying Recordings on Records and on Tapes.  
Use since Nov. 6, 1951.

## CLASS 102

- 608,918. Clifton E. Powers, d. b. a. Trailer Brokerage Service Company, Lansing, Mich. SN 615,994. Filed P. R. 7-2-51. Am. S. R. 8-26-54.



For Selling New and Used Trailers or Automobiles for Banks, Finance Companies, Corporations, Individual or the Like on a Brokerage Contract Basis.  
Use since June 15, 1949.

## CLASS 105

- 608,919. Atlas Travel Service, Inc., Tampa, Fla. SN 668,718. Filed P. R. 6-23-54. Am. S. R. 5-2-55.

**FLORIDA**  
**Thrifty**  
**TOURS**

For Travel Agency Services—Namely, Making Arrangements for Transportation, Accommodations, Transfers and Sightseeing in Connection With Travel and Tours.  
Use since Apr. 1, 1954.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                         |                                                       |
|---------------------------------------------------------|-------------------------------------------------------|
| 11,863. VALOID. Cl. 18. 1-20-85.                        | 326,151. KORECTA. Cl. 44. 7-16-35.                    |
| 103,846. BRISTO. Cl. 13. 4-20-15.                       | 326,595. STREIT'S ETC. AND DESIGN. Cl. 46. 7-30-35.   |
| 104,086. BROWNHOIST. Cl. 23. 4-27-15.                   | 327,006. COLORITE. Cl. 37. 8-13-35.                   |
| 105,237. BUTTERCUP AND DESIGN. Cl. 42. 7-13-15.         | 327,261. AIR-WAY. Cl. 23. 8-20-35.                    |
| 315,468. CASE'S. Cl. 46. 7-31-34.                       | 327,305. ROCK HAVEN. Cl. 39. 8-20-35.                 |
| 322,342. DIABLO GOLD. Cl. 46. 3-5-35.                   | 327,311. FANSEPAKT. Cl. 46. 8-20-35.                  |
| 322,418. FEROX. Cl. 18. 3-5-35.                         | 327,518. BERYL. Cl. 37. 8-27-35.                      |
| 323,506. PETROMULSION. Cl. 18. 4-16-35.                 | 327,676. AIRSTEP AND DESIGN. Cl. 39. 9-3-35.          |
| 323,595. CORENCO CRCO AND DESIGN. Cl. 15. 4-23-35.      | 327,765. DRYETTE. Cl. 42. 9-3-35.                     |
| 323,765. BRISTOL'S. Cl. 26. 4-30-35.                    | 327,845. HAZELUG. Cl. 50. 9-3-35.                     |
| 323,811. BARONET. Cl. 47. 4-30-35.                      | 327,920. I L R AND DESIGN. Cl. 14. 9-10-35.           |
| 323,854. CORENCO CRCO AND DESIGN. Cl. 46. 5-7-35.       | 327,923. EARLY RISER. Cl. 46. 9-10-35.                |
| 324,017. REGAL AND DESIGN. Cl. 48. 5-7-35.              | 327,934. WOOD'S WINTER-GREEN ETC. Cl. 1. 9-10-35.     |
| 324,411. SPEED CASE. Cl. 14. 5-21-35.                   | 327,983. LUGGAGE AND LEATHER GOODS. Cl. 38. 9-10-35.  |
| 324,468. THOMSON'S CLAN MACGREGOR ETC. Cl. 49. 5-21-35. | 327,984. LOVE RINGS AND DESIGN. Cl. 28. 9-10-35.      |
| 324,481. NOBBY. Cl. 22. 5-21-35.                        | 328,117. CELO-VEL AND DESIGN. Cl. 37. 9-17-35.        |
| 324,606. HAVANAIRE. Cl. 39. 5-21-35.                    | 328,340. MIRA. Cl. 46. 9-24-35.                       |
| 324,648. ZIP. Cl. 18. 5-28-35.                          | 328,352. GOLDEN WEDDING. Cl. 17. 9-24-35.             |
| 324,678. SOLEX. Cl. 33. 5-28-35.                        | 328,430. GEM. Cl. 51. 9-24-35.                        |
| 324,765. INLUBE. Cl. 16. 5-28-35.                       | 328,521. FULCO TRAV-L-BAG. Cl. 3. 10-1-35.            |
| 325,141. REPRESENTATION OF CHILD. Cl. 46. 6-11-35.      | 328,522. FULCO GILT EDGE. Cl. 50. 10-1-35.            |
| 325,381. COUNTRY CLUB. Cl. 10. 6-18-35.                 | 328,557. THINTEX. Cl. 39. 10-1-35.                    |
| 325,788. BURNSIDE ETC. AND DESIGN. Cl. 49. 7-2-35.      | 328,572. ROCK POINT. Cl. 46. 10-1-35.                 |
| 325,800. BINDINVELOPE. Cl. 37. 7-2-35.                  | 328,594. DESIGN OF CROWN AND SHIELD. Cl. 49. 10-1-35. |
| 326,039. HYGEENIDS. Cl. 18. 7-9-35.                     | 328,600. VELVETEX. Cl. 32. 10-1-35.                   |
| 326,117. TALBOT. LONDON AND DESIGN. Cl. 19. 7-16-35.    |                                                       |
| 326,144. SCAMPER. Cl. 22. 7-16-35.                      |                                                       |



- 328,624. MANFORM. Cl. 39. 10-1-35.  
 328,670. DESIGN OF STOCKING WITH RED TOE. Cl. 39. 10-1-35.  
 328,671. DESIGN OF STOCKING WITH ORANGE TOE. Cl. 39. 10-1-35.  
 328,683. STURDIBOY. Cl. 39. 10-1-35.  
 328,703. LANBRY. Cl. 39. 10-1-35.  
 328,730. ROYAL SPORTSMAN. Cl. 39. 10-1-35.  
 328,869. COINTREAU AND DESIGN. Cl. 49. 10-8-35.  
 328,941. SHAW ETC. Cl. 49. 10-8-35.

## TRADEMARK REGISTRATIONS CANCELED

## Section 8

- 73,818. SOLID GRIP. Cl. 2. 5-25-09.  
 73,819. GOLD DUST. Cl. 2. 5-25-09.  
 73,835. HAZEL. Cl. 2. 5-25-09.  
 73,838. RIVAL. Cl. 2. 5-25-09.  
 77,343. ANITA. Cl. 46. 3-29-10.  
 175,121. TWIN DIAMOND AND DESIGN. Cl. 46. 10-30-23.  
 179,877. K AND DESIGN. Cl. 22. 2-19-24.  
 184,010. A BASCO PRODUCT AND DESIGN. Cl. 21. 5-13-24.  
 195,003. BASCO AND DESIGN. Cl. 25. 2-17-25.  
 199,693. A BASCO PRODUCT AND DESIGN. Cl. 25. 6-16-25.  
 222,612. "VERSALITE". Cl. 31. 1-4-27.  
 231,080. INVINCIBLE. Cl. 39. 8-9-27.  
 237,072. COBB'S AND DESIGN. Cl. 6. 1-3-28.  
 254,437. FRENCH SHRINER & URNER AND DESIGN. Cl. 39. 3-26-29.  
 256,423. REPRESENTATION OF HUMAN FIGURE, ETC. Cl. 12. 5-14-29.  
 262,143. SHRINER AND DESIGN. Cl. 39. 10-1-29.  
 269,359. RAYLO. Cl. 39. 4-1-30.  
 276,387. FRED KELLY BROADWAY AND DESIGN. Cl. 39. 10-21-30.  
 296,330. PABCO. Cl. 52. 8-2-32.  
 301,810. LUCKY STRIKE. Cl. 46. 3-14-33.  
 305,659. FREEMAN SHOCK-EASER ARCH MASTER-FITTER. Cl. 39. 8-22-33.  
 315,995. SHE WALKS IN LOVELINESS WHO WALKS IN STOCKINGS BY PECK & PECK. Cl. 39. 8-14-34.  
 334,705. MACER. Cl. 23. 5-12-36.  
 336,271. PHARIS MUDGRIPPER. Cl. 35. 6-30-36.  
 337,772. ROCKORA. Cl. 39. 8-18-36.  
 338,822. AMERICAN SCHOLASTIC UNIVERSITY MODEL AND DESIGN. Cl. 36. 9-15-36.  
 350,166. GEOMETRIC DESIGN. Cl. 9. 9-21-37.  
 351,244. KILGORE DISC CAPS AND DESIGN. Cl. 9. 10-26-37.  
 352,378. SIGNAL TREAD. Cl. 35. 11-30-37.  
 352,421. VAPO-FUMER. Cl. 23. 11-30-37.  
 354,255. LIFE-BELT. Cl. 35. 2-8-38.  
 354,461. GLENDORA VIEW AND DESIGN. Cl. 46. 2-15-38.  
 354,462. GLENDORA CREST AND DESIGN. Cl. 46. 2-15-38.  
 355,882. HEARITE. Cl. 44. 4-5-38.  
 356,709. BAKED BY THE HELMSMEN. Cl. 46. 5-10-38.  
 356,710. FLAVOR LOCK. Cl. 46. 5-10-38.  
 360,166. STUF. Cl. 46. 9-6-38.  
 362,812. Q-T. Cl. 12. 11-29-38.  
 363,707. MUFFLESTONE. Cl. 12. 1-3-39.  
 370,402. PINK CHEVRON. Cl. 47. 8-29-39.  
 380,076. NORTH SHORE. Cl. 39. 8-6-40.  
 382,278. CANEBRAKE. Cl. 39. 10-22-40.  
 385,818. REDWOOD HOME OF THE MONTH. Cl. 38. 3-18-41.  
 385,838. EAT VITAMIN BREAD FOR HEALTHY YEARS AHEAD. Cl. 46. 3-18-41.  
 392,267. AUTOSALER. Cl. 32. 12-16-41.  
 394,470. POLYSTAT. Cl. 26. 4-7-42.  
 396,091. WHITEHOUSE SERVING FORMALS. Cl. 39. 6-30-42.  
 404,353. DRIVE-MASTER. Cl. 23. 11-23-43.  
 427,488. CLINTOSE. Cl. 6. 2-11-47.  
 431,226. ALVEYORS. Cl. 23. 7-15-47.  
 431,892. MIRALDO. Cl. 6. 8-12-47.  
 432,644. TETFOAM-10. Cl. 4. 9-9-47.  
 433,004. TEXAS MAGIC AND DESIGN. Cl. 46. 9-23-47.  
 433,079. PFL. Cl. 46. 9-23-47.  
 434,844. L. Cl. 27. 12-9-47.  
 435,504. RECEPTION. Cl. 6. 12-30-47.  
 435,540. DEEP IN CLOVER. Cl. 6. 12-30-47.  
 435,744. THAT'S FOR ME. Cl. 6. 1-6-48.  
 506,133. PHOTOGLLO. Cl. 38. 2-1-49.  
 506,135. GLASS O'GOLD. Cl. 46. 2-1-49.  
 506,137. FASTIDIOS. Cl. 2. 2-1-49.  
 506,139. EBONY VALLEY. Cl. 46. 2-1-49.  
 506,140. SUPER TRIM. Cl. 39. 2-1-49.  
 506,148. BRISK. Cl. 46. 2-1-49.  
 506,153. UP-KIT. Cl. 3. 2-1-49.  
 506,154. GEOMETRIC DESIGN. Cl. 46. 2-1-49.  
 506,156. ANNIVERSARY. Cl. 39. 2-1-49.  
 506,160. MAXENE. Cl. 39. 2-1-49.  
 506,161. ATTRACTIVE. Cl. 46. 2-1-49.  
 506,163. BRODY'S BIG B. Cl. 39. 2-1-49.  
 506,165. LADY AZALEA. Cl. 39. 2-1-49.  
 506,166. HATTERSLANE HATS AND DESIGN. Cl. 39. 2-1-49.  
 506,167. WEE TIMERS TIMED FOR TOTS. Cl. 39. 2-1-49.  
 506,169. TRI-FORM. Cl. 39. 2-1-49.  
 506,175. YOUNG'S. Cl. 39. 2-1-49.  
 506,184. WOOD PUSSY SYMBOL. Cl. 19. 2-1-49.  
 506,185. LUCKY SEVEN "7" AND DESIGN. Cl. 39. 2-1-49.  
 506,187. TILE TALK. Cl. 38. 2-1-49.  
 506,191. STERLING. Cl. 19. 2-1-49.  
 506,194. DANSANTE. Cl. 39. 2-1-49.  
 506,195. RADIANT ARCH. Cl. 39. 2-1-49.  
 506,199. PRAM-VEL AND DESIGN. Cl. 42. 2-1-49.  
 506,209. BRIARCLIFF. Cl. 39. 2-1-49.  
 506,211. SLEEPWALKERS BY WILTON. Cl. 39. 2-1-49.  
 506,215. MB MARKAY BAGS INC. Cl. 3. 2-1-49.  
 506,216. CON-SER-VIT. Cl. 42. 2-1-49.  
 506,219. ASCO SPORTS. Cl. 39. 2-1-49.  
 506,224. MARBERN. Cl. 39. 2-1-49.  
 506,229. MERRYWEAR FROCKS. Cl. 39. 2-1-49.  
 506,230. ASTRA DOME. Cl. 19. 2-1-49.  
 506,232. CAMELITE. Cl. 42. 2-1-49.  
 506,234. TEN CENTER. Cl. 42. 2-1-49.  
 506,236. PEABODY. Cl. 39. 2-1-49.  
 506,238. JANE RAWLEY. Cl. 39. 2-1-49.  
 506,240. TEXAN. Cl. 46. 2-1-49.  
 506,241. VALU-PAKA. Cl. 39. 2-1-49.  
 506,243. NICE GOING. Cl. 39. 2-1-49.  
 506,244. TY-TO TA. Cl. 3. 2-1-49.  
 506,245. HUDSONIAN. Cl. 39. 2-1-49.

- 506,246. HUDSON MAID. Cl. 39. 2-1-49.  
 506,253. RELAXATION AND DESIGN. Cl. 42. 2-1-49.  
 506,254. PERCALOOM. Cl. 39. 2-1-49.  
 506,255. BARNSLEY. Cl. 39. 2-1-49.  
 506,256. LUCERNE. Cl. 40. 2-1-49.  
 506,257. PRINTZ. Cl. 39. 2-1-49.  
 506,260. PINECOT. Cl. 46. 2-1-49.  
 506,262. EAGLE BRAND AND DESIGN. Cl. 19. 2-1-49.  
 506,263. CONANSON. Cl. 43. 2-1-49.  
 506,265. BERNICE CHARLES. Cl. 39. 2-1-49.  
 506,267. PLAYBOY. Cl. 19. 2-1-49.  
 506,281. TOULIE SHAND. Cl. 39. 2-1-49.  
 506,282. DRY ICE. Cl. 42. 2-1-49.  
 506,288. QUEEN OF THE UNDIWORLD. Cl. 39. 2-1-49.  
 506,289. WEBSTER. Cl. 42. 2-1-49.  
 506,290. FLOSSETTE. Cl. 39. 2-1-49.  
 506,292. SPRING SONNET. Cl. 39. 2-1-49.  
 506,294. BERLÖ. Cl. 42. 2-1-49.  
 506,295. U. S. ITEMS. Cl. 38. 2-1-49.  
 506,298. CONNIE MAE AND DESIGN. Cl. 39. 2-1-49.  
 506,299. ERMA MODEL AND DESIGN. Cl. 39. 2-1-49.  
 506,300. LA DERNIERE. Cl. 39. 2-1-49.  
 506,301. NUAGE'S. Cl. 39. 2-1-49.  
 506,302. LAURA LEE. Cl. 39. 2-1-49.  
 506,310. EXECUTIVES' RADIO SERVICE FACTUARY. Cl. 38. 2-1-49.  
 506,312. NEEMOBILE. Cl. 19. 2-1-49.  
 506,314. BROSSAU. Cl. 3. 2-1-49.  
 506,315. PAK-VUE. Cl. 3. 2-1-49.  
 506,317. BROWNLEE. Cl. 3. 2-1-49.  
 506,318. SAVOIA. Cl. 3. 2-1-49.  
 506,327. ROYAL SOCIETY. Cl. 40. 2-1-49.  
 506,328. ROYAL SOCIETY AND DESIGN. Cl. 40. 2-1-49.  
 506,334. RHEEFLEX. Cl. 43. 2-1-49.  
 506,337. "EIGHTY GRAND". Cl. 42. 2-1-49.  
 506,338. APACHE. Cl. 42. 2-1-49.  
 506,344. FERNBROOK PARK. Cl. 42. 2-1-49.  
 506,345. FOODLAND. Cl. 7. 2-1-49.  
 506,353. MISS GEORGE. Cl. 41. 2-1-49.  
 506,357. MILANDOE AND DESIGN. Cl. 39. 2-1-49.  
 506,358. SLENDER FORM. Cl. 6. 2-1-49.  
 506,359. LITTLE-BIT. Cl. 39. 2-1-49.  
 506,360. "ONE A TRIP". Cl. 6. 2-1-49.  
 506,361. SHEER-SIDE OUT. Cl. 39. 2-1-49.  
 506,362. LACEY MISS BRA. Cl. 39. 2-1-49.  
 506,364. DOW-GAGE. Cl. 26. 2-1-49.  
 506,365. BRYAN'S LENGTH-O-GRAPH. Cl. 26. 2-1-49.  
 506,366. MEM-O-PURSE. Cl. 3. 2-1-49.  
 506,368. SURE-FLO. Cl. 6. 2-1-49.  
 506,370. EXTENDO. Cl. 39. 2-1-49.  
 506,371. CREME FOAM. Cl. 6. 2-1-49.  
 506,372. TINTABIT. Cl. 6. 2-1-49.  
 506,374. MME. WHITMORE'S. Cl. 6. 2-1-49.  
 506,375. ORIGINALS BY GOLDE-KAY. Cl. 39. 2-1-49.  
 506,376. ON-TITE. Cl. 40. 2-1-49.  
 506,378. STYLIZED COMFORT. Cl. 39. 2-1-49.  
 506,379. RODIN. Cl. 28. 2-1-49.  
 506,380. TAGALINE. Cl. 40. 2-1-49.  
 506,381. NU GIRL. Cl. 39. 2-1-49.  
 506,382. SAFE-TREE AND DESIGN. Cl. 6. 2-1-49.  
 506,384. LADY AMERICA AND DESIGN. Cl. 4. 2-1-49.  
 506,385. CAPSTAN. Cl. 7. 2-1-49.  
 506,386. YOU WEAR EM & MESS EM WE CLEAN EM & PRESSEM. Cl. 55. 2-1-49.  
 45,788. PABST'S OKAY ETC. AND DESIGN. Cl. 18 (formerly Cl. 6). 8-29-05. Canc. 6413.  
 137,735. HIWAY. Cl. 21. 11-30-20. Canc. 6425.  
 342,039. BOSHACK'S TALE-LORD AND DESIGN. Cl. 39. 12-29-36. Canc. 6396.  
 347,927. PABST'S OKAY ETC. AND DESIGN. Cl. 18 (formerly Cl. 6). 7-13-37. Canc. 6414.  
 592,765. COLLEEN. Cl. 39. 7-20-54. Canc. 6408.

## Section 18

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 96,993. VERMOUTH NOILLY PRAT & CIE. AND DESIGN. Cl. 49. 5-12-14. Nolly Prat & Cie. Etablissements Nolly Prat & Cie., Marseille, France. Amended: In the statement, lines 8 and 9, "Class 49, Distilled alcoholic liquors" is deleted and Class 47, Wines is inserted in lieu thereof.  
 241,048. N. P. & CIE. AND DESIGN. Cl. 49. 4-17-28. Nolly Prat & Cie. Etablissements Nolly Prat & Cie., Marseille, France. Amended: In the statement, lines 15 and 16, "Class 49, Distilled alcoholic liquors" is deleted and Class 47, Wines is inserted in lieu thereof.  
 277,908. MIDGET AND DESIGN. Cl. 21. 12-2-30. Sprague Specialties Company. Sprague Electric Company, North Adams, Mass. Amended to appear.  
 377,558. BYMO AND DESIGN. Cl. 16. 5-7-40. Gilman Paint and Varnish Co., doing business as Hamilton Paint Co., Chattanooga, Tenn. Corrected: The description of goods should be deleted and the following inserted in lieu thereof: quick drying enamel, flat wall paint, wagon and implement enamel, porch and floor enamel, varnish stain, and ready mixed paint.

thereof: quick drying enamel, flat wall paint, wagon and implement enamel, porch and floor enamel, varnish stain, and ready mixed paint.

539,644. ARMSTRONG'S LOGIC. Cl. 38. 3-20-51. Armstrong Cork Company, Lancaster, Pa. Amended: In the statement, column 2, line 7, "Armstrong's" is deleted and (A)rmstrong is inserted in lieu thereof, and the drawing is amended to appear:

Armstrong **LOGIC**

**MIDGET**

575,646. SKIPPER AND DESIGN. Cl. 38. 6-9-53. The Skipper Publishing Company, Annapolis, Md. Amended to appear:

The **SKIPPER**



588,996. CARRY-LITE BREATHER. Cl. 22. 4-27-54. Pulp Reproduction Company, Milwaukee, Wis. Amended to appear:

# Carry-Lite

## TRADEMARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trademark Act of 1946 for the unexpired term of the original registrations.

- 427,873. MONDUR. Cl. 1. Monsanto Chemical Company. 2-25-47. New Cert. Sec. 7(c), to Mobay Chemical Company, St. Louis, Mo., 7-12-55.
- 560,974. EL FARMACEUTICO. Cl. 38. McGraw-Hill International Corporation. 7-1-52. New Cert. Sec. 7(c), to Johnston Export Publishing Co., New York, N. Y., 7-12-55.
- 525,503. TRU-WAY. Cl. 6. Chemical & Industrial Laboratories, Inc. 5-23-50. New Cert. Sec. 7(c), to Texize Chemicals, Inc., Greenville, S. C., 7-12-55.
- 572,826. PORTA-CAMP. Cl. 19. Edgar Lee Elder, doing business as Elder Trailer and Body Service. 4-7-53. New Cert. Sec. 7(c), to Elder Trailer and Body, Inc., Denver, Colo., 7-12-55.

## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 10

321,613. Feb. 5, 1935. Limestone Products Corporation of America, Newton, N. J. Pub. by registrant.



For Fertilizer.

### CLASS 14

436,537. Feb. 10, 1948. Bliss & Laughlin, Inc., Harvey, Ill. Pub. by registrant.



For Cold Finished Bar Steels.

### CLASS 23

320,359. Dec. 25, 1934. B. F. Gump Co., Cicero, Ill. Pub. by registrant.

**GUMP**  
*Floating* **Flavor**  
**COFFEE**  
**GRANULIZER**

For Coffee Mills and Parts Thereof.

409,067. Sept. 12, 1944. Hi-Way Service Corporation, Milwaukee, Wis. Pub. by Drott Manufacturing Corporation, Wausau, Wis.

# BULLCLAM SHOVEL

The word "Shovel" is disclaimed apart from the mark as shown.

For Shovel Attachment for Trucks and Tractors.

### CLASS 37

321,569. Feb. 5, 1935. The Victor Safe & Equipment Company, Inc., North Tonawanda, N. Y. Pub. by Remington Rand Inc., New York, N. Y.



For Blank and Partially Printed Cards, Sheets, Guide Cards, Inserts, Labels, Tabs and Folders, All Fabricated for

Indexes and Indexes Consisting of Blank and Partially Printed Cards, Sheets, Guide Cards, Tabs, Labels and Inserts and Trays, Drawers, Dividers, Sorters, Frames, Panels, Strips and Holders Therefor, In and Out Indicators, Signals for Indexes, Binders, and Ticket Files and Binders.

### CLASS 38

320,871. Jan. 15, 1935. The Oklahoma Publishing Company, Oklahoma City, Okla. Pub. by registrant.

# Aunt Susan's Column

For Section or Department of a Newspaper or Periodical.

### CLASS 39

321,734. Feb. 12, 1935. J. Schoeneman, Incorporated, Baltimore, Md. Pub. by registrant.

# CAROLINA CRASH

For Garments of the Tailored Variety Consisting of Vests, Knickerbockers, Top-Coats, Overcoats, and Suits for Men, Youths, and Boys.

322,343. Mar. 5, 1935. D. Myers and Sons, Incorporated, Baltimore, Md. Pub. by registrant.



For Shoes Made of Leather, Fabric, and Combinations of These Materials.

322,378. Mar. 5, 1935. Guild Shirt Company, Baltimore, Md. Pub. by The Shirts Company, Inc., New York, N. Y.

# Needletown

For Dress and Negligee Shirts.

322,394. Mar. 5, 1935. J. Schoeneman, Incorporated, Baltimore, Md. Pub. by registrant.

**Coolies**  
*"Why Swelter?"*

For Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys.

324,370. May 14, 1935. Conover Knitting Company, Conover, N. C. Pub. by registrant.

# Old Masters

For Men's Hose.

### CLASS 43

11,851. Nov. 11, 1884. W. H. Horstmann & Sons, Philadelphia, Pa. Pub. by James Lees and Sons Company, Bridgeport, Pa.

# COLUMBIA

For Knitting and Embroidery Yarns and Chenilles.

### CLASS 46

103,965. Apr. 20, 1915. O. Roth & Co., New York, N. Y., and Ulster-Zurich, Switzerland. Pub. by Otto Roth & Co., Inc., New York, N. Y.

# ORCO

For Foreign and Domestic Cheese.

105,400. July 20, 1915. Southern Macaroni Mfg. Co., New Orleans, La. Pub. by National Food Products Company, New Orleans, La.

# Luxury

For Alimentary Paste Products.

260,304. Aug. 20, 1929. The Megs Company, Harrisburg, Pa. Pub. by Megs Macaroni Company, Harrisburg, Pa.



For Alimentary Paste Products.



## CLASS 47

318,954. Nov. 6, 1934. Martini & Rossi Società per Azioni, Turin, Italy. Pub. by registrant.

# MELINI

For Wines.

330,617. Dec. 10, 1935. Alex D. Shaw & Co., Inc., New York, N. Y. Pub. by Duff Gordon & Co., Port St. Mary's, Spain.



*Duff Gordon & Co.*

For Wines.

## CLASS 52

432,571. Sept. 9, 1947. Century Laboratories Incorporated, Brooklyn, N. Y. Pub. by registrant.

# parakem

For Detergent for the Chemical Removal and Solution of Sludge in Fuel Oil Tanks.

435,183. Dec. 16, 1947. Century Laboratories, Incorporated, Brooklyn, N. Y. Pub. by registrant.

# Paradry

For Floor Cleaning and Absorbing Compound, Said Compound Being an Absorbent Substance Capable of Absorbing Oil, Water, Grease, and Other Liquids Which Have Been Spilled on the Floor.

## LIST OF REGISTRANTS OF TRADEMARKS

- Abbott Laboratories, North Chicago, Ill. 608,620, pub. 4-19-55. Cl. 18.  
 Adams & Brooks, Los Angeles, Calif. 360,166, can. Cl. 46.  
 Aerojet-General Corp., Cincinnati, Ohio. 608,539, pub. 4-5-55. Cl. 9.  
 Agress Nut & Seed Co., Bronx, New York, N. Y. 608,814, pub. 4-19-55. Cl. 46.  
 Aireactor Corp., New York, N. Y. 608,533, pub. 4-19-55. Cl. 6.  
 Air-Way Electric Appliance Corp., Toledo, Ohio. 327,261, ren. 8-20-55. Cl. 23.  
 Alfandari, Jean L., d. b. a. Pacific Motor Sales, Los Angeles, Calif. 608,883, pub. 4-12-55. Cl. 105.  
 Algonquin Tool and Die Co., Chicago, Ill. 608,633, pub. 4-26-55. Cl. 21.  
 Allied Stores Corp., d. b. a. The Bon Marche, Dey Brothers & Co., and Quackenbush Co., New York, N. Y., Seattle, Wash., Syracuse, N. Y., and Paterson, N. J. 506,160, can. Cl. 39.  
 Allis-Chalmers Mfg. Co., West Allis, Wis. 608,693, pub. 4-19-55. Cl. 23.  
 Allison-Bedford Co., Chicago, Ill. 506,260, can. Cl. 46.  
 Allmann, F. R., Woolen Co. See—  
 Allmann, Fred R.  
 Allmann, Fred R., d. b. a. F. R. Allmann Woolen Co., Brooklyn, N. Y. 506,289, can. Cl. 42.  
 Altec Lansing Corp., Beverly Hills, Calif. 608,642, pub. 4-19-55. Cl. 21.  
 Alvey Conveyor Mfg. Co., St. Louis, Mo. 431,226, can. Cl. 23.  
 American Agricultural Chemical Co., The, New York, N. Y. 325,381, ren. 6-18-55. Cl. 10.  
 American Bleached Goods Co., Inc. See—  
 Lorraine Mfg. Co.  
 American Brewing Co., New Orleans, La. 324,017, ren. 5-7-55. Cl. 48.  
 American Cutting and Binding Co., Chicago, Ill. 608,770, pub. 4-12-55. Cl. 40.  
 American Cyanamid Co., New York, N. Y. 608,517, pub. 4-5-55. Cl. 1.  
 American Cyanamid Co., New York, N. Y. 608,593, pub. 3-29-55. Cl. 18.  
 American Cyanamid Co., New York, N. Y. 608,616, pub. 4-19-55. Cl. 18.  
 American Electro Products, Inc., Waterbury, Conn. 608,886, pub. 4-12-55. Cl. 106.  
 American Gypsum Co., The, Port Clinton, Ohio. 363,707, can. Cl. 12.  
 American Handle Co., Jonesboro, Ark. 608,674, pub. 4-19-55. Cl. 22.  
 American Home Products Corp. See—  
 Ives-Cameron Co., Inc.  
 American Home Products Corp., d. b. a. Wyeth Laboratories, Division of American Home Products Corp., New York, N. Y. 608,621, pub. 4-12-55. Cl. 18.  
 American Institute of Management, New York, N. Y. 608,753, pub. 4-12-55. Cl. 38.  
 American Kleer-Vu Plastics, Inc., Maspeth, N. Y. 608,523, pub. 3-29-55. Cl. 3.  
 American Mfg. Co., Brooklyn, N. Y., and Boston, Mass. 506,385, can. Cl. 7.  
 American Pearl Button Co., Washington, Iowa. 608,676, pub. 4-19-55. Cl. 22.  
 American Safety Razor Corp., New York, N. Y. 328,430, ren. 9-24-55. Cl. 51.  
 American Urn Bag Co., Inc., New York, N. Y. 608,736, pub. 3-29-55. Cl. 31.  
 Anchor Packing Co., The, Philadelphia, Pa. 608,562, pub. 4-12-55. Cl. 13.  
 Anderson, Clayton & Co., Sherman, Tex. 608,822, pub. 4-12-55. Cl. 46.  
 Appleton Electric Co., Chicago, Ill. 608,646, pub. 4-19-55. Cl. 21.  
 Applied Radiation Corp., Oakland, Calif. 608,869, pub. 4-19-55. Cl. 100.  
 Aquino, John, Sons, Inc., New York, N. Y. 323,811, ren. 4-30-55. Cl. 47.  
 Aristo Import Co., Inc., New York, N. Y. 608,720, pub. 4-19-55. Cl. 26.  
 Armour and Co., Chicago, Ill. 608,604, pub. 4-12-55. Cl. 18.  
 Armour and Co., d. b. a. Lookout Oil & Refining Co., Chicago, Ill. 608,799, pub. 4-12-55. Cl. 46.  
 Armstrong Cork Co., Lancaster, Pa. 506,187, can. Cl. 38.  
 Armstrong Cork Co., Lancaster, Pa. 539,644, Am. 7(d). Cl. 38.  
 Arnoff Shoe Co., Inc., New York, N. Y. 506,219, can. Cl. 39.  
 Aronson, Charles N., d. b. a. Aronson Machine Co., Arcade, N. Y. 608,713, pub. 4-19-55. Cl. 23.  
 Aronson Machine Co. See—  
 Aronson, Charles N.  
 Artistic Foundations, Inc., New York, N. Y. 506,370, can. Cl. 39.  
 Arvon Products Co., d. b. a. Arvon Products Co., Inc., and Arvon Products Company Inc., Philadelphia, Pa. 608,547, pub. 4-12-55. Cl. 12.  
 Arvon Products Co., Inc. See—  
 Arvon Products Co.  
 Arvon Products Company Inc. See—  
 Arvon Products Co.  
 Associated Engineers, Inc., Agawam, Mass. 608,699, pub. 4-19-55. Cl. 23.  
 Associated Merchandising Corp., The, New York, N. Y. 608,667, pub. 4-19-55. Cl. 22.  
 Associated Press, The, New York, N. Y. 608,647, pub. 4-19-55. Cl. 21.  
 Atlas Mineral Products Co. of Pennsylvania, The, Mertztown, Pa. 608,561, pub. 8-17-54. Cl. 13.  
 Atlas Supply Co., Newark, N. J. 608,566, pub. 4-12-55. Cl. 13.  
 Atlas Travel Service, Inc., Tampa, Fla. 608,919. Cl. 105.  
 Autotron Co., The. See—  
 Gieseke, Werner A.  
 Avon Products, Inc., New York, N. Y. 435,504, can. Cl. 6.  
 Avon Products, Inc., New York, N. Y. 435,540, can. Cl. 6.  
 Avon Products, Inc., New York, N. Y. 435,744, can. Cl. 6.  
 Avonnac Shoe Co., Chicago, Ill. 608,757, pub. 4-12-55. Cl. 39.  
 Bacon Crane & Hoist Co., Brooklyn, N. Y. 608,685, pub. 4-19-55. Cl. 23.  
 Bailey, Prihoda & Co., d. b. a. Lady America Home Products Co., Kalamazoo, Mich. 506,384, can. Cl. 4.  
 Baillie Lemaire Fils & Cie., Paris, France. 608,719, pub. 4-19-55. Cl. 26.  
 Barone, Phillip A., d. b. a. Roberta Barron Co., Chicago, Ill. 608,860, pub. 4-19-55. Cl. 52.  
 Barrell, William L., Co., New York, N. Y. 506,216, can. Cl. 42.  
 Barron, Roberta, Co. See—  
 Barone, Phillip A.  
 Barry Controls Inc. See—  
 Barry Corp., The.  
 Barry Corp., The, Watertown, Mass., now by change of name Barry Controls Inc. 608,702, pub. 4-19-55. Cl. 23.  
 Bauer, Arthur, d. b. a. Arthur Bauer Plantation Products and Bauer's Fine Foods, Waltherboro, S. C. 608,795, pub. 4-19-55. Cl. 46.  
 Bauer, Arthur Plantation Products. See—  
 Bauer, Arthur.  
 Bauer's Fine Foods. See—  
 Bauer, Arthur.  
 Bausch & Lomb Optical Co., Rochester, N. Y. 608,875, pub. 4-19-55. Cl. 101.  
 Bayuk Cigars Inc. See—  
 Webster Eisenlohr Inc.  
 Beaunit Mills, Inc., New York, N. Y. 608,783, pub. 4-12-55. Cl. 43.  
 Bee Hat & Cap Co., St. Louis, Mo. 506,236, can. Cl. 39.  
 Behrens, Sir Jacob, & Sons, Bradford, England. 506,338, can. Cl. 42.  
 Belsaw Machinery Co., Kansas City, Mo. 608,706, pub. 4-26-55. Cl. 23.  
 Berlinger, Joseph, Co., New York, N. Y. 506,294, can. Cl. 42.  
 Bingham-Herbrand Corp., The, Fremont, Ohio. 608,695, pub. 4-19-55. Cl. 23.  
 Binky Baby Products Co., New York, N. Y. 608,897. Cl. 39.  
 Blackmon, Tilford K., Georgiana, Ala. 608,760, pub. 4-5-55. Cl. 39.  
 Blas & Laughlin, Inc., Harvey, Ill. 436,537, 12(c) pub. 7-12-55. Cl. 14.  
 Bloomsburg Mills, Inc., New York, N. Y. 506,344, can. Cl. 42.  
 Blue Buckle Overall Co., Inc., to Blue Ridge Manufacturers, Inc., Lynchburg, Va. 506,140, can. Cl. 39.  
 Blue Ridge Manufacturers, Inc. See—  
 Blue Buckle Overall Co., Inc.  
 Bondura Corp., Chicago, Ill. 608,576, pub. 4-12-55. Cl. 16.  
 Bon Marche, The. See—  
 Allied Stores Corp.  
 Bon Ton, Inc. of Bozeman, Bozeman, Mont. 608,792, pub. 4-19-55. Cl. 46.  
 Boonton Full Fashion Hosiery Mill, Boonton, N. J. 506,156, can. Cl. 39.  
 Boonton Full Fashion Hosiery Mills, Boonton, N. J. 506,194, can. Cl. 39.  
 Boretz, Abraham, d. b. a. Boretz Mfg. Co., New York, N. Y. 506,315, can. Cl. 3.  
 Boretz Mfg. Co. See—  
 Boretz, Abraham.  
 Borgenicht, Jack, Inc., Forest City, Pa., and New York, N. Y. 506,381, can. Cl. 39.  
 Boshnack, Irene, Brooklyn, N. Y. 342,039, can. Cl. 39.  
 Boston Fabrics Corp., Boston, Mass. 608,777, pub. 4-5-55. Cl. 42.  
 Branch, Houston, d. b. a. The Sportsman's Handbook, Los Angeles, Calif. 608,868, pub. 4-12-55. Cl. 100.  
 Brawley Drug Co. See—  
 Rossiter, Milton A.  
 Bray Oil Co., Los Angeles, Calif. 608,575, pub. 4-12-55. Cl. 16.  
 Breneman, Chas. W., Co., The, to Breneman-Hartshorn, Inc., Cincinnati, Ohio. 328,600, ren. 10-1-55. Cl. 32.  
 Breneman-Hartshorn, Inc. See—  
 Breneman, Chas. W., Co., The.  
 Briggs & Stratton Co., Milwaukee, Wis. 184,010, can. Cl. 21.  
 Briggs & Stratton Co., Milwaukee, Wis. 195,003, can. Cl. 25.  
 Briggs & Stratton Co., Milwaukee, Wis., to Briggs & Stratton Corp. 199,693, can. Cl. 25.  
 Briggs & Stratton Corp. See—  
 Briggs & Stratton Co.  
 Bristol Co., The, Waterbury, Conn. 103,846, ren. 4-20-55. Cl. 13.



- Bristol Co., The, Waterbury, Conn. 323,765, ren. 4-30-55. Cl. 26.  
 Brody, F., & Sons Co., Des Moines, Iowa. 506,163, can. Cl. 39.  
 Brooks Rotameter Co., Lansdale, Pa. 608,723, pub. 4-19-55. Cl. 26.  
 Brookside Mfg. Corp., New York, N. Y. 506,362, can. Cl. 39.  
 Brosseau & Co., Inc., New York, N. Y. 506,314, can. Cl. 3.  
 Broughton's Farm Dairy, Inc., Marietta, Ohio. 608,823-4, pub. 4-12-55. Cl. 46.  
 Brown Hoisting Machinery Co., The, Cleveland, Ohio, to Industrial Brownhoist Corp., Bay City, Mich. 104,086, ren. 4-27-55. Cl. 23.  
 Brown Shoe Co., Inc., Clayton, Mo. 327,676, ren. 9-3-55. Cl. 39.  
 Bruder, M. A., & Sons, Inc., Philadelphia, Pa. 608,581, pub. 4-19-55. Cl. 16.  
 Bryan Full Fashioned Mills, Inc., Chattanooga, Tenn. 506,365, can. Cl. 26.  
 Burroughs, Wellcome & Co., London, England, to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 11,863, ren. 1-20-55. Cl. 18.  
 Burroughs Wellcome & Co. (U. S. A.) Inc.: See—  
 Burroughs, Wellcome & Co.  
 Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 608,746, pub. 4-5-55. Cl. 38.  
 Bush, J. E., Dallas, Tex. 608,544, published 4-12-55. Cl. 12.  
 Case, Jack, & Co., Dallas, Tex. 608,878, pub. 4-12-55. Cl. 102.  
 California Cannery Associates, Los Angeles, Calif. 506,135, can. Cl. 46.  
 Cameo Fabrics, Inc., New York, N. Y. 506,232, can. Cl. 42.  
 Camp Mfg. Co., Inc.: See—  
 Wortendyke Mfg. Co.  
 Campers' Supplies, Inc., New York, N. Y. 608,668, pub. 4-5-55. Cl. 22.  
 Caratan, Anton, & Son, Delano, Calif. 608,826, pub. 4-19-55. Cl. 46.  
 Carmelita Co., The: See—  
 Somerville, A. A.  
 Carpenter, William W., Hendersonville, N. C. 608,669, pub. 4-19-55. Cl. 22.  
 Carter, William, Co., The, Needham Heights, Mass. 608,901. Cl. 39.  
 Case's Pork Pack Co., Inc.: See—  
 Liberty Provision Co.  
 Celanese Corp. of America, New York, N. Y. 608,518, pub. 4-12-55. Cl. 1.  
 Celotex Corp., The, Chicago, Ill. 362,812, can. Cl. 12.  
 Century Laboratories, Inc., Brooklyn, N. Y. 432,571, 12(c) pub. 7-12-55. Cl. 52.  
 Century Laboratories, Inc., Brooklyn, N. Y. 435,183, 12(c) pub. 7-12-55. Cl. 52.  
 Century Ribbon Mills, Inc., New York, N. Y. 506,234, can. Cl. 42.  
 Champion Wheelbarrow Co., Byron Center, Mich. 608,623, pub. 4-19-55. Cl. 19.  
 Channell Splicing Machine Co., El Monte, Calif. 608,655, pub. 4-19-55. Cl. 21.  
 Charge System, Inc., Detroit, Mich. 608,877, pub. 4-19-55. Cl. 102.  
 Chaudet, Louis W., II, Los Angeles, Calif. 608,742, pub. 4-12-55. Cl. 36.  
 Chemical & Industrial Laboratories, Inc., to Texize Chemicals, Inc., Greenville, S. C. 525,503, new cert. Cl. 6.  
 Chemische Fabriek L. Van Der Grinten N. V., Venlo, Netherlands. 608,721, pub. 4-19-55. Cl. 26.  
 Cheney, Henry, Hammer Corp., Little Falls, N. Y. 608,691, pub. 4-19-55. Cl. 23.  
 Childhood Interests, Inc., Roselle Park, N. J. 608,662, pub. 12-28-54. Cl. 22.  
 Chipman Knitting Mills, d. b. a. Roman Stripe Hosiery, Easton, Pa., and New York, N. Y. 506,361, can. Cl. 39.  
 Clairol, Inc., Stamford, Conn. 506,372, can. Cl. 6.  
 Clark Equipment Co.: See—  
 Torcon Corp.  
 Clement Talbot Ltd., London, to Sunbeam-Talbot Ltd., Ryton-on-Dunsmore, near Coventry, England. 326,117, ren. 7-16-55. Cl. 19.  
 Cleveland City Forge Co., The, Cleveland, Ohio. 608,696, pub. 4-19-55. Cl. 23.  
 Clinton Industries, Inc., Clinton, Iowa. 427,488, can. Cl. 6.  
 Clock Golf Co., The, Fort Worth, Tex. 608,889. Cl. 22.  
 Clover Farm Stores Corp., Cleveland, Ohio. 506,345, can. Cl. 7.  
 Coats & Clark Inc., New York, N. Y. 608,782, pub. 4-12-55. Cl. 43.  
 Cobb Mfg. Co., Inc., The, Richmond, Va. 237,072, can. Cl. 6.  
 Coca-Cola Bottling Co. of Watertown, So. Dak., Watertown, S. Dak. 608,844, pub. 4-12-55. Cl. 50.  
 Coca-Cola Bottling Co. of Watertown, So. Dak., Watertown, S. Dak. 608,845, pub. 4-5-55. Cl. 50.  
 Cohen, Julius, & Sons, Inc., New York, N. Y. 506,263, can. Cl. 43.  
 Cointreau Corp.: See—  
 Societe a Responsabilite Limitee Cointreau.  
 Coker's Pedigreed Seed Co., Hartsville, S. C. 608,512, pub. 4-12-55. Cl. 1.  
 Colgate-Palmolive Co.: See—  
 Colgate-Palmolive-Peet Co.  
 Colgate-Palmolive-Peet Co., Jersey City, N. J., now by change of name Colgate-Palmolive Co. 608,858, pub. 4-19-55. Cl. 52.  
 Colonial Refining & Chemical Co., Cleveland, Ohio. 608,579, pub. 4-12-55. Cl. 16.  
 Color Television Inc., San Carlos, Calif. 608,728, pub. 4-19-55. Cl. 26.  
 Columbia Protektosite Co., Inc., Carlstadt, N. J., now by merger Curtiss-Wright Corp. 608,722, pub. 4-19-55. Cl. 26.  
 Columbian Rope Co., Auburn, N. Y. 608,535, pub. 4-12-55. Cl. 7.  
 Conover Knitting Co., Conover, N. C. 324,370, 12(c) pub. 7-12-55. Cl. 39.  
 Conradt, C., Nurnberg, Germany. 608,887. Cl. 12.  
 Consolidated Rendering Co., Boston, Mass. 323,595, ren. 4-23-55. Cl. 15.  
 Consolidated Rendering Co., Boston, Mass. 323,854, ren. 5-7-55. Cl. 46.  
 Continental Products Co., Flint, Mich. 506,358, can. Cl. 6.  
 Corn Products Refining Co., New York, N. Y. 608,528, pub. 4-19-55. Cl. 5.  
 Cornell-Dubiller Electric Corp., South Plainfield, N. J. 608,658, pub. 4-19-55. Cl. 21.  
 Cravenette Co., U. S. A., The, Hoboken, N. J. 327,705, ren. 9-3-55. Cl. 42.  
 Creator, A. G., Zurich, Switzerland. 608,651, pub. 4-19-55. Cl. 21.  
 Crookes Laboratories, Inc., Mineola, N. Y. 608,618-19, pub. 4-19-55. Cl. 18.  
 Crown Cork & Seal Co., Inc., Baltimore, Md. 608,853, pub. 4-5-55. Cl. 50.  
 Crown Zellerbach Corp., San Francisco, Calif. 608,521, pub. 4-12-55. Cl. 2.  
 Crystal Pure Candy Co., Chicago, Ill. 608,904. Cl. 46.  
 Crystal Springs Packing Co.: See—  
 Crystal Springs Packing Co., Inc.  
 Crystal Springs Packing Co., Inc., d. b. a. Crystal Springs Packing Co., Medford, Ore. 608,830, pub. 4-12-55. Cl. 46.  
 Cuyler, John A., II, d. b. a. National Jet Co., Cumberland, Md. 608,686, pub. 4-19-55. Cl. 23.  
 Curtiss-Wright Corp.: See—  
 Columbia Protektosite Co., Inc.  
 Curtwright, Geo. A., Los Angeles, Calif. 608,847, pub. 4-12-55. Cl. 50.  
 Cushman Chuck Co., The, Hartford, Conn. 608,718, pub. 4-26-55. Cl. 23.  
 Cutter Laboratories, Berkeley, Calif. 608,596, pub. 4-12-55. Cl. 18.  
 Dahlin, C. A., Co., Chicago, Ill. 608,560, pub. 8-3-54. Cl. 13.  
 Dainty Maid Candy Co., Chicago, Ill. 608,806, pub. 4-12-55. Cl. 46.  
 Daltch Crystal Dairies, Inc., Bronx, N. Y. 608,816, pub. 4-12-55. Cl. 46.  
 Dan River Mills, Inc., Danville, Va. 608,774, pub. 4-12-55. Cl. 42.  
 David & Sons: See—  
 Halrbedian, David D.  
 Davis & Geck, Inc., Danbury, Conn. 608,787, pub. 4-5-55. Cl. 44.  
 Day-Baldwin Inc., Newark, N. J. 608,591, pub. 4-12-55. Cl. 18.  
 Deering, Milliken & Co., Inc., New York, N. Y. 608,771, pub. 4-12-55. Cl. 42.  
 Dell Publishing Co., Inc., New York, N. Y. 608,893. Cl. 38.  
 Detroit Controls Corp.: See—  
 Sessions Clock Co., The.  
 Detroit Dental Mfg. Co., to Kerr Mfg. Co., Detroit, Mich. 328,151, ren. 7-16-55. Cl. 44.  
 Dey Brothers & Co.: See—  
 Allied Stores Corp.  
 Diamond Power Specialty Corp., Lancaster, Ohio. 608,652, pub. 4-19-55. Cl. 21.  
 Diaper Service Institute of America, The, Philadelphia, Pa. 608,873, pub. 4-12-55. Cl. 100.  
 Dingman Co., The: See—  
 Dingman, Ralph T.  
 Dingman, Ralph T., d. b. a. The Dingman Co., Sioux City, Iowa. 608,675, pub. 4-19-55. Cl. 22.  
 Doering, A. L., Spark Plug Corp., Bayside, N. Y. 608,635, pub. 4-19-55. Cl. 21.  
 Douglas Tool Co., Detroit, Mich. 608,865, pub. 4-12-55. Cl. 100.  
 Dow Mechanical Corp., The, Thompsonville, Conn. 506,364, can. Cl. 26.  
 Dresser Equipment Co., d. b. a. Kobe Inc. Division of Dresser Equipment Co., to Kobe, Inc., Huntington Park, Calif. 608,749, pub. 4-12-55. Cl. 38.  
 Drott Mfg. Corp.: See—  
 Hi-Way Service Corp.  
 Duff Gordon & Co.: See—  
 Shaw, Alex D., & Co., Inc.  
 Dumari Textile Co., Inc., New York, N. Y. 608,780, pub. 4-12-55. Cl. 42.  
 Duncan Coffee Co., Houston, Tex. 506,240, can. Cl. 46.  
 Dunlap, Dorsey S., d. b. a. Dunwin Co., South Williamsport, Pa. 608,836, pub. 4-12-55. Cl. 46.  
 Dunwin Co.: See—  
 Dunlap, Dorsey S.  
 Dura Grip, Inc., New York, N. Y. 608,768, pub. 4-12-55. Cl. 40.  
 E-Z Opener Bag Co., Taylorville, Ill. 73,818-19, can. Cl. 2.  
 E-Z Opener Bag Co., Taylorville, Ill. 73,835, can. Cl. 2.  
 E-Z Opener Bag Co., Taylorville, Ill. 73,838, can. Cl. 2.  
 Eaton, T. Co. Ltd., The, Toronto, Ontario, Canada. 608,698, pub. 4-19-55. Cl. 23.  
 Elsenrath, Oscar N., d. b. a. United States Dowel Co., Milwaukee, Wis. 608,846, pub. 4-12-55. Cl. 50.  
 Elder, Edgar L., d. b. a. Elder Trailer and Body Service, to Elder Trailer and Body, Inc., Denver, Colo. 572,826, new cert. Cl. 19.  
 Elder Trailer and Body, Inc.: See—  
 Elder, Edgar L.  
 Elder Trailer and Body Service: See—  
 Elder, Edgar L.  
 Electronic Research Associates, Inc., North Caldwell, N. J. 608,831, pub. 4-19-55. Cl. 21.

- Ellena Brothers, Etiwanda, Calif. 370,402, can. Cl. 47.  
 Elmo Sales Corp., Philadelphia, Pa. 506,371, can. Cl. 6.  
 Enger-Kress Co., West Bend, Wis. 506,366, can. Cl. 3.  
 Enterprise Mfg. Co., The, Akron, Ohio. 324,481, ren. 5-21-55. Cl. 22.  
 Enterprise Mfg. Co., The, Akron, Ohio. 326,144, ren. 7-16-55. Cl. 22.  
 Eppinger, Louis J., Detroit, Mich. 608,661, pub. 4-19-55. Cl. 22.  
 Etablissements Nolly Prat & Cie: See—  
 Nolly Prat & Cie.  
 Executives' Radio Service, Larchmont, N. Y. 506,310, can. Cl. 38.  
 F. & B. Products Co., Cleveland, Ohio. 608,687, pub. 4-26-55. Cl. 23.  
 FR Corp., The, New York, N. Y. 608,890. Cl. 26.  
 Faehndrich, William, Inc., New York, N. Y. 608,827, pub. 4-19-55. Cl. 46.  
 Faith Today, Inc., New Canaan, Conn. 608,755, pub. 4-5-55. Cl. 38.  
 Farbach Chemical Co., Cincinnati, Ohio. 608,915. Cl. 52.  
 Farrington Mfg. Co., Boston, Mass. 608,743, pub. 4-5-55. Cl. 36.  
 Feast House, Inc., Kenosha, Wis. 608,872, pub. 4-19-55. Cl. 100.  
 Fein Children's Dress Co. Inc., New York, N. Y. 608,765, pub. 4-5-55. Cl. 39.  
 Fertilizer Equipment Sales Corp., Atlanta, Ga. 608,717, pub. 4-19-55. Cl. 23.  
 Fibron Products, Inc., Buffalo, N. Y. 608,708, pub. 4-26-55. Cl. 23.  
 Fidelity Trading Co., Inc., San Francisco, Calif. 608,831, pub. 4-12-55. Cl. 46.  
 Fieldcrest Mills, Inc., d. b. a. Lady Betsy Textiles, Spray, N. C. 608,778, pub. 4-12-55. Cl. 42.  
 Fine Products Corp., d. b. a. Hollingsworth's, Augusta, Ga. 608,828-9, pub. 4-19-55. Cl. 46.  
 Fire Protection Co., Salt Lake City, Utah. 608,628, pub. 4-19-55. Cl. 21.  
 Fisher Cheese Co., Wapakoneta, Ohio. 608,821, pub. 4-19-55. Cl. 46.  
 Fleisher Flouring Mills Co., Seattle, Wash. 608,838-40, pub. 4-19-55. Cl. 46.  
 Flintkote Co., The, New York, N. Y. 608,573, pub. 4-12-55. Cl. 16.  
 Florida Laboratories Inc., Danla, Fla. 608,602, pub. 4-12-55. Cl. 18.  
 Florida Power & Light Co., Miami, Fla. 608,614, pub. 4-19-55. Cl. 18.  
 Folger, J. A., & Co., Kansas City, Mo. 608,815, pub. 4-19-55. Cl. 46.  
 Folker Fabrics Corp., New York, N. Y. 506,282, can. Cl. 42.  
 Food Machinery and Chemical Corp., New York, N. Y. 608,530, pub. 4-19-55. Cl. 6.  
 Food Machinery and Chemical Corp., San Jose, Calif. 608,715, pub. 4-12-55. Cl. 23.  
 Frank, Jacob W., d. b. a. Frank's Wood Products, Grand Rapids, Mich. 506,312, can. Cl. 19.  
 Frank's Wood Products: See—  
 Frank, Jacob W.  
 Fran-Stef Mfg. Co., New York, N. Y. 608,522, pub. 3-29-55. Cl. 3.  
 Freeman Shoe Corp., Beloit, Wis. 305,659, can. Cl. 39.  
 French, Shriner & Urner, Boston, Mass. 254,437, can. Cl. 39.  
 French, Shriner & Urner, Boston, Mass. 262,143, can. Cl. 39.  
 Friden Calculating Machine Co., Inc., San Leandro, Calif. 608,726, pub. 4-19-55. Cl. 26.  
 Friedman, J., & Co. Inc., New York, N. Y. 337,772, can. Cl. 39.  
 Fuller, D. B., & Co., Inc., New York, N. Y. 608,903. Cl. 42.  
 Fulton Bag & Cotton Mills, Atlanta, Ga. 328,521, ren. 4-15-55. Cl. 3.  
 Fulton Bag & Cotton Mills, Atlanta, Ga. 328,522, ren. 4-15-55. Cl. 50.  
 Fulton Recording Co., New York, N. Y. 608,917. Cl. 100.  
 Fyr-Fyter Co., The, Dayton, Ohio. 608,568, pub. 4-12-55. Cl. 13.  
 Gallon Iron Works & Mfg. Co., The, Gallon, Ohio. 608,712, pub. 4-12-55. Cl. 23.  
 General Baking Co., New York, N. Y. 608,817, pub. 4-19-55. Cl. 46.  
 General Electric Co., Milwaukee, Wis. 608,786, pub. 4-5-55. Cl. 44.  
 General Motors Corp.: See—  
 Inland Mfg. Co., The.  
 General Motors Corp., Detroit, Mich. 506,230, can. Cl. 19.  
 General Motors Corp., Detroit, Mich. 608,681, pub. 6-1-54. Cl. 23.  
 General Tire & Rubber Co., The, Akron, Ohio. 608,738, pub. 4-19-55. Cl. 35.  
 General Woodcraft Co., Inc., North Bergen, N. J. 608,549-50, pub. 4-12-55. Cl. 12.  
 George Umbrella Co., Inc., New York, N. Y. 506,353, can. Cl. 41.  
 Gleske, Werner A., d. b. a. The Autotron Co., Danville, Ill. 608,626, pub. 3-22-55. Cl. 21.  
 Gifts 'N' Gadgets: See—  
 Wells, Russell K.  
 Gilman Paint and Varnish Co., d. b. a. Hamilton Paint Co., Chattanooga, Tenn. 377,558, corrected. Cl. 16.  
 Gladstone Case Mfg. Co., Inc., Chicago, Ill. 506,317-18, can. Cl. 3.  
 Glendora Co-Operative Citrus Assn., Glendora, Calif. 354,461-2, can. Cl. 46.  
 Golde-Kay Dress Co., New York, N. Y. 506,375, can. Cl. 39.  
 Good-Life Chemicals, Inc., New Harmony, Ind. 608,813, pub. 4-12-55. Cl. 46.  
 Goodren Products Corp., Englewood, N. J. 608,849, pub. 4-12-55. Cl. 50.  
 Goodstein, W. H., Millinery Co., Inc., Chicago, Ill. 506,298-301, can. Cl. 39.  
 Goodyear Tire & Rubber Co., The, Akron, Ohio. 608,741, pub. 4-19-55. Cl. 35.  
 Gordon Broadcasting Co., Cincinnati, Ohio. 608,882, pub. 4-12-55. Cl. 104.  
 Grange Co., The, Modesto, Calif. 608,801, pub. 4-19-55. Cl. 46.  
 Grebey, George F., Portsmouth, R. I. 608,660, pub. 4-19-55. Cl. 21.  
 Greenberg, Bernard, New York, N. Y. 506,224, can. Cl. 39.  
 Greenberg, Charles S., Inc., New York, N. Y. 506,229, can. Cl. 39.  
 Greylaine Mills, Inc., Worcester, Mass. 608,773, pub. 4-12-55. Cl. 42.  
 Grice, James E., d. b. a. Jas. E. Grice Chemical Co., Riverside, Greenville, S. C. 608,862, pub. 4-19-55. Cl. 52.  
 Grice, Jas. E. Chemical Co.: See—  
 Grice, James E.  
 Groth, Frederick D., Unlondale, N. Y. 608,664, pub. 4-19-55. Cl. 22.  
 Guaranty Gas Coal Co., The, Cleveland, Ohio. 608,518-15, pub. 4-12-55. Cl. 1.  
 Guild Shirt Co., Baltimore, Md., by The Shirts Craft Co., Inc., New York, N. Y. 322,378, 12(c) pub. 7-12-55. Cl. 39.  
 Gump, B. F., Co., Cicero, Ill. 320,359, 12(c) pub. 7-12-55. Cl. 23.  
 Haelan Laboratories, Inc., Philadelphia, Pa. 608,811-12, pub. 4-19-55. Cl. 46.  
 Halrbedian, David D., d. b. a. David & Sons, Fresno, Calif. 608,818, pub. 4-19-55. Cl. 46.  
 Halre Publishing Co., Inc., The, New York, N. Y. 327,983, ren. 9-10-55. Cl. 38.  
 Hallcraft Co., Scarsdale, N. Y. 506,244, can. Cl. 3.  
 Haloid Co., The, Rochester, N. Y. 608,534, pub. 4-19-55. Cl. 6.  
 Hamilton Paint Co.: See—  
 Gilman Paint and Varnish Co.  
 Hampton Park Clothes, Inc., New York, N. Y., to William B. Kessler, Inc., Hammonont, N. J. 324,606, ren. 5-21-55. Cl. 39.  
 Hammonont Park Clothes, Inc., New York, N. Y., to William B. Kessler, Inc., Hammonont, N. J. 327,305, ren. 8-20-55. Cl. 39.  
 Hardwood Charcoal Co., Steelville, Mo. 608,519, pub. 4-5-55. Cl. 1.  
 Hardy, James G., & Co. Inc., New York, N. Y. 608,776, pub. 4-5-55. Cl. 42.  
 Harrower Laboratory, Inc., The, Jersey City, N. J. 608,587, pub. 4-19-55. Cl. 18.  
 Hat Corp. of America, Norwalk, Conn. 328,730, ren. 10-1-55. Cl. 39.  
 Hazel-Atlas Glass Co., Wheeling, W. Va. 327,845, ren. 9-3-55. Cl. 50.  
 Hearst Corp., The, New York, N. Y. 608,751, pub. 4-12-55. Cl. 38.  
 Hechler Brothers, Inc., New York, N. Y. 355,882, can. Cl. 44.  
 Hedstrom-Union Co., Fitchburg and Gardner, Mass. 506,199, can. Cl. 42.  
 Helipot Corp., South Pasadena, Calif. 608,657, pub. 4-19-55. Cl. 21.  
 Heller, B., & Co., Chicago, Ill. 608,908. Cl. 46.  
 Heller, Henry B., Corp., St. Louis, Mo. 432,644, can. Cl. 4.  
 Helma Bakeries, Los Angeles, Calif. 356,709-10, can. Cl. 46.  
 Helma Bakeries, Los Angeles, Calif. 385,838, can. Cl. 46.  
 Herbert Mfg. Co., St. Paul, Minn. 506,241, can. Cl. 39.  
 Herrschner, Frederick, Chicago, Ill. 608,605, pub. 4-12-55. Cl. 18.  
 Herstein, Dave, Co., Inc., New York, N. Y. 506,265, can. Cl. 39.  
 Heublein, G. F., & Bro., Inc.: See—  
 Ste. Pierre Smirnoff Fla. Inc.  
 Hexter, Paul L., Inc., Miami Beach, Fla. 608,724, pub. 4-19-55. Cl. 26.  
 Hibba, R. M., d. b. a. Mailales Productions, Philadelphia, Pa. 608,874, pub. 4-19-55. Cl. 101.  
 Hijos de Daniel Espuny S. A., Osuna, Spain. 608,907. Cl. 46.  
 Hi-Way Service Corp., Milwaukee, by Drott Mfg. Corp., Wausau, Wis. 409,067, 12(c) pub. 7-12-55. Cl. 23.  
 Hohner, M., Inc., New York, N. Y. 608,744, pub. 4-5-55. Cl. 36.  
 Holliday, W. J., & Co., a Division of Jones & Laughlin Steel Corp., Indianapolis, Ind. 324,411, ren. 5-21-55. Cl. 14.  
 Hollingsworth's: See—  
 Fine Products Corp.  
 Holmes Eureka Lumber Co., Eureka and San Francisco, Calif. 385,818, can. Cl. 38.  
 Horstmann, W. H., & Sons, Philadelphia, by James Lees and Sons Co., Bridgeport, Pa. 11,651, 12(c) pub. 7-12-55. Cl. 43.  
 Howard & Foster Co., Inc., Brockton, Mass. 608,895, Cl. 39.  
 Hudson Engineering Corp., Houston, Tex. 608,563, pub. 4-12-55. Cl. 13.  
 Hudson, J. L., Co., The, Detroit, Mich. 506,245-6, can. Cl. 39.  
 Hudson Motor Car Co., Detroit, Mich. 404,353, can. Cl. 23.  
 Hudson Pulp & Paper Corp., Portland, Maine. 608,525, pub. 4-26-55. Cl. 5.  
 Hughes Aircraft Co., Culver City, Calif. 608,641, pub. 4-19-55. Cl. 21.  
 Huiskamp Brothers Co., Keokuk, Iowa. 506,243, can. Cl. 39.



Hydropress, Inc., New York, N. Y. 608,682, pub. 4-19-55. Cl. 23.  
 Ideal Corp., Brooklyn, N. Y. 608,659, pub. 4-19-55. Cl. 21.  
 Illinois Bronze Powder Co., Inc., Chicago, Ill. 608,580, pub. 4-12-55. Cl. 18.  
 Illinois Electrotype Co., Chicago, Ill. 608,848, pub. 4-5-55. Cl. 50.  
 Independent Lock Co., Fitchburg, Mass. 608,564, pub. 4-12-55. Cl. 13.  
 Industrial Brownholst Corp.: See—  
 Brown Holsting Machinery Co., The.  
 Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. 608,731, pub. 4-5-55. Cl. 29.  
 Informative Research, Los Angeles, Calif. 608,876, pub. 4-19-55. Cl. 101.  
 Inland Mfg. Co., The, Dayton, Ohio, to General Motors Corp., Detroit, Mich. 324,765, ren. 4-15-55. Cl. 16.  
 International Ferment Machinery Co., Inc., Sloatsburg, N. Y. 608,637, pub. 4-19-55. Cl. 21.  
 International Harvester Co., Chicago, Ill. 608,666, pub. 4-19-55. Cl. 22.  
 International Harvester Co., Chicago, Ill. 608,703, pub. 4-19-55. Cl. 23.  
 International Milling Co., Minneapolis, Minn. 608,819, pub. 4-12-55. Cl. 46.  
 International Smelting and Refining Co., New York, N. Y. 327,920, ren. 9-10-55. Cl. 14.  
 International Telemeter Corp., Los Angeles, Calif. 608,632, pub. 4-19-55. Cl. 21.  
 Interwoven Stocking Co., New Brunswick, N. J. 328,670-1, ren. 10-1-55. Cl. 39.  
 Isaacs, I. C., & Co., Inc., Baltimore, Md. 608,899, Cl. 39.  
 Ives-Cameron Co., Inc., to American Home Products Corp., New York, N. Y. 608,584, pub. 10-27-53. Cl. 18.  
 J. F. G. Coffee Co., Knoxville, Tenn. 608,804, pub. 4-19-55. Cl. 46.  
 Jablow, L., & Co., Inc., to I. Jablow & Co., Inc., Philadelphia, Pa. 328,683, ren. 10-1-55. Cl. 39.  
 Jacobs Bros., Hoboken, N. J. 506,185, can. Cl. 39.  
 Jefferson Cleaners, South Arlington, Va. 506,386, can. Cl. 35.  
 Jerrold Electronics Corp., Philadelphia, Pa. 608,643, pub. 4-19-55. Cl. 21.  
 Jessica, Inc., Columbus, Ga. 608,611, pub. 4-12-55. Cl. 18.  
 Johnson, George E., d. b. a. Johnson Products Co., Chicago, Ill. 608,913, Cl. 51.  
 Johnson & Johnson, New Brunswick, N. J. 608,788, pub. 4-5-55. Cl. 44.  
 Johnson Products Co.: See—  
 Johnson, George E.  
 Johnston Export Publishing Co.: See—  
 McGraw-Hill International Corp.  
 Jordeau, Jean, Inc.: See—  
 Zip Sales Corp. of New York.  
 Keller, Orville C., Products Corp., Detroit, Mich. 608,709, pub. 4-19-55. Cl. 23.  
 Kentile, Inc., Brooklyn, N. Y. 608,558, pub. 4-19-55. Cl. 12.  
 Kerr Mfg. Co.: See—  
 Detroit Dental Mfg. Co.  
 Kessler, William B., Inc.: See—  
 Hammonton Park Clothes, Inc.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 179,877, can. Cl. 22.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 350,166, can. Cl. 9.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 351,244, can. Cl. 9.  
 Kleinert, I. B., Rubber Co., Inc., New York, N. Y. 506,169, can. Cl. 39.  
 Knapp-Sherill Co., Donna, Tex. 433,004, can. Cl. 46.  
 Knit Products Corp., Belmont, N. C. 608,898, Cl. 39.  
 Kobe, Inc.: See—  
 Dresser Equipment Co.  
 Kobe Inc. Division of Dresser Equipment Co.: See—  
 Dresser Equipment Co.  
 Koester, E. H., Bakery Co., The, Baltimore, Md. 325,141, ren. 6-11-55. Cl. 46.  
 Konarski, Mitchell M., Jr., Medina, Ohio. 608,906, Cl. 46.  
 Koninklijke Verkeade Fabrieken N. V., Zaandam, Netherlands. 606,841, cor. Cl. 46.  
 Koveleski, Anthony J., d. b. a. Scranton Hobby Center, Scranton, Pa. 608,747, pub. 4-5-55. Cl. 38.  
 Krisman, H. E., and Co., Inc.: See—  
 Krisman, Harry E.  
 Krisman, Harry E., to H. E. Krisman and Co., Inc., St. Louis, Mo. 327,984, ren. 9-10-55. Cl. 28.  
 Lady America Home Products Co.: See—  
 Bailey, Prithoda & Co.  
 Lady Betsy Textiles: See—  
 Fieldcrest Mills, Inc.  
 Lambert Marketing Co., Sacramento, Calif. 322,342, ren. 3-5-55. Cl. 46.  
 Landreth, D., Seed Co., Philadelphia, Pa. 608,516, pub. 4-12-55. Cl. 1.  
 Lane Bryant, Inc., New York, N. Y. 328,703, ren. 10-1-55. Cl. 39.  
 Larré Laboratories, Inc., Denver, Colo. 608,594, pub. 3-29-55. Cl. 18.  
 Laura Lee Procks, Inc., St. Louis, Mo. 506,302, can. Cl. 39.  
 Leatherwood Mfg. Co., Clarksville, Tenn. 608,624, pub. 4-19-55. Cl. 19.  
 Lee, Frank H., Co., The, Danbury, Conn. 276,387, can. Cl. 39.  
 Lee, Frank H., Co., The, Danbury, Conn. 382,278, can. Cl. 39.  
 Lees, James, and Sons Co.: See—  
 Horstmann, W. H., & Sons.  
 Lefatex, Inc., St. Louis, Mo. 608,520, pub. 4-12-55. Cl. 1.  
 Lemieux, Armand J., Corp., New York, N. Y. 484,844, can. Cl. 27.  
 Lerner Co., The: See—  
 Shelton, Sue, Inc.  
 Leroux and Co., Inc., Philadelphia, Pa. 608,842, pub. 4-12-55. Cl. 49.  
 Levine, Mike, & Co., New York, N. Y. 506,281, can. Cl. 39.  
 Lewel Mfg. Co., Inc., New York, N. Y. 608,896, Cl. 39.  
 Lewis Bolt & Nut Co., Minneapolis, Minn. 334,705, can. Cl. 23.  
 Lexicon Products Inc., St. Paul, Minn. 608,912, Cl. 51.  
 Liberty Provision Co., to Case's Pork Pack Co., Inc., Trenton, N. J. 315,468, ren. 7-31-54. Cl. 46.  
 Likins, P. F., d. b. a. P. F. Likins Co., Chula Vista, Calif. 433,079, can. Cl. 46.  
 Likins, P. F. Co.: See—  
 Likins, P. F.  
 Limestone Products Corp. of America, Newton, N. J. 321,613, 12(c) pub. 7-12-55. Cl. 10.  
 Lipman and Lipman, Inc., Hollywood, Fla. 608,832, pub. 4-19-55. Cl. 46.  
 Liquid Glaze, Inc., Lansing, Mich. 608,914, Cl. 52.  
 Living Plastics, Inc., Philadelphia, Pa. 608,850, pub. 4-5-55. Cl. 50.  
 Lookout Oil & Refining Co.: See—  
 Armour and Co.  
 Lorraine Mfg. Co., Saylesville, R. I., and New York, N. Y., to American Bleached Goods Co., Inc., New York, N. Y. 105,237, ren. 7-13-55. Cl. 42.  
 Lowe, Joe, Corp., New York, N. Y. 608,807-9, pub. 4-12-55. Cl. 46.  
 Luck's, Inc.: See—  
 Mountain View Canning Co.  
 Lumber Dealers Research Council, Champaign, Ill. 608,548, pub. 4-12-55. Cl. 12.  
 M. A. D. Products, Inc., Ramsey, N. J. 608,857, pub. 6-1-54. Cl. 52.  
 M. F. A. Oil Co., Columbia, Mo. 608,571, pub. 3-29-55. Cl. 15.  
 MacGregor Sport Products, Inc., Cincinnati, Ohio. 608,672, pub. 4-19-55. Cl. 22.  
 Madison Products Co., Toledo, Ohio. 506,382, can. Cl. 6.  
 Magic Mold, Inc., Brooklyn, N. Y. 608,759, pub. 4-5-55. Cl. 39.  
 Magnaflex Corp., Chicago, Ill. 608,725, pub. 4-19-55. Cl. 26.  
 Magna-Krom: See—  
 Mangifest, August U.  
 Mailales Productions: See—  
 Hibbs, R. M.  
 Maintenance Products, Inc., Columbus, Ohio. 608,582, pub. 4-19-55. Cl. 16.  
 Mangifest, August U., d. b. a. Magna-Krom, Vandergrift, Pa. 608,861, pub. 4-19-55. Cl. 52.  
 Manhattan Briar Pipes Ltd., New York, N. Y. 608,537, pub. 4-5-55. Cl. 8.  
 Manhattan Shirt Co., The, New York, N. Y. 328,624, ren. 10-1-55. Cl. 39.  
 Manhattan Terrazzo Brass Strip Co., Inc., Norwalk, Conn. 608,559, pub. 4-12-55. Cl. 12.  
 Mantchev, Marco I., Sao Paulo, Brazil. 608,529, pub. 4-19-55. Cl. 6.  
 Manufacturers Corp. of Mansfield, Ohio, Mansfield, Ohio. 608,569, pub. 4-12-55. Cl. 13.  
 Markay Bags, Inc., New York, N. Y. 506,215, can. Cl. 3.  
 Marking Device Association, Chicago, Ill. 608,864, pub. 4-19-55. Cl. 100.  
 Mars, Inc., Chicago, Ill. 608,841, pub. 4-19-55. Cl. 46.  
 Marshall-Wells Co., Duluth, Minn. 608,654, pub. 4-19-55. Cl. 21.  
 Martini & Rossi Società per Azioni, Turin, Italy. 318,954, 12(c) pub. 7-12-55. Cl. 47.  
 Maxza, G. V., Glove Co. Inc., New York, N. Y. 506,357, can. Cl. 39.  
 McDermott & Short, New York, N. Y. 231,080, can. Cl. 39.  
 McEntire Brothers, Inc., Topeka, Kans. 608,750, pub. 4-12-55. Cl. 38.  
 McGraw-Hill International Corp., to Johnston Export Publishing Co., New York, N. Y. 560,974, new cert. Cl. 38.  
 Mega Co., The, by Mega Macaroni Co., Harrisburg, Pa. 260,304, 12(c) pub. 7-12-55. Cl. 46.  
 Mega Macaroni Co.: See—  
 Mega Co., The.  
 Merck & Co., Inc., Rahway, N. J. 608,612-13, pub. 4-19-55. Cl. 18.  
 Merrell, Wm. S., Co., The, to The Wm. S. Merrell Co., Cincinnati, Ohio. 322,418, ren. 3-5-55. Cl. 18.  
 Merrell, Wm. S., Co., The, to The Wm. S. Merrell Co., Cincinnati, Ohio. 323,508, ren. 4-16-55. Cl. 18.  
 Meyer, August A., d. b. a. Universal Water Softener Co. (Not Inc.), Maywood, Ill. 222,612, can. Cl. 31.  
 Michigan Abrasive Co., Detroit, Mich. 608,524, pub. 4-19-55. Cl. 4.  
 Micro-Lite Co., Inc., New York, N. Y., to Ray-O-Vac Co., Madison, Wis. 608,639, pub. 4-26-55. Cl. 21.  
 Mid-Central Fish Co., Kansas City, Mo. 327,311, ren. 8-20-55. Cl. 46.  
 Minneapolis-Moline Co., Hopkins, Minn. 608,701, pub. 4-19-55. Cl. 23.  
 Mishawaka Rubber and Woolen Mfg. Co., Mishawaka, Ind. 608,804, Cl. 39.  
 Mittee Mfg. Co., Inc., St. Paul, Minn. 608,707, pub. 4-26-55. Cl. 23.  
 Mobay Chemical Co.: See—  
 Monsanto Chemical Co.  
 Mobay Chemical Co., St. Louis, Mo. 608,532, pub. 4-19-55. Cl. 6.  
 Modern Village Stores, Inc., El Monte, Calif. 608,689, pub. 4-19-55. Cl. 23.  
 Monsanto Chemical Co., to Mobay Chemical Co., St. Louis, Mo. 427,873, new cert. Cl. 1.  
 Monsanto Chemical Co., St. Louis, Mo. 608,833, pub. 4-19-55. Cl. 46.

Moore and Co., Inc., Worcester, Mass. 608,585, pub. 4-19-55. Cl. 18.  
 Morda Importing & Distributing Co.: See—  
 Skroop, M. D.  
 Morse, Leopold, Co., Boston, Mass. 380,076, can. Cl. 39.  
 Mosaic Tile Co., The, Zanesville, Ohio. 608,555, pub. 4-12-55. Cl. 12.  
 Mountain View Canning Co., to Luck's, Inc., Seagrove, N. C. 608,905, Cl. 46.  
 Myers, D., and Sons, Inc., Baltimore, Md. 322,343, 12(c) pub. 7-12-55. Cl. 39.  
 Natselton, Alvin, New York and Amityville, N. Y. 506,859, can. Cl. 39.  
 Natick Industries Corp., d. b. a. Natick Pharmacal Laboratories, Natick, Mass. 608,607, pub. 4-19-55. Cl. 18.  
 Natick Pharmacal Laboratories: See—  
 Natick Industries Corp.  
 National Association of Bedding Manufacturers, Washington, D. C. 608,752, pub. 4-12-55. Cl. 35.  
 National Blouse Corp., New York, N. Y. 506,292, can. Cl. 39.  
 National Business Equipment Co., Hoboken, N. J. 608,542, pub. 3-29-55. Cl. 11.  
 National Cylinder Gas Co.: See—  
 Tube Turns, Inc.  
 National Farm Equipment Co. Inc., New York, N. Y. 608,680, pub. 4-19-55. Cl. 23.  
 National Food Products Co.: See—  
 Southern Macaroni Mfg. Co.  
 National Growers & Shippers: See—  
 Sherman, Marty, Co.  
 National Jet Co.: See—  
 Cupler, John A., II.  
 Neale, James, and Sons Ltd., Birmingham, England. 608,638, pub. 4-26-55. Cl. 21.  
 Neff, J. W., Laboratories, Inc., Easton, Pa. 608,527, pub. 4-19-55. Cl. 5.  
 Newman, Edward L., & Co., New York, N. Y. 608,900, Cl. 39.  
 New York Association for the Blind, Inc., The, New York, N. Y. 608,732, pub. 4-5-55. Cl. 29.  
 Noair Mfg. Co.: See—  
 Tichy, Bernard W.  
 Nollly Prat & Cie. Etablissements Nollly Prat & Cie., Marseille, France. 96,993, Am. 7(d), Cl. 49.  
 Nollly Prat & Cie. Etablissements Nollly Prat & Cie., Marseille, France. 241,048, Am. 7(d), Cl. 49.  
 Nordmark-Werke Gesellschaft mit beschränkter Haftung, Hamburg, Germany. 608,590, pub. 4-19-55. Cl. 18.  
 North Carolina Finishing Co., Salisbury, N. C. 608,884, pub. 4-19-55. Cl. 106.  
 North Pacific Cannery & Packers, Inc., Portland, Ore. 608,803, pub. 4-12-55. Cl. 46.  
 Northrop Products, Inc., Pacific Palisades, Calif. 608,679, pub. 4-19-55. Cl. 22.  
 Nut Tree, Vacaville, Calif. 608,704, pub. 4-19-55. Cl. 23.  
 Odell, Edward E., Boston, Mass. 608,867, pub. 4-12-55. Cl. 100.  
 Ohio Brass Co., The, Mansfield, Ohio. 608,649, pub. 4-19-55. Cl. 21.  
 Okie, F. B., Lansdowne, Pa. 608,856, pub. 4-19-55. Cl. 52.  
 Oklahoma Publishing Co., The, Oklahoma City, Okla. 320,871, 12(c) pub. 7-12-55. Cl. 38.  
 Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corp. 608,540, pub. 4-12-55. Cl. 9.  
 Olin Mathieson Chemical Corp.: See—  
 Olin Industries, Inc.  
 Oral Hygiene, Inc., Pittsburgh, Pa. 608,748, pub. 4-5-55. Cl. 38.  
 Orange Belt Fruit Distributors, Pomona, Calif. 506,161, can. Cl. 46.  
 Ore-Ida Potato Products, Inc., Ontario, Ore. 608,910, Cl. 46.  
 Orkin Exterminating Co., Inc., Atlanta, Ga. 608,880-1, pub. 4-12-55. Cl. 103.  
 Oseap Mfg. Co., Inc., Baltimore, Md. 506,379, can. Cl. 28.  
 Pabst Chemical Co., Chicago, Ill. 45,768, can. Cl. 6.  
 Pabst Pharmaceutical Co., Chicago, Ill. 347,927, can. Cl. 6.  
 Pacific Motor Sales: See—  
 Alfandari, Jean L.  
 Pan-Am Foods, Inc.: See—  
 Pan-Am Freezers, Inc.  
 Pan-Am Freezers, Inc., Brownsville, Tex., now by change of name Pan-Am Foods, Inc. 506,139, can. Cl. 46.  
 Panther Oil & Grease Mfg. Co., Fort Worth, Tex. 608,916, Cl. 52.  
 Paraffine Companies, Inc., The, San Francisco, Calif. 296,330, can. Cl. 52.  
 Parfums Schiaparelli, Inc., New York, N. Y. 608,854, pub. 4-12-55. Cl. 51.  
 Parks Hosiery Mills, Inc., Asheboro, N. C. 269,359, can. Cl. 39.  
 Pavia Process, Inc., Washington, D. C. 608,837, pub. 4-19-55. Cl. 46.  
 Pearson Remedy Co., Inc., Burlington, N. C. 608,617, pub. 4-19-55. Cl. 18.  
 Peck & Peck, New York, N. Y. 315,995, can. Cl. 39.  
 Penn-Dutch Lebanon Bologna, Inc., Philadelphia, Pa. 608,791, pub. 3-29-55. Cl. 46.  
 Penn-Dutch Lebanon Bologna, Inc., Philadelphia, Pa. 608,793-4, pub. 3-29-55. Cl. 46.  
 Pep Boys—Manny, Moe & Jack, The, Philadelphia, Pa. 608,572, pub. 4-5-55. Cl. 15.  
 Perdue Mfg. Co., Athens, Ga. 608,767, pub. 4-12-55. Cl. 39.  
 Perfect Belt Mfg. Co., Atlanta, Ga. 506,209, can. Cl. 39.  
 Perma Products Co., The, Cleveland, Ohio. 608,574, pub. 4-12-55. Cl. 16.  
 Peters-Dalton, Inc., Detroit, Mich. 608,688, pub. 4-26-55. Cl. 23.  
 Pfeiffer, S., Mfg. Co., St. Louis, Mo. 326,039, ren. 7-9-55. Cl. 18.  
 Pfeiffer, S., Mfg. Co., St. Louis, Mo. 431,892, can. Cl. 6.  
 Pfister, Chas., & Co., Inc., Brooklyn, N. Y. 608,599, pub. 4-5-55. Cl. 18.  
 Pharis Tire and Rubber Co., The, Newark, Ohio. 336,271, can. Cl. 35.  
 Pharis Tire and Rubber Co., The, Newark, Ohio. 352,378, can. Cl. 35.  
 Pharis Tire and Rubber Co., The, Newark, Ohio. 354,255, can. Cl. 35.  
 Pharis Tire and Rubber Co., The, Newark, Ohio. 392,267, can. Cl. 32.  
 Pharmaceuticals, Inc., Newark, N. J. 608,609, pub. 4-12-55. Cl. 18.  
 Phelps Dodge Copper Products Corp., New York, N. Y. 608,648, pub. 4-19-55. Cl. 21.  
 Philadelphia Sketch Club, The, Philadelphia, Pa. 608,892, Cl. 37.  
 Phillips Petroleum Co., Bartlesville, Okla. 608,739-40, pub. 4-19-55. Cl. 35.  
 Photoglo Co. of America: See—  
 Roman, John A.  
 Phyllis Shoe Co., Inc., Lowell, Mass. 608,762, pub. 4-5-55. Cl. 39.  
 Pioneer Co. Inc., The, Chicago, Ill. 608,663, pub. 4-19-55. Cl. 22.  
 Pittsburgh Plate Glass Co., Pittsburgh, Pa. 324,678, ren. 5-28-55. Cl. 33.  
 Plastic Wire & Cable Corp., The, Jewett City, Conn. 608,656, pub. 4-19-55. Cl. 21.  
 Plastile Products, Inc., Chicago, Ill. 608,556, pub. 4-12-55. Cl. 12.  
 Plas-Trix Co., The, Brooklyn, N. Y. 608,678, pub. 4-19-55. Cl. 22.  
 Playboy Motor Car Corp., Buffalo, N. Y. 506,267, can. Cl. 19.  
 Plumbers Publishing Co., The, Philadelphia, Pa. 608,756, pub. 4-5-55. Cl. 38.  
 Pollak, Henry, Inc., New York, N. Y. 506,255, can. Cl. 39.  
 Pollak, Henry, Inc., New York, N. Y. 506,256, can. Cl. 40.  
 Pollak, Henry, Inc., New York, N. Y. 506,380, can. Cl. 40.  
 Powell & Campbell, Inc., New York, N. Y. 506,195, can. Cl. 39.  
 Powers, Clifton E., d. b. a. Traller Brokerage Service Co., Lansing, Mich. 608,918, Cl. 102.  
 Prentiss Vase Co., New York, N. Y. 608,692, pub. 4-19-55. Cl. 23.  
 Princess Peggy, Inc., Peoria, Ill. 608,761, pub. 4-5-55. Cl. 39.  
 Printz-Biederman Co., The, Cleveland, Ohio. 506,257, can. Cl. 39.  
 Procter & Gamble Co., The, Cincinnati, Ohio. 608,531, pub. 4-19-55. Cl. 6.  
 Procter & Gamble Co., The, Cincinnati, Ohio. 608,863, pub. 4-19-55. Cl. 52.  
 Prophylactic Products Co.: See—  
 Vault, M. C.  
 Puget Modern Inc., Seattle, Wash. 608,557, pub. 4-12-55. Cl. 12.  
 Pulp Reproduction Co., Milwaukee, Wis. 588,996, Am. 7(d), Cl. 22.  
 Quackenbush Co.: See—  
 Allied Stores Corp.  
 Rakeham, Chester, Scenic Studios, Inc., New York, N. Y. 608,851, pub. 4-5-55. Cl. 50.  
 Rand Rubber Co., Inc., Brooklyn, N. Y. 328,557, ren. 10-1-55. Cl. 39.  
 Rapaport, Monroe, d. b. a. The Vulcan Lacquer and Coating Co., Brooklyn, N. Y. 608,577, pub. 4-12-55. Cl. 16.  
 Raybestos-Manhattan, Inc., Passaic, N. J. 608,650, pub. 4-19-55. Cl. 21.  
 Ray-O-Vac Co.: See—  
 Micro-Lite Co., Inc.  
 Ray-O-Vac Co., Madison, Wis. 608,644-5, pub. 4-19-55. Cl. 21.  
 Red & White Corp., Chicago, Ill. 327,923, ren. 9-10-55. Cl. 46.  
 Regan Mfg. Corp., San Bruno, Calif. 608,843, pub. 4-12-55. Cl. 50.  
 Regent Sales, Inc., Springfield, Mass. 608,634, pub. 4-19-55. Cl. 21.  
 Reid Wright & Holloway (Distillers) Ltd., London, England. 325,788, ren. 7-2-55. Cl. 49.  
 Remedia, Inc., New York, N. Y. 608,598, pub. 3-29-55. Cl. 18.  
 Remington Rand Inc.: See—  
 Victor Safe & Equipment Co., Inc., The.  
 Ressegule, B., & Son: See—  
 Ressegule, Leon.  
 Ressegule, Leon, d. b. a. B. Ressegule & Son, Middleport, N. Y. 608,810, pub. 4-12-55. Cl. 46.  
 Rhee Elastic Thread Corp., Warren, R. I. 506,334, can. Cl. 43.  
 Riegel Paper Corp., New York, N. Y. 827,518, ren. 8-27-55. Cl. 37.  
 Rivinc Products, Inc., Rockford, Ill. 608,677, pub. 4-19-55. Cl. 22.  
 Riverside Shirt & Underwear Corp., New York, N. Y. 608,763, pub. 4-5-55. Cl. 39.  
 Riviera Packing Co., Oakland, Calif. 608,805, pub. 4-19-55. Cl. 46.  
 Robins, A. H., Co., Inc., Richmond, Va. 608,606, pub. 4-19-55. Cl. 18.  
 Robinson Yarns, Inc., Worcester, Mass. 608,784, pub. 4-12-55. Cl. 43.  
 Roman Stripe Hosiery: See—  
 Chipman Knitting Mills.  
 Roman, John A., d. b. a. Photoglo Co. of America, New York, N. Y. 506,133, can. Cl. 38.



Rosalter, Milton A., d. b. a. Brawley Drug Co., Brawley, Calif. 506,360, can. Cl. 6.  
 Roth, O., & Co., New York, N. Y., and Ulster-Zurich, Switzerland, by Otto Roth & Co., Inc., New York, N. Y. 103,965, 12(c) pub. 7-12-55. Cl. 46.  
 Roth, Otto, & Co., Inc.: See—  
 Roth, O., & Co.  
 Rothlein, William, Inc., New York, N. Y. 608,775, pub. 4-12-55. Cl. 42.  
 Royal Society, Inc., New York, N. Y. 506,327-8, can. Cl. 40.  
 Royster, F. S., Guano Co., Norfolk, Va. 608,541, pub. 4-12-55. Cl. 10.  
 Rubinger, David H., New York, N. Y. 608,636, pub. 4-19-55. Cl. 21.  
 Russell, F. C., Co., The, Cleveland, Ohio. 608,551-2, pub. 4-12-55. Cl. 12.  
 S & G Rubber Co., Mendham, N. J. 608,769, pub. 4-12-55. Cl. 40.  
 Sabre Archery Co., The: See—  
 Stockfleth, Harry C.  
 Safranek, Sigmund L., d. b. a. Soovia Janis, Baltimore, Md. 608,536, pub. 4-5-55. Cl. 8.  
 Sage, Edwin R., d. b. a. Sage Industries, Huntington Park, Calif. 506,376, can. Cl. 40.  
 Sage Industries: See—  
 Sage, Edwin R.  
 Sager, Barbara A., d. b. a. Sager Enterprises, West McHenry, Ill. 506,137, can. Cl. 2.  
 Sager Enterprises: See—  
 Sager, Barbara A.  
 Ste. Pierre Smirnoff Fla. Inc., New York, N. Y., to G. F. Heublein & Bro., Inc., Hartford, Conn. 328,594, ren. 10-1-55. Cl. 49.  
 Salinas Valley Vegetable Exchange, Salinas, Calif. 328,840, ren. 9-24-55. Cl. 46.  
 Salinas Valley Vegetable Exchange, Salinas, Calif. 328,572, ren. 10-1-55. Cl. 46.  
 Sanders Associates Inc., Nashua, N. H. 608,640, pub. 4-19-55. Cl. 21.  
 San Dimas Lemon Association, San Dimas, Calif. 608,820, pub. 2-22-55. Cl. 46.  
 San Giorgio Società Industriale per Azioni, Genoa, Italy. 608,690, pub. 4-26-55. Cl. 23.  
 Sanna Dairies, Inc., Madison, Wis. 608,911. Cl. 46.  
 Sarser, David, New York, N. Y. 608,627, pub. 4-26-55. Cl. 21.  
 Savage Arms Corp., Utica, N. Y. 608,538, pub. 4-12-55. Cl. 9.  
 Savannah Truckers Exchange, Savannah, Ga. 175,121, can. Cl. 46.  
 Sawdon, Victor J., New York, N. Y. 325,800, ren. 7-2-55. Cl. 37.  
 Schaik Chemical Co., Los Angeles, Calif. 608,859, pub. 4-19-55. Cl. 52.  
 Scharf Brenner Mfg. Co., Philadelphia, Pa. 506,238, can. Cl. 39.  
 Schenley Laboratories, Inc., New York, N. Y. 608,588, pub. 4-19-55. Cl. 18.  
 Schering Corp., Bloomfield, N. J. 608,600, pub. 4-12-55. Cl. 18.  
 Schering Corp., Bloomfield, N. J. 608,601, pub. 4-5-55. Cl. 18.  
 Scherl & Roth, Inc., New York, N. Y., to Scherl & Roth, Inc. 338,822, can. Cl. 36.  
 Schlumbohm, Dr. Peter, New York, N. Y. 608,629, pub. 4-26-55. Cl. 21.  
 Schneiders, L. & Sons, Inc., New York, N. Y. 506,254, can. Cl. 39.  
 Schoeneman, J., Inc., Baltimore, Md. 321,734, 12(c) pub. 7-12-55. Cl. 39.  
 Schoeneman, J., Inc., Baltimore, Md. 322,394, 12(c) pub. 7-12-55. Cl. 39.  
 Schulman, Mike, Inc., New York, N. Y. 506,288, can. Cl. 39.  
 Schumacher Wall Board Corp., Los Angeles, Calif. 256,423, can. Cl. 12.  
 Schwen Ice Cream & Candy Co., Blue Earth, Minn. 608,909. Cl. 46.  
 Scott, Palmer, & Co., Inc., New Bedford, Mass. 506,184, can. Cl. 19.  
 Scranton Hobby Center: See—  
 Koveleski, Anthony J.  
 Seamless Rubber Co., The, New Haven, Conn. 608,526, pub. 4-12-55. Cl. 5.  
 Selby, Battersby & Co., Philadelphia, Pa. 608,578, pub. 4-5-55. Cl. 16.  
 Sessions Clock Co., The, Forestville, Conn., to Detroit Controls Corp., Detroit, Mich. 608,653, pub. 4-19-55. Cl. 21.  
 Seymour-Avery Mfg. Co., Chicago, Ill. 506,378, can. Cl. 39.  
 Shaw, Alex D., & Co., Inc., to Munson G. Shaw Co., Inc., New York, N. Y. 328,941, ren. 10-8-55. Cl. 49.  
 Shaw, Alex D., & Co., Inc., New York, N. Y., by Duff Gordon & Co., Port St. Mary's, Spain. 330,617, 12(c) pub. 7-12-55. Cl. 47.  
 Shaw, Munson G., Co., Inc.: See—  
 Shaw, Alex D., & Co., Inc.  
 Shelton, Sue, Inc., Shelton, Conn., and New York, N. Y., to The Lerner Co., New York, N. Y. 506,290, can. Cl. 39.  
 Sherman, Marty, Co., El Centro, Calif., from National Growers & Shippers. 506,148, can. Cl. 46.  
 Shlircraft Co., Inc., The: See—  
 Guild Shirt Co.  
 Showalter Mfg. Co., Inc., Jackson, Miss. 608,546, pub. 4-12-55. Cl. 12.  
 Siegal, Zola, d. b. a. Vita Chemical Products, Los Angeles, Calif. 608,610, pub. 4-12-55. Cl. 18.  
 Sierra Lumber Products, Pasadena, Calif. 608,554, pub. 12-7-54. Cl. 12.  
 Signet Club Plan, Cambridge, Mass. 608,779, pub. 4-5-55. Cl. 42.  
 Silver, Sigmund, New York, N. Y. 608,852, pub. 4-5-55. Cl. 50.  
 Skipper Publishing Co., The, Annapolis, Md. 575,646. Am. 7(d). Cl. 38.  
 Skroopka, M. D., d. b. a. Morda Importing & Distributing Co., Los Angeles, Calif. 608,570, pub. 4-12-55. Cl. 13.  
 Smith, Alexander, Inc., White Plains, N. Y. 608,781, pub. 4-12-55. Cl. 42.  
 Smith, Martin H., Co., New York, N. Y. 608,608, pub. 4-12-55. Cl. 18.  
 Societe a Responsabilite Limitee Cointreau, Angers, France, to Cointreau Corp., Pennington, N. J. 328,869, ren. 10-8-55. Cl. 49.  
 Societe Anonyme Chimie & Atomistique, Paris, France. 608,589, pub. 4-26-55. Cl. 18.  
 Societe Anonyme Nouvelle de Constructions Mecaniques de la Loire "Automoto", Courbevoie, France. 608,622, pub. 4-19-55. Cl. 19.  
 Somerville, A. A., d. b. a. The Carmelita Co., Carmel, N. Y. 608,705, pub. 4-19-55. Cl. 23.  
 Sonic Industries, Inc., Long Island City, N. Y. 608,630, pub. 4-19-55. Cl. 21.  
 Soovia Janis: See—  
 Safranek, Sigmund L.  
 Southern Commercial & Savings Bank, Pasadena, Calif. 608,879, pub. 4-12-55. Cl. 102.  
 Southern Cotton Oil Co., The, New Orleans, La. 608,800, pub. 4-19-55. Cl. 46.  
 Southern Macaroni Mfg. Co., by National Food Products Co., New Orleans, La. 105,400, 12(c) pub. 7-12-55. Cl. 46.  
 Southern Pine Lumber Co., Diboll, Tex. 608,733-4, pub. 4-5-55. Cl. 29.  
 Spaulding-Moss Co., Boston, Mass. 328,117, ren. 9-17-55. Cl. 37.  
 Sper Carbon Co., St. Mary's, Pa. 608,866, pub. 4-19-55. Cl. 100.  
 Spickler, Robert D., Mamaroneck, N. Y. 608,891. Cl. 34.  
 Sportsman's Handbook, The: See—  
 Branch, Houston.  
 Sprague Electric Co.: See—  
 Sprague Specialties Co.  
 Sprague Specialties Co., Sprague Electric Co., North Adams, Mass. 277,908. Am. 7(d). Cl. 21.  
 Standard Milling Co., Chicago, Ill. 506,154, can. Cl. 46.  
 Stanley Home Products, Inc., Westfield, Mass. 608,754, pub. 4-5-55. Cl. 38.  
 Star Brush Mfg. Co., Inc., Boston, Mass. 608,735, pub. 4-5-55. Cl. 29.  
 Steelcraft: See—  
 Steelcraft Mfg. Co., The.  
 Steelcraft Mfg. Co., The, d. b. a. Steelcraft, Rossmyrne, Ohio. 608,543, pub. 4-12-55. Cl. 12.  
 Sterling Motor Truck Co., Inc., West Allis, Wis. 506,191, can. Cl. 19.  
 Stockfleth, Harry C., d. b. a. The Sabre Archery Co., Chatham, N. Y. 608,670-1, pub. 4-19-55. Cl. 22.  
 Stonecutter Mills Corp., New York, N. Y. 506,253, can. Cl. 42.  
 Streitt, Aron, to Aron Streitt, Inc., New York, N. Y. 326,595, ren. 7-30-55. Cl. 46.  
 Streitt, Aron, Inc.: See—  
 Streitt, Aron.  
 Sunbeam-Talbot Ltd.: See—  
 Clement Talbot Ltd.  
 Super-Form Brassiere, Inc., New York, N. Y. 608,766, pub. 4-5-55. Cl. 39.  
 Supermatic Products Corp., Burbank, Calif. 608,565, pub. 4-12-55. Cl. 13.  
 Swedlin, J., Inc., New York, N. Y. 608,673, pub. 4-19-55. Cl. 22.  
 Tap Equipment Co., Los Angeles, Calif. 608,694, pub. 4-26-55. Cl. 23.  
 Technograph Printed Circuits Inc., Tarrytown, N. Y., now by change of name Technograph Printed Electronics Inc. 608,625, pub. 4-26-55. Cl. 21.  
 Technograph Printed Electronics Inc.: See—  
 Technograph Printed Circuits Inc.  
 Teen-Timers, Inc., New York, N. Y. 506,167, can. Cl. 39.  
 Terrytoons, Inc., New Rochelle, N. Y. 608,729, pub. 4-19-55. Cl. 26.  
 Texas Brags—World's Finest Foods, Inc., Dallas, Tex. 608,789, pub. 4-22-52. Cl. 46.  
 Texas Star Flour Mills, Galveston, Tex. 77,343, can. Cl. 46.  
 Texize Chemicals, Inc.: See—  
 Chemical & Industrial Laboratories, Inc.  
 Textile, Inc., Dallas, Tex. 608,553, pub. 4-12-55. Cl. 12.  
 Thomson, J. G., and Co., Ltd., Leith, Edinburgh, Scotland. 324,468, ren. 5-21-55. Cl. 49.  
 Thorobred Photo Service, Inc., Burbank, Calif. 608,870, pub. 4-12-55. Cl. 100.  
 Tichy, Bernard W., d. b. a. Noair Mfg. Co., Westbury, N. Y. 608,785, pub. 4-12-55. Cl. 44.  
 Tillis, Earl W., d. b. a. Tillis Mfg. Co., Elkhart, Ind. 608,697, pub. 4-19-55. Cl. 23.  
 Tillis Mfg. Co.: See—  
 Tillis, Earl W.  
 Titan Valve and Mfg. Co., The, Cleveland, Ohio. 394,470, can. Cl. 26.  
 Tobacco By-Products and Chemical Corp., Louisville, Ky. 352,421, can. Cl. 23.  
 Tobin, Margaret B., San Antonio, Tex. 608,871, pub. 4-12-55. Cl. 100.  
 Todd, E. M., Co., Richmond, Va. 301,810, can. Cl. 46.  
 Torcon Corp., Ashtabula, Ohio, to Clark Equipment Co. 608,716, pub. 4-12-55. Cl. 23.  
 Torrington Co., The, Torrington, Conn. 608,714, pub. 4-12-55. Cl. 23.  
 Trailer Brokerage Service Co.: See—  
 Powers, Clifton E.  
 Tremmetal, Inc., Trenton, N. J. 608,545, pub. 4-12-55. Cl. 12.

Tretex Dress Co., Inc., New York, N. Y. 608,764, pub. 4-5-55. Cl. 39.  
 Tri-State Hosiery Co., Inc., Newark, N. J. 592,765, can. Cl. 39.  
 Tropical Blossom Honey Co., Edgewater, Fla. 608,798, pub. 9-21-54. Cl. 46.  
 Tube Turns, Inc., Chicago, Ill., to National Cylinder Gas Co. 608,745, pub. 4-5-55. Cl. 38.  
 United Merchants and Manufacturers, Inc., New York, N. Y. 608,885, pub. 4-19-55. Cl. 106.  
 United States Dowel Co.: See—  
 Elsendrath, Oscar N.  
 U. S. Industrial Chemicals, Inc., New York, N. Y. 506,295, can. Cl. 38.  
 U. S. Tool & Mfg. Co., Chicago, Ill. 506,262, can. Cl. 19.  
 Universal Optical Co., Inc., Providence, R. I. 608,727, pub. 4-12-55. Cl. 26.  
 Universal Water Softener Co. (Not Inc.): See—  
 Meyer, August A.  
 Upjohn Co., The, Kalamazoo, Mich. 608,597, pub. 3-29-55. Cl. 18.  
 Up-Kit Co., San Francisco, Calif. 506,153, can. Cl. 3.  
 Utica Cutlery Co., Utica, N. Y. 608,683-4, pub. 4-19-55. Cl. 23.  
 Van Camp Hardware & Iron Co., Indianapolis, Ind. 137,735, can. Cl. 21.  
 Vegetable Oil Products Co., Inc., Wilmington, Calif. 608,797, pub. 3-30-54. Cl. 46.  
 Verd Mont Woolen Mills, Inc., New York, N. Y. 608,772, pub. 6-29-54. Cl. 42.  
 Verifine Dairy Products Co.: See—  
 Verifine Dairy Products Corp. of Sheboygan Inc.  
 Verifine Dairy Products Corp. of Sheboygan Inc., d. b. a. Verifine Dairy Products Co., Sheboygan, Wis. 608,790, pub. 4-19-55. Cl. 46.  
 Visult, M. C., d. b. a. Prophylactic Products Co., New York, N. Y. 608,583, pub. 4-5-55. Cl. 18.  
 Victor Safe & Equipment Co., Inc., The, North Tonawanda, by Remington Rand Inc., New York, N. Y. 321,569, 12(c) pub. 7-12-55. Cl. 37.  
 Vita Chemical Products: See—  
 Siegal, Zola.  
 Vogue Dolls, Inc., Medford, Mass. 608,888. Cl. 22.  
 Vulcan Lacquer and Coating Co., The: See—  
 Rapaport, Monroe.  
 Vulcan Mfg. Co., Inc., Winona, Minn. 608,710, pub. 4-26-55. Cl. 23.  
 Waldorf Heater Co., Philadelphia, Pa. 608,737, pub. 4-5-55. Cl. 34.  
 Walker Laboratories, Inc., Mount Vernon, N. Y. 608,615, pub. 4-19-55. Cl. 18.  
 Walla Walla Canning Co., Walla Walla, Wash. 608,834-5, pub. 4-12-55. Cl. 46.  
 Watson Elevator Co., Inc., New York, N. Y. 608,711, pub. 4-12-55. Cl. 23.  
 Watterworth Corp., The, Detroit, Mich. 506,368, can. Cl. 6.  
 Webster Eisenlohr Inc., New York, N. Y., to Bayuk Cigars Inc., Philadelphia, Pa. 328,352, ren. 9-24-55. Cl. 17.  
 Welch, M. V., d. b. a. Welch Sales Co., Herington, Kans. 608,700, pub. 4-19-55. Cl. 23.  
 Welch Sales Co.: See—  
 Welch, M. V.  
 Wells, Russell K., d. b. a. Gifts 'N' Gadgets, Los Angeles, Calif. 608,802, pub. 4-19-55. Cl. 46.  
 Wendell, Inc., Los Angeles, Calif. 506,165, can. Cl. 39.  
 Wen-Mac Corp., Los Angeles, Calif. 608,665, pub. 4-19-55. Cl. 22.  
 Western Garment Co., St. Louis, Mo. 608,758, pub. 4-5-55. Cl. 39.  
 Wetherhead, Walter G., Springfield, Vt. 608,902. Cl. 40.  
 White Laboratories Inc., Kenilworth, N. J. 608,603, pub. 4-12-55. Cl. 18.  
 Whitehall Pharmacal Co., New York, N. Y. 608,592, pub. 3-8-55. Cl. 18.  
 Whitehouse Mfg. Co., Chicago, Ill. 396,091, can. Cl. 39.  
 Whitmore, Bertha L., d. b. a. Whitmore Mfg. Co., Jackson, Tenn. 506,374, can. Cl. 6.  
 Whitmore Mfg. Co.: See—  
 Whitmore, Bertha L.  
 Wiggins, E. B., Oil Tool Co., Inc., Los Angeles, Calif. 608,567, pub. 4-12-55. Cl. 13.  
 Wilcox-Gay Corp., The, Charlotte, Mich. 605,067, corrected. Cl. 21.  
 Williams, J. B., Co., The, Glastonbury, Conn. 608,855, pub. 3-15-55. Cl. 51.  
 Wilton Mfg. Co., Philadelphia, Pa. 506,211, can. Cl. 39.  
 Windsor Hats (Proprietary) Ltd., Johannesburg, Transvaal, South Africa. 506,166, can. Cl. 39.  
 Winn, J. H., Inc., Winchester, Mass. 608,730, pub. 4-12-55. Cl. 27.  
 Wisconsin Alumni Research Foundation, Madison, Wis. 608,595, pub. 3-29-55. Cl. 18.  
 Wolff, Alice F., Brooklyn, N. Y. 506,337, can. Cl. 42.  
 Woll-Wascherel und Kammerel in Dohren bei Hannover, Hannover-Dohren, Germany. 608,586, pub. 4-12-55. Cl. 18.  
 Wood, T. W., & Sons, Richmond, Va. 827,934, ren. 9-10-55. Cl. 1.  
 Wortendyke Mfg. Co., to Camp Mfg. Co., Inc., Richmond, Va. 327,006, ren. 8-13-55. Cl. 37.  
 Wyeth Laboratories, Division of American Home Products Corp.: See—  
 American Home Products Corp.  
 Wympe's, Inc., Dayton, Ohio. 608,825, pub. 4-19-55. Cl. 46.  
 Young's Speedy Shoes, Inc., Los Angeles, Calif. 506,175, can. Cl. 39.  
 Zip Sales Corp. of New York, New York, N. Y., to Jean Jordeau, Inc., to Jean Jordeau, Inc., South Orange, N. J. 324,648, ren. 5-28-55. Cl. 18.



## PATENTS NOTICES

### Order of Examination of Amended Applications

Effective July 11, 1955, and until further notice, applications which have received at least two actions on the merits and which have been submitted for further consideration and action, shall be treated as "special" cases and acted upon forthwith. Such applications shall retain "special" status throughout their prosecution before the Examiner. This action is intended to reduce the periods during which applications remain pending before the Office.

Examiners are reminded that first consideration should be given to maintaining the new case date within nine months in accordance with the Notice of December 10, 1954.

ROBERT C. WATSON,  
Commissioner of Patents.

June 29, 1955.

### Disclaimer

2,612,226.—*Stephen Crum*, Minneapolis, Minn. ENGINE POWER CONTROL APPARATUS. Patent dated Sept. 30, 1952. Disclaimer filed June 24, 1955, by the assignee, *Minneapolis-Honeywell Regulator Company*.

Hereby enters this disclaimer to claims 1, 2, 3, and 11 of said patent.

### Adjudicated Patents

(D. C. Md.) Wilson Patent No. 2,294,434, for method and apparatus for forming Venetian blind slats and strip material therefor. Claim 1 *Held* not infringed. *Acme Steel Company v. Eastern Venetian Blind Company*, 130 F. Supp. 459; 105 USPQ 100.

(D. C. Calif.) Raver Patent No. 2,308,541, for a machine for production of arch-shaped ice wafers, *Held* not infringed; claims 1, 2, 3, and 14 *Held* valid, and claims 9, 10, 12, 13, and 21 *Held* invalid. *Flakice Corp. v. Liquid Freeze Corp.*, 130 F. Supp. 471; — USPQ —.

(D. C. Calif.) Short Patent No. 2,310,468, for a machine for production of arch-shaped ice wafers. Claims 6 and 9 *Held* invalid, and claims 10 and 16 *Held* valid and infringed. *Id.*

(D. C. Md.) Spitzer, Reich, and Fine Patent No. 2,655,480, for a lather producing composition, *Held* valid, and claims 5, 6, 8 to 10, 15, 18, and 20 *Held* infringed. *Carter Products, Inc., et al. v. Colgate-Palmolive Company et al.*, 130 F. Supp. 557; 104 USPQ 314.

### Patent Office Coupons

The Patent Office now has available 25¢ coupons in pads of 100 *without stubs*.

Pads of 25¢ coupons with stubs will continue to be sold. However, persons not using stubs for record purposes will find the pads without stubs more convenient to use. Persons desiring pads without stubs are requested to so specify on their orders, otherwise pads with stubs will be furnished.

T. B. MORROW,  
Executive Officer.

### Patents Available for Licensing or Sale

2,710,371. Electrochemical Motor. Hugo C. Gollmer, P. E., 508 East 78th St., New York 21, N. Y.

2,702,554. Hair Curler. Q. W. Rogers and E. R. Hutchins, 942 Monroe St., Eugene, Oreg.

2,708,854. Quick Acting Vice. Rose M. Makhholm, 1842 12th St., Racine, Wis.

2,708,866. Rotary Cultivator. Mrs. Jessie Shonta, 609 East 6th St., Lockport, Ill.

2,691,440. Package for Phonograph Records. Aristos G. Spugios, 405 East Walnut St., Kalamazoo, Mich., and William P. Marshall, 160 Edgemoor Ave., Kalamazoo, Mich.

2,709,576. Casing Structure for Baseboard Heaters. Harry N. Marggraf, 8212 South Carpenter St., Chicago, Ill.

General Electric Company offers the following two patents for non-exclusive licensing. Applications for license may be addressed to: Patent Counsel, Switchgear & Control Division, General Electric Company, 6901 Elmwood Ave., Philadelphia 42, Pa.

2,696,536. Control Arrangement for Circuit Breakers.

2,700,894. Apparatus for Ultrasonic Investigation.

### New Applications Received During May 1955

Patents	7,253
Plants	7
Reissues	16
Designs	555
Total	7,831

### Issue

Patents	518—No. 2,713,165 to No. 2,713,682, incl.
Designs	68—No. 175,139 to No. 175,206, incl.
Plants	1—No. 1,406
Reissues	5—No. 24,038 to No. 24,042, incl.
Total	592



# CONDITION OF PATENT APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding Designs)	220, 623
Total number of pending Design applications	6, 896
Total number of applications awaiting action (excluding Designs)	137, 812
Total number of Design applications awaiting action	2, 978
Date of oldest new application	May 27, 1954
Date of oldest amended application	Aug 6, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS	
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.	
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 69, 70.	
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.	
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.	
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.	
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.	
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.	
DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION		Oldest Application
(Roman numerals in parentheses indicate Examining Group)		
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage.	10-7-54	3-9-54
2. (III) HERMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers.	12-8-54	6-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions.	8-31-54	11-3-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.	9-14-54	10-29-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	10-15-54	2-23-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g., Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.	8-4-54	1-12-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus.	9-13-54	11-6-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture.	8-3-54	3-1-54
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines.	10-18-54	12-14-53
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	1-7-55	5-27-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls.	9-20-54	10-12-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g., Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	10-1-54	12-9-53
14. (III) MANIAN, J. C., Metal Working (part), e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	11-5-54	1-4-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass.	10-19-54	3-5-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders.	9-10-54	9-17-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	10-20-54	2-25-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.	9-2-54	9-11-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners.	8-18-54	1-15-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	11-12-54	3-24-54
21. (III) MADER, R. C., Textiles.	10-8-54	1-25-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	11-29-54	2-4-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education.	5-27-54	8-7-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.	11-22-54	8-10-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	9-1-54	12-4-53
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g., Miscellaneous Electric Control Mechanism.	11-1-54	6-1-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making.	12-2-54	4-7-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	10-5-54	4-8-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	9-13-54	2-1-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.	11-24-54	12-23-53

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DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION		Oldest Application	
(Roman numerals in parentheses indicate Examining Group)		New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g., Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.		7-28-54	1-12-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.		11-1-54	4-21-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.		9-7-54	12-10-53
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.		9-2-54	11-10-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.		11-8-54	2-16-54
36. (V) McFADYEN, A. D., Measuring and Testing.		11-15-54	6-11-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.		6-25-54	1-26-54
38. (I) MARTELSTEIN, N., Carbon Chemistry (part), e. g., Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.		9-1-54	12-2-53
39. (IV) WEIL, L., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).		12-24-54	1-28-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.		12-2-54	4-1-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.		6-1-54	9-11-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.		9-27-54	3-10-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).		9-3-54	10-5-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.		10-13-54	6-3-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.		11-29-54	5-10-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.		6-11-54	8-6-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.		9-28-54	4-23-54
50. (I) BENGEL, W. G., Carbon Chemistry (part), e. g., Synthetic Resins, Natural or Synthetic Rubber.		10-18-54	3-9-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.		9-23-54	3-9-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.		11-8-54	2-26-54
53. (IV) REYNOLDS, E. R., Label Fastening and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.		10-8-54	12-8-53
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g., X-Ray, Ultraviolet, Radioactive) Applications.		8-11-54	12-18-53
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.		5-28-54	12-30-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.		11-1-54	3-2-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.		1-14-55	5-4-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.		9-15-54	10-1-53
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.		12-2-54	2-9-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.		12-1-54	5-27-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Gums and Projectors; Illumination.		10-12-54	3-1-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g., Fat and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g., Pigments, Fillers, Driers, and Organic Compositions.		8-30-54	8-11-53
64. (I) OORECKI, G. A., Fuels; Miscellaneous Compositions.		9-10-54	11-19-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.		8-5-54	12-28-53
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.		10-4-54	3-29-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.		8-26-54	10-23-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g., Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.		6-9-54	8-18-53
DESIGNS: [A—BREHM, O. L., Industrial Arts.		10-8-54	10-26-54
[B—GRAY, M. A., Household, Personal and Fine Arts.		10-25-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during July 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents..... Numbers 2,122,394 to 2,125,262, inclusive  
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## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

OLOF ET AL. v. TOMLINSON ET AL.

No. 6066. Decided March 30, 1955

[— F.2d —; — USPQ —]

#### 1. REDUCTION TO PRACTICE—FOREIGN APPLICATION—COUNT AS MEASURE OF PARTICULARITY OF REQUIRED DISCLOSURE.

Where appellants rely on the filing date of a Swedish application as a constructive reduction to practice of a count, Held that a finding of support in the Swedish application for the general terms of the count is all that is necessary to entitle appellants to rely thereon since, presumably, the Examiner not only found that the generalized statements of the count defined an invention, but also that the broad terminology used was sufficiently definite to meet the statutory provisions for distinctness and particularity required in claims.

#### 2. INTERFERENCES—PRIORITY OF INVENTION—REGENERATING BLACK LIQUOR.

The decision of the Board of Interference Examiners awarding priority of invention of a certain count to a method of regenerating black liquor to appellees is reversed.

APPEAL from the Patent Office. Interference No. 85,238.

#### REVERSED AND REMANDED.

Dr. Henry C. Parker for Olof, et al.

Joseph P. Moran for Tomlinson, et al.

Before O'CONNELL, Acting Chief Judge, JOHNSON, WORLEY, and COLE, Associate Judges

WORLEY, J., delivered the opinion of the court.

This is an appeal from a decision of the Board of Patent Interferences of the United States Patent Office awarding to appellees priority of invention of the subject matter embraced in a count which reads as follows:

The process of regenerating black liquor in the sulfate pulp process, which comprises subjecting the liquor as it comes from the cooking step and before any substantial evaporation thereof to a separate oxidizing step wherein it is intimately contacted with air at an elevated temperature below the boiling point of the liquor, said liquor being subjected to said oxidizing treatment without any substantial evaporation until substantially all of the sulfur present becomes fixed in the liquor without substantial loss of hydrogen sulfide, terminating said treatment before the occurrence of any substantial oxidation of the organic compounds present in said liquor, whereby loss of sulfur compounds during the evaporating step are substantially eliminated.

Involved are an application of appellants, Serial No. 9,027, filed February 17, 1948, for "Process of Treating Waste Sulfate Liquor," and an application of appellees, Serial No. 640,360, filed January 10, 1948, for "Chemical and Heat Recovery System." Two counts were originally involved. During the proceedings below, appellants, being the junior party, conceded to appellees priority of invention of the more specific of the two counts, i. e., count 1, and at the same time moved to shift the burden of proof as to count 2, claiming benefits under section 1 of the Boykin Act (Public Law 690, 79th Cong., 35 U. S. C. 101) in respect to two Swedish applications, No. 4623/1939, filed August 28, 1939, and No. 3328/1941, filed June 13, 1941, which applications matured respectively as patents, No. 120,988, dated February 24, 1948, and No. 128,263, dated May 16, 1950.

In denying the motion to shift the burden of proof, the Examiner held that appellants are not entitled to the filing dates of the Swedish applications as a con-

structive reduction to practice, stating his reasons as follows:

"... The disclosures of these patents are merely generalized statements which require interpretation and limitation by inference to comply even with the broadly worded steps of the claim. For instance, the patents state that 'oxidation which has been carried too far will directly influence upon the organic substances,' and it is necessary to infer that this amounts to a disclosure of the step of 'terminating said treatment before the occurrence of any substantial oxidation of the organic compounds present.' No specific conditions of temperatures, concentrations, length of time of the oxidation, or other pertinent disclosure which might be taken as complying with the requirement of the inclusion of sufficient specific directions to enable the invention to be carried out without undue experimentation in applications filed in this country are present. The specific disclosure of the Bergstrom and Trobeck application here involved is not present in the Swedish patents. Their application is therefore not entitled to the filing date of the noted Swedish patents under Public Law 690.

The Board of Patent Interferences held that the Examiner properly denied appellants' motion. In awarding priority of invention of the count to appellees, the Board applied the reasoning of this court in the case of *In re Smyth*, 38 CCPA (Patents) 1130, 189 F.2d 982, 90 USPQ 106. There we held that the applicant for a patent could not rely upon his meager and incomplete British provisional specification for the purpose of overcoming the date of a reference, because the specification did not describe the claimed invention in a manner conforming to the requirements of R. S. 4888<sup>1</sup>, i. e., that it be sufficient to enable one skilled in the art to understand the construction and mode of operation.

In the present case appellants are claiming the filing dates of their Swedish applications for a constructive reduction to practice, and that involves a determination of whether the subject matter of the count is adequately disclosed therein.

In addressing ourselves to that issue, it is evident from the record that the Examiner's decision, approved by the Board, is based upon his opinion that "the Swedish patent \* \* \* is an insufficient disclosure of the contended invention and fails to support the count," and that such conclusion was reached because "The disclosures of these patents are merely generalized statements \* \* \*." The record also shows that in questioning the sufficiency of the foreign disclosures, the Examiner discussed specifically only that step of the count involving the "terminating" of the oxidation treatment. In the light of the record before us, we must assume that the tribunals below found in the Swedish patents adequate basis for the other limitations of the count.

[1] We note that the count sets forth the process in unusually broad and general terms, and that, presumably, the Examiner not only found that those generalized statements defined an invention, but also that the broad terminology used was sufficiently definite to

<sup>1</sup> R. S. 4888, 35 U. S. C., 1946 ed., sec. 33; now revised in pertinent parts as 35 U. S. C., 1952 ed., sec. 112, which reads as follows:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor for carrying out his invention.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

meet the statutory provisions for distinctness and particularity required in claims. Under those circumstances we must apply the general rule that where the count is expressed in such broad terms that one skilled in the art could work it without difficulty, a finding of support in the Swedish application for the general terms of the count is all that is necessary to entitle appellants to rely thereon for a constructive reduction to practice. *Dreyfus v. Lilienfeld*, 18 CCPA (Patents) 1521, 49 F.2d 1065, 9 USPQ 507; *Goldsmith v. Mihaly*, 24 CCPA (Patents) 1239, 90 F.2d 359, 33 USPQ 584; *Harnsberger v. Youker*, 27 CCPA (Patents) 923, 109 F.2d 806, 44 USPQ 534; and *Abbott v. Shepherd*, 77 App. D. C. 101.

Appellants have set forth in their brief in parallel columns the language of the count and the disclosures of the two Swedish applications which they urge adequately support the limitation of the count. For convenience, we reproduce below the portion of the count around which the controversy revolves, and the disclosure of one of the applications, as translated (4623/1939), relied upon:

#### Interference Count

said liquor being subjected to said oxidizing treatment without any substantial evaporation until substantially all of the sulfur becomes fixed in the liquor without substantial loss of hydrogen sulfide,

terminating said treatment before the occurrence of any substantial oxidation of the organic compounds present in said liquor, and then evaporating the thus oxidized liquor, whereby loss of sulfur compounds during the evaporating step are substantially eliminated.

#### Application No. 4623/1939

If the black liquor is subjected to an oxidation, e. g. by means of air, prior to the evaporation S is fixed in the liquor and losses of S do not, or to a comparatively insignificant degree, occur during the evaporation.

The oxidation may take place at different temperatures. \* \* \* This must, however, not be carried too far. It has namely been demonstrated that an oxidation which has been carried too far will directly influence upon the organic substance.

By this oxidizing treatment of the liquor are as technical effects gained \* \* \* that the heating value of the black liquor is not decreased \* \* \*.

We are impressed by two statements in the Swedish

application. First, that which teaches that the oxidation must not be carried too far; and second, that it has been demonstrated that if carried too far, there will be a direct influence upon the organic substances of the black liquor. We do not find in the decision of the Examiner any indication that sufficient consideration was accorded the first statement in reaching the conclusion that the second statement was inadequate to support the step of terminating the oxidation treatment as defined in the count. In our view, however, the specific warning not to carry the oxidation too far is an important and significant part of the disclosure. It definitely teaches the worker in the art to terminate the oxidation at some time or point and delineates that point by stating that an oxidation has been carried too far when the organic substances have been affected. Having warned the skilled worker against too much or too prolonged an oxidation treatment, and having pointed out how to determine when the treatment has gone too far, it is of no legal significance that the Swedish application does not define the termination point in the same broad language of the count, i. e., "before the occurrence of any substantial oxidation of the organic compounds present in said liquor." The concept or idea conveyed by the disclosure of the Swedish application is substantially the same as that of the count. Accordingly, we are constrained to disagree with the tribunals below.

In our opinion, the essence of the broad invention in controversy is sufficiently disclosed in the Swedish application to conclude that the filing abroad constitutes a constructive reduction to practice of the process of the count, and that the motion to shift the burden of proof should have been granted.

[2] For the reasons stated, the decision of the Board of Patent Interferences is reversed.

#### REVERSED.

On account of illness, GARRETT, Chief Judge, did not participate in the hearing or decision of this case.

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,840,573. (See 2,040,947.)

1,893,135. (See 2,040,947.)

1,984,657, A. Rosenthal, Apparatus for cutting and folding labels; 2,204,189, same, Apparatus for cutting, folding, and creasing labels; 2,214,478, same, Label cutting and packing machine, filed June 9, 1952, D. C., S. D. N. Y., Doc. 76/167, *Rose Patch & Label Corp. v. Jackmeyer Label Corp. et al.* Consent Judgment; defendants enjoined May 23, 1955.

2,040,947, O. W. Mojonnier et al., Heat exchanger; 2,129,473, same, Heat exchange element; 2,147,912, H. G. Mojonnier, Heat exchange system; 2,169,054, J. J. Mojonnier, Liquid treating apparatus; 2,179,949, H. G. Mojonnier, Liquid treating plant; 2,211,514, B. G. Newhall, Heat exchanger; 2,249,846, G. Mojonnier, Distributor for heat exchangers; 2,425,826, W. Radtke, Heat exchanger; Re. 21,270 (of 1,840,573), 2,057,298, H. Feldmeier, Heat exchange device; 1,893,135, H. Feldmeier et al., same; 2,190,584, Feldmeier and Astle, same, filed Jan. —, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c108, *Cherry-Burrell Corp. v. Mojonnier Bros. Co.* Stipulation and order dismissing cause May 25, 1955.

2,057,298. (See 2,040,947.)

2,069,280, K. R. Schuster, Composite structural steel and reinforced concrete construction, filed May 19, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18200-C, *Karl R. Schuster v. General Telephone Co. of California et al.*

2,129,473. (See 2,040,947.)

2,147,912. (See 2,040,947.)

2,169,054. (See 2,040,947.)

2,170,728, C. D. Montague, Automatic draft regulator, filed May 20, 1955, D. C., W. D. Wash. (Seattle), Doc. 3947, *Automatic Draft and Store Co. Inc. et al. v. Coselman Distributors et al.*

2,179,949. (See 2,040,947.)

2,190,584. (See 2,040,947.)

2,204,189. (See 1,984,657.)

2,211,514. (See 2,040,947.)

2,214,478. (See 1,984,657.)

2,249,846. (See 2,040,947.)

2,292,416, N. E. Walker, Controlled captive type toy airplane; 2,406,874, same, Retractable control element for toy airplanes; TM 391,900 (U-Control), American Junior Aircraft Co., Toy airplanes and controls therefor, filed Sept. 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15889-C, *American Junior Aircraft Co. v. L. M. Cox Mfg. Co., Inc. et al.* Complaint dismissed with prejudice; Patent No. 2,292,416 and claims 2, 3, 4, 5, 6, 7, 8, 9, 12, and 13 held invalid, but if valid held infringed by defendants; Patent No. 2,406,874 and claims 1, 2, 5, and 6 held valid but not infringed (notice May 17, 1955).



2,347,908, R. G. Hoffert, Wire stitching machine, filed Mar. 24, 1955, D. C., E. D. Ill. (East St. Louis), Doc. 3149, *Acme Steel Co. v. Diagraph Bradley Industries, Inc.* Injunction granted for plaintiff May 27, 1955.

2,396,005, Gross and Cornwall, Sealing device, filed May 26, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18237-HW, *Rohr Aircraft Corp. et al. v. Rubber Teck, Inc. et al.*

2,406,874. (See 2,292,416.)

2,412,506, O. W. Greene et al., Means for blending fibers, filed Dec. 19, 1952, D. C., W. D. N. C. (Asheville), Doc. 1272, *Marion Textile Specialty Co. et al. v. Gastonia Textile Machinery Co. et al.* Judgment of dismissal favor defendants Mar. 28, 1955. Same, appeal filed May 9, 1955, C. C. A., 4th Cir., Doc. 7017, *W. D. Dodenhoff Co., Inc. v. Gastonia Textile Machinery Co. et al.*

2,425,826. (See 2,040,947.)

2,478,340, J. A. Talalay, Apparel pad and method of making the same, filed Dec. 28, 1949, D. C., S. D. N. Y., Doc. 54/353, *Perma Fit Shoulder Pad Co., Inc. v. Best Made Shoulder Pad Corp. et al.* Interlocutory decree; patent held valid and infringed; injunction issued; counterclaim dismissed Dec. 1, 1953. Same, appeal filed Mar. 3, 1954, C. C. A., 2nd Cir., Doc. 23016, *Perma Fit Shoulder Pad Co., Inc. v. Best Made Shoulder Pad Corp. et al.* Judgment of Dec. 1, 1953, of District Court, reversed Jan. 20, 1955.

2,529,049, S. H. Ross, Method of magnetizing permanent magnet rotors, filed May 26, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15568, *Eastern Air Devices, Inc. v. Induction Motors Corp.*

2,577,710, E. G. McDonough, Permanent waving compositions and methods, filed Mar. 25, 1954, D. C., S. D. N. Y., Doc. 92/96, *Warner-Hudnut, Inc. et al. v. Sales Affiliates, Inc.* Stipulation and order of dismissal (notice May 25, 1955).

2,630,570, H. M. Herbener, Girdle, filed May 25, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c765, *The Warner Brothers Co. v. The Formfit Co., Inc.*

2,667,319, B. C. Colt, Jr., Combined crate and pallet structure, filed Apr. 8, 1954, D. C., E. D. Mich. (Detroit), Doc. 13383, *Trif-State Engineering Co. v. Springport Steel Products Co. et al.* Consent judgment for plaintiff May 20, 1955.

2,694,656, M. Camras, Magnetic impulse record member, magnetic material and method of making magnetic material, filed May 27, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c781, *Armour Research Foundation of Ill. Institute of Technology v. Technical Tape of Ill., Inc. et al.* Same, D. C., E. D. Ill. (East St. Louis), Doc. 3200, *Armour Research Foundation of Ill. Institute of Technology v. C. K. Williams & Co., Inc.*

2,704,211, C. Decepoli, Shuffleboard weight, filed May 19, 1955, D. C. N. J. (Newark), Doc. 473/55, *Carminc Decepoli v. American Shuffleboard Co.*

Re. 21,270. (See 2,040,947.)

Des. 164,005, J. A. Lacek, Slipper or similar article, filed Oct. 17, 1952, D. C., S. D. N. Y., Doc. 79/265, *Daniel Green Co. v. Honeybugs, Inc. et al.* Stipulation and order of discontinuance May 26, 1955.

Des. 174,054, M. F. Peck, Pantie girdle, suit for Declaratory Judgment filed May 23, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c760, *Willoform Mfg. Co., Inc. v. H. W. Gossard Co.*

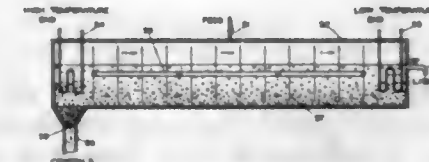
Des. 174,497, Gindl and Ashkenazie, Towel package, filed May 26, 1955, D. C., S. D. N. Y., Doc. 101/26, *General Sales Co. v. Franco Mfg. Co.*

## REISSUES

JULY 19, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

**24,038**  
**CONTINUOUS FRACTIONAL CRYSTALLIZATION PROCESS**  
Philip M. Arnold, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Original No. 2,540,977, dated February 6, 1951, Serial No. 571,073, January 2, 1945. Application for reissue January 26, 1953, Serial No. 333,398  
17 Claims. (Cl. 260—666)

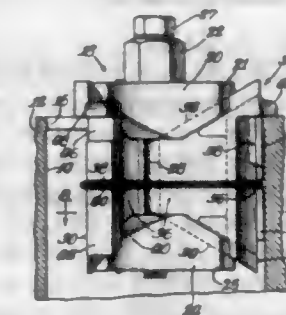


1. A continuous process for the separation of cyclohexane from an isoheptane fraction containing the same, which comprises continuously passing a liquid mixture including isoheptanes and cyclohexane from a zone of relatively high temperature to a zone of relatively low temperature in an extended separation and purification zone under conditions such that said liquid mixture gradually decreases in temperature; maintaining by indirect heat-exchange a temperature in said zone of relatively high temperature just above the melting point of pure crystals of cyclohexane; maintaining by indirect heat-exchange said zone of relatively low temperature below the solidification point of crystals containing cyclohexane and isoheptane but above the temperature at which the entire mixture solidifies so as to form multicomponent crystals therein; continuously mechanically passing said crystals toward said zone of relatively high temperature so as to gradually increase their temperature and decrease the concentration of isoheptanes therein and finally completely melting the crystals of cyclohexane; continuously passing a portion of the melted cyclohexane toward said low temperature zone as reflux; continuously introducing said isoheptane fraction as a feed into said liquid mixture at a point intermediate said zones so as to provide an essentially crystallization zone between said point and said low temperature zone and an essentially purification zone between said point and said high temperature zone; and continuously recovering liquid cyclohexane from said zone of relatively high temperature and liquid rich in said isoheptanes and lean in cyclohexane from said zone of relatively low temperature.

**24,039**  
**RIDGE REAMER**  
Henry Robert Billeter, Deerfield, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois  
Original No. 2,638,799, dated May 19, 1953, Serial No. 185,396, September 18, 1950. Application for reissue August 25, 1954, Serial No. 452,234  
8 Claims. (Cl. 77—2)

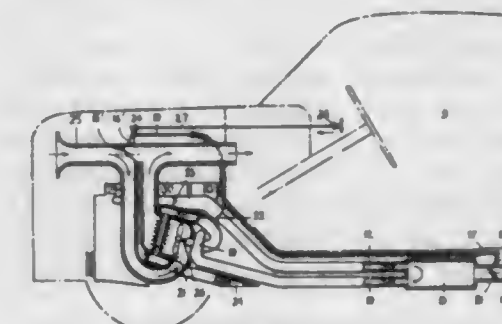
1. A rotatable cylinder ridge reamer comprising top and bottom end members movable toward and from each other to expand and contract the reamer, respectively, opposing faces of each of said end members having a plurality of grooves extending tangentially to a base circle concentric with the axis of rotation of the reamer, means for moving said end members toward each

other to expand the reamer including a member disposed on the axis of the reamer within the confines of said base circle and threadedly engaged with one of said end members and slidable through the other, guide members disposed between and guidingly supported by said end members, each said guide member having a body element and a head element with the top and bottom edges of said body element converging inwardly away from said head element and slidably mounted in said end member grooves for slide movement inwardly and outwardly past the axis of the reamer, each said head ele-



ment extending circumferentially from the outer edge of its respective body element to such an extent that it moves in a radial plane through said axis as said body element is moved inwardly and outwardly of said end member grooves, means for supporting the ridge reamer as a whole for rotation in a cylinder to be reamed, a reamer blade assembly carried by one of said head elements and adapted to engage the cylinder ridge to be reamed, and means yieldably retaining said guide members in said end member grooves and constantly urging said guide members inwardly.

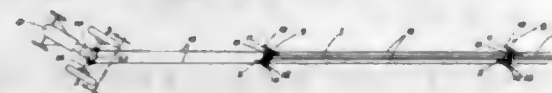
**24,040**  
**EXPANSION COOLING**  
Jules Haltenberger, Rancho Santa Fe, Calif.  
Original No. 2,670,613, dated March 2, 1954, Serial No. 305,451, August 20, 1952. Application for reissue October 28, 1954, Serial No. 465,767  
7 Claims. (Cl. 62—136)



1. In a motor vehicle having a body and a motivating internal combustion engine, a body interior cooler, comprising an engine created source of compressed exhaust gas, an expansion turbine driven by the gas, a turbine work dissipating and gas heat extracting fan integral with said turbine, and ambient air heat exchanger means to cool the interior of said body.



24,041

**PORTABLE IRRIGATION SYSTEM**August I. Hondeville, Merced, Calif., assignor to  
Walter A. Hondeville, Merced, Calif.Original No. 2,678,844, dated May 18, 1954, Serial No.  
266,265, January 14, 1952. Application for reissue  
April 29, 1955, Serial No. 505,079  
6 Claims. (Cl. 299—47)

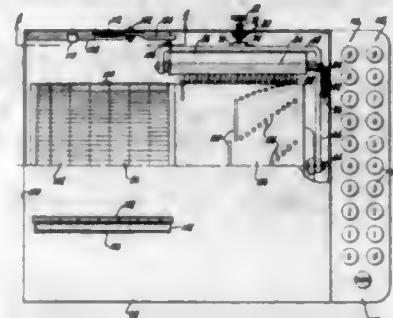
6. In a portable irrigation system which includes a substantially rigid non-deflectible sprinkler-supporting pipe line, sleds under the pipe line spaced apart at intervals in the length thereof, means pivotally connecting each sled to the adjacent portion of the pipe line for rotation about a vertical axis, a pair of longitudinal transversely spaced cables extending from end to end of the system with the pipe line between said cables, and means securing the cables to each sled on opposite sides of the axis of rotation thereof.

24,042

**CHANGEABLE EXHIBITORS**Eugene E. Reynolds, Richmond, Calif., assignor to Mar-  
chant Calculators, Inc., a corporation of California  
Original No. 2,666,911, dated January 19, 1954, Serial  
No. 1,769, January 12, 1948. Application for reissue  
January 21, 1954, Serial No. 405,385  
9 Claims. (Cl. 340—318)

12. In a data locating system having, a movable member adapted to store changeable representations of data

at predetermined positions thereon, means for selectively storing representations of the data at one or more of said positions, means for moving said member, and means for receiving representations of said positions; the combination of, means for entering into the receiving means a representation of a selected one of said positions, locating means operable in timed relation to the movement of said member for sequentially establishing representations of said positions, a series of regularly spaced indicia on said member, means for sequentially sensing said



indicia, correlating means operable under the joint control of the location means, the receiving means, and the sensing means, in response to each sensing of said indicia by said sensing means, to test for a coincidence between the position representation established by said locating means and the position representation entered into said receiving means; and manifesting means coupled with said correlating means and operable in response to coincidence detection which is sensed by the correlating means for producing a manifestation of the data stored at said selected position.

**PLANT PATENTS**

GRANTED JULY 19, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,406

**PEACH TREE**

Frank R. Coddington, Partier, Calif.

Application January 28, 1954, Serial No. 406,909

1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, substantially as shown and described, characterized by marked similarity to the Burbank July Alberta of Plant Patent No. 15

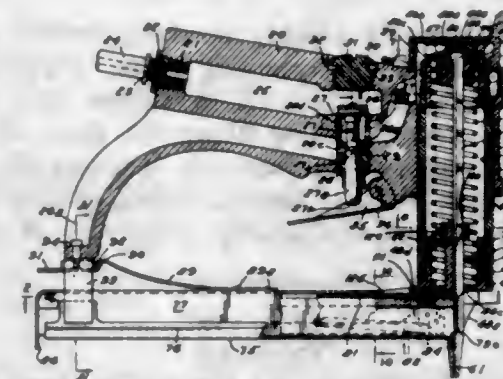
of which it is a bud sport and from which it is distinguished by its blossoming a few dayes later, with bloom generally similar in appearance but of more pink coloration, its ripening approximately one week earlier, and its comparatively dense foliage, the leaves occasionally occurring in pairs and triads and the leaf buds being relatively closely spaced.

**PATENTS**

GRANTED JULY 19, 1955

**GENERAL AND MECHANICAL**

2,713,165

**AIR GUN FOR DRIVING STAPLES OR OTHER FASTENING DEVICES**Lee R. Campbell, Royal Oak, Frank E. Ebert and Alton  
Lee Schoening, Detroit, and Le Roy C. Reiterman,  
Warren, Mich.Application August 24, 1951, Serial No. 246,491  
11 Claims. (Cl. 1—44.4)

1. In an air gun for driving fastening devices such as staples, tacks, brads or the like, an air cylinder, valve means for admitting air from a source of air under pressure to said cylinder, a piston slidably mounted in said cylinder, a driver in contacting engagement with said piston for engaging the fastening devices to be driven, a nose piece in which said driver is slidably mounted, and resilient shock absorbing means interposed between said nose piece and said piston for contacting shock absorbing engagement with said nose piece when said piston reaches the end of its driving stroke.

2,713,166

**METHOD OF VARYING THE EFFECTIVE FORCE ON A DRIVEN FASTENER BY A POWDER CHARGE OF CONSTANT MAGNITUDE**Virginus R. Erickson and Benjamin B. Bullwinkle, Port-  
land, Oreg., assignors to Powder-Power Tool Corp.,  
Portland, Oreg., a corporation of OregonOriginal application December 29, 1949, Serial No.  
135,744. Divided and this application April 30, 1954,  
Serial No. 426,788

2 Claims. (Cl. 1—60)



1. The method of installing successive studs in surfaces by subjecting each stud to an explosive driving force in a stud driving tool having a barrel provided with a breech end and a muzzle end, which comprises providing a member adapted to be inserted in said barrel and having a plurality of means to enable location of a stud in said barrel at any one of a plurality of distances from the breech end of the barrel, inserting each stud through the breech end of the barrel to be wholly enclosed within the bore of the barrel and fixing the distance at which the inserted stud is to be positioned from said breech end by insertion of said member in said barrel and pushing the stud to a selected position in said barrel as determined by selecting one of said means, and installing for each stud a cartridge containing an explosive charge of constant magnitude at said breech end, the selected location of the inserted stud in said barrel with respect to said cartridge fixing the size

006 O. G.—21

2,713,167

**COLD WEATHER CLOTHING**Wilbur Elliott Cowie, Ottawa, Ontario, and Arthur Eugene  
Blouin, Crystal Bay, Ontario, Canada, assignors to Her  
Majesty the Queen in the right of Canada as represented  
by the Minister of National Defence, Ottawa, Ontario,  
CanadaOriginal application May 25, 1950, Serial No. 164,086,  
now Patent No. 2,656,586, dated October 27, 1953.  
Divided and this application October 19, 1953, Serial  
No. 386,927Claims priority, application Canada May 28, 1949  
3 Claims. (Cl. 2—2)

1. Flexible, lightweight body clothing for wear in the polar regions comprising, an inner loosefitting garment adapted to be worn adjacent the skin, and an outer similar garment of a size larger than said inner garment so as to provide a loose fit when worn over the inner garment, each of said garments being comprised of a flexible ground cloth of interlaced yarns and a pile surface having substantially smooth-surfaced artificial filaments anchored in interlaced relationship thereto, said filaments having a denier per filament within the range of about 10 to 75 and being flexible at and retaining their strength at the sub-zero temperatures obtaining under polar conditions, and having a tensile strength per filament greater than about 1.36 gms. per denier and exhibiting low moisture absorption at high relative humidities, said pile fabric having a structure modified from the original to provide pores to give to the fabric a low transmission rate less than substantially 10 cubic feet per square foot per minute at 1/2 inch water pressure differential, said inner garment having the pile surface on the body side and said outer garment having the pile surface on the outside.

2,713,168

**VENTILATED GARMENTS**

Vito Bagnato, Woodside, N. Y.

Application November 12, 1952, Serial No. 319,849

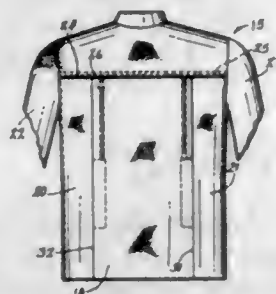
1 Claim. (Cl. 2—93)

In a ventilated garment, a unitary piece of material comprising a combined back and side panel, a pleat fold on each side of the back portion of the panel, each pleat fold having an inner bend and an outer bend, a connecting portion for said bends, each pleat fold having a slit

283

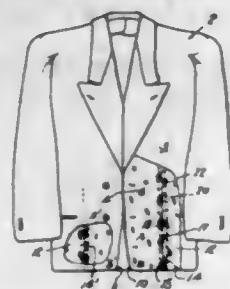


opening adjacent the inner bend, and a slide fastener secured between the inner bend and the adjacent connect-



ing portion, the fold of a pleat being stitched down at the opposite ends of the slit opening to conceal it and the slide fastener for closing same.

**2,713,169**  
**LINING FOR A COAT**  
Sylvester La Fata, Bellevue, Ky.  
Application October 29, 1952, Serial No. 317,419  
1 Claim. (Cl. 2—97)



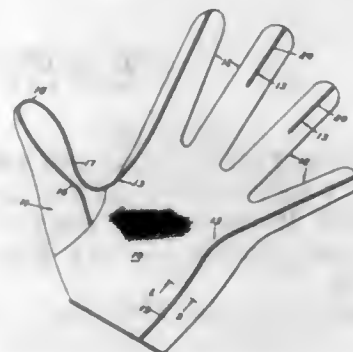
A coat having abdominal covering portions loosely embracing the body, said coat having left and right front panels with a vertically extending front opening, the central edges of the front panels being adapted to overlap and be secured together, a lining for each of said left and right front panels, each lining having a vertically extending dart extending upwardly from the bottom edge thereof and over the abdominal covering portions of the coat, said darts being centrally located in each lining, the exterior material of the panels being otherwise substantially straight and flat, the various widths of the lining being less than the corresponding widths of the exterior material by an amount substantially equal to the widths of the darts at any given region, whereby said linings bow slightly from the flat planes thereof.

**2,713,170**  
**FORM FOR MAKING AND MAINTAINING A KNOT IN NECKTIES**  
Elton E. Block, Portland, Oreg.  
Application July 1, 1952, Serial No. 296,641  
3 Claims. (Cl. 2—153)



1. A tie form for a four-in-hand type of tie comprising: a body member generally of triangular outline with the base uppermost and equal length sides extending convergently downwardly therefrom, said member being of sheet material curved in horizontal cross sectional contour and formed with a horizontally extending recess at its lower end open for insertion of a portion of said tie therein, said recess being substantially at the point of intersection of downwardly convergent lines coincidental with said sides.

**2,713,171**  
**GLOVE CONSTRUCTION**  
Mary L. Talbot, Hamtramck, Mich.  
Application June 29, 1953, Serial No. 364,529  
12 Claims. (Cl. 2—159)



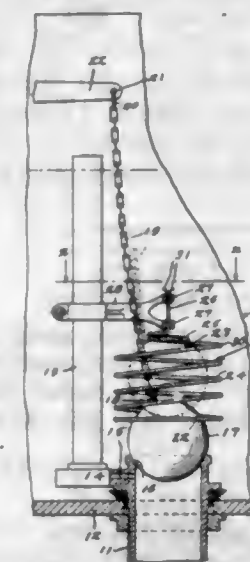
1. A glove having a palm receiving portion and having finger and thumb receiving parts, gripping means associated with the front of the glove and including a length of cord extending along the front of at least one of said parts, and means for fastening the cord in place including stitching having strands extending across the cord in spaced relationship lengthwise of the cord.

**2,713,172**  
**GLOVES**  
Adolfo Haschel and Samuel Jacobson,  
Buenos Aires, Argentina  
Application September 14, 1954, Serial No. 455,914  
1 Claim. (Cl. 2—169)



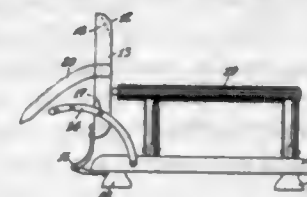
A two-piece glove comprising a palm piece and a back piece, said palm piece having a palm portion for covering the palm of a hand of the wearer, an inner wrist portion at one end of said palm portion for covering one part of an inside portion of a wrist, four tongues at the other end of said palm portion for covering the inner sides of four fingers, and a fifth tongue extending from an intermediate end of said palm portion for covering the inner side of a thumb, one side of said wrist portion terminating inwardly of the thumb side of said palm piece, thereby leaving a cut-out area in a longitudinal alignment with said fifth tongue, said back piece having a main portion to cover the back of a hand, an outer wrist portion at one end of said main portion for covering an outside portion of a wrist, four tongues at the other end of said main portion for covering the outer sides of four fingers, a fifth tongue alongside said main portion for covering the outer side of a thumb, and a supplemental wrist portion adjoining said latter fifth tongue and said outer wrist portion and adapted to close said cut-out area, and further adapted, with said inner wrist portion, to completely cover an inside portion of a wrist, the two said pieces being marginally joined to form coverage for a hand, including its fingers and a wrist; all said finger tongues being tapered to afford a good fit upon fingers and said palm and back portions being tapered from the parts thereof adjoining the finger tongues to a reduced width at said wrist portions to provide increased inside space for the base, finger knuckles of a hand and reduced inside space for a wrist.

**2,713,173**  
**FLUSH VALVE**  
Walter O. Runcie, Lima, Peru  
Application March 31, 1953, Serial No. 345,812  
2 Claims. (Cl. 4—57)



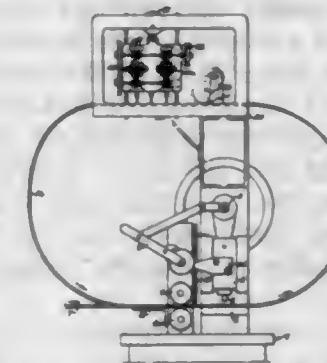
1. In a flush tank having a lower outlet formed with a valve seat and an overflow pipe, a horizontal arm projecting from said pipe, tubular guide sleeves carried by the outer end of said arm coaxial with said valve seat, a helical wire cage concentric to said valve seat, a small diameter ring of said helical wire cage and integral with the upper end of said cage and disposed concentric relative thereto, an upwardly projecting stem extending coaxially from said ring and engaging in said guide sleeves, said stem being lengthwise split at the upper end thereof, the split end of said stem being bent laterally in opposite directions to hold said stem against downward movement, a spherical valve plug loosely disposed in said cage, and a flexible member secured at one end to said valve plug and adapted for attachment at the opposite end thereof to a lift lever, said flexible member projecting upwardly through the space between said annulus and the upper end of said cage.

**2,713,174**  
**BATHING FACILITIES**  
Murray Merlin and Sylvia Miller, Liberty, N. Y.  
Application October 4, 1951, Serial No. 249,704  
1 Claim. (Cl. 4—185)



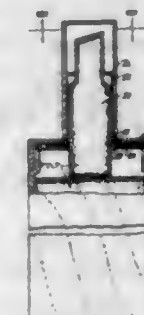
A device of the class described comprising, in combination, a horse-shoe shaped seat, a pair of frame members hingedly connected to the base of the latter, and a concave back rest supported by said frame members, curved members secured to the sides of the base, the latter being formed with a convex rear portion, the width of the back rest being equal to the width of said base, said curved members engaging the frame members, whereby to permit adjustment of said back rest rearwardly up to 45 degrees and forwardly to a vertical position, tubular arms hingedly joined to the frame at the front and back of the base, said arms being formed with apertures therein and adapted to be connected to a source of water supply, whereby to diffuse a spray of water over a person bathing, said arms fold inwardly, whereby to permit a folding of said arms and the back rest upon the seat, and a strap secured to one of the frame members at a height to engage the arm pits of a person bathing.

**2,713,175**  
**APPARATUS FOR MAKING NUTS FROM STRIP MATERIAL**  
Victor Hill Fray, Auckland, Auckland, New Zealand  
Application May 10, 1951, Serial No. 225,611  
Claims priority, application New Zealand  
November 21, 1950  
5 Claims. (Cl. 10—72)



1. Apparatus for forming nuts for bolts out of strip material, comprising a first station having means to punch single holes in said strip material at uniform intervals apart, a second station having means to tap said punched holes, said second station being spaced from said first station with a slack in the strip material therebetween, and a third station having means to punch nuts from said strip material, said third station being spaced from said second station with a slack in the strip material therebetween, said first and third stations being adjacent one another and operated simultaneously, said second station being in a plane spaced from said first and third stations and operating relatedly therewith, the slack between said stations being in the form of two 180° degree loops whereby a 360° loop is formed in said strip material when extending through said stations, the means at said second station operating at a fraction of the speed of said first and third stations and being adapted to tap a plurality of holes simultaneously, whereby the effective speed of said strip material through said apparatus is equal to the punching speed of said first and third stations due to the tapping process at said second station being performed on more than one hole at a time, the slack between said stations increasing and diminishing cyclicly in order to allow said operations of different duration.

**2,713,176**  
**MARKING DEVICE**  
Sidney N. Rosenthal, Richmond Hill, N. Y.  
Application April 22, 1953, Serial No. 350,459  
1 Claim. (Cl. 15—134)

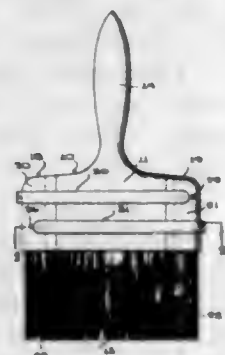


A combined pen and ink bottle comprising an elongated open top glass ink bottle whose ratio of length to diameter is very large and which is formed with a screw threaded neck, a felt pack therein, and a subassembly cap and nib unit comprising a flat centrally apertured annular flanged cap threaded on said neck, a centrally apertured gasket in said cap, a tubular cylindrical sheet metal nib holder disposed in the central aperture of said cap and being of considerably less diameter than said cap, said holder having at its lower end an outward flange disposed under said cap between it and said gasket,



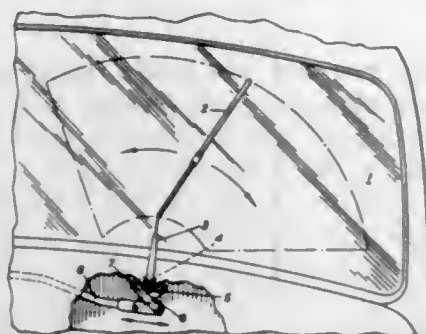
the outer peripheral edge of said outward flange being a substantial distance from the wall of the neck of the bottle, a felt nib firmly seated in said holder and projecting above it and below the gasket and cap and projecting through their central apertures, said felt pack in said bottle being in constant contact with the lower end of the nib projecting below the nib holder, the top edge of the bottle neck being firmly in contact with said gasket and thus sealed thereby and also pressing the gasket edge around the central hole therein firmly against the lower outward flange of said holder and thus pressing said lower outward flange of said holder firmly against the cap edge around the central hole therein whereby the nib holder and nib are firmly secured with respect to said bottle with two separate seals, one provided by the gasket between bottle neck and cap and the other provided by the gasket pressing the holder flange against the cap.

**2,713,177**  
**PAINT BRUSH EXTENSION**  
Francis J. Pisapia, Hartford, Conn.  
Application April 25, 1952, Serial No. 284,316  
3 Claims. (Cl. 15—202)



1. In combination with a paint brush having side edges convexly curved transversely thereof, an extension assembly comprising extension members disposed one at each side of said brush and each including a solid body portion having one side edge concavely curved transversely thereof and receiving a corresponding side edge of said brush and bristles extending from one end thereof along the bristles of said brush, each of said body portions having holes in the opposite faces thereof and U-shaped clamps extending one around each extension member body portion and extending across the opposite faces of said brush, each of said clamps having pins projecting inwardly from the legs thereof adjacent the open end thereof and received in holes in the extension member remote from the extension member which the corresponding clamp extends around to firmly secure said extension members to said brush.

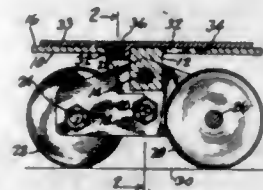
**2,713,178**  
**WINDSCREEN WIPERS**  
Harry R. Stocks, Luton, England, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application September 7, 1949, Serial No. 114,296  
3 Claims. (Cl. 15—253)



1. Windscreen wiper actuating mechanism including in combination, a driving element movable to and fro be-

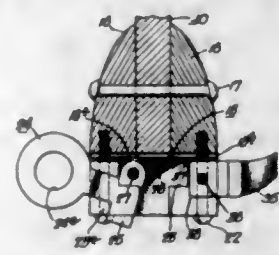
tween predetermined limit positions, an oscillatable shaft for driving a windscreen wiper, a member secured to said shaft, and a pair of angularly related links, each link being pivoted at spaced points on the link to said driving element and to said member, said pivot points on said driving element for said pair of links being spaced apart, said pivot points on said member for said pair of links being spaced apart and located on opposite sides of said shaft, and said links connecting said driving element to said member for imparting oscillation to said member and shaft upon to and fro movement of said member.

**2,713,179**  
**DOLLY CASTER**  
Chester C. Clifton, Denver, Colo., assignor to The Acorn Company, Denver, Colo., a corporation of Colorado  
Application May 8, 1953, Serial No. 353,735  
2 Claims. (Cl. 16—47)



1. A heavy duty steerable dolly caster comprising, a body plate of extended upper surface area, having at least two spaced downwardly projecting lugs having aligned openings for the reception of a hinge bolt, elongated metal side plates having three holes arranged so that lines joining their centers form an isosceles triangle, the hole at the vertex of the triangle receiving the hinge bolt, the holes at the corresponding ends of the base of the triangle forming two pairs one in front and the other to the rear of the hinge bolt, each pair forming supports for an axle bolt, at least one caster wheel rotatably mounted on each axle bolt, the side plates each having a fourth hole positioned substantially midway between the holes at the ends of the triangle base, a tubular spacer sleeve positioned between the side plates and, a bolt passing through said fourth pair of holes and the corresponding spacer sleeve forming means for holding the side plates in fixed spaced relation, forming a truck having two wheels in tandem, and rockable about the hinge bolt, the body plate having a substantially flat upper surface extending to both sides of the hinge bolt to points adjacent vertical planes passing through the axle bolts, and a steering plate of substantially the same size as the body plate resting on the upper surface thereof with its entire under surface in contact therewith, whereby a load resting on the steering plate will be distributed on both sides of the pivot bolt, the steering plate having a pivot on its under surface and the body plate having an opening positioned in front of the pivot bolt for the reception of said pivot.

**2,713,180**  
**SEPARABLE PINTLE ASSEMBLY FOR RUDDER AND THE LIKE**  
Henrik Johan Bruun, deceased, late of Stavanger, Norway, by Otto Brown, executor, Stavanger, Norway  
Application December 3, 1951, Serial No. 259,532  
3 Claims. (Cl. 16—177)

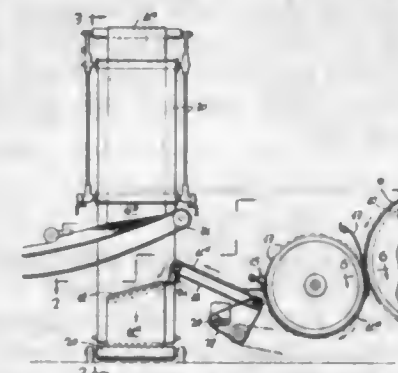


1. A separable hinge assembly comprising a pintle adapted to be fixedly secured at one end and having its other end free, a block mounted adjacent the free end

of said pintle, an eyebolt mounted in said block in alignment with said pintle for sliding movement between limit positions toward and away from said pintle and operable in one limit position thereof to engage and support the free end of said pintle, means pivotally connecting the eyebolt to said block whereby the eyebolt may be swung in the other limit position thereof to an offset position out of alignment with the pintle, means operable to engage said eyebolt and resiliently maintain the same in said offset position, and a latch member pivotally secured to said block actuatable into engagement with said eyebolt to maintain the eyebolt in engagement with said pintle.

**2,713,181**  
**WITHDRAWN**

**2,713,182**  
**INTERMEDIATE FEED DEVICE FOR CARDING MACHINES**  
William F. Bokum, Jenkintown, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application May 31, 1951, Serial No. 229,169  
13 Claims. (Cl. 19—163)



6. In a carding system having first and second carding machines, apparatus intermediate said carding machines for blending the non-uniform portions of a fibre web to produce a batt of uniform density and thickness comprising a guide member having a plurality of web directing portions pivotally mounted for movement about a horizontal axis extending normal to the travel of the web for adjustably positioning said directing portions at a predetermined angle of inclination, said directing portions each having a surface portion arranged at an acute angle to the direction of movement of the web about which portions of the web are passed and deposited in superimposed relation to provide a composite multi-layer web.

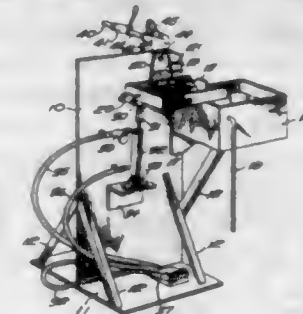
**2,713,183**  
**DEVICE FOR MELTING AND CASTING UNDER AIR-EXCLUSION**  
Otto Christian Winkler, Balzers, Liechtenstein, assignor to Alois Vogt, Vaduz, Liechtenstein  
Application November 3, 1950, Serial No. 193,778  
Claims priority, application Switzerland November 3, 1949  
4 Claims. (Cl. 22—73)



4. In a furnace having a crucible supported within a chamber and pivotable for discharge of its contents into

a mold; an open-bottom receptacle disposed within said chamber and divided into a plurality of compartments, plate means disposed beneath said open bottom of said receptacle and forming a base for said compartments, said plate means being provided with an aperture, means for displacing said receptacle with respect to said plate means to thereby register said compartments successively and intermittently with said aperture of said plate means, said displacing means extending from said receptacle to a location outside of said chamber, hopper means disposed beneath said aperture of said plate means in a first position and pivotally mounted for movement to a second position to thereby facilitate discharge of said hopper means into said crucible, and means for pivoting said hopper means between said first position and said second position, said pivoting means extending exteriorly of said chamber for actuation from therewithout, whereby material within each of said compartments can be successively discharged therefrom into said hopper means upon intermittent actuation of said displacing means, so that said material within said hopper means is thereafter supplied to said crucible by actuation of said pivoting means upon inactuation of said displacing means.

**2,713,184**  
**MOLDING APPARATUS**  
Edward Garabedian, East Providence, R. I.  
Application January 15, 1953, Serial No. 331,353  
6 Claims. (Cl. 22—156)



1. A molding apparatus comprising a support having a generally vertical wall and a generally horizontal wall for a mold, a mold separate from said support and freely resting on said horizontal wall and against said vertical wall and comprising a pair of mold parts, a pressure member, means for pivotally mounting said member with relation to said horizontal wall, and means to swing said member for squeezing said pair of mold parts against said wall during the mold pouring operation.

**2,713,185**  
**RESILIENT FASTENER FOR TAPERED MOLDINGS**  
John E. O'Herron, Roseville, Mich.  
Application March 1, 1952, Serial No. 274,343  
1 Claim. (Cl. 24—73)



A spring sheet metal fastener for use with channel-shaped members, as for example tapered molding strips having intumed flanges, comprising a body portion insertable between the opposed intumed flanges of the molding and adapted to be secured to a supporting panel, and flanges at opposite side edges of said body portion bent upwardly out of the plane of said body portion, the angle between each of said flanges and the upper face of the body portion being obtuse, one end of each flange projecting beyond an end edge of the body portion so as to engage one of the molding flanges, the opposite end of each flange projecting outwardly beyond the opposite edge of the body portion, the outer ends of said last named projecting ends being spaced apart a distance greater than

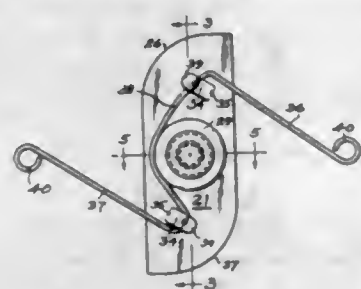


is the distance between said flanges in the region of said body portion and normally below said body portion, whereby when said fastener is assembled in the tapered molding said last named flange projecting ends engage the other of said molding flanges and are resiliently deflected into the plane of the body portion and inwardly toward said body portion to adjust to variations in width of the molding flanges.

**2,713,186**  
**MOLDING-ANCHORAGE DEVICE FOR SECURING TRIM-MOLDING STRIPS**

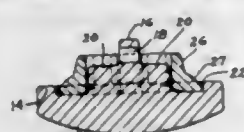
Francis J. Borowsky, Elkins Park, Pa., assignor to George K. Garrett Company, Inc., Philadelphia, Pa., a corporation of Delaware  
Continuation of application Serial No. 276,113, March 12, 1952. This application April 20, 1953, Serial No. 349,727

3 Claims. (Cl. 24—73)



1. A molding-anchorage device, for securing trim-molding strips to the body of automobiles and the like, which molding strips include a pair of opposed in-turned flanges at the back thereof, said molding-anchorage device including a relatively thin and generally elongated flat anchorage-plate whose width is less than the clearing between the inner face edges of the in-turned molding flanges, whose thickness is less than that between opposed inner flange and molding surfaces, and whose length is greater than the distance between the outer bights of said in-turned molding-flanges, a fastener-post extending from the central zone of said anchorage-plate, at a right angle thereto, said post adapted to extend through the body-wall to which the molding-strip is to be mounted and to be secured to said body-wall, a pair of spring-arms, formed of a single piece of spring wire mounted upon said anchorage-plate in a plane parallel and immediately adjacent thereto and flexibly secured thereto, and so disposed that by insertion of said spring arms beneath the in-turned flanges of the molding, the anchorage-plate will be resiliently turned so as to cause the end portions of the anchorage-plate to be disposed beneath the in-turned molding flange and there to be retained by said spring-arms.

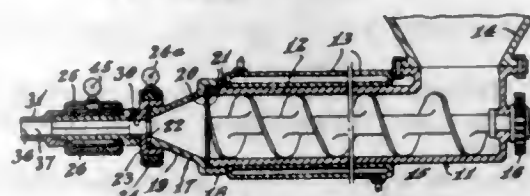
**2,713,187**  
**SEPARABLE FASTENING DEVICE HAVING A FACING BUTTON AND RETAINER MEMBER**  
John Chaves, Taunton, Mass.  
Application May 1, 1952, Serial No. 285,359  
2 Claims. (Cl. 24—104)



1. A fastening device comprising a facing button and a retainer member adapted to cooperatively engage therewith, said facing button embodying a main body having an outer face, an outer projecting rim forming part of the inner surface of said button, an intermediate stud portion projecting from said body and an end stud portion projecting therefrom farther than said intermediate stud portion, both said stud portions being of oblong shape in plan view and extending angu-

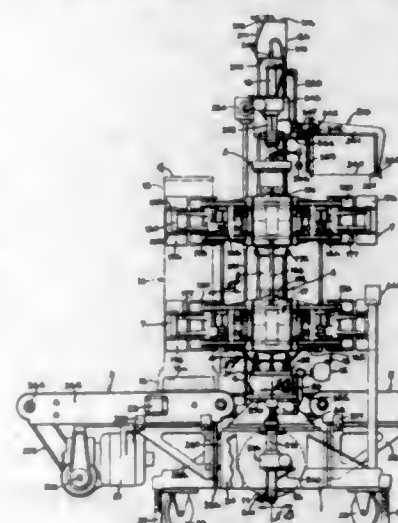
larly to each other in plan view, said body having a recess between said outer rim and said stud portions, said retainer member embodying a main body having two slots extending therethrough in angular relation to each other and having a common center opening, said retainer member body embodying an outer flange portion, said intermediate stud portion and said stud end portion being adapted to enter by a press fit into said slots, and said flange portion being adapted to extend into said facing button recess when said facing button and retainer are in cooperative engagement.

**2,713,188**  
**APPARATUS FOR POLISHING SOAP**  
James Garvey, Vancouver, British Columbia, Canada  
Application June 15, 1950, Serial No. 168,273  
Claims priority, application Canada June 16, 1949  
6 Claims. (Cl. 25—8)



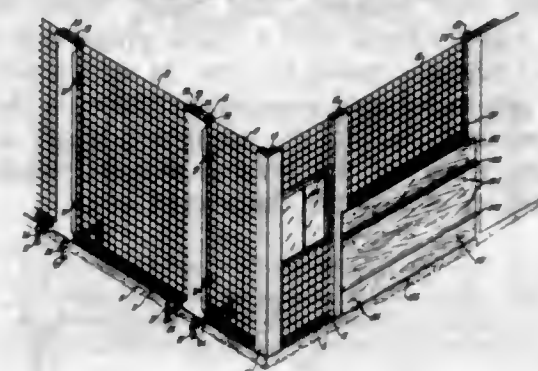
1. Apparatus for polishing soap comprising means for forming a soap bar, a platen, means for sliding the formed soap bar to be polished relatively to said platen and means for exerting a shear stress between the platen and the surface of the soap bar.

**2,713,189**  
**AUTOMATIC APPARATUS FOR FINISHING THE ENDS OF TILE SECTIONS**  
Cecil E. Webb, Cincinnati, Ohio, assignor to M. S. Bowne, Clearfield, Ky., as trustee  
Application July 21, 1951, Serial No. 237,920  
39 Claims. (Cl. 25—105)



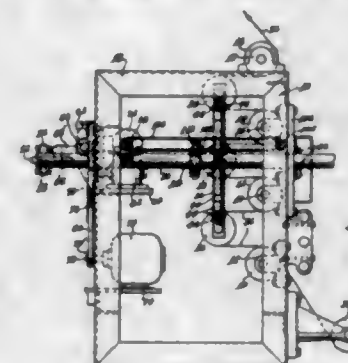
1. An apparatus for finishing plastic clay pipes comprising, a unidirectional feed conveyor arranged to convey the pipes in a horizontal path, normally open pipe clamping jaws extending radially in alignment with the conveyor to receive the pipes advanced by the conveyor, the clamping jaws being adapted to be indexed in step-wise rotary advancement in a horizontal plane, a finishing head spaced radially from the feed conveyor, a preliminary trimming device interposed in a radial position between the feed conveyor and finishing head, means responsive to the advancement of a pipe upon the conveyor adapted to close the jaws when an advancing pipe enters the open clamping jaws at the feed conveyor, means for indexing the turret and jaws with the pipe clamped therein from the feed conveyor to the finishing head, said preliminary trimming device being located in a plane suitable to trim the pipe as the same is indexed to the finishing head for finishing.

**2,713,190**  
**BUILDING CONSTRUCTION FORM**  
George M. Reitter, Sacramento, Calif.  
Application November 6, 1952, Serial No. 319,063  
2 Claims. (Cl. 25—131)



1. A concrete column and wall construction form comprising a foundation form including a pair of longitudinal foundation boards located on opposite sides of a wire mesh disposed within a vertical median plane through said foundation, a plurality of bilaterally symmetrical boxes supported on said foundation boards, each of said boxes including a pair of channels facing each other on opposite sides of said median plane to form a plastic cement receiving compartment, each of said channels having a pair of flanges at the upper end and at the lower end thereof, each of said flanges having a first portion extending longitudinally along the upper surface of the adjacent foundation board in opposite directions from said channel and a second portion extending transversely thereto, falseworks fastened to said second portions of said flanges and supported by said foundation boards, each of said channels having mounted on opposite edges a plurality of pairs of brackets symmetrically disposed on each side of a horizontal median plane through said channels, said pairs of brackets on one of said channels registering with corresponding ones of said pairs of brackets on the other of said channels for clamping engagement, and means for clamping together said brackets and said channels.

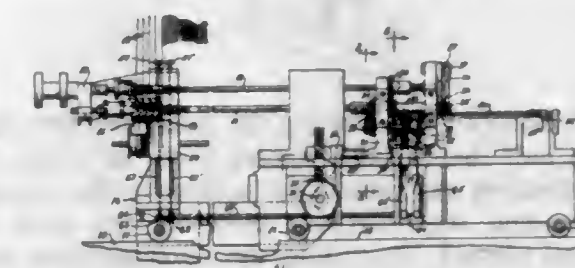
**2,713,191**  
**WEFT-STRAIGHTENING APPARATUS**  
John Broomfield, Harvard, Mass., assignor to Mount Hope Machinery Company, Taunton, Mass., a corporation of Massachusetts  
Application September 30, 1953, Serial No. 383,285  
11 Claims. (Cl. 26—51.3)



1. In a weft-straightening apparatus, a pair of generally parallel guide elements arranged in spaced relation and adapted to guide a longitudinally tensioned travelling woven sheet on a course leading from one to the other of said elements, a skew-correcting member mounted for tilting about a predetermined axis and arranged transversely of and engaging that portion of the sheet which is passing from one to the other of said guide elements, and means for tilting said member about the said axis of tilting to increase the length of the path of travel between said elements of one edge of the sheet relative to the length of the path of travel between said elements of the opposite edge of the sheet, said axis of tilting of said

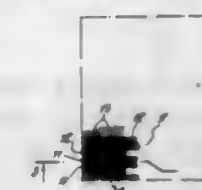
member being located relative to said opposite edge of the sheet for maintaining the longitudinal tension at said opposite edge substantially uniform before and after tilting of said member.

**2,713,192**  
**WARP DRAWING IN MACHINE**  
Charles B. Crandall, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois  
Application October 19, 1953, Serial No. 386,697  
5 Claims. (Cl. 28—44)



5. In a warp drawing in machine, the combination of, an elongated warp rod, a driving member, a connection between said rod and said member including clutch means operable when engaged to turn said rod, pattern control mechanism operable to engage said clutch means selectively thereby to turn said rod at predetermined intervals, a manually actuated element, and a connection between said element and said clutch means responsive to said element to disengage said clutch means and cause said rod to remain idle irrespective of said pattern control mechanism.

**2,713,193**  
**TEXTILE FABRICS AND METHODS FOR PRODUCING THE FABRICS**  
Chandler Robbins II and Edwin J. Hodgkins, Auburn, Maine, assignors to Bates Manufacturing Company, a corporation of Maine  
Application January 14, 1950, Serial No. 138,608  
13 Claims. (Cl. 28—76)



1. The method of manufacturing a textile fabric including weaving a fabric comprising a multiplicity of strands of at least two different types having relatively different lengthwise shrinking characteristics, said fabric having at least one surface composed at least partially of strands of both types, and shrinking subsequent to the weaving operation the strands having the greater shrinking characteristics to redispense the other strands in the weave so that one surface is composed substantially of strands of one type.

**2,713,194**  
**METHOD OF MANUFACTURING MODIFIED SLIP MULTIPLE TERMINAL BANKS**  
Charles J. Roach, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application June 7, 1951, Serial No. 230,381  
7 Claims. (Cl. 29—155.55)

1. A method of assembling a unit of wired terminal banks which consists in forming ladders of terminal cards with a predetermined number of cards in each ladder and with the terminals arranged on the cards in pairs and with the corresponding pairs of terminals on the cards interconnected by pairs of wires with the wires of each pair connected to the terminals in the first half of the ladders



in one relationship and in the second half of the ladders in the reverse relationship, selecting a group of ladders and arranging the cards in the first half of one of the ladders in a row and placing the cards in the first half of successive ladders of the group onto corresponding cards of the preceding ladder to form successive levels of cards for one half of the unit, selecting a predetermined



one of the ladders and inverting the cards end for end in the second half thereof and placing them in a row, successively selecting the remaining ladders in the group in a predetermined sequence and inverting the cards end for end and placing them onto the corresponding cards of the preceding ladder to form successive levels of cards for the other half of the unit, and securing the cards together in assembled relation.

2,713,195

# METHOD OF MAKING AN ENGINE MANIFOLD

Anton V. Hemmer, Lemon Grove, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California

Application March 15, 1951, Serial No. 215,833  
3 Claims. (Cl. 29-157)



1. In a method of fabricating a manifold, the steps of providing two half stampings of sheet metal having flash flanges projecting from their edges and connected to the main stampings by corners, trimming said flash flanges to substantially the same finite width and mechanically working said stampings to produce shorter internal radii at said corners, forming alignment indicia in said trimmed flanges, clamping said half stampings with said flanges in contact and said indicia in registry and said corners aligned, welding the associated flanges together at spaced points, trimming said flanges close to the stampings, and then seam welding and melting the trimmed flanges along their length to join said stampings with smooth seams of substantially uniform thickness which is substantially that of the parent metal.

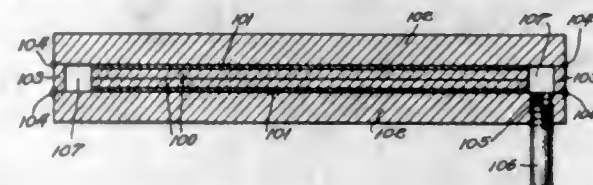
2,713,196

# METHOD FOR CLADDING AND PRODUCT RESULTING THEREFROM

Robert L. Brown, Birmingham, Ala., assignor to Chicago Bridge & Iron Company, a corporation of Illinois  
Application February 11, 1955, Serial No. 487,676  
9 Claims. (Cl. 29-196)

6. A method of forming clad plates comprising forming a sandwich including a base plate and a cladding plate with a thin layer of brazing material between them, the metal plate surfaces to be brazed being clean, hermetically sealing the edges of said sandwich to produce a chambered area between the plates but providing an opening to the chambered area for applying a

vacuum condition therein; applying a vacuum of not less than about 18 inches of mercury gauge in the chambered area; heating the assembled plates to a brazing temperature sufficient to melt the brazing material while maintaining said vacuum, said metal plates being of such size and thickness that a major proportion of their contiguous surfaces move together at said brazing temperature and under said vacuum condition in the chambered area; and cooling the assembled plates to below the melting range of the brazing material while maintaining said vacuum in the chambered area.



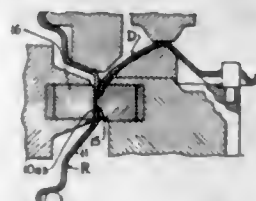
8. A composite clad product produced by the method of claim 6 comprising a base plate and a cladding plate integrally and continuously bonded together in face-to-face arrangement by a brazing material between said plates, said bond being flux-free and vacuum purged substantially free of all gases, including adsorbed and occluded gases released during brazing, said plates being of uniform thickness throughout the clad product and having the same thickness and shape as when the plates were placed in face-to-face arrangement for vacuum brazing.

2,713,197

# METHOD AND APPARATUS FOR MAKING AN INTEGRAL RIVET CONNECTION

Ottmar E. Schmidt, Grosse Pointe Woods, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 23, 1952, Serial No. 267,786  
16 Claims. (Cl. 29-432)

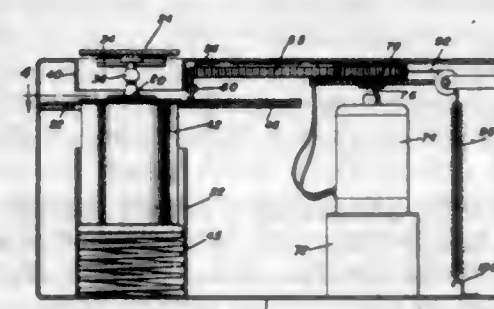


6. The method of securing together two face-engaging metal sheets which comprises, forming in a front sheet a round-ended conical sided rearwardly extending circumferentially continuous projection while supporting the back surface of the rear sheet in an inner narrow annular zone of primary support and in a wider outer annular zone of secondary support, the inside diameter of the inner back-supported annular zone being enough greater than the hollow interior portion of the projection to allow the projection to enter without shear in its sidewalls, continuing the action to force out a slug and form a hole within the annular back-supported zone of the rear sheet, to form a narrow countersunk depression around the rear end of the hole with a sharp inner edge at the bottom of the depression, and to force the rounded end and the unsharpened sides of the hollow projection through the hole which the projection has formed until the rounded end of the projection extends beyond the rear end of the hole and the conical sides of the projection have formed an embracing conical portion in the hole, and subsequently, while keeping the projection in position in the hole it has formed, holding the conical portion of the projection tightly against the sharp edge of the hole below the countersunk rear depression while leaving the rounded outer end of the projection unsupported and upsetting the end of the projection while thus held to fill the countersunk depression at the rear end of the hole and form a hole on the projection to hold the sheets together.

2,713,198

# CAN OPENER

Gerald G. Sapp, Burlington, N. C., assignor of fifty per cent to Charles A. Sapp, Sr., Burlington, N. C.  
Application January 19, 1954, Serial No. 404,938  
8 Claims. (Cl. 30-4)



1. A can opening mechanism comprising a housing, a receptacle in said housing for holding a can, a trackway in said housing, a blade member having its opposite side edges received in said trackway for movement therein, means engageable with a can top for positioning the same in the path of movement of said blade member, means for moving said blade member in said trackway.

2,713,199

# SOLENOID ACTUATED CAN OPENER

Ralph M. Spencer, Malaga, and Milton J. Smith, Wenatchee, Wash.

Application July 9, 1954, Serial No. 442,282  
5 Claims. (Cl. 30-4)



1. An electrically operated can opener comprising a supporting stand having a base adapted to releasably secure and locate a can to be opened, and upwardly carrying a bearing sleeve with its axis disposed vertically; a solenoid; a vertically reciprocal plunger rod journaled in said bearing and operably associated to be reciprocated by said solenoid; a combination pouring opening and vent punch carried by the plunger rod and adapted to open a can disposed upon said base; a normally open switch electrically interposed in the circuit of said solenoid and carried by the stand; a yieldably mounted reset lever disposed to be struck by a can placed upon said base and actuate said switch; and means actuatable simultaneously with the punching movement of said plunger for removing said reset lever from said switch whereby the solenoid circuit is opened; said can, while disposed on said base precluding return movement of said reset lever.

2,713,200

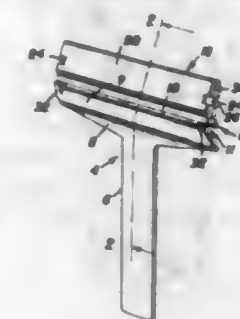
# DISPOSABLE SAFETY RAZOR

Earle R. Alwood, Jr., Haddonfield, N. J.

Application January 30, 1952, Serial No. 268,982  
1 Claim. (Cl. 30-32)

A blade-attached disposable safety razor comprising a one-piece holder embodying a substantially rigid handle, a head channel-shaped in cross-section with its lengthwise dimension disposed at right angles to the lengthwise axis of the handle, flange means joining said head with said handle, said flange means comprising a first flange joined intermediate its ends to one end of the

handle and disposed at an oblique angle in respect to the plane of the handle and directed forwardly in respect to the front of the handle, a second rearwardly directed oblique-angled flange integrated with said first flange and cooperating therewith in defining an open ended rearwardly facing channel, and a third forwardly directed oblique-angled flange joined with said second flange and also with one wall of said head and defining a second open ended debris receiving channel facing forwardly, the junctural portions between said first and



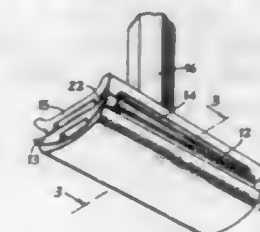
second flanges providing a bend and the latter having blade-supporting lugs struck out therefrom, a safety razor blade fitted into said head, the cutting edge of said blade cooperating with said lugs and spaced from the afore-mentioned bend, the respective end portions of said blade having keeper notches therein, one wall of said head having notches aligned with said keeper notches and the other wall of said head having laterally bent permanent retaining hooks and said hooks engaging in the notches in said blade as well as the notches in the first named wall of said head.

2,713,201

# SAFETY RAZORS

Johann Oscar Plesch, Stone, England, assignor to Peter Hariolf Plesch, Keele, England  
Application August 30, 1952, Serial No. 307,223  
Claims priority, application Great Britain September 4, 1951

2 Claims. (Cl. 30-50)



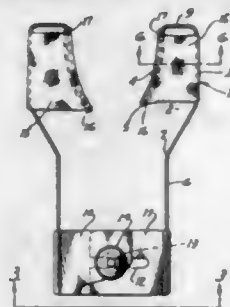
1. A safety razor comprising a base clamping plate, an intermediate plate, cutting members comprising two double-edged blades, a top plate, and clamping means for clamping the plates and blades together to form a razor assembly, one blade being assembled between the base clamping plate and the intermediate plate and the other blade assembled between the top plate and the intermediate plate, one pair of cutting edges on one side of the razor assembly being formed by two cutting edges of the two blades respectively, and the other pair of cutting edges on the other side of the razor assembly being formed by the other two edges of the two blades, the cutting edges of at least one pair of cutting edges taking up positions, when the razor assembly is clamped, in which the projections of the cutting edges of the said pair of cutting edges on to a plane perpendicular to the central axis of the razor are angularly displaced relatively to one another, and said base clamping plate being provided with locating pins having short inclined portions in the regions of their junctions with the said base clamping plate, the locating pins being adapted to be inserted in registering holes in the razor assembly and the inclined portions being oppositely directed towards the sides of said base clamping plate so as to cause a



slewing action on the blade assembled between the base clamping plate and the intermediate plate to slew the latter blade round as the razor assembly is clamped.

### 2,713,202 BITE TRAY

Russell J. Jones, Bratenahl, Ohio  
Application June 2, 1953, Serial No. 359,103  
9 Claims. (Cl. 32-19)



1. In a bite tray device including a pair of side frame members spaced apart from each other, a piece of thin, flexible, soft, open-mesh material, snap fastening attaching means at opposite margins of the material and operative for detachably connecting said material at the margins to the frame members, respectively, so as to support the material in outspread condition between the frame members.

### 2,713,203

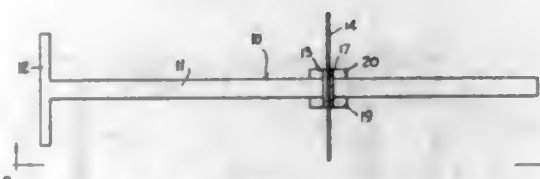
HOUSE FRAMING DEVICE  
Jack L. Gottlieb, Baltimore, Md.  
Application August 14, 1952, Serial No. 304,299  
3 Claims. (Cl. 33-1)



2. A house framing device for indicating and marking lines of cut on dimensioned framing members to be cut for use and placement in a building frame, comprising an elongated flat template of substantially the width of the framing member to be cut, said template having opposed straight edges to be aligned along opposed edges of said framing member when said template is laid along said framing member, said template having a plurality of pairs of opposed slots in said opposed straight edges, each said slot extending obliquely transversely of said template and opening outwardly through its associated said edge and terminating inwardly short of the middle portion of said template, each slot of a said pair of slots being aligned with the other of said pairs of slots so that oblique lines of cut on said framing members may be rapidly and accurately indicated and marked by laying said template along a said framing member in alignment therewith and applying markings to the edges of said framing member through each of an aligned pair of said slots to indicate the extremities of a said oblique line of cut, one end of said template being obliquely beveled parallel to said pairs of slots.

### 2,713,204 STRAIGHT OF GOODS FINDER

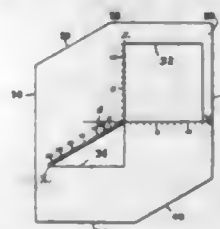
Dorothy L. Moore, Gilroy, Calif.  
Application May 13, 1954, Serial No. 429,512  
2 Claims. (Cl. 33-16)



1. A device for positioning a pattern upon fabric with its grainline in alignment with the straight of goods which is parallel with the selvage of such fabric comprising an elongated straight edge, a head portion disposed perpendicular to said straight edge and at one end thereof, said straight edge and its head portion being disposed in a common plane to lie upon the fabric with the head portion in alignment with the selvage of the fabric and the straight edge transversely of the goods and above the pattern, and an indicator mounted on said straight edge for sliding movement therealong for indicating the straight of goods relative to said pattern and the grainline thereon comprising a bridge piece transverse to said straight edge, a guide block on each side of said straight edge and secured to the under side of said bridge piece, said guide blocks being of lesser thickness than said straight edge to afford clearance beneath each of said blocks and the upper surface of said fabric and pattern thereon.

### 2,713,205

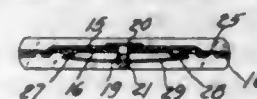
THREE-DIMENSIONAL AND SPHERICAL RULER  
Kaj L. Nielsen, Indianapolis, Ind.  
Application March 29, 1950, Serial No. 152,711  
2 Claims. (Cl. 33-104)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A three dimensional space ruler for perspective drawings comprising a single thin member having a first opening with two straight intersecting sides delineating first and second intersecting axes, and a second opening having two straight sides intersecting at the intersection of the aforesaid sides of the first opening, one side of the second opening being aligned with one side of the first opening and delineating the same axis, the other side of the second opening being out of alignment with the other side of the first opening so as to designate a third axis forming an acute angle between the other two axes, the sides of the openings presenting edges along which lines intersecting medially within the member may be drawn through the member by a pen or pencil.

### 2,713,206

FOLDING RULE JOINT  
Charles Zelnick, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich.  
Application October 19, 1953, Serial No. 386,857  
4 Claims. (Cl. 33-115)

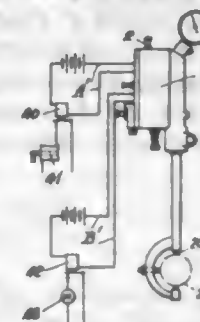


1. In combination, a rule joint comprising a pair of hinge plates adapted to pivotally connect a pair of adjacent rule sections, each of said plates being formed

with a longitudinally disposed, elongated, pressed out portion to provide a recess in one plate and a similarly shaped, elongated projection on the companion plate, said plates being oppositely disposed so that the projection portion of one plate nests in the recess of the other plate when said plates are superposed in alignment, raised bosses formed in the recess in said elongated projection, a substantially centrally fixed normally bowed pre-tensioned spring disposed in the recess formed by said projection with the ends thereof bearing on the raised bosses to enhance the spring action of said joint, and a substantially central pivot connecting said plates and pre-tensioning said spring so that the central portion thereof is almost in alignment with the ends thereof.

### 2,713,207

ELECTRIC SIZE-CONTROLLING GAUGE  
Shubel A. Foster, Birmingham, Mich., assignor to The Foster Engineering Corporation, Royal Oak, Mich., a corporation of Michigan  
Application August 13, 1952, Serial No. 304,080  
3 Claims. (Cl. 33-147)



1. In a gauge of the type described, a work piece engaging movable plunger, a pair of adjustable work-gauging mechanisms each responsive to movement of said plunger whereby when said plunger moves a predetermined distance the first of said mechanisms operates and when said plunger moves an additional predetermined distance, the second of said mechanisms operates; a micrometer means connected with each of said mechanisms for adjusting the point of operation of said mechanisms, means coupling said micrometer means whereby movement of one of said micrometer means causes relative movement of the other of said micrometer means to maintain synchronous operation of said gauge mechanisms.

### 2,713,208

HEIGHT GAUGE  
Thomas J. Bizzoco, Bronx, and Charles A. Smith, Merrick, N. Y.  
Application February 17, 1953, Serial No. 337,314  
3 Claims. (Cl. 33-170)

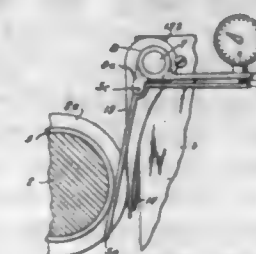


1. A precision height gauge comprising a base member, an upstanding supporting member fixed to said base mem-

ber, a head block fixed to the upper end of said supporting member, a vertically disposed shaft slidable at its lower end in said base member and slidable at its upper end in said head block, tensionable means carried by said base including a spring-biased spherical anti-friction member constantly urging said shaft upwardly, a plurality of vertically spaced apart collars carried by said shaft, and a micrometer carried by said head block engaging the upper end of said shaft.

### 2,713,209

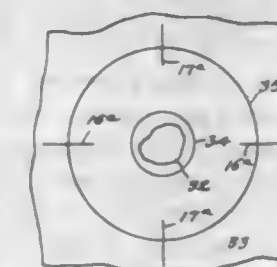
LAP THICKNESS METERS  
Hugh M. Brown, Clemson, S. C., assignor to The Clemson Agricultural College of South Carolina, Clemson, S. C., a corporation of South Carolina  
Application August 24, 1953, Serial No. 376,076  
4 Claims. (Cl. 33-172)



2. Apparatus for measuring the thickness of lap on the calender roll of a picker machine, comprising a shaft member, means mounting said shaft for turning about its axis and arranged parallel with and adjacent said calender roll, a follower arm secured to said shaft near one end thereof and arranged to engage a portion of said roll outside of the area covered by said lap, means for resiliently urging said follower arm into contact with said roll, a feeler arm carried by said shaft and arranged to engage the surface of the lap on said roll, and indicator means responsive to relative angular movement between said arms about the axis of said shaft.

### 2,713,210

TEMPLATES FOR AND METHOD OF REPAIRING AIRPLANE FABRIC  
Theodore Lobachewski, Brooklyn, N. Y.  
Application May 16, 1952, Serial No. 288,357  
11 Claims. (Cl. 33-174)



1. A template for use in patching comprising a relatively thin transparent disk adapted to be disposed over a damaged area to be patched, said disk having opaque portions defining center lines intersecting at right angles for centering the template over the damaged area, and said template having means forming a plurality of limiting boundaries spaced different distances from the center of the template including a central opening and opaque portions surrounding said opening and defining outer boundaries of transparent areas of the template which surround the central opening whereby the maximum lengths and widths of the damaged area, visible through the template opening and through said transparent areas, can be accurately determined for determining the necessary size and shape of the repair patch required.



2,713,211

**SELF CENTERING GAUGE**

Dominick V. Fella, Cheltenham, Pa.  
Application June 25, 1954, Serial No. 439,240  
2 Claims. (Cl. 33—216)



2. In a self-centering gauge, the combination which comprises a substantially conical shaped body providing a weight, said body having a threaded socket in the lower end and a threaded stud extended from the upper end, a frame having a pulley rotatably mounted therein threaded on the stud, a stem having a point on the lower end threaded in the socket in the lower end of the body and a cord extended through the pulley block and adapted to be connected to members of a frame.

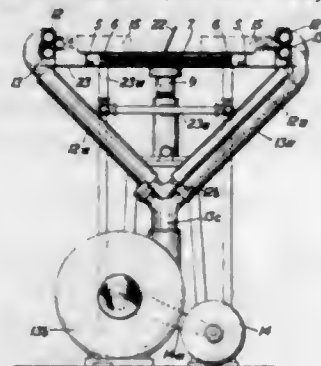
2,713,212

**BOOK BINDING MACHINES**

Harry William Taylor, Chingford, London, England, assignor to Smyth-Horne Limited, London, England, a British company

Application August 22, 1952, Serial No. 305,749

6 Claims. (Cl. 34—66)



1. An apparatus for conditioning the glue applied to the backs of books prior to rounding and backing said books, comprising a series of hot-air nozzles and means for supplying hot air under pressure to said series of nozzles, a series of cold-air nozzles alternating with the hot air nozzles and means for supplying cold air under pressure to said series of cold-air nozzles and means for conveying books past said series of hot-air and cold-air nozzles, said series of nozzles being disposed alongside said conveying means whereby the glued backs of said books are subjected alternately to streams of hot and cold air ejected from said hot and cold air nozzles.

2,713,213

**SELF-CLEANING SCREEN FOR MATERIAL HANDLING APPARATUS**

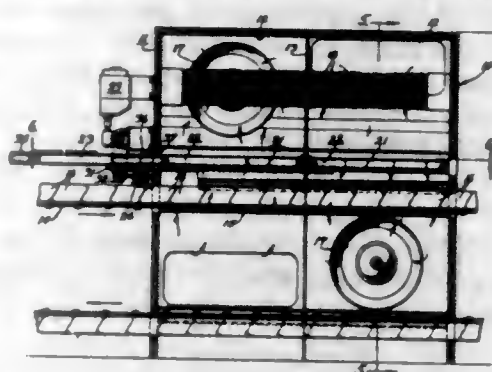
Stanislaus Bogaty, Philadelphia, Pa., assignor to Proctor and Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application February 15, 1954, Serial No. 410,305

13 Claims. (Cl. 34—82)

1. A self cleaning screen for dryers and similar equipment comprising: a housing, conveyor means passing through said housing, blower means operable to force a treating medium through the conveyor means in opposite directions in adjacent portions of the housing, a plurality of screen sections mounted in said housing in spaced

parallel relation with said conveyor, said screen sections being mounted in adjacent portions of said housing whereby the treating medium is caused to pass in opposite directions through said adjacent screen sections and said



conveyor, and drive means operable to actuate said screen sections to the next adjacent portion of the housing wherein treating medium is forced therethrough in the opposite direction.

2,713,214

**LAMINATED INNERSOLE CONTAINING A DRYING AGENT**

John J. Gulaskie, Brooklyn, N. Y.

Application October 4, 1952, Serial No. 313,155

2 Claims. (Cl. 36—44)



1. An innersole for shoes comprising an upper cloth member, a lower cloth member, said lower cloth member being disposed below said upper member and secured thereto along its edges, said lower member being further secured to said upper member intermediate its ends in transverse directions whereby to provide a plurality of first pockets therebetween, foot powder sealed within said pockets, a toe piece secured to said lower member therebelow around the periphery of the latter at its front portion, said toe piece having a transverse edge freely spaced from said second member whereby to provide an opening to a second pocket formed between said toe piece and said lower cloth member, a heel piece secured to said lower member therebelow around the periphery of the latter at its rear portion, said heel piece having a transverse edge freely spaced from said lower member whereby to provide an opening to a third pocket formed between said heel piece and said lower member, and a pad of semi-rigid material, being received partly by the said second pocket and partly by the said third pocket.

2,713,215

**MEDICATED INSOLE**

Bernard J. Cosneck, Hollywood, Calif.

Application August 20, 1953, Serial No. 375,355

2 Claims. (Cl. 36—44)

1. A medicated insole having front and rear end portions and a relatively narrow instep portion therebetween and also having inner and outer side edges, said insole comprising upper and lower panels superposed on and coextensive in area with each other, a marginal seam securing together marginal edge portions of said panels, a reversely curved continuous seam having a first region extending from the marginal seam at a point adjacent the outside edge of the instep portion forwardly and inwardly toward the inside edge of the front portion, a second region extending rearwardly in spaced relation to the marginal seam at the inside edge of the front por-

tion, and an arcuate third region terminating at the marginal seam adjacent the inside edge of the instep, the first and third regions of the reversely curved seam defining between said panels respectively a relatively large pocket in the front portion and a relatively small pocket at the inner side of the instep portion, the second region of the



reversely curved seam coacting with an adjacent portion of the marginal seam in defining between said panels a relatively narrow passage connecting said pockets, said upper panel being provided with sets of apertures communicating with the pockets, and a powder containing cushion provided in the pockets for diffusing powder through said apertures.

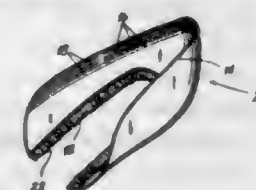
2,713,216

**FLEXIBLE UPPER EDGE PORTION FIBER SHOE COUNTER**

Gerald J. Ponce, Afton, Mo.

Application July 19, 1954, Serial No. 444,149

1 Claim. (Cl. 36—68)



A shoe counter comprising a stiff main body, and a flexible upper edge portion including spaced substantially longitudinally extending grooves, the thickness of the counter material at the bottom of the grooves being less than that of the respective counter portions bordering the said grooves, said grooves comprising weakness planes along which the counter material may bend.

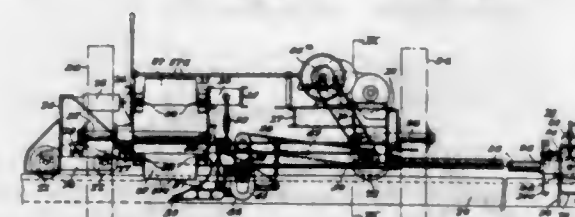
2,713,217

**SUBGRADING MACHINE**

Karl Meisenburg, Pittsburgh, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware

Application August 6, 1948, Serial No. 42,767

4 Claims. (Cl. 37—108)



1. In a subgrading machine, in combination, a wheeled frame, a cutting member suspended from said frame, a support for the cutting member comprising at least one beam extending transversely to the cutting member, said beam having one end pivoted to said frame, means for suspending the cutting member from said beam away

from said pivot, an oscillator suspended from said frame and connected to said cutting member, means for rotating said oscillator, said last-mentioned means having an axis coinciding with the axis of said pivot, and vertically adjusting means for supporting the end of said beam from said frame.

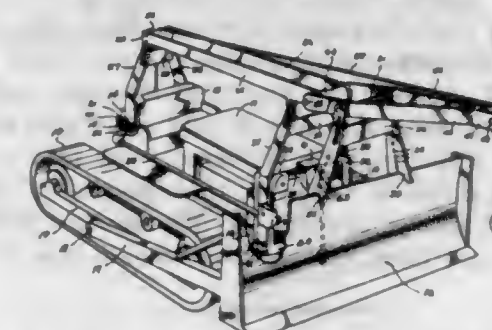
2,713,218

**BULLDOZER AND BOOM ATTACHMENT THEREFOR**

Charles E. Dyer, Seaside, Oreg.

Application June 8, 1954, Serial No. 435,180

1 Claim. (Cl. 37—117.5)



A boom attachment for a tractor having at its rearward end a power driven boom cable winch and a power driven vertically movable bulldozer blade at the forward end thereof, said boom attachment comprising a substantially U-shaped structural support, the spaced ends of which are adapted to be secured detachably to the forward and rearward ends respectively of a tractor with the intermediate section of the support extending above and longitudinally of the tractor, a boom member mounted pivotally on the intermediate section of the support for rotation on an axis parallel to the plane of movement of the bulldozer blade, a brace member mounted pivotally at its upper end on the boom member forwardly of the boom pivot, boom cable guide roller means mounted on the forward end of the boom member and on the rearward elevated end of the structural support for guiding a boom cable adapted to extend thereover from the boom cable winch, and spaced projections depending from the lower end of the brace member and adapted freely to straddle the upper edge of the bulldozer blade for relative rotational displacement between said brace member and blade, whereby to support the boom member freely on the bulldozer blade and to adjust the angular position of the boom member by vertical movement of the bulldozer blade.

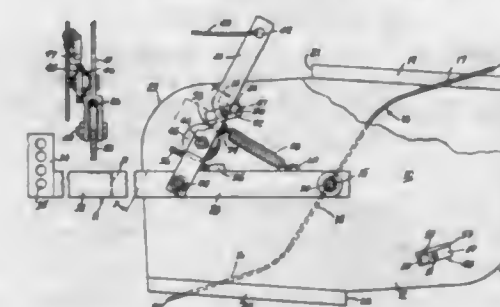
2,713,219

**ROLL-OVER SCOOP TYPE CHECK BLOCKER**

William L. Gerrans, Saratoga, Calif.

Application August 21, 1950, Serial No. 180,605

5 Claims. (Cl. 37—140)



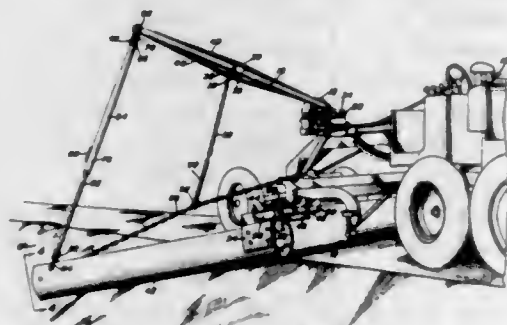
1. In a check blocker having a load supporting body adapted for movement over the ground in one direction and which body includes a pair of similar, horizontally spaced, opposed, coaxial side plates and a load carrying plate rigidly connecting said side plates having a cutting edge adjacent the forward side of said body relative to said direction of travel; a drawbar having a pair of arms at opposite outer sides of said side plates, coaxial pivots



securing said side plates to said arms for rotation of said body in one direction to dump a load supported on said load carrying plate, a stop member rigid with one of said side plates and radially spaced from the axis of said pivots for revolving in a circularly extending path upon revolution of said body, a roller, a trip arm, a trip arm pivot swingably securing said trip arm at one end thereof to one arm of said drawbar, a shaft supporting said roller on said trip arm for rotation of said roller on its axis, means for holding said trip arm in a position in which said stop member engages said roller at a point on the side of the latter remote from said one arm to obstruct rotation of said body, said point being spaced radially outwardly of the axis of said pivots a slightly greater distance than the point of intersection between a straight line and the side of said roller as that engaged by said stop member and which line extends through the axis of said shaft and the pivot of said trip arm whereby movement of said trip arm through the distance between said points in direction generally radially outwardly of the axis of said pivots will release said body for rotation in said one direction.

2,713,220

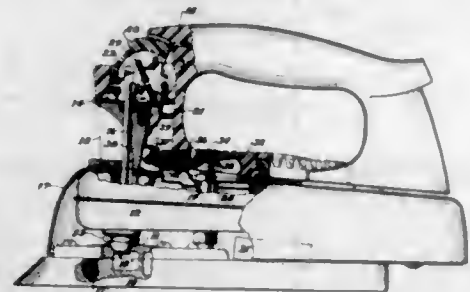
**SLOPING ATTACHMENT FOR GRADERS**  
John F. Muenchow, Arcadia, Iowa  
Application November 6, 1950, Serial No. 194,316  
6 Claims. (Cl. 37-155)



1. In a grader including an earth moving blade, a bank sloper comprising a sloping blade having inner and outer ends, a universal connection between the inner end of said sloping blade and one end of said earth moving blade, a vertically swingable boom mounted on the grader frame and overlying the sloping blade, an adjustable connection between said boom and the outer end of said sloping blade, a flexible connector between the sloping blade and the grader frame, means on the grader and operatively connected to the boom for selectively raising and lowering the boom, and a resilient connecting means between the flexible connector and the boom, said connecting means being slidably received on the flexible connector.

2,713,221

**ELECTRIC IRONS**  
Donald G. Smellie, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application December 15, 1951, Serial No. 261,850  
9 Claims. (Cl. 38-77)

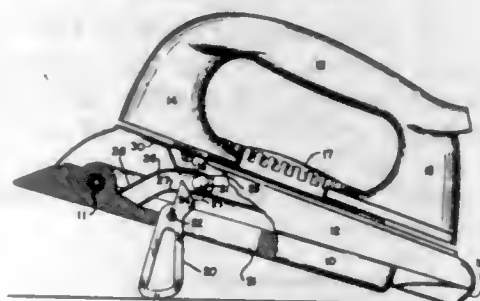


1. In an electric iron, a sole plate, a heater for said sole plate, a thermostatic switch for controlling the temperature of said sole plate, a manually actuatable

control for adjusting the temperature setting of said switch, a boiler formed in said sole plate, a water tank associated with said sole plate, a valve for controlling the flow of water from said tank to said sole plate, an on-off manually actuatable valve actuator for selectively holding said valve in its open and closed positions, said manually actuatable control having a single steam setting for maintaining said sole plate at the proper temperature for steam ironing, detent means coacting with said manually actuatable control for locking the latter at its steam setting, and detent actuating means actuated by movement of said valve actuator to its valve opening position for moving said detent means into locking engagement with said manually actuatable control.

2,713,222

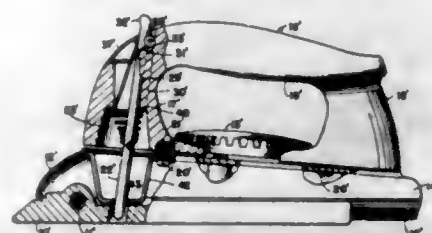
**ELECTRIC IRONS**  
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application November 13, 1950, Serial No. 195,412  
14 Claims. (Cl. 38-79)



1. In combination, an electric sad iron having an electrically heated sole plate, a cover shell mounted thereon, support means projecting beyond the rear end of said sole plate and terminating slightly above the lower surface thereof, a gravity actuated strut pivoted to said iron movable between a collapsed position above the lower surface of said sole plate and an extended position in which it cooperates with said rear support means to support the sole plate in an inclined rest position entirely removed from an ironing surface, and gravity actuated control means for said strut adjacent the inner, forward end thereof including a rolling member movable independently of said strut between a first position in which said member holds said strut in said collapsed position and a second position in which said strut is free to pivot by gravity action to said extended position, and means forming an inclined raceway for said rolling member arranged to have its position relative to the horizontal reversed when said iron is tilted rearwardly beyond a predetermined angle.

2,713,223

**SELF-LIFTING SAD IRON**  
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application June 29, 1951, Serial No. 234,233  
12 Claims. (Cl. 38-79)

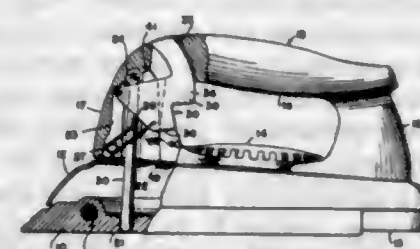


11. An electric iron including a soleplate and a combined handle and collapsible rest, a one-piece U-shaped handle including front and rear legs connected at their upper ends by a hand grip, a generally vertical passageway opening thru the top and bottom of one of said legs,

a rodlike member extending vertically thru said passageway, a spring surrounding the intermediate portion of said member and having one end connected to the iron and its other end connected to said member so as to urge it downwardly, roller means on said member near the upper end thereof, and means formed in said passageway providing a detent for receiving said roller and holding said rod in its uppermost position in opposition to said spring.

2,713,224

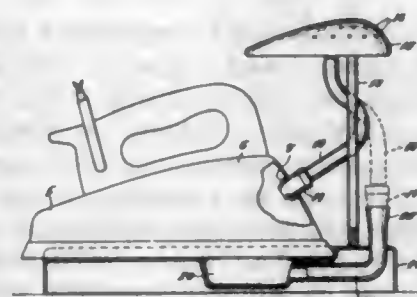
**SELF-LIFTING SAD IRON**  
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application June 29, 1951, Serial No. 234,234  
14 Claims. (Cl. 38-79)



1. A self-lifting smoothing iron having a body consisting of a sole plate, a cover shell and an operating handle having a hollow front leg supported on said cover shell, and collapsible means for supporting said sole plate out of contact with an ironing surface, said collapsible means being movable back and forth through an unstable position between a stable retracted position and a stable extended position in which said sole plate is supported above said ironing surface, said collapsible means including a vertically movable support member extending into said hollow handle leg and being movable downwardly through an opening in the forward portion of said sole plate, said collapsible means also including a double ended over-center toggle spring and a manually operable control, one end of said spring being connected to said support member and the other end to said control, said control being movably mounted so as to shift said other end of the spring past said first end in either direction whereby said control is operable to shift said toggle spring from one over-center position to another to hold said support member in either its retracted or extended positions.

2,713,225

**ATTACHMENT FOR STEAMING IRONS**  
Frank E. Wolcott, West Hartford, Conn.  
Application January 14, 1953, Serial No. 331,229  
7 Claims. (Cl. 38-99)

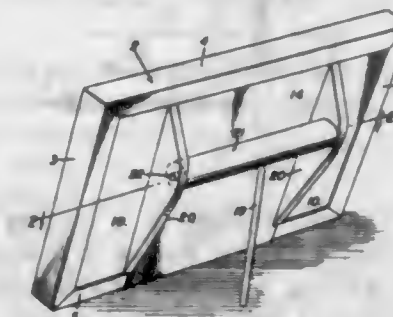


1. A steaming and pressing attachment for steaming irons including a base constructed of sheet metal and having a surrounding vertical wall portion for mounting the base upon a supporting surface, the top of said base having a recess therein adapted to receive and position a steaming iron, the end of said recess being open to permit the sole plate of the steaming iron to overhang the end of the base, a post extending vertically from said base, a steaming head mounted upon the top of said post, the said head having a steam-distributing chamber therein

with outlet ports extending through the wall thereof, a tube having one end connected to said head and communicating with said chamber, a well in the bottom of the recess in the base adapted to receive steam discharged from the sole plate of a steaming iron resting in said recess, and a separate pipe extending from said well and having an open end adapted to receive the free end of said tube for conducting the steam from the well into the steam chamber in the said head.

2,713,226

**EASEL FRAME**  
James C. Murff, Junction, Tex.  
Application July 16, 1952, Serial No. 299,079  
4 Claims. (Cl. 40-156)



1. In an easel, a picture frame having ends and a top and bottom, and a picture backing panel fitting in the frame, means for retaining the backing panel in the frame comprising a pair of cross bars in the frame, means slidably mounting the ends of said cross bars in the top and bottom of said frame behind said backing panel for separate lateral movement into engagement with said ends, a locking panel fitting between the separated bars behind said backing panel to maintain said bars engaged with said ends, and longitudinal edge grooves in said bars slidably receiving said locking panel, said bars being adapted to support an easel leg.

2,713,227

**EXTRACTOR AND LOADING MEANS FOR FIREARMS**  
Horace Will Smallwood, Four Oaks, England, assignor to Webley & Scott Limited, Birmingham, England, a British company  
Application October 20, 1952, Serial No. 315,710  
3 Claims. (Cl. 42-25)

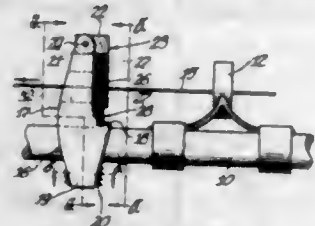


1. Cartridge loading means for a small-arm of the type comprising a receiver having a breech opening to receive cartridges, a barrel fixed to the receiver and having a cartridge chamber at its breech open to the receiver to receive a cartridge therefrom, and a breech bolt slidable forwardly in the receiver in alignment with the barrel for driving a cartridge into the cartridge chamber and closing the breech and retractable to open the breech, an extractor having a cradle-like part aligned axially with the bore of the cartridge chamber and in which the rim end of a cartridge seats when the cartridge is inserted through the breech opening into the receiver, the extractor being slidable forwardly with the breech bolt in closing the breech of the barrel and retractable with the breech bolt in opening the breech to extract a cartridge case from the cartridge chamber, the receiver having a pair of slots in its lower portion below the axis of the



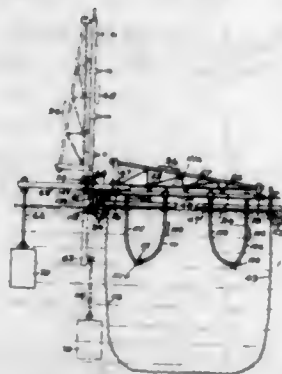
bore of the cartridge chamber, and a pair of resilient members secured to the underside of the receiver and having portions which extend upwardly through said slots while the breech bolt is retracted and provide a pair of laterally spaced rails which cooperate with the cradle-like part of the extractor to support a cartridge in alignment with the axis of the bore of the cartridge chamber in the barrel.

**2,713,228**  
**SQUEEGEE FOR FISHING LINES AND THE LIKE**  
Marshall F. Grunwald, Elmhurst, Ill.  
Application February 19, 1952, Serial No. 272,363  
7 Claims. (Cl. 43—25)



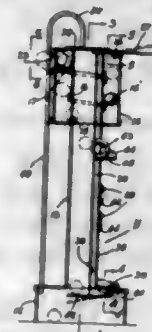
1. A device for attachment to a casting rod for removing water from a casting line as it is being reeled in, said device comprising a support having at one end a saddle for engagement with the casting rod, said support also having spaced slots at the other end and a hole between the ends through which the line is adapted to pass, a holder having spaced ears and spaced legs, a squeegee element of relatively soft and resilient material stretched between the legs on the holder and having a slit at a region between the holder legs for receiving the casting line, and means pivotally connecting the spaced ears on the holder in the slots of the support so as to suspend the holder for free swinging movement relative to the support in a plane passing through the longitudinal mid-portions of the holder and support.

**2,713,229**  
**METHOD FOR PREVENTING THE ROBBERY OF FISH TRAPS AND ANTI-THEFT FISH TRAP MECHANISM TO CARRY OUT THE SAME**  
Charles R. Duffey, Seattle, Wash.  
Application January 29, 1949, Serial No. 73,486  
8 Claims. (Cl. 43—103)



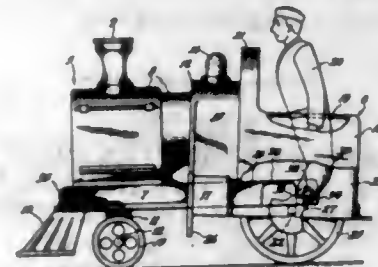
1. A theft-of-salmon-hindering salmon trap comprising a water surface floating fish trap impounding net supporting frame adapted to be positioned at the end of a single fixed lead from shore; a spiller including a net suspendedly secured to said frame; and depending bar means removably mounted on said frame and extending downwardly into the water within the confines of said spiller and extending laterally across at least a portion of the area thereof and downwardly a substantial portion of the height of the spiller to an extent which is adapted to maintain fish in the net to a depth of water which affords the impounded fish a free space in which to swim and to leap above the water surface in eluding unauthorized capture if a net be dipped into the spiller to the depth of said bar means.

**2,713,230**  
**DIVING BOARD TOY**  
Oscar L. Miller, Valley Station, Ky.  
Application August 3, 1954, Serial No. 447,606  
3 Claims. (Cl. 46—42)



1. A toy device comprising a hollow base, a vertical hollow standard secured on and communicating with said base, a housing surrounding the upper portion of said standard, said standard having an opening communicating with the lower portion of said housing, an inclined ball track in said housing extending around the standard, said track leading downwardly through said opening, the wall of said housing having a ball admission aperture located adjacent the top end of said ball track, a bar member slidably mounted in said standard, a first diving board pivotally mounted on the top portion of said housing and pivotally connected at its inner end to the top end of said bar member, a second toy diving board pivotally mounted on said hollow base, and a lever member pivotally secured at its intermediate portion to the lower end of said bar member, one end of the lever member engaging beneath said second toy diving board and the other end of the lever member being disposed beneath the hollow standard to receive a ball dropping from said ball track through the standard, whereby to simultaneously elevate said toy diving boards.

**2,713,231**  
**LOCOMOTIVE WHEELED TOY**  
Thomas William Hore, North Balwyn, Victoria, Australia  
Application December 26, 1952, Serial No. 327,963  
Claims priority, application Australia October 8, 1952  
6 Claims. (Cl. 46—107)



1. A toy vehicle shaped to represent a locomotive and comprised of forward and rearward articulated sections, the forward section slidably fitting within the rearward section, a cranked axle rotatably mounted in the rearward section, driving wheels secured to and supporting the cranked axle, and an extension of the forward section drive-connected with the cranked axle and operable responsive to rotation of the cranked axle to reciprocate the forward section and angularly move both sections in opposite directions.

**2,713,232**  
**PROCESS OF PRESERVING LIVE PLANTS**  
Glen Peterson, Tulsa, Okla.  
No Drawing. Application November 21, 1949, Serial No. 128,685  
13 Claims. (Cl. 47—58)

1. The method of providing for the shipment and storage of live plants comprising sealing said plants inside a

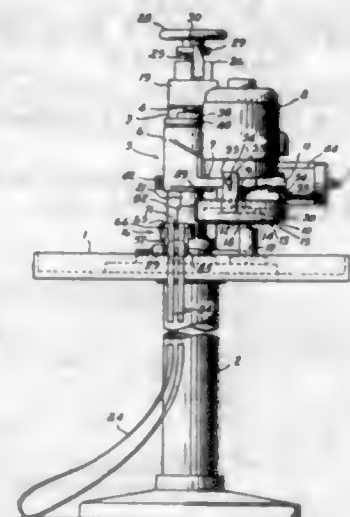
container which is impervious to all fluids including water vapor, and providing within the enclosed space a store of available plant food and radioactive and fluorescent materials in quantities harmless to the plants but sufficient to produce light, and an atmosphere consisting of inert gases, carbon dioxide, and a slight amount of water vapor.

**2,713,233**  
**PROCESS AND PRESERVATIVE FOR TREATING CUT PLANTS**

Mary P. Rogers, Hilo, Territory of Hawaii  
No Drawing. Application November 10, 1952, Serial No. 319,794  
14 Claims. (Cl. 47—58)

7. The process of preserving the freshness of cut plants having stems, comprising the steps of cutting the plant and immersing the stems in warm water for the minimum time required to permit the plant to absorb as much of the water as it can hold; immersing the plant in cold water until it is cooled; and immersing the plant in a weak aqueous solution of preservative made by boiling a comminuted Mamaki plant in water to remove its essence.

**2,713,234**  
**APPARATUS FOR SCARFING THE ENDS OF METAL STRIPS**  
Gordon Hill, Davenport, Iowa, assignor, by mesne assignments, to Bettendorf Bakery Equipment Company, Bettendorf, Iowa, a corporation of Iowa  
Application December 15, 1951, Serial No. 261,891  
7 Claims. (Cl. 51—55)

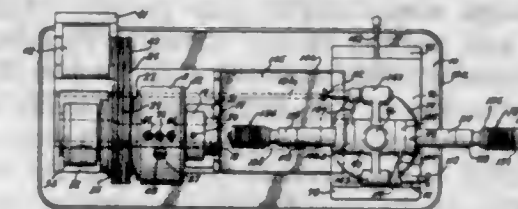


1. A machine for scarfing the ends of flat metal strips comprising a work support having a flat inclined bed having a horizontal upper edge, guides disposed in parallel relation and spaced laterally to receive metal strip ends between them, means for clamping said strip ends to said bed and for pressing said ends toward said guides to hold the same in parallel relation on said bed with the bed engaging bottom faces of said ends extending to said edge, a grinding wheel having a peripheral edge and a flat face perpendicular to its axis and bordering said peripheral edge, means for driving said grinding wheel, and means for supporting said wheel with the plane of its flat face above and close to the plane of said upper edge of the bed and for movement horizontally to pass said peripheral edge across strip ends clamped to said bed to scarf the same.

**2,713,235**  
**HONING METHOD AND APPARATUS**  
Alexander Borzym, Dearborn, Mich.  
Application May 28, 1953, Serial No. 358,080  
14 Claims. (Cl. 51—73)

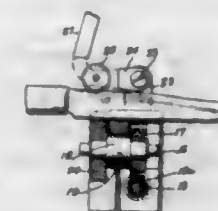
4. An apparatus for honing piston rings, the apparatus comprising a horizontal base, means mounted on the base

and supporting a horizontal drum, a plurality of abrading elements at one end to afford axial access to the space encompassed by said abrading elements, a carrier mounted on the same base and adapted to support a plurality of piston rings, the carrier comprising a shaft in an axial alignment with the drum a plurality of disks at one end of the shaft, the disks being aligned with the axis thereof and spaced from each other by spacers there between, an oblong fin radially fitted into said disks from the periphery thereof and extending into the spaces between the



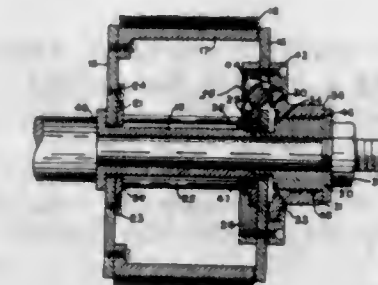
disks, the space between each two adjoining disks being wide enough for reception of an individual disk edgewise, the fin being adapted to fit into the gaps of the respective rings, power means to cause a reciprocal, straight line movement between the drum and the carrier to bring the rings on the carrier into the space within the abrading elements in the drum for abrasive action by said elements along the periphery of the respective rings, and power means to impart a relative rotary movement between the drum and the carrier.

**2,713,236**  
**KNIFE SHARPENING MACHINE**  
Norman L. Goss, Pasadena, Calif.  
Application June 1, 1953, Serial No. 358,609  
2 Claims. (Cl. 51—128)



1. A knife sharpener comprising a frame; means defining a vertically disposed slot in said frame; a hob mounted below said slot, power means for driving said hob; a post on said frame; an arm pivotally mounted on said post; and a wheel having a V-shaped rim pivotally mounted on said arm in position to overlie said slot.

**2,713,237**  
**SEMI-AUTOMATIC FEED MECHANISM FOR SANDER HEADS**  
Percival C. Monjar, Bladell, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware  
Application January 27, 1954, Serial No. 406,519  
6 Claims. (Cl. 51—193.7)



1. An abrasive head comprising: two annular side flanges about the periphery of which is an annular series



of outwardly extending back-up brushes, an abrasive reel located axially within the space defined by the side flanges, and the back-up brushes which abrasive reel is free to be rotated independently of the drive shaft and on which abrasive reel may be wound abrasive strip material, an actuating ring comprising a gear portion which actuating ring is free to be rotated independently of the drive shaft by means of force applied to the actuating ring, a reel drive gear coacting with the abrasive reel which reel drive gear is free to be rotated independently of the drive shaft, and a reduction gear assembly mounted on a side flange comprising a gear portion which coacts with the gear portion of the actuating ring and a second gear portion which coacts with the reel drive gear whereby rotation of the actuating ring relative to the side flanges causes rotation of the reduction gear assembly which in turn causes rotation of the reel drive gear relative to the side flanges resulting in rotation of the abrasive reel relative to the side flanges.

2,713,238

## SCISSORS SHARPENER

Richard H. Stead, Revere, Mass., assignor to Revere Corporation, a corporation of Massachusetts  
Application August 14, 1953, Serial No. 374,341  
1 Claim. (Cl. 51-214)



A shears and scissors sharpening implement comprising a plate-like body merging into a co-planar protective handle, the body and handle integrally molded of synthetic plastic material to form a paddle-like unit, the body having centrally therein an elongate two-lobe figure-eight aperture in longitudinal line with the handle, the respective lobes of the aperture having straight sides inclined inwardly toward the waist of the aperture with the opposite sides of the opposite lobes substantially parallel and offset laterally for simultaneous guiding coaction with the outer faces of open shear blades inserted in the aperture, the body having at one face transversely aligned bearing recesses at the opposite sides of and opening into the aperture waist, a cylindrical abrasive member rotatably received in said recesses, and releasable retainer means on the body at said recessed face for operatively confining the abrasive member in the recesses, the latter transversely disposed at a predetermined angle of inclination to the aperture longitudinal axis to present diametrically opposed portions of the abrasive member in rotative sharpening relation to the bevelled cutting edges of inserted shear blades as guided by said aperture sides.

2,713,239

## COTTON PICKER SPINDLE ASSEMBLY

Winfield A. Dermid, San Gabriel, Calif.  
Application July 1, 1954, Serial No. 440,587  
2 Claims. (Cl. 56-50)

1. In a cotton picker spindle assembly, a unitary spindle holder for rotatably supporting a spindle on a spindle carrier comprising a cylindrical spindle holding member having an axial bore and opposing open inner and outer ends, said inner end being externally threaded for attachment in a threaded opening in a spindle carrier, wrench receiving means externally formed on the member intermediate the ends thereof, a sectional bearing

sleeve fitted in the bore and including an inner and an outer section spaced axially apart to provide an annular oil reservoir, said inner section having an annular, laterally outstanding flange on its outer end abutting the inner end of the member, said flange being provided with radial ports and said inner section having an axial slot communicating the reservoir with the ports and defining an oil passage means for oil flow from the carrier to the bore of the member, an interned laterally

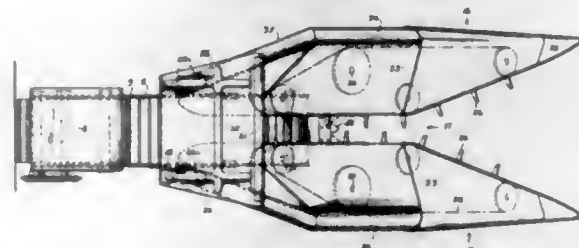


extending annular lip on the outer end of the member of an internal diameter equal to the internal diameter of the bearing sleeve, said outer section of the bearing sleeve being spaced inwardly from the lip, a sealing ring fitted between said outer section and the lip, said holding member having the outer surface of its outer end smoothly formed and curved inwardly to the lip to provide a bearing end which will prevent the cotton fibers from winding up on the holding member in a manner so as not to impose a drag on the spindle.

2,713,240

## ROW CROP ATTACHMENT FOR ENSILAGE HARVESTER

James R. West, New Holland, Pa., assignor to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application April 27, 1953, Serial No. 351,257  
5 Claims. (Cl. 56-98)

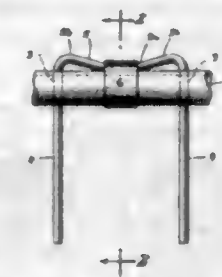


1. In a forwardly moving row crop harvesting attachment for severing and conveying stalks of crop material, said attachment including laterally opposed gathering members defining between them a vertical stalk receiving passage, and rearwardly and upwardly moving conveying means in said passage carried by said members for conveying severed stalks through said passage, the combination of upwardly presented stalk guides carried by each said member, each said guide extending longitudinally in the direction of movement of the attachment and including a rearwardly upwardly inclined advance section whereby bent stalks supported over said section will be moved rearwardly and upwardly thereon by the conveying means, a horizontal section rearwardly of and smoothly merging with said advance section for receiving the stalks from said advance section and guiding them rearwardly at a constant level, said horizontal sections converging rearwardly toward said conveyors and terminating rearwardly in upstanding forwardly disposed abutments around which said stalks may be drawn in endwise directions, said abutments being located wholly above said gathering members, and said conveying means moving rearwardly beyond said abutment to swing the depending ends of the bent stalks rearwardly and upwardly about fulcrums located on said horizontal sections.

2,713,241

## REEL TINE ASSEMBLY

James R. West, New Holland, Pa., assignor to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application September 11, 1953, Serial No. 379,677  
7 Claims. (Cl. 56-400)

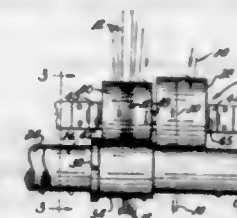


1. A harvester reel tine assembly comprising a reel bar of circular cross-section having relatively spaced diametrical bores therethrough, a pair of tines disposed through said bores, a retainer portion of circular cross-section connecting the inner ends of said tines and including a section parallel to said bar, in combination with a spring clip of arcuate conformation coupled to said section for swinging movement therearound, the clip extending circumferentially from said coupling over halfway around the bar between said tines and being curved about a radius smaller than that of the bar to resiliently draw the retainer portion thereagainst.

2,713,242

## APPARATUS FOR TWISTING CORD

Richard B. Esler, Clinton, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
Application September 20, 1954, Serial No. 457,271  
2 Claims. (Cl. 57-12)

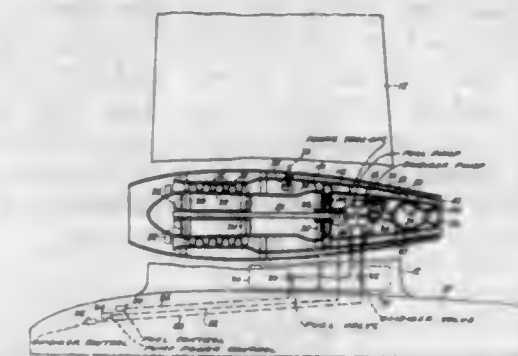


1. Apparatus for twisting together core yarn and cover yarn to form a twisted textile structure in which the core yarn forms a core in the interior of the twisted product with the cover yarn twisted therearound in a helical disposition, comprising a pair of rotating cylindrical drive rolls arranged in proximity to each other with their axes horizontal and parallel, both of said drive rolls being positively and synchronously driven, each of said drive rolls being divided longitudinally into a first section and a second section, which latter section has a cylindrical sleeve secured coaxially therearound to provide a cylindrical enlargement thereon so that the peripheral speed of the exterior surface of the sleeve is greater than that of the bare surfaces of the drive rolls, a first and a second cylindrical idler roll disposed with their axes parallel to said drive rolls and riding in the valley between said drive rolls and bearing thereagainst at said first section and said sleeves respectively, a source for supplying core yarn to the intake of the nip between the first idler roll and the first drive roll so as to be withdrawn from said source, a second source for supplying cover yarn to the nip between the second idler roll and the sleeve on said first drive roll so as to be withdrawn from said second source, said core and cover yarns being supplied from below the valley between said drive rolls into said nips and passing thence over the idler rolls respectively into the nip between the first idler roll and the second drive roll and into the nip between said sec-

2,713,243

## ROCKET AND TURBINE ENGINE COMBINATION FOR AIRCRAFT

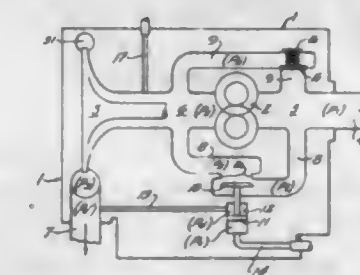
Elliott O. Seaver, Caldwell, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware  
Application October 23, 1946, Serial No. 705,141  
6 Claims. (Cl. 60-35.6)



1. In an aircraft, a gas turbine having a truncated tail cone over which turbine effluent flows, the small end of said truncated tail cone being open and directed rearwardly, and a rocket motor within said truncated tail cone and issuing its effluent through the rearward open small end thereof, said rocket motor having selectively operable liquid fuel and liquid oxidizer feed mechanisms driven by said gas turbine and disposed within said tail cone and forward of said rocket motor.

2,713,244

COMPOUND GEAR AND CENTRIFUGAL PUMP  
Milton E. Chandler, New Britain, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey  
Application December 20, 1951, Serial No. 262,530  
11 Claims. (Cl. 60-39.28)



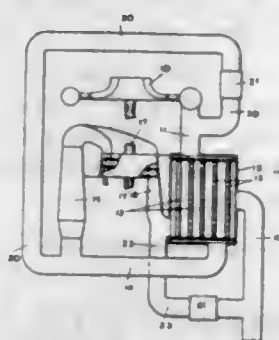
1. A rotary compound fuel pump for an internal combustion engine, comprising, in a single unit, a gear pump and a centrifugal pump arranged in series and driven through a common drive shaft by and in constant speed ratio with said engine, and means, responsive to a variable control pressure from said engine, for varying the discharge pressure of said compound pump in accordance with a preselected ratio between the discharge pressure and speed of said compound pump throughout the operating speed range of said engine.



2,713,245

**INTERNAL COMBUSTION TURBINE POWER PLANTS WITH REGENERATIVE EXHAUST TREATMENT SYSTEM**

John H. Weaving, Moseley, Birmingham, England, assignor to The Austin Motor Company Limited, Northfield, Birmingham, England  
Application November 24, 1952, Serial No. 322,186  
1 Claim. (Cl. 60—39.51)

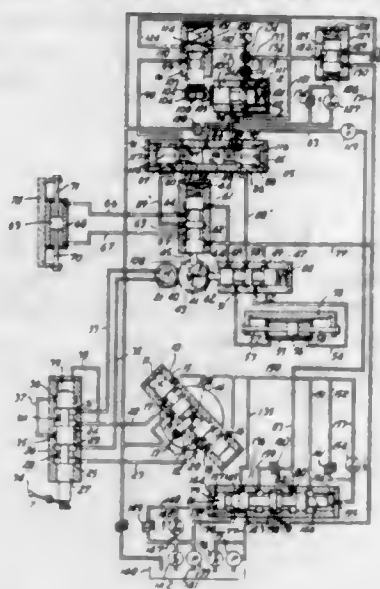


In an internal combustion turbine power plant of the type in which the turbine is required to operate under part load conditions for the majority of the running time, a heat exchanger system incorporating a heat exchanger having at least one side of the two sides thereof designed for reduced mass flow obtaining under said part load conditions, a duct adapted to by-pass said side of the heat exchanger and to carry any excess mass flow for which said side is not designed, a further duct conveying gas which has passed through the heat exchanger, a venturi nozzle outlet in said duct and a venturi throat in said further duct in which said nozzle is located.

2,713,246

**TRACER CONTROL MECHANISM HAVING INDEPENDENT RATE AND DIRECTION CONTROL**

Albert H. Dall, Cincinnati, and Hans Fritschl, Amberley Village, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio  
Application December 1, 1953, Serial No. 395,498  
15 Claims. (Cl. 60—97)

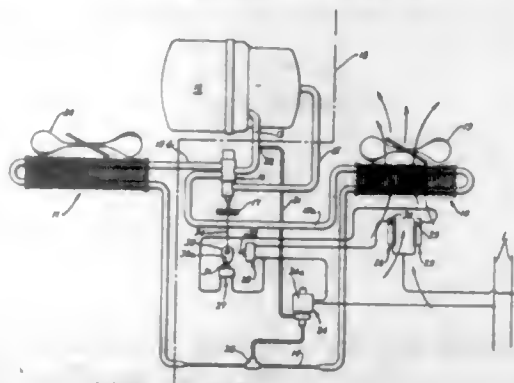


1. In a tracer control circuit for governing operation of hydraulic motors of a pattern controlled machine, the combination of a tracer valve having a neutral position, a first settable control means in said circuit for determining the proportional rate of operation of said motors and thereby a resultant feed rate, a second means in said circuit operative to reduce said resultant feed rate while maintaining proportional operation of said motors, and operative control connections connecting said tracer valve to each of said means to render said means sequentially operative upon movement of the tracer valve from its neutral position to cause said second-named means to become effective prior to said first-named means becoming effective.

2,713,247

**AIR CONDITIONING SYSTEM**

Matson C. Terry, Philadelphia, and William F. Kramer, Cheltenham, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania  
Application August 12, 1953, Serial No. 373,720  
3 Claims. (Cl. 62—3)

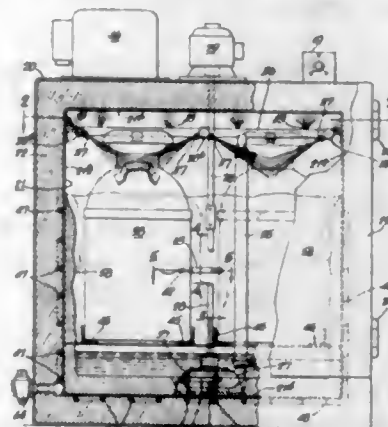


3. In reversible cycle refrigeration apparatus of the type comprising refrigerant compressing means, a pair of heat exchangers interconnected by an elongated capillary type flow restrictor, adjustable valve means, and conduit means connecting each of said heat exchangers to said compressing means through said valve means, said valve means providing for flow of gaseous refrigerant from the discharge side of said compressing means to either of said heat exchangers, selectively, and for return of expanded refrigerant from the other of said heat exchangers to said compressing means, the improvement which comprises: passage means connected with the discharge side of said compressing means to derive gaseous refrigerant from said discharge side prior to passage of said gaseous refrigerant through said valve means for delivery to said heat exchangers, said passage means also extending to and into connection with said capillary restrictor in a region intermediate the ends thereof; and means for controlling flow of gaseous refrigerant through said passage means.

2,713,248

**REFRIGERATION CABINET**

Harry E. Cann, Sr., and Merrill B. Cann, West Chester, Pa., assignors to Esco Cabinet Company, West Chester, Pa., a corporation of Pennsylvania  
Application June 11, 1952, Serial No. 292,894  
9 Claims. (Cl. 62—4)



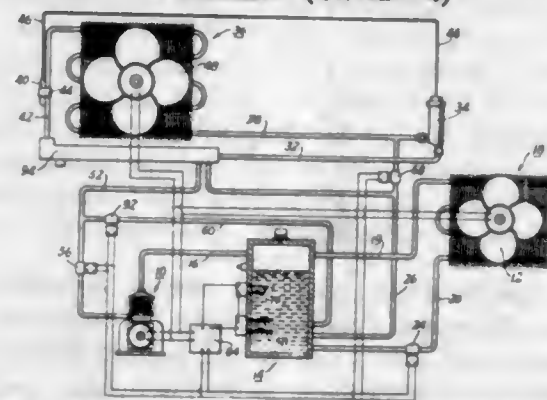
2. A refrigeration cabinet comprising a closed container having vertically extending wall portions and a bottom wall portion, said bottom wall portion including a sump for containing water, means for supporting objects to be cooled within said cabinet, means associated with said sump for impelling water from said sump to other portions of the interior of said container, said means including a conduit having outlets directed toward an upper part of a vertically extending wall portion to flush said wall portion, refrigerant circulating conduit means mounted in closely coupled freezing relation to said flushed wall portion to freeze liquid flushed thereover, and

means for passing refrigerating liquid through said refrigerant circulating conduit means to freeze liquid on said vertical wall portion, whereby water first flushed against said wall portion operates to remove into said sump ice previously formed against said wall portion, and water flushed against said wall portion in continued operation is frozen to form a fresh layer of ice against said vertical wall portion as the operation of cooling and flushing progresses toward completion.

2,713,249

**LIQUID DEFROSTING SYSTEM AND THE LIKE**

Fred J. Schordine, Patchogue, N. Y.  
Application April 13, 1953, Serial No. 348,277  
4 Claims. (Cl. 62—4)

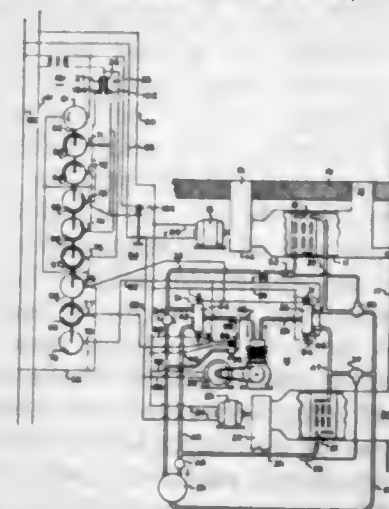


4. In a refrigeration system of the character described the combination of, a compressor, an evaporator, a condenser and receiver assembly comprising a receiver tank which is adapted to store condensed refrigerant and a coil which is connected solely to said tank and provides for heat transfer between the gaseous refrigerant and a cooling medium, means connecting said compressor to discharge compressed gas into said tank, means including restrictor means connecting the lower portion of said tank to said evaporator thereby to deliver liquid refrigerant from said tank at a reduced pressure to said evaporator, means connecting said evaporator with said compressor, means connected to said tank and including a normally closed valve which may be opened to connect the upper portion of said evaporator with said tank, by-pass means including a normally closed valve which may be opened to by-pass said restrictor means whereby hot refrigerant may flow directly from the lower portion of said tank to the lower portion of said evaporator, and control means to control the opening of said valves and to control the supplying of heat to refrigerant in said tank.

2,713,250

**CONTROL FOR REVERSIBLE REFRIGERATION SYSTEMS**

Clair W. Blatchford, Union, N. J., assignor to General Electric Company, a corporation of New York  
Application January 29, 1954, Serial No. 407,045  
5 Claims. (Cl. 62—4)



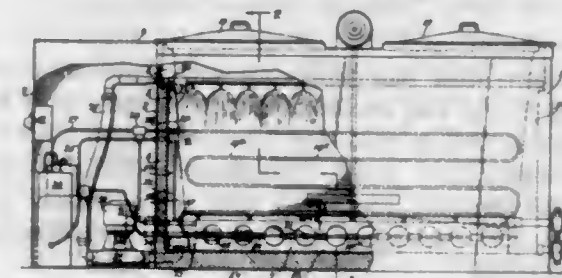
1. A reversible refrigerating system comprising a refrigerant circuit including a compressor, two heat ex-

changes, conduit means connecting said compressor and said heat exchangers including electrically operated changeover valve means for reversing the flow of refrigerant to said heat exchangers, and an electrical control system for controlling the operation of said system including a thermostat and a plurality of switches operated by a single switch motor and arranged automatically to operate said valve means during reversal of the operation of said system, said control system including a switch motor energizing circuit comprising a thermostatically operated switch adapted to complete said motor energizing circuit upon a call by said thermostat for reversal of said refrigerating system.

2,713,251

**BULK MILK COOLER**

Harry E. Cann, Sr., and Merrill B. Cann, West Chester, Pa., assignors to Esco Cabinet Company, West Chester, Pa., a corporation of Pennsylvania  
Application May 11, 1954, Serial No. 429,066  
7 Claims. (Cl. 62—4)



1. In a cooling apparatus for liquids, the combination comprising an open top cabinet having a wall portion surrounding the liquid-containing space to be cooled, a container for the liquid to be cooled mounted within said wall portion and having its peripheral wall portions closely surrounded by the peripheral wall of said cabinet and a top opening underlying the open top of said cabinet, a sump in said cabinet beneath the bottom wall of said container, means associated with said sump for impelling water from said sump to other portions of the interior of said container, said means including a conduit having outlets directed against an upper part of the interior of the wall portion of the cabinet to flush said wall portion, refrigerant circulating conduit means mounted in closely coupled freezing relation to said flushed wall portion to freeze liquid flushed thereover, and means for passing refrigerant through said refrigerant circulating conduit means to freeze liquid on said vertical wall portion, whereby water first flushed against said wall portion operates to remove into said sump ice previously formed against said wall portion, and water flushed against said wall portion in continued operation is frozen to form a fresh layer of ice against said vertical wall portion as the operation of cooling and flushing progresses toward completion.

2,713,252

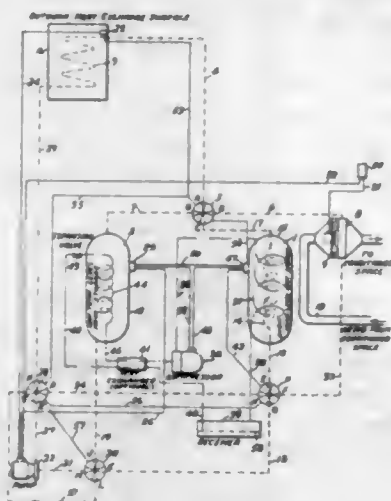
**TEMPERATURE CONTROL SYSTEM**

Thomas S. Jackson, Hopkinton, and John R. Swanton, Jr., Newton, Mass., assignors to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts  
Application May 7, 1952, Serial No. 286,536  
10 Claims. (Cl. 62—6)

1. A system comprising, in combination, a space to be temperature-conditioned, a first medium which is adapted to store and transfer heat and which is in fluid form, a separate second medium which is adapted to store heat and which has a transition point from liquid to solid phase and vice versa which is at least 10° F. above the desired temperature of said space and which passes through said transition point during normal operations of said system, a container in which said second medium is stored and confined, a compressible normally gaseous fluid, and a surface arranged to receive solar radiation,

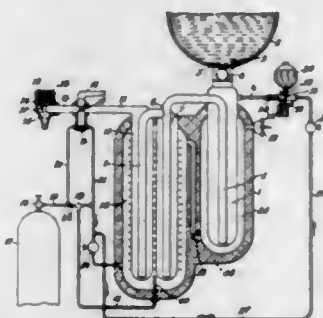


a compressor for compressing said gaseous fluid, conduit means for conveying said compressed gaseous fluid into out-of-contact heat exchange relation with said second medium, means for expanding said compressed gaseous fluid, conduit means for conveying said expanded gaseous fluid into out-of-contact heat exchange relation with said



first medium, and for returning said fluid thereafter to said compressor for recompression therein, and conduit means for directing said first medium from said surface into out-of-contact heat exchange relation with said space, said second medium, said compressed gaseous fluid, and said expanded gaseous fluid and thence back to said surface.

**2,713,253**  
**APPARATUS FOR MAKING ICE CREAM**  
Edward F. Chandler, Brooklyn, N. Y., assignor of one-third to Peter Fries, Jr., New York, N. Y.  
Application January 30, 1950, Serial No. 141,324  
1 Claim. (Cl. 62-114)



A device for producing cold food products in the nature of ice cream, frozen custard, chilled malt drinks, soft ice cream, and the like, comprising a housing having a first chamber formed therein, a source of cream mix including the ingredients of the product to be produced, first duct means connecting said cream mix source with said first chamber, first valve means disposed in said first duct means for regulating the flow of cream mix to said first chamber, a freezing chamber being formed in said housing, second duct means communicating between said first chamber and said freezing chamber, a source of liquid carbon dioxide gas, third duct means connecting said carbon dioxide source with said first chamber, second valve means disposed in said third duct means for regulating the flow of carbon dioxide to said first chamber, whereby, upon opening said first valve means a charge of said cream mix may be allowed to enter said first chamber, and whereby, upon opening said second valve means carbon dioxide under pressure is allowed to enter said first chamber and to agitate and whip said cream mix therein and to pressurize said first chamber, and whereby under the influence of said pressure from said gas, said whipped cream mix is forced through said second duct means and into said freezing chamber, fourth duct means connecting said source of liquid carbon dioxide with said freezing chamber, third valve means

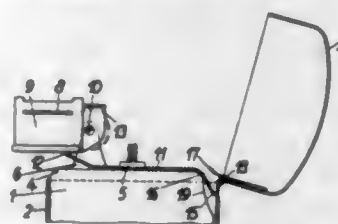
normally closed and disposed in said fourth duct means, whereby, upon opening said third valve means, the resultant flow of carbon dioxide into said freezing chamber and its expansion therein reduces the temperature of said whipped mix therein sufficiently to produce the desired food product, and normally closed dispensing means connected to said freezing chamber for dispensing the cold food product therefrom.

**2,713,254**  
**YARN HOLDER AND CUTTERS**  
Clarence Webb Minton, Nashville, Tenn.  
Application February 12, 1953, Serial No. 336,551  
7 Claims. (Cl. 66-145)



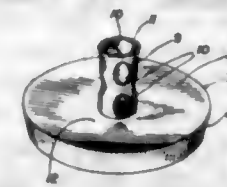
7. The combination with the needle cylinder of a knitting machine and feeding means for supplying yarn to the needles of said cylinder, of a yarn-gripping and cutting device comprising a guide-plate for attachment adjacent said needle cylinder and having oppositely disposed yarn-guiding slots therein with portions for guiding yarn into said slots, a rotary cutter mounted transversely of the axis of said needle cylinder in close proximity to said slots whereby yarn travelling in said slots will be cut.

**2,713,255**  
**CIGAR LIGHTER**  
Emil Hübel, Vienna, Austria, assignor to Arthur Dubsky, Elmhurst, N. Y.  
Application January 24, 1951, Serial No. 207,479  
2 Claims. (Cl. 67-7.1)



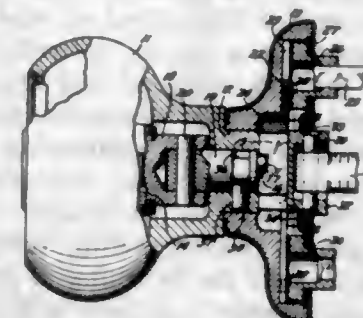
2. In a lighter, the combination of a first two-armed lever, one arm of which constitutes a cover, a second two-armed lever, one arm of which constitutes a windshield jacket, separate pivot means connecting said two levers, respectively, to the top of the lighter, a wick holder connected to the top of the lighter between said two pivot means, said windshield jacket being movable into an operative position in which it surrounds the wick holder, said lighter being formed at its top with a recess between said wick holder and the pivot means for said first lever, the second arm of said first lever extending into said recess in the closed position of the cover, and a leaf spring having a central portion rigidly fixed to the top of the lighter by said wick holder, said spring further having two resilient end portions, one of which is bent upwardly from the top of the lighter to resiliently engage the second arm of said second lever in the operative position of the windshield jacket, whereas the other resilient end portion of said spring is bent downwardly into said recess to resiliently engage under initial stress said second arm of said first lever in the closed position of the cover and being disengaged from the cover arm of said first lever in the closed position thereof, said second arms of said levers and said end portions of the spring being arranged for an engagement of the end portions by said arms on the side of the spring facing off the top of the lighter.

**2,713,256**  
**VOTIVE CANDLE**  
Frank Dwight Oesterle, West Englewood, N. J., and Laurier Baillargeon, St. Constant, Quebec, Canada  
Application May 27, 1954, Serial No. 432,848  
4 Claims. (Cl. 67-21)



2. In a votive candle, in combination, a container, a body of fuel adapted to be disposed in said container, a wick in said body, the base of said body having a deep annular recess to define a body projection extending from the bottom of said recess and containing a part of said wick, and a plate member adapted to be disposed in the bottom of the container and having an upstanding tubular projection adapted to engage said body recess and surround said body projection, said tubular projection having lateral openings for admission of combustion air.

**2,713,257**  
**LOCK MECHANISM**  
Frank J. McConnell and Irving J. Fletcher, New Britain, Conn., assignors to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut  
Application July 13, 1949, Serial No. 104,422  
5 Claims. (Cl. 70-224)



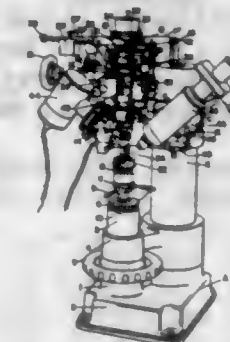
2. In a device of the character indicated, a knob including a shank having a bore therein, a rose having a bore in which said shank is journaled, a cylinder lock including a plug rotatable in said shank bore and having a peripheral groove in a generally radial plane passing through said rose bore, and pin means generally radially slidably carried in said shank and projecting into said groove, the sliding movement of said pin means being limited at one end by the bottom of said groove and at the other end by said rose bore.

**2,713,258**  
**HYDROMETER OR BEVERAGE TESTERS**  
Charles Emmet Walton, New York, N. Y.  
Application September 15, 1949, Serial No. 115,830  
5 Claims. (Cl. 73-33)



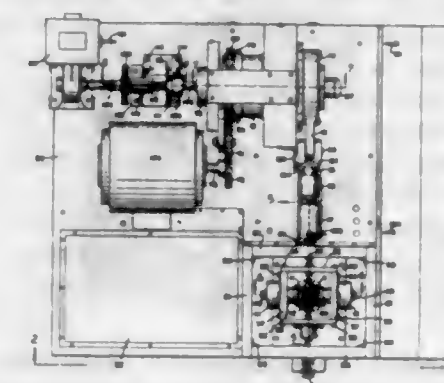
1. A tester comprising an elongated tubular float body having a ballast secured at its lower end; a cap secured on the upper end of the body and having an axial cylindrical opening therein; an elongated indicator slidably received in said opening with an easy friction fit; said indicator being adapted to telescope within the body thereby to reduce the over-all length of tester.

**2,713,259**  
**APPARATUS FOR TESTING THE HARDNESS OF MATERIALS**  
Paul Grodzinski, London, Frederick Arthur Beard, Peterborough, and Werner Stern, Wembley Park, England  
Application December 21, 1949, Serial No. 134,197  
11 Claims. (Cl. 73-81)



1. Apparatus for testing the hardness of materials comprising a holder for receiving a specimen for testing, an axially movable shaft disposed above said holder with its axis extending perpendicular to the surface of the specimen which is to be tested, an indenter mounted on said shaft and facing said specimen surface, said indenter element having a curved operative edge, facing said specimen, means for axially moving said shaft to cause said indenter to make an indentation in said specimen and to thereafter retract said shaft and said indenter while said specimen remains in test position, a light source disposed alongside said shaft on one side thereof for projecting a beam of light upon the surface of said specimen at an angle which is less than 90° to the axis of said shaft and said indenter, an optical unit including an objective disposed above said specimen alongside said shaft in a position for viewing the surface from a point opposite said light source with its longitudinal axis extending also at an angle which is less than 90° to the axis of said shaft and said indenter, the angle between the axis of said light source and that of said objective being less than 180°, and means for axially moving the objective of said optical unit after retraction of said indenter into close proximity of the indented surface of said specimen for microscopic inspection thereof under the illumination of said light source.

**2,713,260**  
**APPARATUS FOR TESTING ELASTOMERIC MATERIALS**  
Irven B. Prettyman and Frank S. Grover, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
Application March 16, 1953, Serial No. 342,576  
17 Claims. (Cl. 73-101)



1. Apparatus for testing rubber specimens for energy loss due to applied stress, including means for holding a rubber specimen under static compression, adjustable-stroke reciprocating means connected to the specimen for flexing said specimen in shear at right angles to the force of static compression, means for driving the reciprocating means, load cell means connected to said specimen for measuring the shear stress amplitude therein, and means



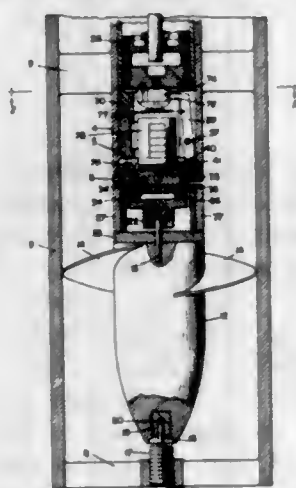
operatively connected with said load cell means for automatically adjusting the stroke of said reciprocating means during operation in accordance with variations in shear stress within said specimen for continuously maintaining constant shear stress amplitude therein.

2,713,261

## SELF-CONTAINED FLOWMETER

Gilbert J. Butterworth, Chester, and Stephen W. Gurasich, Springfield, Pa., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware

Application October 2, 1951, Serial No. 249,332  
4 Claims. (Cl. 73-155)



1. A flowmeter for determining the rate of flow of liquid through a well bore hole comprising a housing adapted to be lowered into the bore hole, an impeller, means for rotatably mounting said impeller externally of said housing in a position to be rotated by liquid flowing longitudinally through the bore hole, rotatable means within said housing, means coupling said impeller with said rotatable means, timing means within said housing, actuating means driven by said timing means, means within said housing driven by said rotatable means for registering the number of rotations of said rotatable means, and means including a member responsive to said actuating means adapted to engage and arrest rotation of said rotatable means, said member acting in response to rotation of said actuating means by said timing means to free said rotatable means for rotation only during a predetermined time interval.

2,713,262

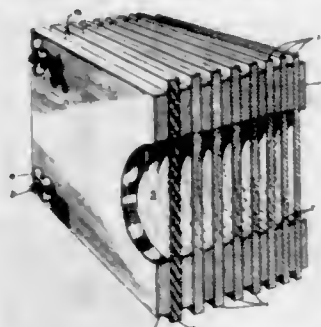
## METHOD AND APPARATUS FOR TESTING ARMOR PLATE

Andrew P. Webster, United States Navy

Application July 12, 1950, Serial No. 173,462

9 Claims. (Cl. 73-167)

(Granted under Title 35, U. S. Code (1952), sec. 266)



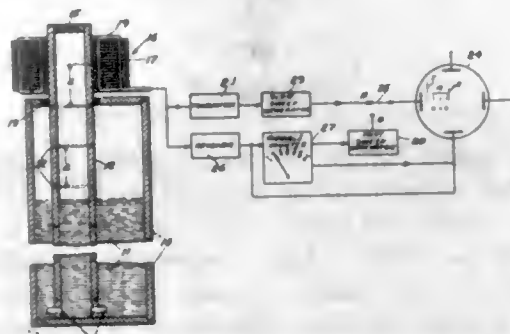
1. In apparatus for testing armor plate with a projectile to determine the penetration resistance value of the armor plate to the projectile, a plurality of centrally apertured frame members, means connecting said frame members in facing relationship with their central apertures in substantial registration, a test sample armor plate disposed between an end frame member and the next frame member, and a plurality of standard plates disposed between consecutive frame members from said next frame member.

2,713,263

## ULLAGE MEASURING DEVICES

Edwin E. Turner, West Roxbury, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 7, 1952, Serial No. 297,589  
12 Claims. (Cl. 73-290)



1. An ullage indicating device comprising a vessel adapted to contain a fluid medium, an elongated member positioned within said vessel and having a plurality of equally-spaced discontinuities formed therein, a transducer mounted at one end of said member, a source of electrical energy connected to said transducer for producing compressional wave vibrations in said member which propagate along said member toward the other end thereof, said transducer being adapted to convert said vibrations into electrical impulses after reflection from the surface of said fluid medium and from said discontinuities, means for receiving said electrical impulses, a slow-sweep generator, an indicator responsive to said received impulses and to the output of said slow-sweep generator for producing a visual presentation of said received impulses thereon, those of said impulses resulting from reflections from said discontinuities appearing as a series of accurately spaced calibration markers on said indicator for indicating the approximate ullage of said vessel corresponding to the position on said indicator of said impulses resulting from reflections from said fluid surface, means for counting a predetermined number of said calibration markers and a fast-sweep generator responsive to the output of said counting means for initiating an expanded sweep which provides a vernier indication of the ullage of said vessel.

2,713,264

## WATER GAUGE TANK UNIT

William D. Howell, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 17, 1951, Serial No. 251,769  
4 Claims. (Cl. 73-317)



1. A liquid level gauge for use in a liquid container having a plurality of walls, said gauge comprising a bracket, said bracket being adapted to be disposed inside of said container substantially normal to one of the walls, the opposite ends of said bracket being laterally bent to form flanges remote from each other, one of said flanges abutting said wall and having an opening therein registering with a similar opening in said wall, an upper bearing member disposed in said registering openings for securing said first flange to said wall, a rod rotatably disposed in said upper bearing member, said rod

having the inner end thereof rotatably supported by said second flange and the outer end thereof projecting from said container, actuating means supported by said bracket and coupled to said rod for positioning said rod responsive to the level of the liquid in said container, said upper bearing member having a tubular extension substantially concentric with said rod, a tubular member secured to said rod for rotation therewith, and a fluid proof flexible sleeve surrounding said rod in spaced relation, said sleeve having an inside diameter larger than said rod but less than the outside diameter of said tubular member and said tubular extension, one end of said sleeve being expanded and positioned on said tubular extension so as to tightly grip said extension, the other end of said sleeve being expanded and positioned on said tubular member so as to tightly grip said tubular member and thereby prevent moisture from coming into contact with said rod.

2,713,265

## THERMOMETER

Anthony H. Lamb, Hillside, and Earl R. Kebbon, Chatham, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application May 11, 1951, Serial No. 225,792  
1 Claim. (Cl. 73-340)



A dual element thermometer of the bimetallic type comprising a cup-like casing; a transparent cover closing the casing; a tubular shell extending centrally from the rear of the casing, said shell having a plug closing one end and the other end communicating with the interior of the casing; a bushing fixed within the shell intermediate the ends thereof, said bushing including an axial hole; a first helical coil of bimetallic material in said shell on one side of said bushing, said coil having one end secured to the said bushing; a hollow shaft rotatably mounted in said shell, said shaft having one end secured to the other end of the first said coil and having its other end extending into the casing; a scale plate carrying a scale of temperature values disposed within said casing and secured to the said other end of the said hollow shaft, said scale plate including a central opening; a second helical coil of bimetallic material in said shell on the other side of said bushing; said second helical coil having one end secured to the plug; a staff secured to the other end of the said second coil and extending rotatably through the hollow bushing and through the opening in the scale plate; and a pointer secured to the other end of the staff and cooperating with the scale of temperature values on the scale plate.

2,713,266

## DIFFERENTIAL ALTIMETER

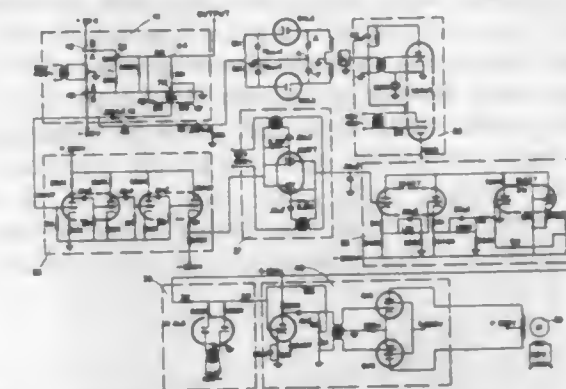
Robert E. Smith, Downey, John M. Wuerth and Robert Bruce Horsfall, Jr., Whittier, Sydney J. Goldberg, Los Angeles, and Theodore N. Leine, Inglewood, Calif., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application August 26, 1950, Serial No. 181,594  
9 Claims. (Cl. 73-386)

1. Means for measuring changes in pressure altitude comprising a gas tight container open to static air pressure,

696 O. G.—22

a bellows within said container, a pickoff for generating an electrical signal responsive to movement of said bellows, valve means for admitting static air pressure to said bellows, heat absorbent material having a high ratio of surface area to volume within said bellows, and com-



pressor means responsive to said electrical signal for changing the pressure within said bellows isothermally to equal the pressure between said bellows and said container when said valve is closed whereby the change in the volume of said bellows is a measure of changes in pressure altitude to which said container is subjected.

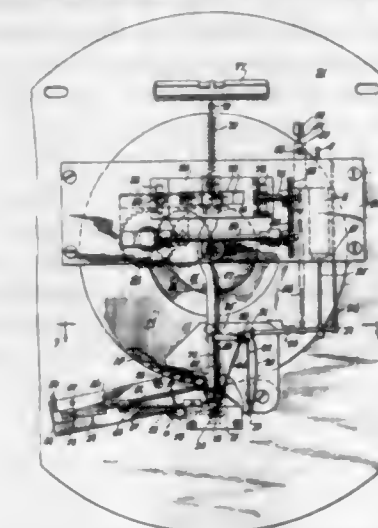
2,713,267

## PRESSURE TOTALIZING APPARATUS

Charles F. Wallace, Westfield, N. J., assignor to Wallace & Tiernan Incorporated, a corporation of Delaware

Application June 8, 1951, Serial No. 230,641

16 Claims. (Cl. 73-388)



1. Apparatus for totalizing values of fluid pressure, comprising a turbine wheel; means for determining the rate of rotation of said turbine wheel in proportion to the value of said pressure, comprising means including a movable nozzle for directing a stream of fluid against said turbine wheel to rotate it, means for moving said nozzle to change the angle between the stream and the wheel to adjust said rate of rotation, expansible chamber means for receiving said pressure, linkage means actuated by said expansible chamber means for causing said moving means to adjust said rate of rotation, and magnetic drag means responsive to said rate of rotation for arresting said adjustment at a predetermined rate of rotation; and translating means responsive to the number of revolutions of said turbine wheel.

2,713,268

## LIQUID SAMPLER

Robert M. Langsenkamp, Indianapolis, Ind.

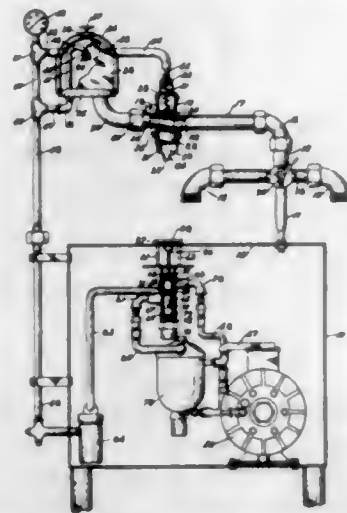
Application October 11, 1952, Serial No. 314,296

1 Claim. (Cl. 73-422)

A liquid sampling system comprising a sample receiving vessel supporting table; sources of hyper and hypo atmospheric air pressures; a sample valve having a chamber therein receiving and measuring liquid, the valve being



shiftable in response to application thereto of said pressures; an air flow control valve having an operating member connected to said table to be shiftable therewith; means normally biasing the table to an upper position; a line conveying liquid to be tested to said sample measuring valve; separate lines interconnecting each of said pressure sources to said control valve; a line interconnecting said control valve and said sample measuring valve; said measuring valve having a sample discharge over said table; said control valve by means of said table biasing, normally interconnecting said hyper air pressure line through the control valve with said control valve-to-measuring valve line and maintaining said measuring valve by means of said hyper atmospheric pressure in a

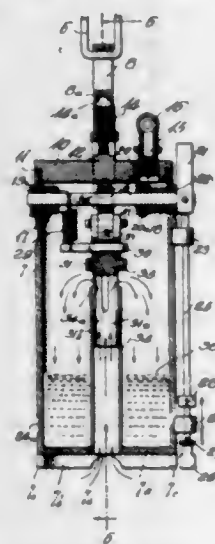


sample non-receiving and discharging condition; manual depression of the table operating the control valve closing off said hyper air pressure connection and connecting the hypo atmospheric air pressure line with said sample measuring valve, resetting the sample valve to a sample receiving and non-discharging condition and establishing connection through the sample valve with said liquid conveying line; and removal of manual pressure on said table subjecting said control valve to said table biasing action and restoring the super atmospheric pressure to said sample valve causing that valve to shift and discharge the measured liquid therein through its said discharge into a vessel on said table and be in its normal sample non-receiving condition.

2,713,269

**FLUID SAMPLING AND TESTING EQUIPMENT**  
Clifford H. Neer, Pikesville, Md., assignor to Maryland Engineering Company, Pikesville, Md., a copartnership consisting of William F. McBride and Ruth D. S. McBride

Application June 8, 1954, Serial No. 435,152  
6 Claims. (Cl. 73-425.4)



1. Apparatus for sampling fluid from a main body of fluid confined in an enclosed ported tank comprising: a

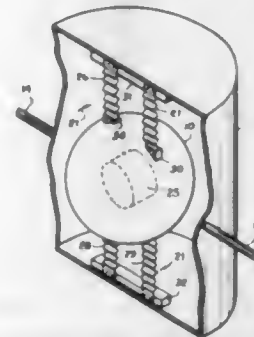
receptacle adapted to be pendently suspended and introduced into a ported tank, said receptacle being sealable and adapted to be evacuated and having a vertically movable actuating rod mounted on the exterior thereof, the lower end of said rod normally extending below the bottom periphery of said receptacle and adapted to be forced upwardly when said receptacle contacts the bottom of the tank, the upper end of said rod being movable adjacent the upper end of said receptacle, a laterally extending shaft journaled adjacent the upper end of said receptacle and projecting exteriorly beyond one side thereof, an actuating lever mounted externally on said shaft and projecting into the path of the upper end of said actuating rod whereby said lever is subjected to an angular rotative movement when the lower end of said actuating rod strikes the bottom of the tank, a fluid intake pipe mounted axially within said receptacle and terminating in a fluid discharge orifice, and valve mechanism interposed between said fluid discharge orifice and said shaft and controlled by the angular movement of said shaft, and means for evacuating the interior of said receptacle.

2,713,270

**SUSPENSION FOR GYROSCOPE**

Wendell D. Jewell, Lynbrook, N. Y., assignor to American Bosch Arma Corporation, a corporation of New York

Application December 11, 1953, Serial No. 397,713  
4 Claims. (Cl. 74-5.4)



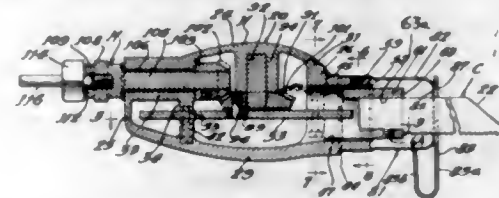
1. In a device of the character described, a housing, a gyroscope in said housing, means connecting said gyroscope to said housing for applying torques to said gyroscope upon relative displacement of said housing and gyroscope, said means comprising oppositely disposed pairs of spaced parallel corrugated tapes connected to the housing and gyroscope.

2,713,271

**MOTION CONVERTING MEANS**

Carl Dodgege, Maywood, Ill., assignor, by mesne assignments, to Mail Tool Company, Chicago, Ill., a corporation of Illinois

Application July 17, 1951, Serial No. 237,194  
4 Claims. (Cl. 74-50)



1. In an attachment for hand drills and the like for driving a reciprocating hand tool member, an elongated housing including a removable bottom wall having a portion projecting outwardly from said housing, rotatable drive means mounted in said housing and including a coupling member for operatively connecting said means to such a drill for rotation by the latter, a slide operatively connected to said drive means and movably mounted in said housing in alignment with said portion of said bottom wall for reciprocation by said drive means inwardly and outwardly relative to said housing

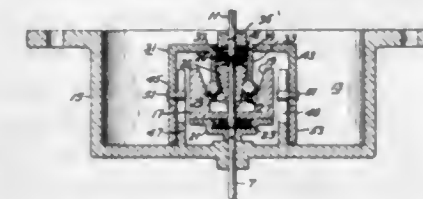
during such rotation of said drive means, means including said outwardly projecting portion of said bottom wall for supporting such a hand tool member, and means slidably mounted in said portion for operatively connecting said hand tool member to said slide for reciprocation by the latter relative to said housing and to said portion of said bottom wall upon said reciprocation of said slide by said drive means.

2,713,272

**TEMPERATURE COMPENSATING COUPLING FOR LIQUID METERS**

Albert J. Granberg, Oakland, Calif.

Application November 16, 1953, Serial No. 392,095  
5 Claims. (Cl. 74-190.5)



1. A temperature compensator coupling for coupling a liquid meter shaft and a counter shaft in a rotational speed relationship which will vary with temperature, comprising a speed-change drive assembly connecting said liquid meter shaft to said counter shaft, said drive assembly including a cone ring element having an internal conical surface, a cone collar element having an external conical surface paralleling that of said cone ring, one of said cone drive elements being fixedly mounted on said meter shaft and the other of said cone drive elements being slidably mounted on said counter shaft, a plurality of balls, and means for adjustably supporting a ring of said balls between said surfaces, said means involving a retainer having a cylindrical portion disposed between said conical surfaces and a skirt encircling said cone ring element, said cylindrical portion having openings therein, each sufficient to retain a ball and permit lateral movement of said ball therein, and said skirt having a saw-tooth shaped appendage depending therefrom, and means maintaining said cone drive elements and said balls in continuous pressure engagement; means restricting movement of said retainer to a linear movement only, said means including a fixed wall adjacent said skirt and having slots at diametrically opposed points thereof and pins anchored in said skirt and extending into said slots; cam means adapted when actuated, to produce linear movement of said retainer, said cam means including a cylindrical cam wall rotatably supported in edge to edge relationship to said skirt, said cam wall having a complementary notch in the edge thereof facing said saw-tooth appendage to receive the same, said notched wall normally occupying a position with said saw-tooth appendage at an intermediate position in said notch; means responsive to changes in temperature for angularly rotating said cam wall in accordance with the extent and direction of temperature change to produce corresponding linear movement of said retainer whereby to alter the speed change ratio of said drive assembly; and means for adjusting the extent of said angular rotation for a given change in temperature to adapt the meter for the metering of liquids of different specific gravity and coefficient of expansion.

2,713,273

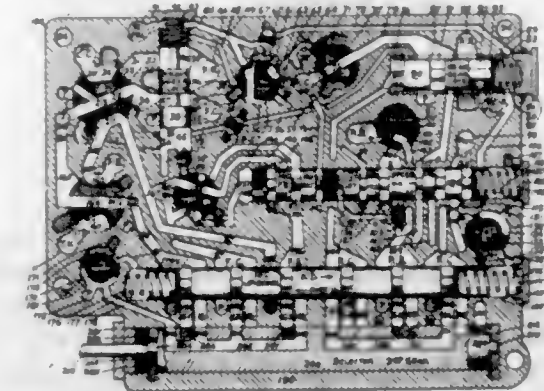
**POWER TRANSMISSION**

Richard Henry Ebsworth, Laguna Beach, Calif.

Application August 26, 1952, Serial No. 306,357  
35 Claims. (Cl. 74-472)

1. In a power transmission, in combination; a drive shaft and a driven shaft; a source of fluid pressure; a planetary gear assembly serving to provide a reduced

drive between said shafts; a connection from said drive shaft to a member of said assembly; a connection from said driven shaft to another member of said assembly; a brake and a brake drum; a connection from said drum to a third member of said assembly; spring means in association with said brake; hydraulic mechanism in association with said brake; a clutch serving to connect two members of said assembly and to furnish unitary rotation between said shafts; spring means biasing said clutch to engagement; hydraulic mechanism serving for the re-



lease of said clutch; a valve serving to provide hydraulic pressure and drainage for the operation of said hydraulic mechanisms; spring means biasing said valve to a normal position; a dashpot fitted with controlled outlet and serving to regulate the movement of said valve when actuated by the latter said spring means; a manually controlled conduit connected to said dashpot and serving to supply pressure to move said valve away from said normal position; a second dashpot having a manually controlled outlet and serving to regulate the movement of said valve away from said normal position.

2,713,274

**FISHING REEL DRIVE**

Lawrence W. Lockwood, Spokane, Wash.

Application February 16, 1953, Serial No. 336,963  
5 Claims. (Cl. 74-750)

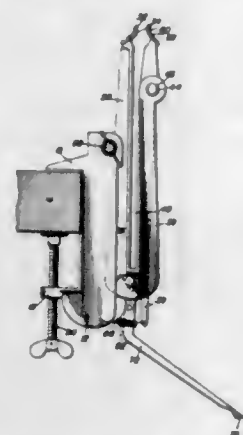


1. In a fishing reel having a spool, a drive comprising a central shaft for driving the spool of the reel; a manually operated crank carried by said reel; a pinion fixed on said shaft; a resiliently biased dog pivotally carried by said crank and engaging said pinion, whereby rotation of the crank in one direction drives said shaft; an even number train of idler gears carried by the crank and having an end one meshing with said pinion; a drive gear meshing with the end one of said train opposed to the pinion; a hand knob journaled on said crank; and manually operated means for selectively engaging and disengaging said knob and said drive gear.



2,713,275  
SAW VISE

John E. Gregston, Tyler, Tex.  
Application August 25, 1953, Serial No. 376,355  
5 Claims. (Cl. 76-78)

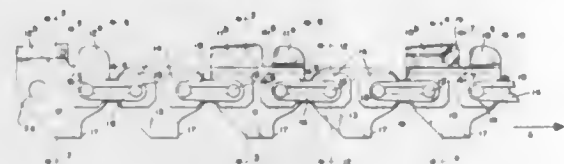


1. A saw vise comprising an elongate support member having an upper end and a lower end, said member embodying two furcations joined at the lower end of the member and one being longer than the other, a jaw fixed to the upper end of the longer furcation, an elongate jaw leg in juxtaposed relation with the short furcation and having an upper end portion extending beyond the upper end of the short furcation, a jaw carried by the upper end of said leg for coaction with the fixed jaw, a pivot between the upper end of the short furcation and the leg, means for securing the support member in working position, spring means connected between the lower end of said leg and an element fixed relative to the leg to swing the leg in a direction to open the jaws, and means for actuating the leg to jaw closed position comprising an elongate arm having an angled end portion, means pivoting the angled end portion to the lower end of the support member on the side of the arm nearest to the longer furcation, and a thrust means carried by said angled end portion inwardly of the said pivot means, said arm having a lowered position in which the thrust means lies below the pivot means and a jaw closed raised position where the thrust means lies above the pivot means and said thrust means being spaced from the pivot means whereby it will engage and force the lower end of the adjacent arm in a direction to close the jaws against the resistance of said spring means in the pivoting of the arm from said lowered position to said raised position.

2,713,276

SAW CHAIN TOOTH

Harry E. Siverson, Portland, Oreg.  
Application January 18, 1954, Serial No. 404,477  
3 Claims. (Cl. 76-112)



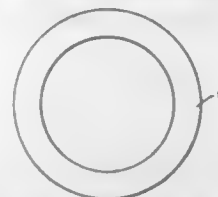
1. The improved method of making a saw chain tooth link, which method includes forming a blank in the general overall size and pattern desired for the tooth link but with the longitudinal edge of the cutting portion extended beyond the desired size, folding said extended portion over on itself, subjecting the folded-over and underlying portions to unifying pressure and deforming them into proper working position relative to the body of the tooth link, and finally grinding the forward end of the folded-over and underlying portions to form a cutting face extending obliquely rearwardly with respect to the direction of travel of the tooth when in operation.

2,713,277

METHOD OF COLD FORMING RING GEARS

Ben Kaul, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York

Application September 2, 1950, Serial No. 182,966  
2 Claims. (Cl. 78-45)

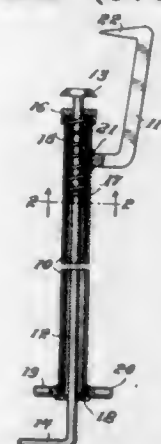


1. The method of cold working a ring-like steel blank without metal loss to form a bevel ring gear including the steps of providing a steel ring blank having a rectangular shape in radial cross section and having axially extending grain flow lines, laterally confining and inwardly directing movement of the metal in the lower annular region of the blank; axially compressing and enlarging the inner and outer diameters of the upper annular region of the blank; then further axially compressing while laterally confining the enlarged diameter metal in the upper annular region of the blank to displace metal and form gear tooth valleys downward in the upper region of the blank and to displace other metal in the blank inward in the lower region of the blank to form an intumed web flange, thereby axially endwise compressing and laterally squeezing said grain flow lines to provide gear teeth having uncut, bent, generally axially extending grain flow lines therein.

2,713,278

AUTO FORCIBLE ENTRY TOOL

Maurice F. Stump, Salem, Va.  
Application September 19, 1952, Serial No. 310,410  
2 Claims. (Cl. 81-3)



1. A motor vehicle door opening tool comprising an elongated tubular member having a prong extended at one end and a handle at the opposite end, a stem slidably mounted in the member and extended longitudinally therethrough, said stem having an end extended from the member and positioned to engage the motor vehicle door when said prong is used to engage an edge of said door, said stem having a handle attached to the opposite end, the handles being in opposed relation to each other whereby they can be grasped by one hand of an operator, and a spring in the tubular member and positioned to urge the stem inwardly of the end of the member to move the end adjacent the prong away from the prong.

2,713,279

LUG STAKING TOOL

Carl H. Harris, Battle Creek, Mich., assignor to H. B. Sherman Manufacturing Co., Battle Creek, Mich., a corporation of Michigan

Application January 21, 1953, Serial No. 332,240  
2 Claims. (Cl. 81-15)

1. A lug staking tool comprising a bed having a bight portion and a pair of parallel spaced apart leg portions

projecting therefrom, a piston mounted in one of said leg portions for reciprocal movement parallel to the bight portion of said bed, a plunger mounted in the other of said leg portions for reciprocal movement parallel to the bight portion of said bed, the axes of said piston and said plunger coinciding, a lug receiving nest secured to the end of said plunger which faces said piston, means for locating said nest in one of a plurality of axial positions whereby the distance between said piston and said nest may be varied for accommodating lugs of various diameters, said means comprising a barrel mounted on said plunger intermediate said nest and said other leg portion of said bed, said barrel having steps about the periphery thereof of varying axial depth, said nest having an axially rearwardly

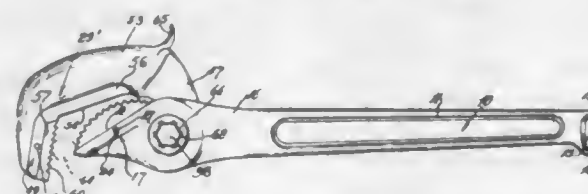


extending blade which is adapted to be received in one of said steps in said barrel, spring means for normally biasing said blade toward said barrel, said plunger being adapted to be moved axially to withdraw said blade from said steps of said barrel after which the latter may be rotated to align any step of the desired depth with the blade whereupon the plunger may be released for permitting the blade to engage the selected step thus setting the nest in a predetermined axial position, a pair of arm members pivotally mounted to said bed and having connection with said piston, and said arm members being manually operable for effecting movement of said piston toward and away from said nest whereby a lug may be staked between said piston and said nest.

2,713,280

AUTOMATIC SELF-CLOSING WRENCH

John V. Larson, Chicago, Ill.  
Application November 16, 1951, Serial No. 256,650  
2 Claims. (Cl. 81-99)



2. A hand tool comprising an elongated handle member, a fixed jaw formed on said handle member, a movable jaw pivoted to said handle member in confronting relation with said fixed jaw, a pivot pin extending through said movable jaw and handle member to pivotally mount said movable jaw on a fixed axis, a boss on said movable jaw surrounding said pivot pin, said boss having radial slots therein, and a spiral spring surrounding said boss to normally urge said movable jaw toward said fixed jaw, an offset on an inner end of said spring being anchored in one of the radial slots in said boss, and an offset on an outer extremity of said spring being anchored to said fixed jaw.

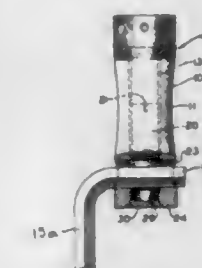
2,713,281

HEXAGONAL BAR WRENCH ADAPTER

Charles A. Poteet, Campbell, Calif.  
Application June 7, 1954, Serial No. 434,804  
4 Claims. (Cl. 81-177)

1. An adapter for holding hexagonal L-shaped wrenches of different diameters comprising a cylindrical body having a threaded axial bore extending inwardly from one end thereof, and having a non-circular socket of smaller diameter than the threaded bore extending

coaxially through the remainder of the body beyond the threaded bore, a chordal face formed on a side of the body at the threaded bore end thereof, said body having a hole of small diameter extending diametrically there-through to receive therein a hexagonal wrench up to a predetermined maximum diameter, said hole penetrating said chordal face, a threaded closure plug secured in said threaded bore end with the inner end of said plug flush

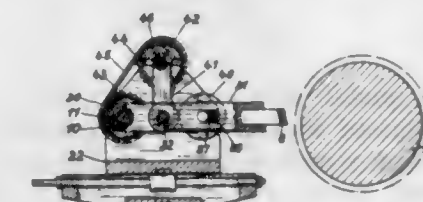


with the small wrench-receiving hole in the body, said body having a second wrench-receiving hole extending diametrically through the body at right angles to the axis of the small diameter hole and being offset axially therefrom, said second wrench-receiving hole being of larger diameter than said first wrench-receiving hole to receive therein a hexagonal wrench of predetermined larger maximum diameter for manipulation thereby.

2,713,282

NIBBLING CUT

Karl Heinrich Burgsmüller, Krelensen am Harz, Niedersachsen, Germany, assignor to Gomerue Establishment, Vaduz, Liechtenstein  
Application July 25, 1951, Serial No. 238,501  
2 Claims. (Cl. 82-1)



1. An apparatus for machining the surface of cylindrical workpieces, comprising a chuck, a tool holder, consisting of two parts, a pin for jointly connecting the two parts, the tool holder part facing away from the workpiece comprising an oscillating cam drive adapted to move the tool holder in a radial direction to the axis of the workpiece, and the second tool holder part comprising an oscillating crank drive adapted to reciprocate the tool holder with the tool in a traverse direction to the axis of the workpiece and a third oscillating cam drive acting upon the pin joint of the two tool holder parts and serving to direct the tool to follow the peripheral line of the workpiece during the curved cutting course of the tool.

2,713,283

MACHINE TOOL

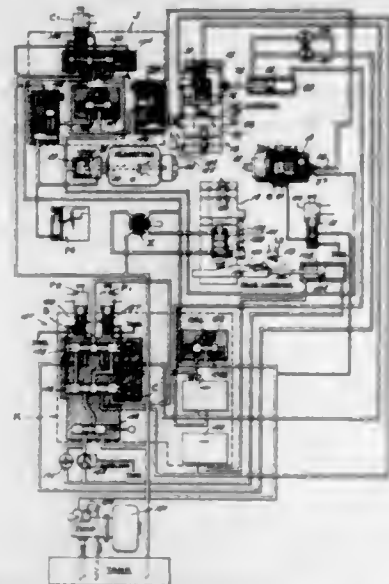
Edmund J. Lomazzo, Norwalk, Conn., assignor to The Hydra-Feed Machine Tool Corporation, a corporation of Connecticut

Application May 18, 1946, Serial No. 670,794  
9 Claims. (Cl. 82-21)

1. In a machine tool, tool carrying members movable through a cutting and return cycle; and hydraulic means including a single source of fluid under pressure, a piston and cylinder means for each member, means connecting said cylinders in series with said source during the entire simultaneous cutting stroke of said members, and means connecting each of said cylinders independently to said source during the entire return stroke of each



member for moving one of said members in response to movement of the other member during the cutting strokes

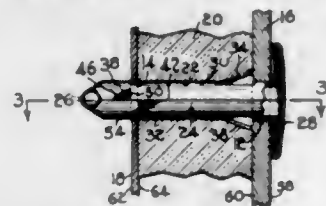


thereof and for moving the members independently of each other during the return stroke.

2,713,284

## SPACED PANEL FASTENING DEVICE

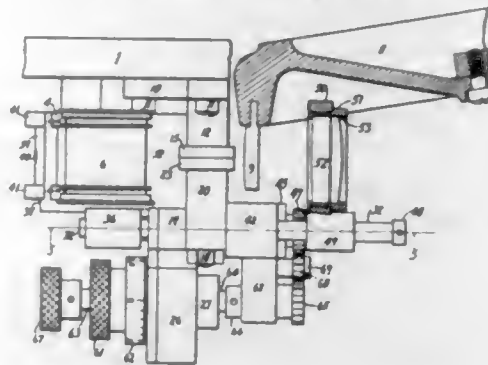
William A. Bedford, Jr., North Scituate, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Boston, Mass., a corporation of Delaware  
Application May 19, 1950, Serial No. 163,009  
2 Claims. (Cl. 85—5)



1. A sheet metal fastening device for assembly in aligned openings of spaced panels comprising: a tubular shank formed of a pair of opposed transversely concave elongated sheet metal sections joined at their entering ends by an imperforate nose, integral leg members extending radially outwardly of said shank at the end thereof opposite the nose, an enlarged head covering the end of said shank opposite the nose and including a peripheral flange extending around the outer ends of said leg members and providing a continuous annular planar surface for sealing engagement with a panel surface, the marginal side edges of said elongated sections being in edge-to-edge abutting substantially waterproof engagement throughout substantially their lengths to provide a closed cylindrical shank having a pointed nose end and a shank wall of a single thickness of sheet metal, outwardly bent generally triangular support-engaging tabs on said shank adjacent the nose, adjacent inclined edges of said tabs comprising the marginal edges of axially spaced slits extending substantially normal to the adjacent marginal edge portions of said elongated shank sections, and the other inclined edges of said tabs being parts of the marginal edge portions of said elongated shank sections and extending in opposite directions from the apices of said tabs, said tabs being spaced longitudinally of said shank whereby one of said tabs 15 adapted for snap fastener engagement with an outer surface of one of a pair of spaced supporting panels through which said nose is passed to secure said fastening device in such supported panels when the peripheral flange of the head is in engagement with an opposite outer surface of the other of said pair, and a second one of said tabs is adapted for engagement with the inner surface of said one supporting panel so as to secure the tubular shank of the fastening device in fixed relation to such panel.

2,713,285  
FILM SHRINKAGE ADJUSTING, FOCUSING, AND MASKING UNIT FOR REVOLVING LENS WHEEL SYSTEM

Arthur J. Holman, Brighton, N. Y.  
Application July 25, 1950, Serial No. 175,816  
1 Claim. (Cl. 88—16.8)

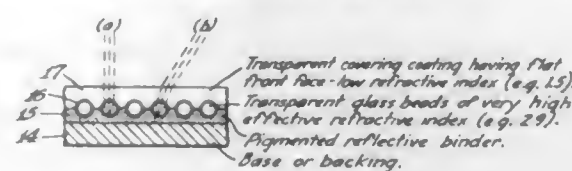


A film shrinkage adjusting and focusing unit, for use in combination with a single revolving lens wheel carrying rear components (optical) in multiple fixedly mounted on its periphery, comprising a pair of parallel rods, a parallel rod supporting member, an aperture unit, including an aperture plate, slidably mounted on said parallel rods, a front component (optical), a mount for said front component slidably supported on said parallel rods, a member controlling the positioning of said front component also slidably mounted on said parallel rods, a differentially threaded ratio rod connecting said last mentioned member with said aperture unit, a focusing screw connecting said last mentioned member with said mount for said front component, means, including a control knob and an index ring calibrated in per cent of film shrinkage, whereby said aperture plate and said front component may be properly positioned, in advance, along the optical axis, to accommodate any film for which the degree of shrinkage is known, and means, including a control knob, for rotating said focusing screw.

2,713,286

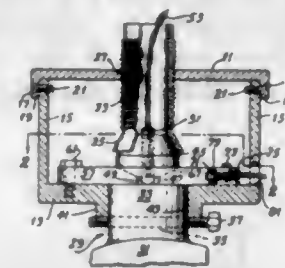
## REFLEX LIGHT REFLECTORS AND GLASS BEAD ELEMENTS THEREOF

Nelson W. Taylor, White Bear Lake, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware  
Application October 22, 1949, Serial No. 123,024  
4 Claims. (Cl. 88—82)



1. A glass bead that is a transparent two-element sphere-lens having a diameter not exceeding 10 mils and adapted for use in reflex light reflectors of the character described, formed of a glass sphere initially having a refractive index exceeding 2.0 and composed largely of lead and bismuth oxides with the bismuth oxide in the proportion of 20 to 45% and also including a small proportion of at least one oxide of the group consisting of phosphorous pentoxide, arsenic oxide, antimony oxide, tungsten oxide and vanadium oxide, the outer portion of the sphere having been leached to selectively extract lead oxide and leave a submicroscopically porous solid surface layer consisting mainly of bismuth oxide which provides an integral concentric layer that is optically homogeneous and has a substantial thickness that is a minor but plural-percent fraction of the diameter of the residual unleached glass core, the core and the layer both serving as transparent spherical lens element of the composite sphere-lens.

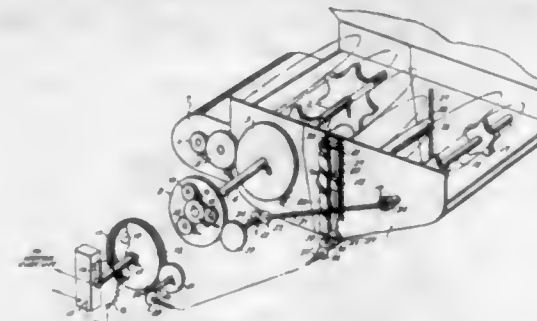
2,713,287  
EXPLOSIVE ACTUATED LATCHES  
John Joseph Domoj, Camarillo, Calif.  
Application August 30, 1951, Serial No. 244,449  
6 Claims. (Cl. 89—1.5)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An aircraft load release assembly comprising a housing including a carrying plate adapted to be secured to the frame of an aircraft, aligned bores in said plate and said housing, a cylindrical attachment lug having an annular groove proximate one end and a threaded axial bore in said end adapted to be carried in the bore in said plate, a pair of clamping jaws mounted rotatably on said plate and adapted to engage said lug at said groove, means to latch said clamping jaws together, means to release said latching means, a charged breech carried in said bore in said lug and adapted to fracture said lug at said groove when fired, means to fire said breech, and a guide and stop member threaded in said bore of said housing and seated upon said end of said lug.

2,713,288  
ELECTRIC AMMUNITION FEEDER

James C. Elms, Dayton, Ohio  
Application December 18, 1945, Serial No. 635,814  
4 Claims. (Cl. 89—33)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

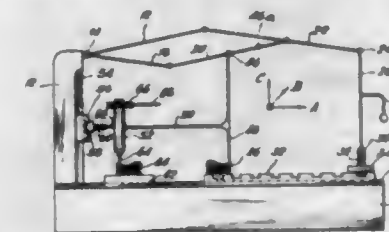


1. In an ammunition belt feeder for a machine gun or the like, a power driven feed sprocket for feeding the ammunition to said gun, power means for driving said feed sprocket, a second sprocket between said feed sprocket and said gun and driven by the ammunition belt at a speed dependent on the instant rate of feed of said gun, a differential speed governing device for said power means including a first element driven in accordance with the speed of said feed sprocket, a second element driven in accordance with the speed of said second sprocket and a third element displaceable in accordance with the difference in speed of said first and second elements, and speed control means for said power means actuated by said third element to effect speed synchronization of said sprockets.

2,713,289  
COPYING MACHINE  
Kurt Zwick, Munich, Germany, assignor to Hans Deckel, Munich-Solln, Germany, and Friedrich Wilhelm Deckel, Post Tutzing, Germany  
Application November 30, 1951, Serial No. 259,067  
4 Claims. (Cl. 90—13.1)

1. A copying machine comprising a frame structure, a work table transversely slidably on said frame structure, a model table slidably mounted on said frame structure in a position displaced from said work table, a support on

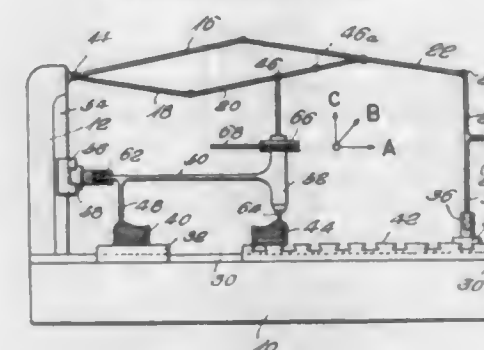
said frame structure, a tool bearing adjustably mounted on said frame structure, a rotatably driven tool mounted in said tool bearing, a workpiece mounted on said work table and engageable by said rotary driven tool, a model carried by said model table, a pantograph system supported on said support, a tracing pin connected with a point of said pantograph system and engageable with said



model, a connection between said tracing pin and said tool bearing, and means connecting another point of said pantograph system with said model table whereby the movement of the tracing pin in one direction produces a corresponding displacement of the model table in the same direction, said displacement being adjustable in any desired ratio over the pantograph system.

2,713,290  
COPYING MACHINE

Kurt Zwick, Munich, Germany, assignor to Hans Deckel, Munich-Solln, Germany, and Friedrich Wilhelm Deckel, Post Tutzing, Germany  
Original application November 30, 1951, Serial No. 259,067. Divided and this application October 22, 1952, Serial No. 316,123  
4 Claims. (Cl. 90—13.1)



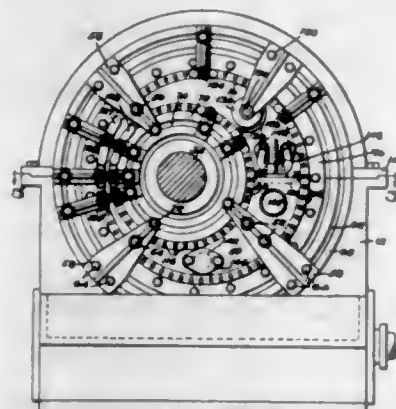
1. A copying machine comprising a frame structure, a model table mounted on said frame structure in a position displaced from said model table, a support on said frame structure, a tool bearing adjustably mounted on said frame structure, a rotatably driven tool mounted in said tool bearing, a workpiece mounted on said work table and engageable by said rotary driven tool, a model carried by said model table, a pantograph system supported on said support, said tool bearing being connected with a point of said pantograph system, a connection between said tool bearing and a tracing pin engageable with said model, and means connecting another point of said pantograph system with said work table whereby the movement of the tool bearing in one direction produces a corresponding displacement of the tool table in the same direction, said displacement being adjustable in any desired ratio over the pantograph system.

2,713,291  
APPARATUS FOR INCREASING THE CONSISTENCY OF FIBROUS SOLUTIONS  
Ernest P. Cook, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine  
Application October 23, 1952, Serial No. 316,435  
9 Claims. (Cl. 92—20)

1. Apparatus of the character described comprising inner and outer rotating cylinders having opposed filtering surfaces rotating in paths forming a nip of mini-



mum clearance between said surfaces, internal circumferentially spaced passages in said inner and outer cylinders leading from said filtering surfaces axially towards



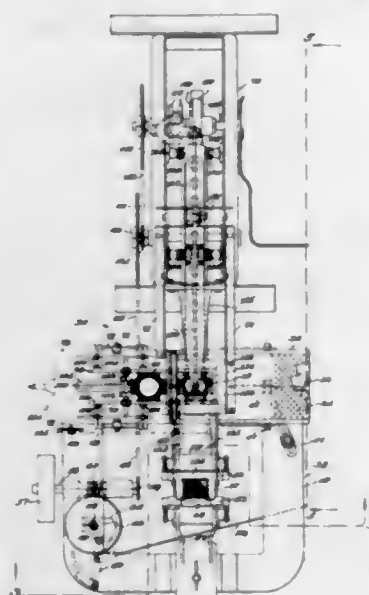
at least one end of said cylinders, and rotary valves at the said ends of said cylinders for applying pressure changes to said passages at spaced points in the revolution of said cylinders.

2,713,292

# METHOD AND APPARATUS FOR WRAPPING BOXES

Samuel W. Langdon, Rochester, N. Y., assignor of one-half to Harold J. Nagle and one-half to Reginald Nagle, both of Rochester, N. Y.

Application January 22, 1949, Serial No. 72,218  
17 Claims. (Cl. 93-40)



1. The method of wrapping boxes comprising the steps of feeding a wrapper by a surface having a feeding movement, applying suction to hold the wrapper on said surface, interrupting and employing said movement of said wrapper to align and position the same relative to the path of movement of said surface, moving said wrapper on said surface transversely of said path to register said wrapper with a box blank, discontinuing the movement of said surface while continuing the application of said suction and bringing said blank and wrapper into registered adhesive engagement with each other.

2,713,293

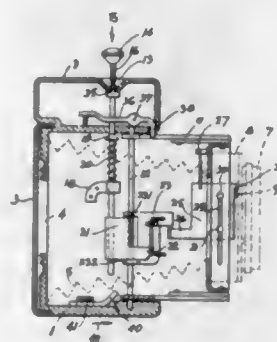
# RELEASE KEY FOR FOLDING PHOTOGRAPHIC CAMERAS

Fritz Faulhaber, Schonthal Bezirk Boblingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany

Application May 2, 1951, Serial No. 224,104  
Claims priority, application Switzerland May 11, 1950  
8 Claims. (Cl. 95-32)

1. In a photographic camera having a cover adapted to be opened to ready for exposure position and to be re-

turned to closed position, and comprising a camera cover lock, shutter means for the camera objective, including means for cocking and releasing the shutter, and a film-transport locking member, in combination a release system comprising a release key adapted to be depressed to a withdrawn position in the interior of the camera and to be moved to an advanced position, said key being provided with means for causing release of the camera cover lock, and being capable of added displacement toward the in-



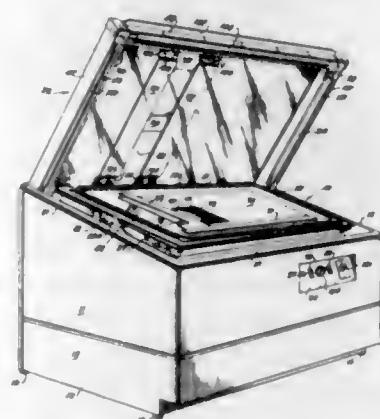
terior of the camera in closed position of the camera; means for locking the release key in withdrawn position in closed condition of the camera; the locking of said key being released and the locking of the camera cover being subsequently released upon subjecting the key to said added displacement, whereby the camera cover is opened and the release key moved to its advanced position, in which depression of said key effects release of the objective shutter and release of said film-transport locking member.

2,713,294

# PHOTOCOMPOSING MACHINE

Jay D. Padgett, Dallas, Tex.

Application February 15, 1955, Serial No. 488,368  
10 Claims. (Cl. 95-76)



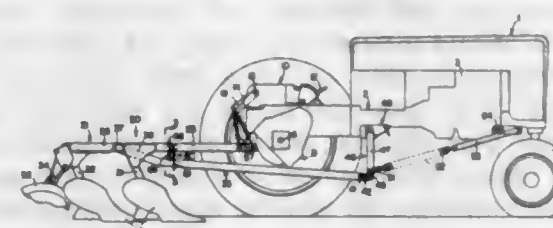
1. In a photocomposing machine, a cabinet, a rectangular printing frame mounted in said cabinet for rotation about an axis through its longitudinal midsection, said printing frame consisting of a magnet bed frame and a cover frame hinged to said magnet bed frame along its rear edge and having a transparent air tight top, a magnet bed in said magnet bed frame, a non-porous blanket overlying said magnet bed on which is adapted to be disposed a sensitized printing plate, a ferrous negative holder and scale members having registerable scale lines for orienting a negative in said holder in relation to said printing plate and maintaining the position of said negative and printing plate through magnetic attraction of said holder and scale members to said magnet bed, magnets in said magnet bed frame movable towards and from said cover frame by influence of said ferrous negative holder and scale members, and means for exhausting air from between said cover frame and magnet bed frame.

2,713,295

# LIFTING AND LEVELING MECHANISM FOR TRACTOR PLOWS

Walter H. Silver, Moline, Ill., and William V. Lohrman, Davenport, Iowa, assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application December 29, 1949, Serial No. 135,641  
17 Claims. (Cl. 97-46.39)



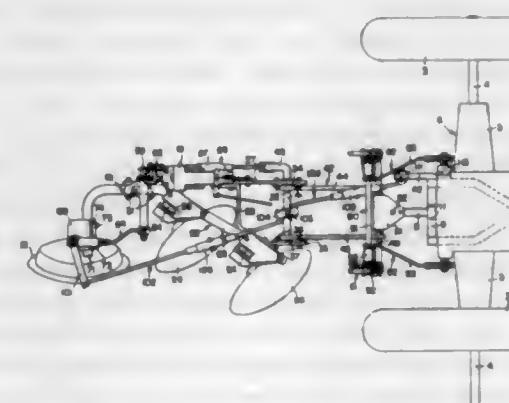
1. A plow adapted to be connected with a tractor, comprising a plow frame having a pair of laterally spaced apart sections, one or more furrow openers carried by said frame, a rigid draft beam pivotally connected at its rear end with said frame at a point rearwardly of said sections and above said furrow openers and adapted to be pivotally connected at its forward end with the tractor, abutment means carried by said frame at points above and below the draft beam for limiting movement of the plow frame relative thereto, and control means adapted to be mounted on the rear of the tractor above and connected with said sections for raising and lowering the front end of the plow frame relative to said draft beam.

2,713,296

# SEMI-INTEGRAL DISK PLOW

Walter H. Silver and Robert E. Cox, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application November 10, 1949, Serial No. 126,553  
21 Claims. (Cl. 97-47.1)



1. An agricultural implement adapted to be connected to a tractor, comprising a frame, a steerable rear wheel therefor, a draft member connected for lateral and vertical swinging with the tractor and with said frame for vertical swinging relative to the latter, a part adapted to be mounted on the tractor above said draft member laterally of the axis of lateral swinging of the draft member relative to the tractor, a shiftable part mounted for rocking movement on the forward portion of the frame about an axis coincidental with the axis of swinging of the draft member relative to said frame, means connecting said shiftable part with the rear wheel to steer the latter, and a link connecting said shiftable part with said first mentioned part for causing lateral movement of the tractor relative to the frame to steer said rear wheel, said link extending substantially parallel with respect to said draft member.

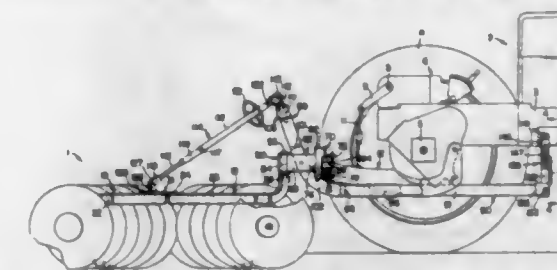
696 O. G.-23

2,713,297

# TRACTOR-MOUNTED OFFSET DISK HARROW

William S. Tsuchiya, Los Angeles, Calif., assignor to John Deere Killefer Company, Los Angeles, Calif., a corporation of California

Application January 5, 1950, Serial No. 136,871  
12 Claims. (Cl. 97-47.51)



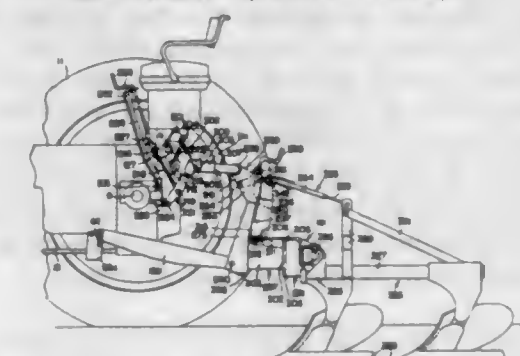
10. A disk harrow adapted to be attached to a tractor having a vertically swingable drawbar raised and lowered to control implements and the like, said disk harrow comprising a drawbar-receiving frame, a disk gang frame, means connecting said disk gang frame to said drawbar-receiving frame for free lateral movement relative thereto, a torque control unit pivotally connected at its rear portion with said disk gang frame for movement about a transverse axis, means acting between the rear portion of said torque control unit and the rear portion of said disk gang frame for adjusting the latter relative to said torque control unit about said transverse axis, and means for connecting the forward end of said torque control unit with the tractor in torque-transmitting relation and accommodating said relatively free lateral movement of said gang frame relative to said drawbar-receiving frame.

2,713,298

# INTEGRAL TOOL CARRIER

Jesse G. Lindeman, Yakima, Lawrence F. Heintz, Zillah, and Robert D. Krehbiel and Orle L. Durland, Yakima, Wash., assignors, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois

Application September 22, 1949, Serial No. 117,087  
22 Claims. (Cl. 97-47.54)



16. A draft device for connecting an implement to a tractor, comprising a vertically disposed hitch frame including a pair of laterally spaced apart, generally vertically disposed frame sections and a crossbar portion rigidly interconnecting said sections, a transverse tool-receiving bar, a pair of laterally swingable links pivotally connecting said tool bar with the lower portions of the vertically disposed frame sections of said hitch frame, a pair of upper laterally spaced links for connecting the upper portion of said frame with the tractor, and a pair of laterally spaced lower links for connecting the lower portions of said frame sections immediately forward of said laterally swingable links with the tractor.

2,713,299

# RETRACTABLE FURROW OPENER

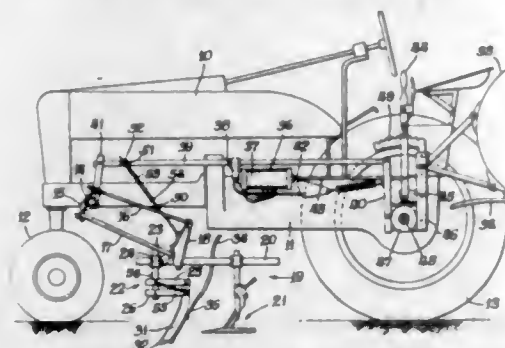
Bernise J. Shager, Moline, and Ernest M. Van Buskirk, East Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application October 15, 1951, Serial No. 251,361  
5 Claims. (Cl. 97-200)

5. The combination with a tool carrier mounted on a traveling support and connected thereto for vertical



movement between operating and transport positions, of means serving as a tool standard secured to the tool carrier, a tool shank having an earth-penetrating blade thereon, parallel link means for pivotally connecting said tool shank to said standard to accommodate free



translatory movement of the shank relative thereto in a vertical plane between operating and transport positions, and spring means operatively connected between the tool shank and the standard for biasing the tool shank upwardly toward an inoperative position relative to the standard.

2,713,300

**VENTILATING APPARATUS**

Friedrich Honerkamp, New York, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware  
Application February 3, 1950, Serial No. 142,317  
9 Claims. (Cl. 98—40)

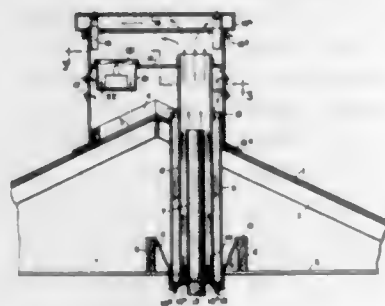


9. In a ventilating installation wherein an air supply device is effective to deliver air into a room and there exists in the room an obstruction which lies in the intended direction of flow of air from the device and deflects the air from its intended direction of flow beyond said obstruction, vane means mounted adjacent to said obstruction in the path of flow of the air deflected by said obstruction and effective to intercept and guide the deflected air around said obstruction back to its intended direction of flow beyond said obstruction.

2,713,301

**SHEET METAL CHIMNEY CONSTRUCTION**

Henry S. McKann, Fredericksburg, Va.  
Application April 30, 1953, Serial No. 352,194  
3 Claims. (Cl. 98—46)



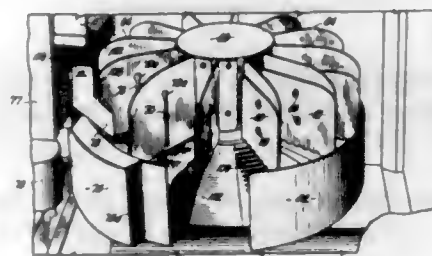
1. In a building construction, the combination with a roof having an opening, of a smoke pipe extending downwardly from said opening into the building, an intermediate pipe surrounding and spaced from said smoke pipe and extending substantially above the upper end thereof, an imperforate outer pipe surrounding and spaced from said intermediate pipe, the upper end of said outer

pipe terminating at a point well below the upper end of said intermediate pipe and the lower end of said outer pipe extending below the lower end of said intermediate pipe and being sealed to said smoke pipe, means at the lower end of said intermediate pipe establishing a passageway between the space between said intermediate and outer pipes and the space between said intermediate and smoke pipes, a chimney casing, rectangular in cross-section, supported on and projecting above said roof, said casing covering said opening and extending above the upper ends of said intermediate pipe, and said casing having openings in its side wall at a point above the upper end of said outer pipe and below the upper end of said intermediate pipe, through which openings outside air may enter the upper open end of said outside pipe and flow downwardly through the annular space between said outside and said intermediate pipes, and thence through said passageway at the lower end of said intermediate pipe into the annular space between said intermediate pipe and said smoke pipe, and means for preventing outside air from entering the space between said intermediate and outer pipes except through said openings in the side wall of the chimney casing, and an anti-down draft rain cap mounted at the top of the chimney casing and supported in spaced relation thereto.

2,713,302

**CORN-POPPING MACHINE**

Harold R. Crank, Overland Park, Kans., assignor to Thomas E. Scofield, Kansas City, Mo.  
Application February 24, 1953, Serial No. 338,489  
10 Claims. (Cl. 99—238.5)



1. In a continuous corn-popping mechanism, a trough, agitator means located on the bottom of the trough through a portion of its length, means for introducing raw corn into said trough at a point remote from said agitator means, a vertical partition transversely disposed in said trough with its lower edge spaced above the bottom of the trough, carriage means for supporting said partition and advancing same in a fixed horizontal path along the trough, an extension partition mounted on said first partition and having its lower edge so disposed as to ride on the bottom of the trough as said first partition advances, said extension partition being so mounted as to permit the lower edge thereof to move up and down freely, track means elevated above the level of the bottom of the trough throughout said agitator portion in the path of said extension partition to lift same above said agitator means during the travel of said partition there-through, and a discharge aperture in said trough succeeding said agitator portion through which popped corn is delivered.

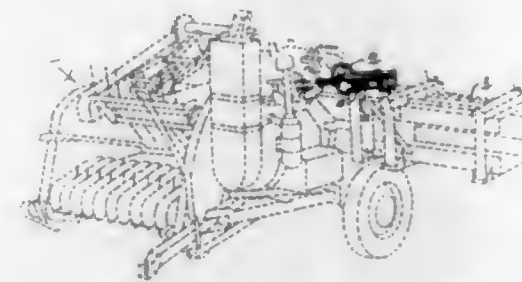
2,713,303

**HAY BALER**

Wade D. Hill, Yale, Okla.  
Application July 8, 1953, Serial No. 366,724  
2 Claims. (Cl. 100—4)

1. In a hay baler wherein a bale gauging wheel in contact with hay being pressed within a bale-case is used to trip-actuate a bale tying mechanism powered by a driven shaft, the combination with said bale-case, said gauge wheel, said tying mechanism and said driven shaft, of: a rocker-arm rotatably supporting said wheel for

movement into and out of contact with said hay; means for so moving the wheel each time the tying mechanism functions, said means including a cam for actuating the rocker-arm and a driving connection between said cam and said driven shaft; and means for re-setting the wheel

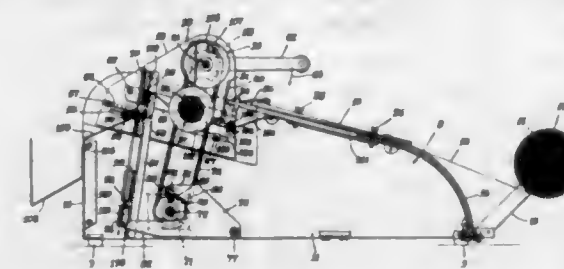


in a selected radial position each time it is moved out of contact with the hay, said re-setting means including a shaft rotatable by said wheel, a cross-arm rigidly connected to said wheel shaft, and means for forcing the cross-arm to a selected position each time the wheel is moved out of contact with the hay.

2,713,304

**STENCIL PRINTING MACHINE**

James R. Thomas, Deerfield, Ill., assignor to Joseph A. Weber, Mount Prospect, Ill.  
Application April 28, 1952, Serial No. 284,780  
2 Claims. (Cl. 101—117)

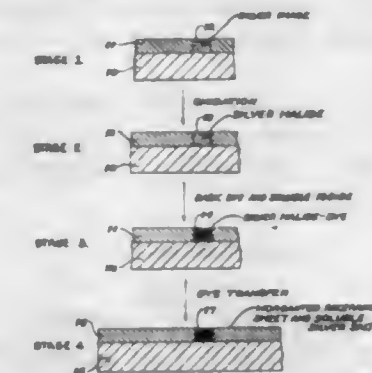


1. A stencil printing machine comprising a supporting frame, a supply of material to be imprinted, a stencil holding roll, a shaft for said stencil holding roll carried on said supporting structure, means driving said stencil holding roll shaft, cam rotors carried on both ends of said shaft spaced outwardly from said stencil holding roll, a pressure roll, a shaft for said pressure roll carried on said supporting structure, spring means normally urging said pressure roll against said stencil holding roll, circular rotor members carried on both ends of said pressure roll shaft spaced outwardly from said pressure roll and in the same planes respectively as each of said cam rotors whereby as the stencil holding roll shaft is driven the cam rotors engage the circular rotor members to cause engagement or disengagement of the stencil holding roll and pressure roll dependent upon the shape of the cam rotors, said pressure roll shaft mounted on spaced apart arms hinged to said supporting frame, and wherein the spring means urges arcuate swinging of the pressure roll about the hinged arms, and latch means associated with said spaced apart arms arranged and constructed for movement between two positions, said latch means in one of said positions adapted to maintain the pressure roll spaced from the stencil roll and in the other of said positions adapted to free said pressure roll for uninterrupted contact with said stencil roll, and a hinged actuator for said latch means disposed forwardly of said stencil printing roll whereby when a supply of material to be imprinted is in the machine the latch means will be shifted to a position to permit engagement of the stencil roll by the pressure roll and when there is no material to be imprinted in the machine the latch means will prevent engagement of the stencil roll by the pressure roll.

2,713,305

**PHOTOGRAPHIC DYE TRANSFER PROCESS**

Henry C. Yutzy and Burt H. Carroll, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application January 21, 1954, Serial No. 405,342  
7 Claims. (Cl. 101—149.1)

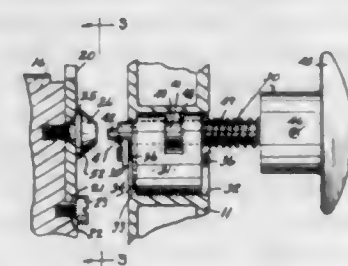


1. A photographic reproduction process which comprises oxidizing a silver image contained in a developed and fixed silver halide emulsion layer, to a silver halide image, dyeing the silver halid image with a basic dye in the presence of a water-soluble halide salt, washing excess dye and halide salt from the emulsion layer, pressing the emulsion layer while moist into contact with a moist mordanted receiving sheet in the presence of a water-soluble silver salt to transfer the dye image-wise from the silver halide image to the receiving sheet by imbibition.

2,713,306

**ADJUSTING MECHANISM FOR PRINTING OR DUPLICATING MACHINES**

Edward J. Janke, Cleveland, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware  
Application July 11, 1952, Serial No. 298,283  
5 Claims. (Cl. 101—248)



1. A rotary printing machine having a frame, a rotary printing drum mounted therein, a control member having an arcuately extending slot mounted on one end of the drum and rotatable about the axis of the drum, means to secure the control member in an adjusted position on the drum, said means including a bolt threadingly engaging the drum and passing through the slot in the control member, said bolt having a clamping head provided with a conical side surface and a wrench receiving socket, a wrench being mounted in said frame and movable parallel with but offset from the axis of the drum axially to and from the end of the drum, resilient means normally acting to move the wrench away from the drum, said wrench having a formation on its inner end to enter said socket whereby rotation of the wrench will loosen said bolt and the drum held against rotation by the wrench while the control member is rotated and the bolt then tightened to fix the adjusted relative positions of the drum and control member, said conical surface coacting with the inner end of the wrench consequent upon a slow rotary movement of the drum and inward manual pressure exerted on the wrench to cam the wrench outward onto the outer surface of said head and thereby facilitate entrance of the wrench member in the socket.



2,713,307

**OFFSET-PREVENTING COMPOSITIONS**  
George M. Adams, Palos Heights, Ill., assignor to The Visking Corporation, Chicago, Ill., a corporation of Virginia

No Drawing. Application June 29, 1951,  
Serial No. 234,461

8 Claims. (Cl. 101—416)

1. An aqueous starch-bentonite offset-preventing composition containing gluconic acid as a stabilizer against decomposition.

5. A dry mix comprising starch, bentonite and glucono-delta-lactone and which when incorporated in water will produce an offset preventing composition stabilized against decomposition.

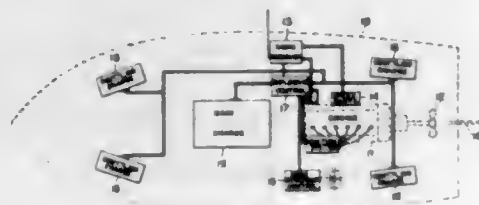
2,713,308

**DEMOLITION SYSTEM**

Ellis M. Brown, Charles B. Lee, and Saul R. Gilford,  
United States Navy, Washington, D. C.  
Original application March 26, 1945, Serial No. 584,996.  
Divided and this application June 28, 1954, Serial No. 441,688

3 Claims. (Cl. 102—70.2)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a remotely controlled demolition unit having an explosive charge, the combination of an electroresponsive detonating device for firing said explosive charge, a movable obstructing device interposed between said detonating device and said charge for preventing an operative firing connection therebetween, electroresponsive means for causing movement of said obstructing device sufficient to establish an operative firing connection between said detonating device and said charge, rotary timing means adapted to be set in operation under control of the operator of the unit, means controlled by said timing means for operating said electroresponsive means as operation of the timing means is initiated, and means rendered effective by the timing means within a predetermined period of time after operation thereof is initiated for firing said detonating device under control of the operator of the unit.

2,713,309

**ROTARY POWER DEVICE OF THE ROTARY ABUTMENT TYPE**

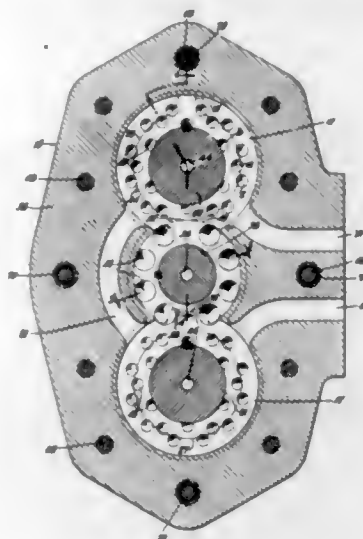
Frank Berry, Corinth, Miss., assignor, by mesne assignments, to Oliver Iron and Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 31, 1951, Serial No. 218,670

16 Claims. (Cl. 103—4)

1. A rotary power unit comprising a casing having axially-aligned annular cylinders each of which has a fluid inlet and a fluid outlet, a rotor shaft carrying piston rotors with pistons slidably arranged in said cylinders to traverse the respective annular cylinders in rotary movement, bearings in said casing to receive said rotor shaft, said bearings arranged at each side of each of said axially-aligned cylinders, a rotary abutment arranged in said casing with its axis parallel to the axis of said rotor shaft, said abutment having recesses to clear said pistons as they pass the abutment, a series of recesses being provided in the side walls of said annular cylinders, said recesses being arranged circumferentially and a substantial number of said recesses being distributed around

the outer circumference of the respective piston rotor and positioned to lie partly within and partly beyond such circumference, ducts extending from said rotor shaft



bearings at each side of each of said axially-aligned cylinders, and a common passageway connecting all of said ducts.

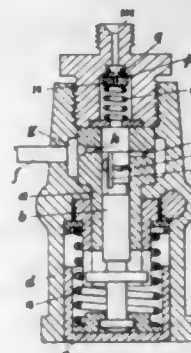
2,713,310

**LIQUID FUEL INJECTION PUMPS**

Alexander Muraszew, London, England, assignor to C. A. V. Limited, London, England

Application November 20, 1951, Serial No. 257,363

1 Claim. (Cl. 103—41)



A liquid fuel injection pump having in combination a reciprocating plunger, a barrel containing the plunger and provided with a fuel inlet port and a spill-port controllable by the plunger, an outlet through which fuel supplied to the barrel through the inlet port can be discharged in two stages by each delivery stroke of the plunger, the discharge being interrupted between the two stages by opening of the spill-port under the control of the plunger, a movable valve seat member situated between the plunger and the outlet and provided with a central passage through which fuel can flow under the action of the plunger, a spring acting on the side of the movable valve seat member remote from the outlet, a stationary annular seat against which the movable seat member abuts under the action of the spring so that liquid flowing to the outlet under the action of the plunger is compelled to pass through the central passage in the movable seat member, and a valve closure member loosely supported on the side of the movable seat member remote from the plunger, to prevent return flow of liquid through the central passage in the movable seat member, the closure member being separable from the movable seat member by fuel pressure to allow fuel flow from the barrel to the outlet, and the movable seat member being separable from the stationary seat by liquid pressure to allow relief of fuel pressure at the outlet with the valve closure member supported on the movable seat member.

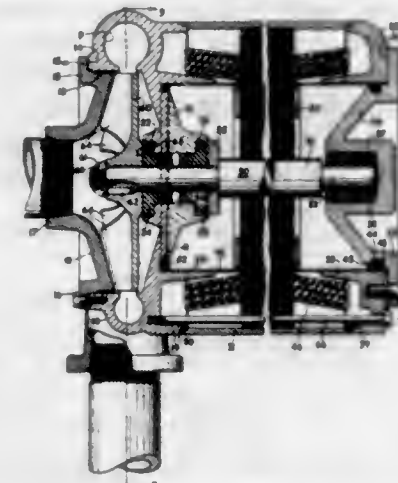
2,713,311

**MOTOR DRIVEN PUMP**

Howard T. White, Philadelphia, Pa.

Application December 6, 1949, Serial No. 131,386

4 Claims. (Cl. 103—87)



1. In a motor driven pump, an impeller housing having an end opening and a fluid delivery connection, a removable end closure for said impeller housing end opening, an annular end housing axially spaced from said impeller housing and having an outer central end opening, a cover extending between said housings, a hollow cylinder of non-magnetic material extending between said housings and spaced inwardly from said cover to provide a motor stator chamber between said cylinder and said cover, the interior space in said cylinder providing a motor rotor chamber, one end of said cylinder extending to said central end opening, said impeller housing having a transversely extending partition member at one end of the motor rotor chamber, a second removable end closure carried by said end housing for closing the other end of the motor rotor chamber and having an axially extending cylindrical portion in engagement with the interior of said cylinder at the other end of said motor rotor chamber, thrust and journal bearings carried by said partition member, a rotor engaging said bearings having a separable fluid impeller mounted in said impeller housing insertable through said impeller housing end opening and a motor rotor in said motor rotor chamber insertable through said end housing end opening, and a bearing member for said rotor carried by said second end closure.

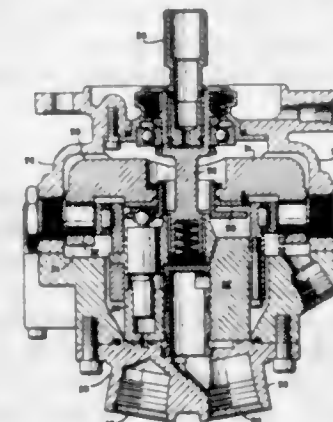
2,713,312

**PRESSURE COMPENSATOR**

Edwin L. Shaw and Cecil E. Adams, Columbus, Ohio, assignors to The Denison Engineering Company, Columbus, Ohio

Application June 10, 1952, Serial No. 292,752

7 Claims. (Cl. 103—162)



1. Pressure compensator control apparatus for a variable volume pump of the type having a movable volume changing member and means tending to move the same toward a full volume position comprising a body forming a piston chamber; an actuating piston disposed for move-

ment in said chamber and operatively engaged with said volume changing member, said piston being urged toward a retracted position in said chamber by movement of said member toward full volume position; a passage in said body establishing communication between the inner end of said chamber and a pressure port of said pump; a pressure responsive valve in said fluid passage; a flow control mechanism in said piston chamber between the point of connection of said fluid passage therewith and the inner end of said actuating piston, said flow control mechanism having a piston with a reduced orifice establishing communication between the sections of the piston chamber at opposite ends of the last mentioned piston; resilient means between the pistons, said resilient means tending to urge said flow control piston toward the inner end of said piston chamber; and an exhaust passage extending from the section of the piston chamber between said pistons; movement of said flow control piston in opposition to said resilient means tending to vary the effective size of said exhaust passage.

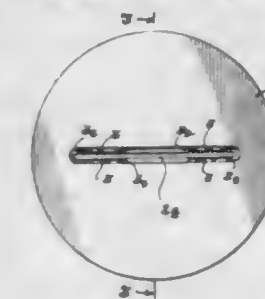
2,713,313

**EXTRUSION DIE FOR ALIMENTARY PASTES**

Felice Della Femina, Brooklyn, N. Y., assignor to V. La Rosa & Sons, Inc., Brooklyn, N. Y., a corporation of New York

Application July 10, 1953, Serial No. 367,232

3 Claims. (Cl. 107—14)



1. A die for extruding ribbons of alimentary pastes having an elongated slot extending therethrough and opening through one face of the die to define an inlet orifice and opening through the other face of the die to define an outlet orifice, the gap of the inlet orifice being slightly greater than the gap of the outlet orifice, a pair of opposed lugs upon opposite walls of said slot in approximate registry and defining a restricted passage therebetween for the flow of an alimentary paste and terminating a spaced distance inwardly of the end walls of the slot, a pair of ledges upon opposite walls of the slot arranged in vertically opposed relation and extending from said lugs to the outer face of the die to restrict the passage of paste through the outlet orifice, the ledges being of slightly greater height than the lugs to form a projection rearwardly of said lugs, and a series of spaced-apart notches upon the opposed faces of said ledges.

2,713,314

**APPARATUS FOR BULGING HOLLOW METAL BLANKS TO SHAPE IN A MOLD AND CONTROL MECHANISM THEREFOR**

Fred W. Leuthesser, Jr., and John A. Fox, Cincinnati, Ohio, assignors to The Schaible Company, Cincinnati, Ohio, a corporation of Ohio

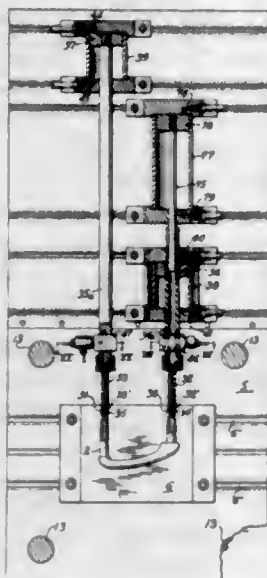
Application March 24, 1952, Serial No. 278,238

17 Claims. (Cl. 113—44)

1. A mechanism for bulging hollow metal blanks to shape in a mold cavity by supplying increasing volumes of liquid to the interior of the blank, comprising a mold having a cavity therein and comprising relatively stationary and movable parts, tubular runners in said mold parts disposed to receive the ends of a blank when placed in said mold cavity, means for moving one of said movable mold parts to or from the other mold part, means for



holding said movable mold part against the other when the mold is closed, hollow seal members having tapered ends spaced to align with said mold runners, means for actuating the tapered ends of said seals in the respective ends of a hollow blank in said mold, means for supplying liquid into said blank through one of said seals and discharging the liquid through the other seal to scavenge air from the blank and seals, timing means for shutting

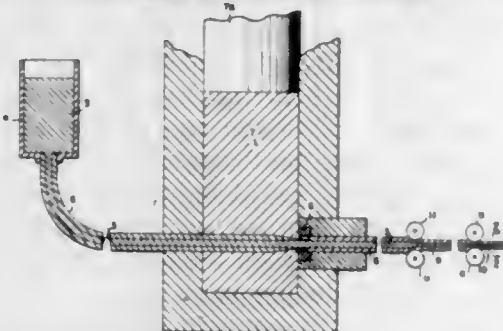


off said discharge when liquid has flowed a predetermined length of time through said blank, means for displacing volumes of said liquid into the hollow blank with a bulging force sufficient to cause the portion of said blank within the mold cavity to yield and be enlarged, and means responsive to a predetermined bulging pressure in said liquid for arresting the operation of said liquid displacement means.

2,713,315

**FLUX-CONTAINING WIRE SOLDER**

Frank D. McBride, Philadelphia, Pa.

Application August 16, 1952, Serial No. 304,708  
2 Claims. (Cl. 113-110)

1. A hollow solder wire consisting essentially of 2-5% by weight of cadmium, 9% by weight of tin and 86-89% by weight of a member selected from the group consisting of tin and lead, the hollow portion of said wire containing a flux consisting essentially of 15-35% by weight of a boron-fluorine addition compound of an amino alcohol, 5-10% by weight of a member selected from the group consisting of zinc and tin fluoborate, .1%-2% by weight of a member selected from the group consisting of cadmium dust and cadmium-tin dust having not less than 10% by weight of cadmium, from 5-15% by weight of polyethylene glycol and uncombined amino alcohol.

2,713,316

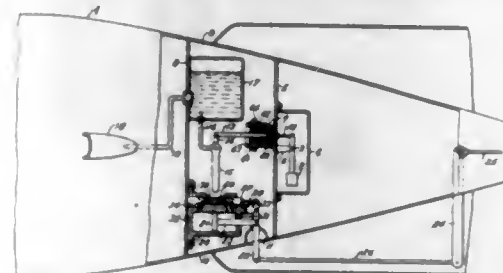
**CONTROL DEVICE**

Merrill G. Leonard, Sharon, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Air Force

Application August 10, 1945, Serial No. 610,069  
1 Claim. (Cl. 114-25)

In apparatus for controlling the angular position of the elevating rudders of a torpedo with reference to the longitudinal axis of the torpedo, in combination, a scoop projecting from the body of the torpedo for scooping up sea water as the torpedo moves, at a relatively high speed, through the sea, a pivotally mounted jet tube, conduit means connecting the jet tube to the pressure region of the scoop whereby sea water will be expelled from the nozzle end of the jet tube, hydraulic engine means mounted in the torpedo and comprising, a cylinder having conduits at each end, a balanced piston in the cylinder, a slide valve having two conduits having one pair of corresponding ends normally terminating under the nozzle end of the

jet tube and the other corresponding ends normally disposed in communication with the conduits in the cylinder ends, whereby liquid of equal pressure is normally supplied to the cylinder heads at each side of the piston to thus hold the piston in a balanced position, a piston rod, coupling means between the piston rod and the rudders to actuate the rudders, coupling means between the piston rod and the slide valve to move the valve as a function of the piston movement to follow any movement of the pivoted, jet tube, and means for moving the jet tube as a function of depth of the torpedo and direction of its axis with reference to the horizontal.

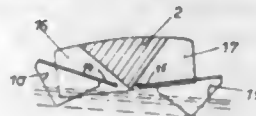


jet tube and the other corresponding ends normally disposed in communication with the conduits in the cylinder ends, whereby liquid of equal pressure is normally supplied to the cylinder heads at each side of the piston to thus hold the piston in a balanced position, a piston rod, coupling means between the piston rod and the rudders to actuate the rudders, coupling means between the piston rod and the slide valve to move the valve as a function of the piston movement to follow any movement of the pivoted, jet tube, and means for moving the jet tube as a function of depth of the torpedo and direction of its axis with reference to the horizontal.

2,713,317

**BOAT HAVING PIVOTABLE UNDERWATER HYDROFOILS**

Johannes Herz, Berlin-Spandau, Germany

Application December 27, 1952, Serial No. 328,203  
Claims priority, application Germany January 2, 1952  
10 Claims. (Cl. 114-66.5)

1. In a boat structure of the type described, in combination, a boat hull having opposite sides and a bottom and having a longitudinal axis; at least one hydrofoil means mounted on said hull for turning about an axis parallel to the longitudinal axis of said hull between an operative position projecting laterally beyond one side of said hull and projecting downwardly below the bottom of said hull, and an inoperative position retracted laterally entirely within the side of the hull and entirely above the bottom of the hull; and means for moving said hydrofoil means between its operative and inoperative positions.

2,713,318

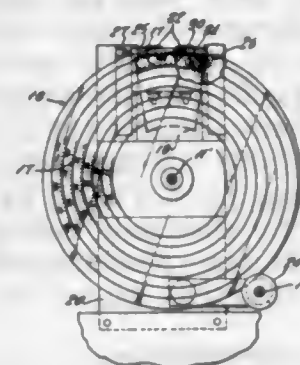
**SCALE INDICATING MEANS**

William H. Paulstich, Merrick, N. Y., assignor to Servo Corporation of America, New Hyde Park, N. Y., a corporation of New York

Application July 15, 1954, Serial No. 443,498  
5 Claims. (Cl. 116-124.4)

1. In combination, a multiple-turn dial scale, a light-projection assembly, guide means guiding said assembly for radial movement with respect to said scale, said assembly including a source of light, a body of light-conducting material having an edge exposed to light from said source and having a further edge casting light from said source onto said scale, said further edge being of substantially uniform thickness approximating the pitch

between turns of said scale and of width representing a limited segment of one turn of said scale, said segment



extending over a range of adjacent indications on a turn of said scale.

2,713,319

**BELL AND METHOD OF MAKING SAME**

Abraham Damast, Great Neck, N. Y., assignor to Criterion Bell &amp; Specialty Co., Inc., Brooklyn, N. Y., a corporation

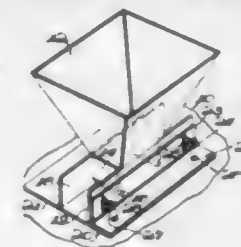
Application November 20, 1952, Serial No. 321,649  
7 Claims. (Cl. 116-148)

1. A bell-shaped housing for a toy bell capable of receiving a clapper with an integral, closed eyelet, said housing being of a single piece of thin sheet metal, the upper end portion of said housing being rounded and having a central transverse strip area in spaced relation to the remaining portion of the upper end, said strip area constituting a supporting strap, areas adjacent each side of said strip area being dented, the area of said upper end portion directly beneath said supporting strap having an opening, integral facing projections dividing said opening and comprising a clapper support.

2,713,320

**ADHESIVE APPLYING MEANS FOR COATING THE EDGES OF TEXTILE MATERIAL**

Rex Stuart MacCaffray, Boiling Springs, Pa., assignor to the United States of America as represented by the Secretary of the Army

Application July 16, 1954, Serial No. 443,981  
11 Claims. (Cl. 118-413)

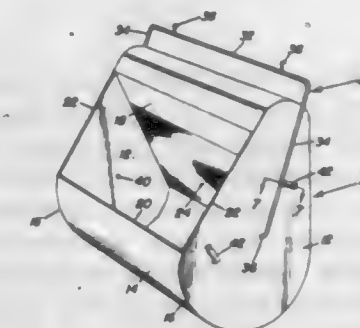
1. In a hopper of the material-confined-pool type wherein material to be coated is passed across a discharge opening formed in the bottom of a coating material containing hopper to receive a layer of coating material therefrom; the improvement comprising a substantially horizontally disposed hold-down fixed to said hopper laterally outwardly thereof and having front and rear portions extending forwardly and rearwardly of said hopper, laterally outwardly directed threaded studs fixed to said front and rear portions of said hold-down, a plate-like material support underlying said hopper and extending forwardly, rearwardly and inwardly thereof, a substantially vertical flange on said material support laterally outwardly of said hold-down, said flange being

formed with vertical slots, said studs being relatively vertically slidably received in said slots to permit relative vertical adjustment of said hopper and material support for the accommodation therebetween of materials of different thickness, and nuts on said studs for securing said material support and hopper in relatively adjusted positions.

2,713,321

**SELF-SIFTING DUST BATH PAN**

Richard C. Keen, Medford, Oreg.

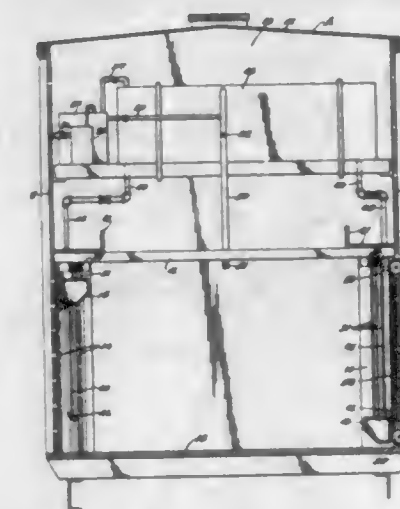
Application February 3, 1953, Serial No. 334,802  
8 Claims. (Cl. 119-1)

1. A dust bath comprising a pan adapted to contain dust and having spaced side walls, a sheet of material having opposite longitudinal edges secured to said side walls and disposed therearound in partial bounding relation, said sheet terminating at spaced points on said side walls defining an opening therebetween, said sheet having one end deformed inwardly and a screen coextensive with the end presenting therewith a partition within the pan, means for rotatably mounting the pan on a wall about an axis extending between the side walls, whereby the dust will be sifted through said screen to pass from one side to the other of said pan in response to rotation of said pan about said axis.

2,713,322

**LIVESTOCK CAR FEEDING, COOLING, AND WATERING EQUIPMENT**

James M. Coyner, Madison, Wis.

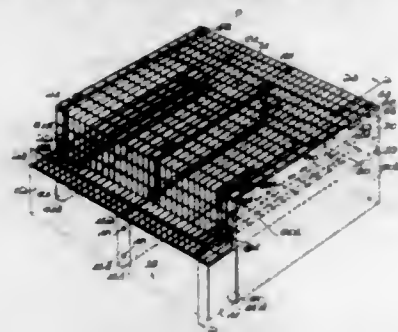
Application August 9, 1951, Serial No. 241,011  
6 Claims. (Cl. 119-10)

1. In a livestock car having side walls and end walls and equipped with an elevated cross-beam, a trough, means slidably connecting the trough to the side wall of the car, and a V-shaped member secured to said trough and adapted to engage said cross-beam only when the trough is raised to its uppermost position for rigidifying the trough relative to said car.



# 2,713,323 BREEDING CAGE AND PEN FOR SMALL ANIMALS

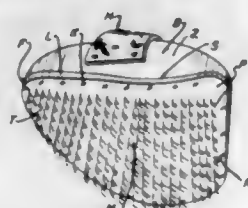
Albert F. Marsh, Mobile, Ala.  
Application November 10, 1950, Serial No. 195,039  
5 Claims. (Cl. 119—17)



1. An animal pen including a floor, partitioning means dividing the pen into two compartments, a substantially enclosed passage within said pen proper having a floor substantially transversely positioned relative to said partitioning means and spaced-apart openings therein communicating with the said two compartments above the level of said floor, and a treadle having two ends in said passage said treadle being supported adjacent its center for frictionally-inhibited oscillation about its support to bring the ends thereof alternatively into contact with the floor of said passage and thereupon alternatively to communicate with said openings.

# 2,713,324 WOOL CARD

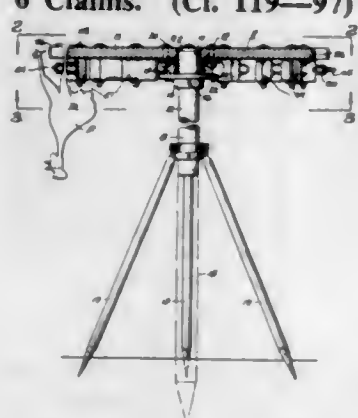
Max W. Thaele, Lakewood, Colo.  
Application February 25, 1954, Serial No. 412,457  
3 Claims. (Cl. 119—89)



1. A wool card comprising a body member having top and bottom surfaces, front and rear ends and side walls, said side walls converging from said rear end to the front end whereby the front end is substantially pointed and narrowed with respect to the rear end, the bottom surface being convexly curved to permit rocking of the body member and having depending therefrom a plurality of teeth.

# 2,713,325 POULTRY-HANDLING APPARATUS

Maurice E. Bowers, Somerville, N. J.  
Application September 10, 1952, Serial No. 308,774  
6 Claims. (Cl. 119—97)

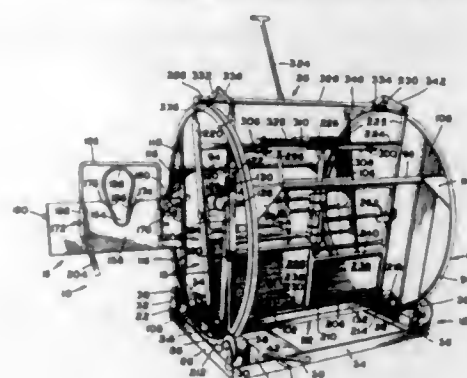


1. In a poultry treating apparatus of the character described, a table revoluble about a vertical axis for supporting poultry to be treated, said table having a plurality of circumferentially spaced notches formed in its pe-

ripheral edge, a plurality of members vertically spaced below said table and mounted in adjustable fixed relation to said notches, there being one such member for each notch, and a plurality of latches operative each to releasably clamp the leg of a bird in one of said notches with the foot of the leg disposed above said table to thereby suspend the bird from said table with its breast presenting outwardly, said table and said adjustable member being adapted to engage the back of the leg and said latch the front of the leg for effecting a three-point clamping engagement thereof to insure positioning of the leg along a line substantially paralleling the axis of revolution of the table.

# 2,713,326 ANIMAL CHUTE

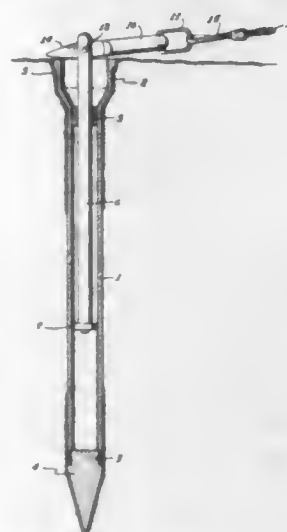
Isaac L. Stephenson, Darrouzett, Tex.; Basil Duke, administrator of said Isaac L. Stephenson, deceased, assignor to Fannie Stephenson, Darrouzett, Tex.; Basil Duke guardian of estate of said Fannie Stephenson  
Application October 19, 1953, Serial No. 386,821  
6 Claims. (Cl. 119—99)



1. A rotatable chute for calves and the like comprising a pair of spaced circular track members adapted to be supported on suitable rollers, a floor panel interconnecting said track members, a pair of side members pivoted to said floor panel, and an elongated head gate associated with one of said circular track members, said head gate being pivoted at one side to said track member and separably latched to said track member at its other side, said head gate being provided along its top side with a head receiving notch, and a flexible cable member on said head gate adjacent said notch for holding a calf's head therein.

# 2,713,327 TETHERING DEVICE

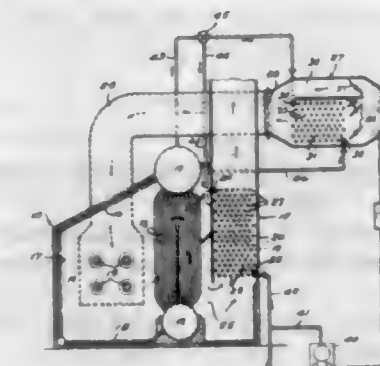
Essie Binkley West, Glendale, Calif.  
Application October 26, 1953, Serial No. 388,259  
1 Claim. (Cl. 119—125)



In a tethering device, a casing having a uniform diameter tubular portion, a flared, extended upper end portion, and a conical lower end portion; a cylindrical rod for longitudinal and rotary movement within said casing,

# 2,713,330 VAPOR GENERATING AND SUPERHEATING APPARATUS

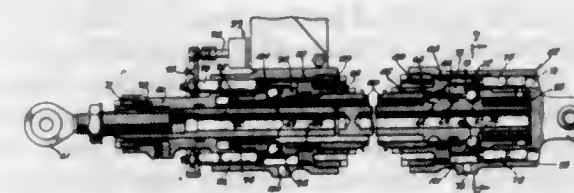
Anthony James Taylor, Tilbury, England, assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York  
Application March 27, 1951, Serial No. 217,717  
Claims priority, application Great Britain March 28, 1950  
4 Claims. (Cl. 122—1)



1. In vapor generating apparatus comprising a vapor generator having a setting and a saturated vapor space, a furnace in the setting, said furnace having a gas outlet, means for firing the furnace, a steam condenser, means forming a main air passage and a by-pass passage in said condenser, tubular means forming a path of flow for saturated vapor and disposed in heat exchange relationship with air flowing through said main air passage only, said by-pass passage being arranged to conduct air flowing through the condenser out of heat exchange relationship with said tubular means, damper means for controlling the flow of air through said main air passage, other damper means for controlling the flow of air through said by-pass passage, actuating means for said damper means and said other damper means, control means for controlling actuation of said actuating means in response to the temperature of superheated steam, a superheater in heat exchange relationship with gases flowing to the furnace gas outlet, said superheater being in communication with the vapor space to receive vapor therefrom and comprising a plurality of sections connected in series, one section being disposed beyond another section in the direction of flow of said gases, said tubular flow path being in communication with the saturated vapor space to receive vapor therefrom, a conduit in communication with the tubular path of flow outlet and with said superheater between said one and the other sections thereof to conduct condensate therinto, and a saturated vapor proportioning valve in the path of flow of vapor from the vapor space to the superheater and to the tubular flow path to proportion the quantity of vapor flowing from said space to said superheater and to said flow path.

# 2,713,328 FLUID ACTUATOR WITH INTEGRAL MECHANICAL LOCKING MEANS

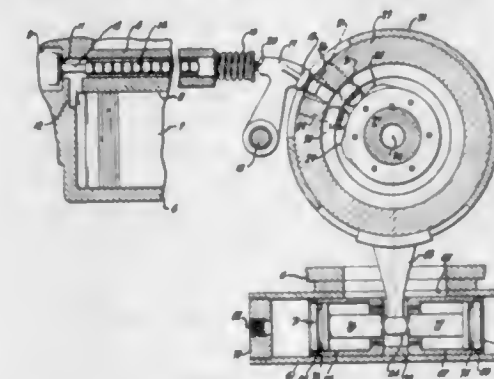
Don W. Driskel, Glendale, and Richard L. Hayman, Flintridge, Calif., assignors to Haskel Engineering Associates, Glendale, Calif., a partnership  
Original application August 11, 1951, Serial No. 241,472.  
Divided and this application October 26, 1953, Serial No. 388,408  
4 Claims. (Cl. 121—40)



1. In an arrangement of the character described, a fluid pressure cylinder, a piston slidably mounted in said cylinder and having a plurality of circumferentially arranged reentrant portions therein, a plurality of balls circumferentially disposed around said piston and engageable with a corresponding one of said reentrant portions, means mounted on said cylinder and circumferentially disposed around said balls and having a cam surface thereon engageable with said balls for moving said balls radially inwardly with respect to the axis of said piston to thereby lock the piston to said cylinder, spring means constantly acting, when said balls are in piston locking position tending to allow movement of said balls radially outwardly out of locking position, and fluid pressure operated means for moving said circumferentially arranged means to allow said balls to move radially outwardly under the influence of said spring means.

# 2,713,329 STEAM ENGINE

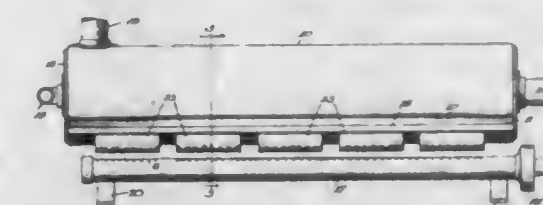
Marcus Lothrop, Berkeley, Calif., assignor to The Yuba Manufacturing Company, a corporation  
Application October 18, 1954, Serial No. 462,818  
8 Claims. (Cl. 121—127)



1. In a steam engine having separate inlet and exhaust valves, means for operating said valves in timed sequence during the operation of said engine, means for transmitting motion from said operating means to said valves, and means for rendering said transmitting means ineffective and for simultaneously opening said inlet and exhaust valves.

# 2,713,331 GAS HEATERS

Edward J. Schneller, Chicago, Ill.  
Application April 6, 1953, Serial No. 346,896  
5 Claims. (Cl. 122—233)



3. In a heater the combination with a receptacle for a fluid to be heated, having a cylindrical bottom, and a burner pipe provided with openings for delivering gaseous



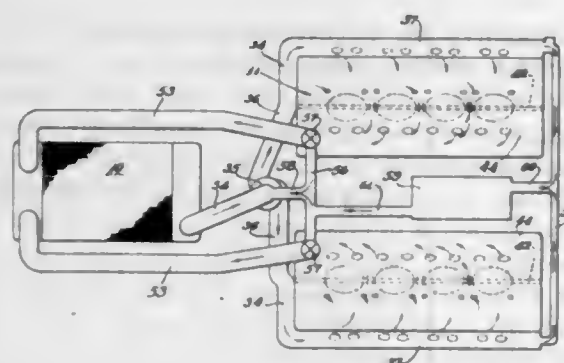
fuel for combustion under and longitudinally of said bottom, of a series of plates having central portions provided with perforations along and over said pipe for the flow of gases to said bottom, sides joined to said bottom, and imperforate portions between said sides and said perforations, for confining the gases transversely under said bottom, the plates being spaced apart longitudinally to form transverse spaces between them, and forming with said bottom, flues through which the combustion gases are confined to flow longitudinally along and under said bottom and transversely between the plates.

2,713,332

## INTERNAL COMBUSTION ENGINE COOLING SYSTEM

Gale R. Beardsley, Fort Wayne, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application March 27, 1953, Serial No. 345,123  
14 Claims. (Cl. 123—41.28)

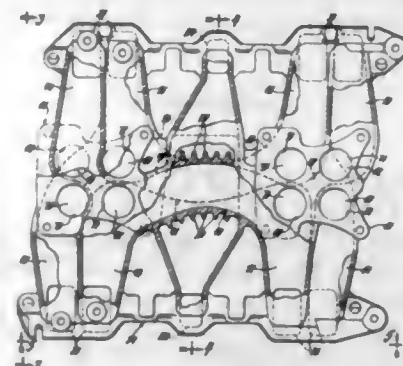


1. In an internal combustion engine, a cylinder block structure having a series of cylinders arranged side by side in a line longitudinally of the engine and including a jacket surrounding said cylinders through which a cooling medium may be circulated; a removable cylinder head structure for closing the open upper ends of said cylinders, said head structure including a coolant jacket; a longitudinally extending partition disposed within said head structure jacket to divide a portion of said jacket from the main part thereof to form a coolant distributing header and a coolant outlet chamber, respectively, said partition serving as a side wall for said header and chamber and having a plurality of longitudinally spaced apertures formed therethrough for establishing direct coolant communication between said header and chamber; a plurality of valve stem guides formed integrally with said partition and arranged along the same; first passage means for establishing coolant communication between said header and the block structure jacket; second passage means for establishing coolant communication between said block structure jacket and said chamber, said first and second passage means including a plurality of apertures formed in the bottom wall of said head structure registrable with holes provided in the mating, upper face of said block structure; a fluid pressure pump; a coolant inlet manifold integrally formed in said block structure and extending longitudinally of the engine along one side of said block structure, said manifold having longitudinally spaced outlet ports registrable with apertures formed in the bottom wall of said header for establishing coolant communication between said manifold and header said ports progressively increasing in cross sectional area from one end of said inlet manifold to its opposite end, said manifold progressively decreasing in cross sectional area along its length, said pump having a discharge opening communicating with the end of said manifold having the largest cross sectional area to thereby maintain a substantially constant coolant pressure along the length of said manifold.

2,713,333  
DUAL COMPOUND CARBURETOR INTAKE MANIFOLD

Frank C. Burrell, Detroit, Edgar Haigh, Wyandotte, and Paul F. Keydel, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 16, 1953, Serial No. 331,658  
14 Claims. (Cl. 123—52)

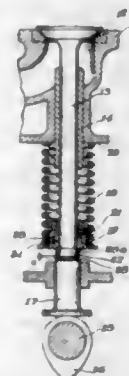


1. An inlet manifold for engines comprising a body having independent manifold passage means, each of said passage means including a connecting passage formed in said body, each of said connecting passages having branch passages formed in said body and disposed in opposite directions from the opposite ends of said connecting passage, and separate primary and secondary mixture supply passage means formed in said body and intersecting each of said branch passages.

2,713,334

## SELF-ADJUSTING VALVE

Frank J. Brown, Saginaw, Mich.  
Application June 25, 1954, Serial No. 439,436  
8 Claims. (Cl. 123—90)

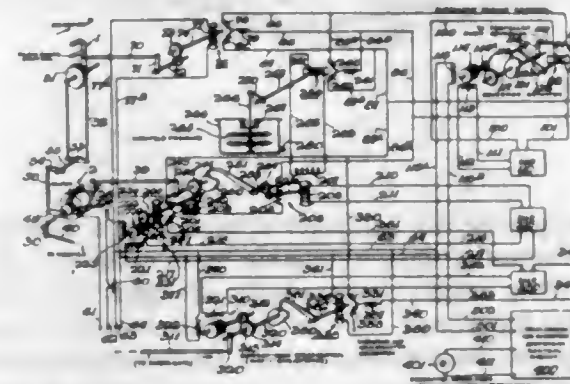


7. In combination in an internal combustion engine including an engine block with a cylinder therein and a passage leading through the wall of the block to said cylinder, said passage being formed with a valve seat at said cylinder, a poppet type valve in said passage with a head cyclicly opening and closing the same, said valve having a stem with an enlarged end, a tappet operable to move said valve axially to lift the head of the valve from the valve seat and open the passage, means actuating said tappet in timed relation, a cap telescoped over the end of said end of the stem with a clearance provided between the end of the stem and end of the cap, said cap being in engagement with the tappet, a split annular tapered gripper on said stem with the enlarged end thereof bearing on said cap and shoulder at the enlarged end of said stem, a spring washer with a tapered bore locking said gripper on the stem until there is thermal elongation of the valve and the force of the explosion in the cylinder drives the enlarged end of the stem further into said cap to decrease the effective length of the valve, and a spring under compression mounted between said washer and the engine block tending to retain the gripper in locked relation and returning said valve to original position when the engine cools.

2,713,335  
METHOD FOR REGULATING THE AIR INTAKE PRESSURE OF AN AIRCRAFT ENGINE

Joel D. Peterson, Rivervale, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application April 23, 1953, Serial No. 350,724  
8 Claims. (Cl. 123—102)



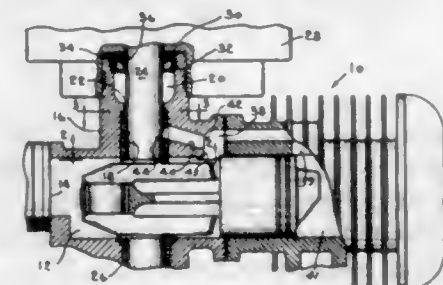
1. The method of regulating the combustion chamber intake pressure of an aircraft engine having a throttle and a variable speed supercharger comprising, selecting an intake pressure by positioning said throttle, and controlling the pressure drop across said throttle by regulating the speed of said supercharger while repositioning said throttle to maintain said selected pressure.

2,713,336

## MEANS FOR LUBRICATING AND COOLING THE CRANKSHAFTS OF TWO-CYCLE COMBUSTION ENGINES

Paul F. Quick, Hartford, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin

Application January 14, 1953, Serial No. 331,148  
2 Claims. (Cl. 123—196)



1. In a two-cycle internal combustion engine, a combustion chamber, a crankcase, a crankshaft intake port in said crankcase through which a mixture of fuel, lubricating oil and air in the form of a mist is intermittently introduced into said crankcase, a combustion chamber intake port for said combustion chamber, a fuel transfer passage leading from said crankcase to said combustion chamber intake port through which said mist is transferred at high velocity, said passage having a wall provided with an inner opening past which said mist flows, a main bearing bushing having one end connected to said crankcase; said bushing having an unloaded side, an outer opening in said unloaded side, a crankshaft in said main bearing bushing, there being sufficient clearance between said unloaded side and said crankshaft to permit transfer of part of said mist from said crankcase to said outer opening, a seal for said crankshaft outward of said bushing to prevent escape of said mist from said crankcase through said bushing, and a velocity pressure passage extending from said outer opening to said inner opening at an angle to said fuel transfer passage to permit the high velocity flow of fuel through said velocity pressure passage to cause said mist in said crankcase to enter said clearance.

2,713,337

## ARCHERY BOWS

Karl F. C. Wurster, Bremen, Ind.  
Application September 23, 1953, Serial No. 381,796  
6 Claims. (Cl. 124—24)



1. An archery bow having an elongated limb substantially greater in width than in thickness throughout a major portion of its length and provided with a substantially straight back side having a substantially flat surface, the limb being thicker at its base than at its tip and having a belly side opposed to said back side sloping generally from the base to the tip of said limb, comprising: a body of solid flexible resin having dispersed throughout a plurality of closely packed strands of glass monofilaments extending longitudinally of the limb and substantially parallel with one another and with the back side of the limb, said strands lying adjacent the flat surface of the back side of the limb extending continuously for substantially the entire length of the limb and said strands removed from the back side by a distance greater than the thickness of the tip of the limb extending from the thicker end and terminating at points on the surface of the belly side of the limb intermediate the base and tip thereof, whereby maximum reinforcement of the limb is obtained in the region of greatest tension when the bow is drawn.

2,713,338

## TOY SUB-MACHINE GUN

Serge Abagoff, Burbank, Calif.  
Application September 20, 1952, Serial No. 310,672  
1 Claim. (Cl. 124—27)



An improved toy sub-machine gun adapted to controllably sequentially catapult a plurality of projectiles therefrom, comprising: a hollow longitudinal barrel; a longitudinally movable plunger within the barrel slidably mounted for longitudinal movement with respect thereto, said plunger being provided with guiding portions in sliding engagement with longitudinally concentrically aligned apertures at opposite ends of a selected forward region of the barrel which position and guide the direction of movement of the plunger, said plunger being provided with a shoulder, a first resilient biasing coil compression spring means axially carried by the plunger between said shoulder and the rear end of said forward region of the barrel and adapted to normally bias the plunger into a forward projectile striking position; lip means carried by the rear of the plunger; handle means depending from the barrel adjacent the rear thereof; lip engaging means arranged for cooperation with the lip means; trigger means effectively connected to the lip engaging means and positioned in front of the handle means for convenient digital access from the exterior of the gun; means slidably mounting said lip engaging means and said trigger means for relative longitudinal movement with respect to the barrel; a second resilient biasing means normally effectively biasing said trigger means and said lip engaging means into a forward extreme position within the barrel; means effectively cooperable with respect to the lip engaging means.



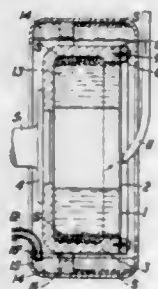
means to effectively disengage said lip engaging means from the lip means in response to rearward movement of the lip engaging means and the trigger means beyond a predetermined point, whereby the plunger will be released and forcibly impelled forwardly by the first resilient coil compression spring means and will strike a projectile carried in and adjacent to the forward end of the barrel and will forcibly catapult the projectile therefrom, and whereby upon manual release of the rearwardly positioned trigger means, the lip engaging means and the trigger means will be forcibly impelled forwardly by the second resilient biasing means and said lip engaging means will be moved into engagement with the lip means ready for a subsequent rearward actuation thereof for re-cocking the gun; said lip engaging means including tooth means carried by the front end of a slidably mounted longitudinal rearwardly directed connecting rod, which is provided adjacent its rear end with the downwardly directed slidably mounted trigger means positioned immediately in front of the handle means, the rear end of said connecting rod being also provided with a shoulder and a rearwardly extended portion slidably cooperable with respect to a fixed projection carried within the rear portion of the barrel means; said second resilient biasing means comprising a second coil compression spring axially carried by the rearwardly extended portion of the connecting rod between the shoulder thereon and the projecting portion of the barrel, whereby said lip engaging means is normally biased into a forward extreme position; said means adapted to effectively disengage the lip engaging means from the lip means including cam means arranged to vertically move the tooth means out of engagement with respect to the lip means at a predetermined point in the path of rearward travel of said lip engaging means, allowing the first coil compression spring to forcibly return the plunger to its normal forward position; and hollow longitudinal tubular magazine means adapted to carry a plurality of projectiles therein positioned immediately under the barrel means and provided with port means adjacent the forward end of said magazine means communicating the upper forward end of the hollow magazine means with the interior of the barrel means at a predetermined striking position in front of the plunger; said downwardly directed trigger means including an arcuate portion closely slidably partially encircling the exterior of the hollow tubular magazine and a lower downwardly directed finger-engageable portion positioned immediately in front of the handle means.

2,713,339

## CIRCULAR SAWS

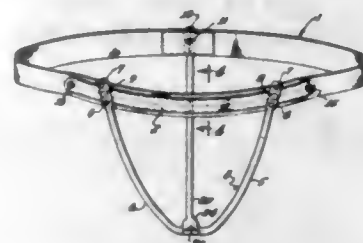
Cecil Frederick Sayers, East Finchley, London, England, assignor to National Research Development Corporation, London, England

Application June 3, 1953, Serial No. 359,280  
Claims priority, application Great Britain June 9, 1952  
8 Claims. (Cl. 125—15)



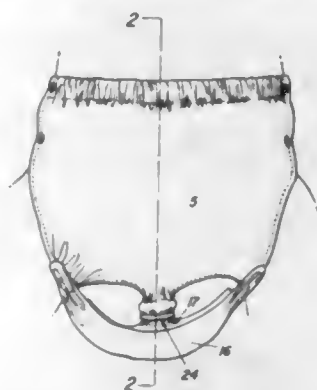
1. A circular saw comprising a flat annulus of strong thin material provided at its inner periphery with a cutting edge, and a saw mounting means which applies outward radial tension to the annulus.

2,713,340  
CONTOUR SUPPORTER BELT  
Paul Meminger, Los Angeles, Calif.  
Application June 28, 1954, Serial No. 439,607  
7 Claims. (Cl. 128—96)



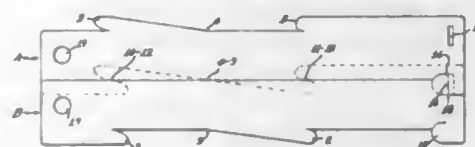
1. A supporter for bandages comprising, a thin elastic belt, a substantial nonstretchable pad mounted on the belt and of a length substantially to span the distance between the hip bones, the pad being downwardly curved from the ends thereof to conform to the contour of the lower abdominal marginal surface, and a strap mountable on the belt, the strap extending from the rear center of the belt to the pad.

2,713,341  
COMBINED BABY PANTS AND DRAINABLE BODY URINAL  
Laura A. Chambers, San Francisco, Calif.  
Application July 19, 1954, Serial No. 444,083  
2 Claims. (Cl. 128—286)



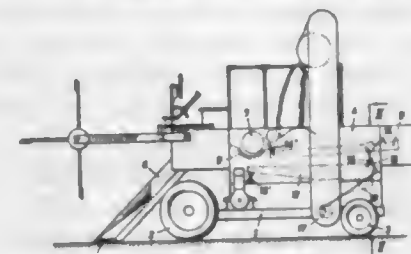
1. Baby pants comprising two pieces of material secured together throughout a portion of their margins to form a pants portion, and a depending bag portion, a discharge spout formed in said bag portion at its free end remote from said pants portion.

2,713,342  
VISIBLE INDEX  
George H. Landes, Wilton, Conn.  
Application November 6, 1952, Serial No. 319,051  
14 Claims. (Cl. 129—1)



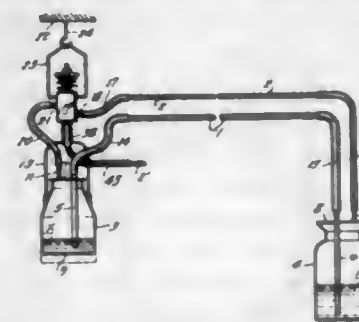
1. An index strip of thin, flexible material for connection in side-by-side, substantially planar relationship with like index strips having a longitudinally-disposed tab on one longitudinal edge pointing in one direction and a longitudinally-disposed tab on the other longitudinal edge pointing in the opposite direction, one side of each tab forming with an adjacent longitudinal side of the strip a narrow notch into which a portion of a like strip may extend when connecting the strips together in side-by-side relationship, the inner ends of said notches being opposite one another transversely of the strip, said strip having means for cooperating with means on like strips for interlocking the strips together.

2,713,343  
DEMOUNTABLE DRIVE SHAFT SUPPORT FOR SHAKERS AND SIEVES IN THRESHING AND CLEANING APPARATUS  
Alfred Wolf, Gottmadingen, Kreis Konstanz, Germany, assignor to Maschinenfabrik Fahr A. G., Gottmadingen, Kreis Konstanz, Germany  
Application February 2, 1953, Serial No. 334,493  
Claims priority, application Germany February 18, 1952  
1 Claim. (Cl. 130—24)



An easily removable drive shaft assembly for a threshing machine having a frame, a reciprocating sieve and a reciprocating shaker, and a crank disc and push rod to oscillate said drive shaft assembly, comprising a hollow drive shaft positioned between the sides of said frame having a lever arm connected to said push rod, a pair of lever arms connected to said reciprocating sieve and a pair of lever arms connected to said shaker, bearing means attached to the interior of the ends of said hollow drive shaft, a pair of journals inserted one in each bearing and projecting from the ends of said shaft through the sides of said frame, a pair of carrier plates rigidly attached one to each journal, and means for detachably attaching said carrier plates to said frame.

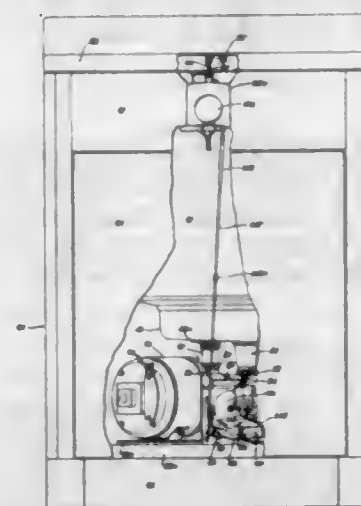
2,713,344  
FLUSHING SYSTEM FOR VACUUM FLUID LINES AND VALVE THEREFOR  
Albert F. Gallistel, Minneapolis, Minn., assignor to Perfection Manufacturing Corporation, Minneapolis, Minn., a corporation of Minnesota  
Application August 11, 1954, Serial No. 449,180  
18 Claims. (Cl. 134—56)



1. Reversing valve mechanism for a fluid line adapted to be connected to a pair of spaced fluid containers, at least one of said containers being air-tight and having a vacuum line leading therefrom, said mechanism comprising a valve body element and a valve core element mounted for reciprocatory sliding movements with respect to said body element, said body element defining a pair of air passages spaced apart longitudinally of the direction of movement of said valve core element, said valve core element having a passage therein registrable selectively with said passages in said body element upon reciprocatory movement of said valve core element, yielding means urging one of said elements in one direction of reciprocatory movement, means on one of said elements cooperating with said yielding means to support one of said containers, means on said valve core element cooperating selectively with spaced portions of said body element to define vacuum chambers, said valve mechanism defining passage means selectively connecting said vacuum line to said spaced vacuum chamber defining portions responsive to relative movement between said valve body and said valve core element in opposite directions, said

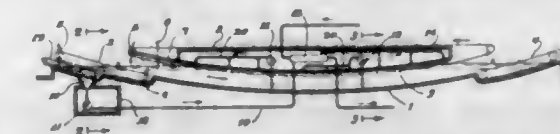
yielding means being sufficient to overcome the operatively empty weight of the container supported by said valve mechanism to close one of said vacuum chambers, the combined bias of said yielding means and the vacuum produced in said closed chamber when the fluid line is filled being sufficient to support the operatively filled weight of the container supported by the valve mechanism, but inadequate to support said filled container when the vacuum in said chamber is reduced due to emptying of said fluid line.

2,713,345  
DISHWASHER CONTROL MECHANISM  
Jacques Stanitz, Warren, Myron E. Ullman, Jr., Canfield, and John L. Habe, Cleveland, Ohio, assignors to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York  
Application January 5, 1951, Serial No. 204,506  
16 Claims. (Cl. 134—58)



5. In a dishwasher having a tub, a closure lid therefor, sealing means for the lid, and motor driven means for circulating water in the tub, lid locking and control mechanism including a starter switch electrically connected in circuit with said motor, a latching catch movably associated with and mounted exteriorly of said tub outside the lid sealing means for engaging said lid exteriorly of the tub in closed position outside the lid sealing means, and manual means movable in one direction for releasing said latching catch to open the lid and movable in the opposite direction for actuating said starter switch.

2,713,346  
PULPWOOD SOAKING DEVICE  
Björn Sucksdorf, Kuusankoski, Finland  
Application September 25, 1952, Serial No. 311,383  
11 Claims. (Cl. 134—107)



1. Apparatus for soaking pulpwood comprising a long channel open at both ends thereof, the bottom of said channel being curved longitudinally and convexly downwardly from its ends toward its intermediate position on the arc of a circle having a long radius, a first conveyor means for continually feeding a pile of pulpwood into said channel, a second conveyor means for transporting said pile of pulpwood through said channel, said second conveyor means extending in spaced relation with respect to said bottom of said channel and on an arc concentric with said arc of said bottom, a third conveyor means for discharging said pile of pulpwood from said channel, means for circulating water through said channel and means for controlling the temperature of said circulating water.

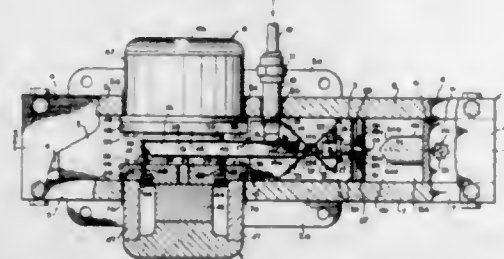


**2,713,347**  
**COMBINATION RAPID OR SLOW RINSER WITH**  
**MOVABLE PARTITIONS**  
 Lily Hazy, New York, N. Y.  
 Application July 30, 1952, Serial No. 301,650  
 8 Claims. (Cl. 134—115)



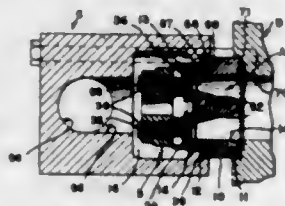
1. In a device of the character described, a hollow rectangular body, a rectangular base having a continuous groove therein to receive the lower end of said body when the latter is positioned thereon and adapted to form a fluid joint therewith, a door slidably carried on said body in vertical guides thereon, and a series of perforations formed in the wall of said body in a position to be uncovered by said door as it is raised.

**2,713,348**  
**CONTROL MECHANISM EMPLOYING THE**  
**JET-PIPE PRINCIPLE**  
 Henry B. Chatfield, Kinsman, Ohio  
 Application January 9, 1953, Serial No. 330,561  
 10 Claims. (Cl. 137—83)



1. A device for translating an electrical impulse of small magnitude into a force of large magnitude comprising a supporting structure; a distributor associated therewith; a distributor within the housing having connections for coupling the distributor to an element responsive to fluid pressure; means forming an orifice directed at but spaced from the distributor; means interconnected therewith forming a conduit for supplying a pressure fluid to the orifice; a pair of opposed bearings of the flexure type, one on each side thereof, providing point support for the means forming the conduit; a magnet supported from the supporting structure; an electrical winding disposed in the path of the lines of force of the magnet, said winding being carried by a moveable winding carrier; and, for communicating movement of the winding carrier to the means forming the conduit, means coupling the former to the latter.

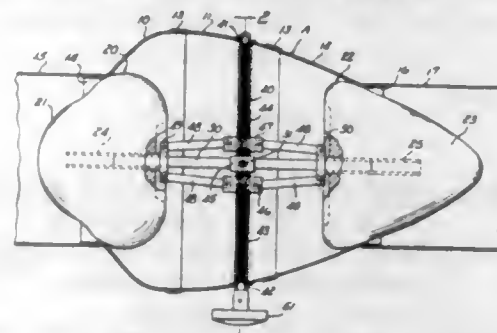
**2,713,349**  
**VALVE GAGES AND ASSOCIATED STRUCTURES**  
**FOR RECIPROCATING VALVE DISCS**  
 Lloyd T. Gibbs, Tulsa, Okla.  
 Application September 5, 1951, Serial No. 245,140  
 2 Claims. (Cl. 137—331)



1. In combination with a reciprocating valve disc and a cage having a wall provided with a valve disc facing face and an opposite face, a plurality of spaced-apart sockets extending from said valve facing face toward the

other face, two of said sockets being spaced substantially 180° apart and having openings from their bases to said opposite face, means to dampen movement of said disc toward said first-named face, including an expansion spring within one of said two of said sockets, an expansion spring within the other of said two of said sockets, stops having shanks extending through said two of said sockets and through said openings and with their ends protruding outwardly of said openings, flanges fixed to said shanks and urged into intimate contact with said disc only when said disc is unseated, by said springs bearing against said flanges, means carried by said protruding ends and bearing against said opposite face to adjust the tension of said springs bearing against said flanges whereby said flanges are free of said disc when said disc is seated, substantially alike second expansion springs within each of the other sockets, second stops having shanks extending into said other sockets and a flange fixed to each shank of said second stops with said second expansion springs bearing against said floating stops and said second stops in contact with said valve disc when said valve disc is seated.

**2,713,350**  
**DAMPER**  
 Nelson M. Payne, Farmington, Conn., assignor to Tuttle & Bailey, Incorporated, New Britain, Conn., a corporation of Connecticut  
 Application August 5, 1950, Serial No. 177,859  
 2 Claims. (Cl. 137—614.15)



1. A damper for use in air distributing systems comprising a housing having a generally bulbous nose portion provided with a circular axially disposed air inlet passageway and a generally frusto-conical tail portion provided with a similar circular and axially disposed air outlet passageway, an axially disposed non-rotatable fixed supporting shaft in the housing, a pair of closure members slidably mounted exclusively on said shaft within the housing for movement toward and away from seated positions in said inlet and outlet passageways, respectively, the closure member for the inlet passageway being provided with a generally bulbous nose and peripheral surfaces conforming to the contour of said housing adjacent said inlet passageway, the closure member for said outlet passageway being provided with a generally conical nose for disposition within said outlet passageway and having peripheral surfaces conforming to the contour of said housing adjacent said outlet passageway, said closure members in the open position of said damper being withdrawn from said seated positions and defining with said housing a substantially unobstructed non-turbulent air flow passage through the damper, a linkage for simultaneously reciprocating said closure members on said shaft, and manually adjustable means for actuating said linkage.

**2,713,351**  
**RESTORING LINKAGE FOR HYDRAULIC SERVO-**  
**MECHANISM OF TURBINE VALVE GEAR**  
 Francis H. Van Nest, Marblehead, Mass., assignor to General Electric Company, a corporation of New York  
 Application June 26, 1952, Serial No. 295,685  
 7 Claims. (Cl. 137—630.19)

1. In valve gear for an elastic fluid turbine including a lift-bar member for positioning the turbine inlet

valves, the combination of a pair of parallel spaced tension rods connected to pull the bar in the valve-opening direction, a main operating lever member having spaced legs with portions supported on fixed fulcrums and other spaced portions thereof connected to the respective tension rods, motor means with an output member connected to said lever member for positioning it in the valve-opening direction, pilot means for con-



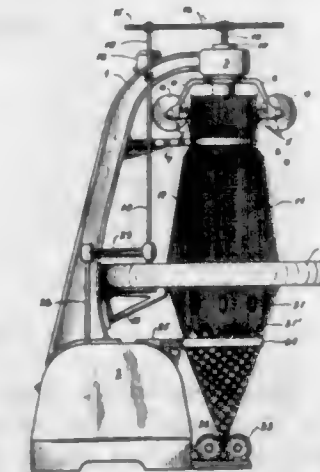
trolling the operation of said motor, and restoring linkage means independent of the force-transmitting members which connect the motor means to the tension rods, said linkage means being connected with said pilot means and tension rods to reposition the pilot means only in accordance with movement of the tension rods and independently of bending deflections and lost motion occurring in said force-transmitting members.

**2,713,352**  
**PIPE COUPLING**  
 Edward H. Schustack, Los Angeles, Calif.  
 Application June 16, 1951, Serial No. 231,940  
 3 Claims. (Cl. 138—99)



1. A pipe coupling or pipe patch clamp comprising a split flexible sleeve member, the edges of the split portion being bent over to form hooks, the distance between the edges of the split portion being slightly less than the circumference of the pipe so that when the sleeve is placed around the pipe a gap will be formed between the hooks, a pair of rigid draw-blocks for said hooks, each draw-block having means for engaging a hook on the sleeve member, each block being L-shaped in cross section and extending radially outwardly from the sleeve when the block is in sleeve-engaging position and each draw-block having adjacent edges and extending radially of the axis of the sleeve, one of said edges providing means forming a pivot point of engagement between the adjacent edges, a bolt extending through said draw-blocks and adapted when tightened to bring said adjacent edges together and decrease the gap between the adjacent hooks.

**2,713,353**  
**CIRCULAR WEAVING LOOM**  
 Giusto Casati, Barzano, and Carlo Cazzaniga, Monticello, Italy  
 Application July 3, 1951, Serial No. 234,993  
 Claims priority, application Italy December 21, 1950  
 8 Claims. (Cl. 139—13)



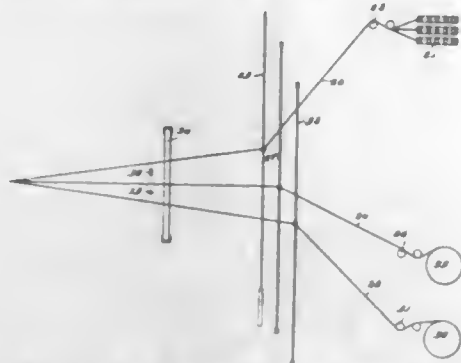
1. A circular weaving loom comprising, in combination, a hollow casing; elongated beam means fixed at a lower end thereof to said casing, extending upwardly from the latter, and having a top end portion located over and adjacent one side of said casing; a head member fixed to said top end portion of said beam means and being formed with a vertical opening passing therethrough; an elongated, hollow, straight guide tube having a top end portion extending into said opening of said head member and being joined to the latter, said guide tube extending downwardly to a point adjacent said casing; bearing means fixed to the underside of said head member and being located about said guide tube; a plurality of beams, adapted to carry warp threads, turnably mounted on said bearing means for respective rotation about horizontal axes which intersect to form a polygon about said guide tube; a first ring located in a horizontal plane beneath said beams, about said guide tube, and being connected to said beam means to be carried thereby, whereby warp threads from said beams may be guided downwardly therefrom through said first ring; a second ring of a larger diameter than said first ring located beneath the latter in a horizontal plane and being fixed to and located about said guide tube so that warp threads extending downwardly from said first ring may pass downwardly along the outside of said second ring; a circular plate fixed to said guide tube adjacent the bottom end thereof, being located in a horizontal plane, and having an annular toothed portion on its top side; a sleeve located about and being turnably mounted on said guide tube over and adjacent to said plate; weft carrying means engaging said annular toothed portion of said plate and being operatively connected to said sleeve to be driven upon rotation of said sleeve about said guide tube; an elongated main drive shaft extending downwardly through said guide tube and being turnably mounted therein; drive means engaging said drive shaft at a part thereof located above said head member to rotate said drive shaft; gear means connected to said drive shaft at a part thereof located below said guide tube and being operatively connected to said sleeve for turning the latter on said guide tube; support means located next to said casing on said one side thereof and adjacent the bottom of said casing; a pair of drawing rollers turnably mounted on said support means for rotation about a pair of horizontal, parallel axes, respectively, and being adapted to draw woven fabric extending downwardly from said guide tube and drive shaft and located about the latter; and a winding beam turnably mounted in said casing for rotation about a horizontal axis and being adapted to receive woven fabric from said drawing rollers.



2,713,354

**WEAVING WITH BINDER INTERPOSED BETWEEN PILE AND STUFFER WARP ENDS**  
 Frank W. E. Hoeselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania

Application March 3, 1952, Serial No. 274,567  
 39 Claims. (Cl. 139—39)



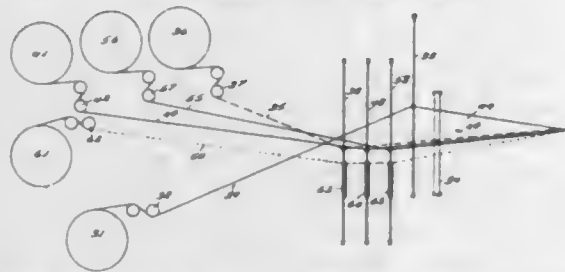
1. A pile fabric having a binder warp, at least one pile warp, a stuffer warp and wefts interwoven into a fabric, having the pile warp raised into a pile and having in each course in a particular area of the fabric at least two spaced binder warp ends woven in opposition to all the pile and stuffer warp ends, and at least one warp end between the spaced binder warp ends, and having per course at least one pile warp end arranged in the fabric between binder warp ends.

2,713,355

**MULTIPLE PILE STAGGERED W-WEAVING**  
 Frank W. E. Hoeselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania

Original application October 16, 1950, Serial No. 190,280.  
 Divided and this application March 3, 1952, Serial No. 274,568

9 Claims. (Cl. 139—39)



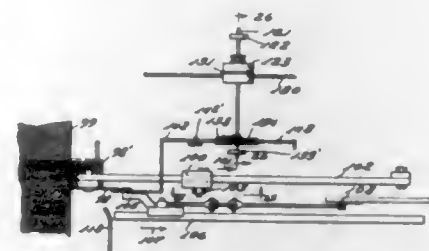
1. The method of weaving, using a single binder warp, at least two pile warps, wefts and a wire having a wavy upper contour throughout the portion over which the pile warps are raised, which comprises raising the single binder warp and lowering the pile warps to form a shed, inserting a shot of weft in the shed and beating up, fully raising one of the pile warps, raising all other pile warps half way and lowering the single binder warp to form a shed, inserting a wire in the shed beneath the raised pile warp and above all other warps, inserting a shot of weft in the shed above the lowered single binder warp and beneath all other warps, and beating up, raising the single binder warp, and lowering all other warps to form a shed, inserting a shot of weft in the shed and beating up, fully raising the next pile warp in succession, raising all other pile warps half way, and lowering the single binder warp to form a shed, inserting a wire in the shed beneath the raised pile warp and above all other warps, inserting a shot of weft in the shed above the lowered single binder warp and beneath all other warps, continuing the sequence until each pile warp in succession has been raised over a wire in the cycle, at least one of the wires having a wavy upper surface over which the pile warp is raised, and withdrawing the wires, including the wavy wire and by the withdrawal of the wavy wire creating a variant height in the pile projections in an adjoining transverse row.

2,713,356

**APPARATUS FOR WEAVING PILE FABRICS**  
 Frank W. E. Hoeselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania

Original application October 24, 1950, Serial No. 191,830.  
 Divided and this application March 10, 1952, Serial No. 275,758

2 Claims. (Cl. 139—41)

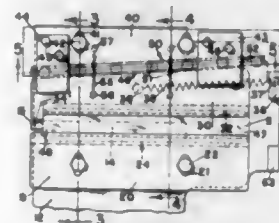


1. A loom having heddles including heddles for manipulating first and second pile warps and having means for raising the heddle for the first pile warp and the heddle for the second pile warp alternately into upper shed position, in combination with a set of wires having alternating first and second pile wires of different characters throughout the set, means for inserting the first pile wires in the upper shed of the first pile warp and the second pile wires in the upper shed of the second pile warp, and then reversing the relationship and inserting the second pile wires in the upper shed of the first pile warp and the first pile wires in the upper shed of the second pile warp, and means for omitting the insertion of a wire at the point of reversal of the relationship between the wires and the pile warps, thereby causing the change in relationship.

2,713,357

**SHUTTLE CHECK FOR LOOM**  
 George N. Peterson, Grafton, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

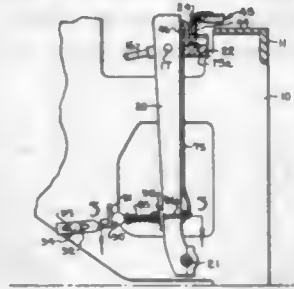
Application May 27, 1953, Serial No. 357,755  
 12 Claims. (Cl. 139—186)



1. In a shuttle box having an inner receiving end and an outer end toward which a shuttle travels after entering the receiving end, the shuttle box having parallel front and back sides, a wall extending along one side of the shuttle box, a checking member extending along the opposite side of the shuttle box mounted for lengthwise movement with respect to the shuttle box and having a shuttle engaging surface parallel to said wall, operating means associated with the checking member located along the path of the shuttle beyond said inner end of the shuttle box to be moved by the shuttle after the latter has entered said inner end of the box and is traveling toward said outer end of the box and when so moved causing said lengthwise movement of the checking member, and control means cooperating with said operating means and the shuttle effective when the checking member has said lengthwise movement to give the checking member a lateral bodily movement toward said wall to exert a stopping force on the shuttle and maintain said surface on the checking member parallel to said wall and the shuttle during said lateral movement.

2,713,358

**FILLING FORK WELL CLEANER**  
 Howard W. Carroll, Rock Hill, S. C.  
 Application January 8, 1954, Serial No. 402,889  
 2 Claims. (Cl. 139—379)



1. In a loom having an oscillatable lay provided with at least one transverse groove in the upper surface thereof, said loom having a frame and at least one lay sword supporting said lay and extending adjacent said frame, the combination of apparatus for removing and for preventing an accumulation of lint and the like in said groove comprising a tubular member extending adjacent said groove and being provided with at least one opening therein directed towards said groove, a cylinder mounted in fixed relation to said sword, a piston mounted for longitudinal movement in said cylinder and having a piston rod connected thereto and projecting rearwardly from said cylinder, spring means for normally urging said piston outwardly of said cylinder, means connecting said tubular member to the end of said cylinder remote from the end from which the piston rod projects, and means carried by said frame and being engageable with said piston rod in the course of each backward stroke of the lay and the sword whereby movement of the sword will cause the piston rod to move inwardly in said cylinder to cause a blast of air to be emitted from the opening in said tubular member adjacent the groove in the lay.

2,713,359

**WASHABLE ABSORBENT TEXTILE FABRICS**  
 Phoenix N. Dangel, Boston, Mass., and Herbert Knohl, Downers Grove, Ill., assignors to The Kendall Company, Boston, Mass., a corporation of Massachusetts  
 Application September 30, 1952, Serial No. 312,277  
 3 Claims. (Cl. 139—383)



2. A washable, absorbent, woven textile structure for diapers having at least three free and independent body plies and a two-ply tubular selvage, successive picks in at least one of said body plies dividing at the inner margin of the selvage, one of said picks passing into one ply of the selvage and the next successive pick in said body ply passing into the other ply of the selvage, all of the picks from all of the body plies passing into and continuing around the outer margin of the selvage.

2,713,360

**CARPET FABRICS**  
 Elsie C. Bloch and Godfrey Bloch, New York, N. Y.  
 Application December 31, 1953, Serial No. 401,604  
 5 Claims. (Cl. 139—391)



1. A pile floor covering comprising a plurality of pairs of separate loops of yarn uniformly disposed throughout the structure, said pairs of loops consisting of a loop of hard twist yarn and a loop of soft twist yarn.

2,713,361

**ABSORBENT DRYING CLOTHS**  
 Phoenix N. Dangel, Boston, and Philip S. Taylor, Walpole, Mass., assignors to The Kendall Company, Boston, Mass., a corporation of Massachusetts  
 Application October 23, 1952, Serial No. 316,526  
 3 Claims. (Cl. 139—426)



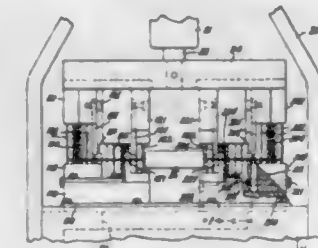
3. As an article of manufacture, a soft, flexible, absorbent drying fabric having substantial drying capacity while holding more than 75% water, based on the dry weight of the cloth, consisting of a weave of warp yarns and filling yarns having an interlacing frequency factor of between .6 and 1.25, said yarns consisting of absorbent cellulose fibers and mainly of staple fibers of regenerated cellulose, said regenerated cellulose fibers being not greater than 1½ denier.

2,713,362

**ADJUSTABLE FORMING AND CUTTING DIE STRUCTURE**

Alfred R. Stahl, Garnet Lake, N. Y., assignor to General Electric Company, a corporation of New York  
 Original application January 5, 1952, Serial No. 265,156.  
 Divided and this application October 22, 1952, Serial No. 316,283

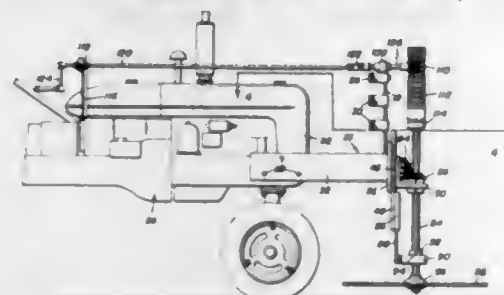
2 Claims. (Cl. 140—71)



1. In a turret fed machine for processing electronic equipment components each having right and left hand leads which are to be trimmed and formed, the combination of a base structure, a pair of left and right slide bases aligned for axial movement to and away from each other on said base structure, clamping means for adjustably securing said slide bases on said base structure, a pair of left and right hand forming dies carried one on each of the respective slide bases, each of said slide bases having a set of upstanding dowels secured therein, a pair of left and right hand forming punch holders arranged to slide on the respective dowel sets and each having spring means for biasing them upward away from the respective slide bases, each of said forming punch holders having a punch designed to mate with the respective forming die, a pair of left and right hand cut-off slides slidably mounted one on each of the respective slide bases for movement toward and away from the respective forming dies, each of said cut-off slides having a cut-off die member and a set of upstanding dowels stationary with respect thereto, a pair of left and right hand cut-off punch holders journaled on the respective last-mentioned dowel sets and provided with spring means biasing said holders upward away from said cut-off slides and each provided with a cut-off punch mating with the respective cut-off die, and means for moving all of said punches simultaneously into cooperation with the respective dies.

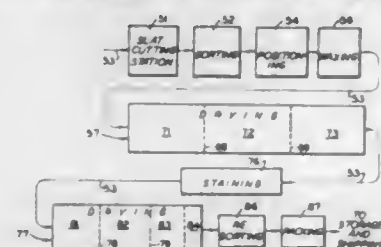


**2,713,363**  
**TREE FELLING AND LOG SAWING TRACTOR MOUNTED SAW**  
 John T. Ryals, Unionville, Mo.  
 Application September 9, 1952, Serial No. 308,567  
 2 Claims. (Cl. 143—43)



1. A tractor mounted saw comprising a supporting frame attachable to the tractor, a horizontal drive shaft drivable from the tractor and rotatably carried by said supporting frame, a circular saw blade, saw blade support means pivotally carried by said drive for selectively positioning said saw blade in vertical and horizontal planes, said support means including an L-shaped support pivotally carried by said drive shaft, an L-shaped hanger pivotally carried by said drive shaft, means releasably securing said support and said hanger to said supporting frame in rotatably adjusted positions about said drive shaft, a first gear on said drive shaft, a second gear journaled in said L-shaped support in meshing engagement with said first gear, a bearing carried by said hanger in alignment with said second gear, a saw shaft slidably extending through said second gear and said bearing and drivingly connected to said second gear, means carried by said bearing for locking said saw shaft against sliding movement therethrough, said hanger being adjustable in length.

**2,713,364**  
**METHOD OF TREATING WOOD SLATS**  
 Edwin A. Smith, Stockton, Calif.  
 Application September 21, 1954, Serial No. 457,452  
 5 Claims. (Cl. 144—28)



3. A method of preparing wood pencil slat stock including the steps of cutting the stock into a plurality of elongated slats having the grain substantially parallel with the length thereof and having a width several times the thickness, of arranging said slats in a plurality of rows, said slats being edge supported with the grain in substantially horizontal attitude, the ends of said slats in each of said rows being spaced from the ends of the adjacent slats in said each of said rows by a predetermined amount, said rows being alternately staggered whereby the end portions of the faces of each of said slats in each of said rows are overlapped by the adjacent end portions of the faces of each of said slats in the adjacent rows, and of subjecting said slats to a slat-drying atmosphere.

**2,713,365**  
**APPARATUS FOR PROCESSING LOGS AND THE LIKE**  
 Josef Rautnig, Mannheim-Sandhofen, Germany  
 Application May 21, 1953, Serial No. 356,365  
 Claims priority, application Germany June 24, 1952  
 27 Claims. (Cl. 144—208)

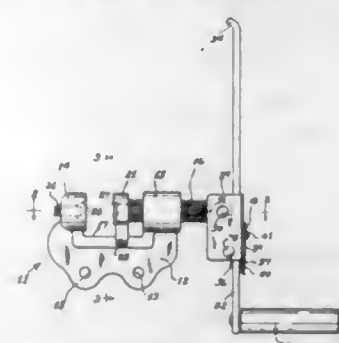
18. In an apparatus for processing logs and the like, in combination, guide means for guiding a log along a

predetermined log path; shaft means mounted for rotation about an axis spaced from said predetermined log path and disposed at an angle thereto; and a plurality of elongated flexible beating members having one of their ends mounted on said shaft means, said mounted ends being arranged adjacent to each other along a curved path extending about the outer surface of said shaft means



so that the free ends of said beating members extend into said predetermined log path, whereby rotation of said shaft means will result in beating by said beating members of a log guided by said guide means along said predetermined log path so as to cause simultaneous rotation of the log about its axis and its movement along said predetermined log path.

**2,713,366**  
**CRANK-OPERATED NUT CRACKER**  
 Eugene P. Kennedy, Tulsa, Okla.  
 Application April 12, 1954, Serial No. 422,339  
 2 Claims. (Cl. 146—16)

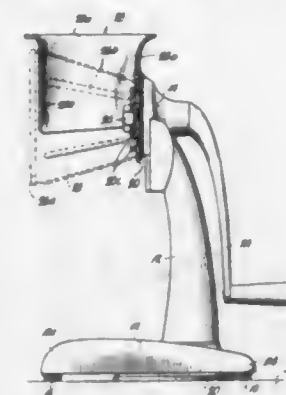


2. In a nut cracker, a body member, a pair of cooperating cracker jaws carried by said body member, said jaws being formed with opposing recesses to receive opposite portions of a nut, a drive screw threaded through a portion of the body member and being arranged to move one of the jaws toward the other, a channel member rigidly secured to the end of the drive screw, a crank bar slidably received in said channel member adjacent the end of said drive screw for common rotational movement with said drive screw, means on the end of said crank bar engageable with said channel member to limit outward sliding movement of said crank bar, a locking projection on the intermediate portion of said crank bar, and a yieldable leaf spring member secured to said channel member and being formed and arranged to at times lockingly interengage with said locking projection.

**2,713,367**  
**KITCHEN SLICING AND SHREDDING MECHANISM AND LATCHING MECHANISM THEREFOR**  
 Frank E. Aberer, Kansas City, Kans., assignor to John C. Hockery, Kansas City, Mo., as trustee  
 Application April 27, 1953, Serial No. 351,249  
 13 Claims. (Cl. 146—91)

1. In a device of the character described, a base with an upstanding pedestal, a generally horizontal shaft carried at the upper end of the pedestal, a crank connected to one end of the shaft for turning same, a cup-shaped member having a centrally apertured bottom adapted to be advanced over the other end of the shaft

to a position spaced inwardly thereof, latching means engageable with said bottom when the latter is in said position and effective when so engaged to restrain said cup against movement axially of the shaft, other means effective when said member is in said position to form



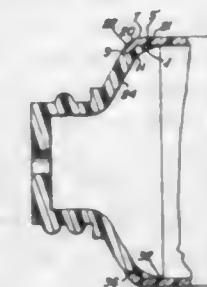
a direct torque connection between said shaft and said bottom whereby torque is transmitted from the shaft to the member independently of said latching means, and said latching means being disengageable from said member at will to permit the latter to be withdrawn axially from the shaft.

**2,713,368**  
**HOLDER FOR DEFECT CARDS**  
 Harry M. Thomas, Piedmont, Calif.  
 Application March 30, 1953, Serial No. 345,351  
 8 Claims. (Cl. 150—0.5)



3. A defect card container comprising an elongated, thin body open at the top, said body being rabbeted along the top edge of the back, and a cover for the open top of said body, said cover extending into the rabbet in the back top edge of the body and extending up over the open top of the body and down on the sides and front thereof, said cover being formed of a flexible material and hinged along the top back edge thereof to provide a hinge facilitating flexing of said cover from open to closed position, said cover and body being formed with cooperating grooves and ridges sealing said container against ingress of moisture when said cover is in closed position.

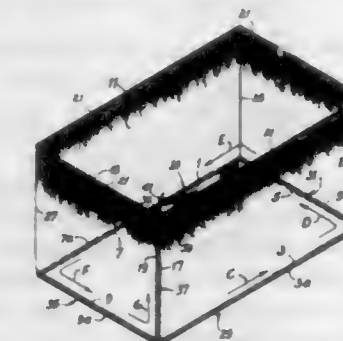
**2,713,369**  
**THERMOPLASTIC CONTAINER**  
 Andre Strahm, Vevey, Switzerland, assignor to Uni-Tubo S. A., Vevey, Switzerland, a corporation of Switzerland  
 Application December 28, 1954, Serial No. 478,017  
 4 Claims. (Cl. 150—0.5)



1. A container of thermoplastic material having a tubular body portion and a head portion integrally fused

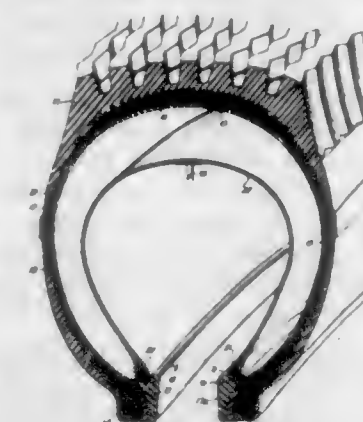
thereto, said head portion provided with a narrow stepped marginal area overlapping and fused with a narrow band area of the body portion at one end of the same on the outer and top surfaces of the head portion to form a joint area, said joint area comprising a continuous circumferential downwardly extending portion of the stepped margin of the head portion disposed inside of the body wall and the narrow marginal band of the body wall extending partially over the top surface of the head portion.

**2,713,370**  
**BAG**  
 James L. Quinn, Jacksonville, Fla., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri  
 Application February 12, 1953, Serial No. 336,596  
 4 Claims. (Cl. 150—11)



1. A ventilating bag for produce or the like comprising a rectangular bottom panel of open-mesh fabric and a side and top-forming strip of open-mesh fabric having a length generally equal to the perimeter of the bottom panel, the strip being joined along one lengthwise margin thereof to the perimeter of the bottom panel and having its ends joined together by a continuous stitched seam starting at the point where the ends of the strip meet one another and the perimeter of the bottom panel and continuing completely around the perimeter of the bottom panel to said meeting point and thence up the meeting ends of the strip to the top thereof.

**2,713,371**  
**TUBELESS TIRE**  
 Frank S. King and William S. Coben, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
 Application November 4, 1950, Serial No. 194,129  
 15 Claims. (Cl. 152—341)



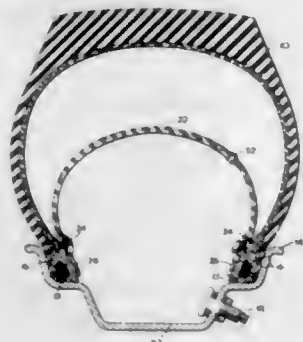
1. A tubeless tire of the open-beaded type characterized by a removable diaphragm normally in contact therewith and therein, said diaphragm having inextensible edge portions and being of the general form of an open-beaded tire, and channel-shaped seats formed on and integral with the bead portions of the tire to receive the inextensible edge portions of the diaphragm.



2,713,372

**TUBELESS TIRE AND SAFETY DIAPHRAGM COMBINATION**

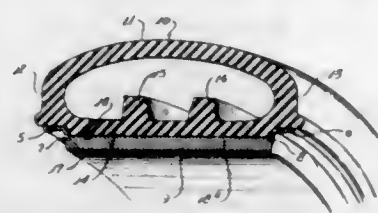
Burgess Darrow, Akron, Ohio, assignor to The Firestone Tire &amp; Rubber Company, Akron, Ohio, a corporation of Ohio

Application April 20, 1950, Serial No. 157,064  
10 Claims. (Cl. 152-342)

1. The combination of a rim, a tubeless pneumatic tire and a toric-shaped, flexible but inextensible diaphragm of fabric-reinforced rubber, the outside periphery of the diaphragm being spaced inwardly from the inside periphery of the tire but being closer to the tire than to the rim the diaphragm at each lateral edge terminating in endless inextensible beads, flexible fabric-reinforced rubber lips extending radially inwardly of the diaphragm beads, adhesive means removably securing the laterally outside surfaces of the lips and the diaphragm beads to the laterally inside surfaces of the bead portions of the tire, said lips terminating short of the rim, a valve extending through the rim for inflating the inside of the diaphragm, said diaphragm having a restricted passage therethrough for equalizing the air pressure on opposite sides of the diaphragm.

**2,713,373  
IMPLEMENT TIRE**

Walter J. Daugherty, Cuyahoga Falls, Ohio, assignor to The Firestone Tire &amp; Rubber Company, Akron, Ohio, a corporation of Ohio

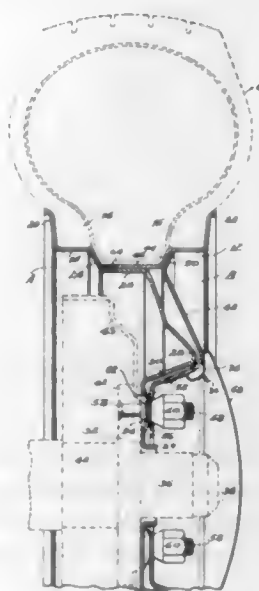
Application April 18, 1952, Serial No. 283,105  
1 Claim. (Cl. 152-384)

In combination a tire and a farm implement wheel, said tire comprising an endless, hollow, body portion composed of rubber-like material and being adapted to operate in service with atmospheric pressure, said tire having a crown, sidewalls and a base, said sidewalls being adapted to carry a substantial portion of a load on said tire, the sectional height of said tire being less than its width, a plurality of circumferentially extending radially outwardly projecting ribs integral with said base inside the tire, said ribs radially of the tire having a height of not less than 15% or more than 30% of that portion of the sectional height of the tire lying radially outward of the base of the tire, the radial inner surface of the tire base having circumferentially spaced, transversely extending grooves formed therein, said wheel comprising a rigid tire rim disposed at the radial outer extremity of the wheel, said rim having a base portion and integral radially outwardly extending flanges which flanges terminate in axially extending shoulders which shoulders contact and support said tire sidewalls, said rim base having transversely extending ribs fitted into the said grooves in the inner surface of the tire.

2,713,374

**SECTIONAL VEHICLE WHEEL**

George N. Fortuna, Rochester, N. Y.

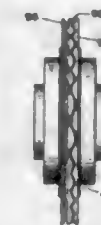
Application December 14, 1951, Serial No. 261,709  
1 Claim. (Cl. 152-412)

A demountable vehicle wheel for the support of a pneumatic tire, said wheel comprising separable inner and outer overlying body sections each embodying, an outwardly dished pressed metal stamping including a substantially flat disk portion at the center, such disk portions being superposed upon one another and provided with aligned central openings for the reception of a hub and with a plurality of bolt holes surrounding the openings, the peripheral portion of the inner body section being bent to comprise integrally, and progressively toward the center, first, a substantially radially disposed flange for laterally engaging the inner tire bead, thence axially outwardly to form a felly support for that bead, thence toward the wheel axis and again outwardly to produce a drum portion, and the peripheral portion of the outer section being formed to comprise progressively toward the center, first a substantially radially disposed flange for laterally engaging the outer tire bead, thence axially inwardly to form a felly support for that bead, thence toward the wheel axis and again inwardly to produce a drum portion telescoping snugly and axially upon the drum portion of the inner wheel section and bearing radially against it, the two telescoped drum portions serving as the bottom of a circumferentially extending tire-receiving channel, a plurality of L-shaped slots formed in one of said telescoping drum portions, each slot having an entrance portion extending axially from a free edge of such drum portion and a retaining portion extending circumferentially from the entrance portion, a corresponding plurality of pins mounted on the other of said telescoping drum portions and adapted to enter the entrance portions of said slots when the two drum portions are being telescoped together and then to enter the retaining portions of said slots when one of said wheel sections is slightly rotated relative to the other section, said bolt holes in the disk portions of the two sections being out of alignment with each other when said pins of one section are in the entrance portions of the respective slots of the other section, said bolt holes being aligned with each other when said pins of one section are in their normal locked position in the retaining portions of the respective slots, so that hub bolts may pass through the aligned bolt holes of both wheel sections to secure both wheel sections to a wheel hub and also to hold one wheel section against rotation relative to the other section to a position releasing said pins from said retaining portions of the respective slots.

2,713,375

**FIN STRAIGHTENING DEVICES**

Robert M. Stikeleather, Holbrook, Mass., assignor to Aerofin Corporation, Syracuse, N. Y., a corporation of New Jersey

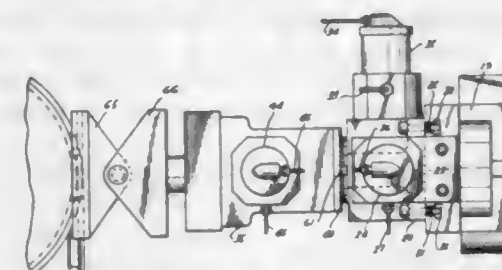
Application October 12, 1950, Serial No. 189,854  
7 Claims. (Cl. 153-32)

2. In combination with a machine for rotating and advancing a spirally finned tube, a device for straightening the shape of the peripheral portion of the fin, said device comprising a pair of discs having adjacent scalloped surfaces for receiving and gripping a convolution of the fin, ridges on one of said surfaces being opposite depressions in the other of said surfaces, means for supporting said discs for rotation about a common axis and spaced from the tube axis, and means for rotating the discs.

2,713,376

**METAL-FORMING MACHINE**

Cyril J. Bath, Chagrin Falls, Ohio, assignor to The Cyril Bath Company, Cleveland, Ohio, a corporation of Ohio

Application December 17, 1951, Serial No. 262,016  
19 Claims. (Cl. 153-40)

1. In a machine of the character described and comprising a base, a power driven rotatable turntable on the base and adapted to support a side face die, a metal-forming piston and cylinder assemblage mounted on the base with the piston axis extending generally toward and away from the turntable in a plane generally normal to the turntable axis, said assembly including a tool supporting member adapted to support a tool for operatively connecting the piston to the stock, a supplemental metal-forming piston and cylinder assemblage rotatable with the turntable, clamping jaws carried by the piston of the supplemental assembly and adapted to grip an end of a length of stock for exerting metal-forming tension thereon, by the piston of the supplemental assembly, control means for controlling the admission of fluid pressure to the supplemental assemblage so as to operate the supplemental assemblage selectively for moving the end of the stock under said tension relative to the turntable and for holding the end of the stock in fixed position relative to the turntable and independent control means for controlling the admission of pressure fluid to the other assemblage independently of the supplemental assemblage.

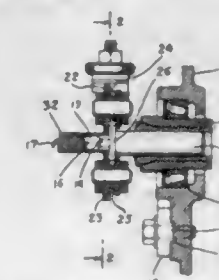
15. In a machine of the character described, a base, a horizontal power driven rotatable turntable on the base, a side face die mounted on the turntable for rotation therewith, clamping means for connecting one end of a length of stock for rotation with the turntable, a metal-forming piston and cylinder assemblage mounted on the base with the piston axis extending generally horizontally toward and away from the turntable, a guideway fixed in position relative to the cylinder and extending parallel to the axis thereof, a carriage reciprocable along, and guided by, the guideway, and

connected to the piston for movement thereby, a tool supporting member, mounting means mounting the member on the carriage for movement therewith and for guided vertical bodily movement in opposite directions relative thereto parallel to its original position, a wipe forming shoe carried by and movable with the member and having a lateral wiping face complementary to and engageable with the side face of the die, the side face of the die sloping in a direction axially of the die whereby the instantaneous area of the side face of the die presented for engagement by the shoe is at different elevations relative to the plane of the turntable in different rotated positions of the side face die, guiding means rotatable with the die, cooperative means operatively connected to the shoe and in engagement with and operated by the guiding means of the die and constraining the shoe to move vertically in opposite directions in accordance with the elevation of the instantaneous area of the die engaged by the shoe.

2,713,377

**METHOD AND APPARATUS FOR PRODUCING FILTER COILS**

Charles M. Tursky, Plainfield, N. J.

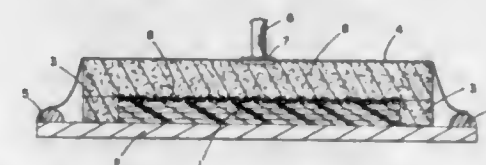
Application February 20, 1953, Serial No. 337,949  
4 Claims. (Cl. 153-64)

4. The herein described method of producing filter coils, which comprises tensionally winding a wire strand upon a multiple surface work area, said work area comprising a series of circumferential flats having intersecting corners, of a rotatable mandrel, applying sufficient pressure to the wire strand on said work areas in the operation of winding the strand to form enlargements in the coils at said corners of said flats, and controlling the tension of coil winding to govern the degree of final setting of the wound coil in governing the spiral arrangement of the enlargements one with respect to the other on the finished filter coil to thereby control the filter characteristics of the coil.

2,713,378

**APPARATUS FOR LAMINATING PLASTICS**

Max A. Nadler, Compton, and Robert E. Medick, Inglewood, Calif., assignors to North American Aviation, Inc.

Application March 25, 1952, Serial No. 278,431  
4 Claims. (Cl. 154-1)

1. Means for pressing sheets of laminated plastics containing volatile resins comprising a hard unyielding surface, said laminated plastic being positioned against said surface; a sheet of rough weave material, said material having a release agent applied thereto, said material covering the surface of said laminated plastic opposite the unyielding surface; a plurality of removable relatively stiff pads having porosity in all directions, said pads being placed around the edges of said laminated plastic and covering said rough weave material, said pads which cover said rough weave material being sufficiently thick



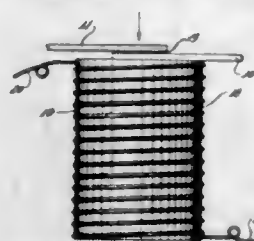
to absorb all of the resin released from said plastics; an elastic membrane, said membrane covering said pads; a vacuum line situated above the pad-covered rough weave material, said vacuum line passing through and airtightly sealed to said membrane; sealing means for making an airtight seal between said elastic membrane and said unyielding surface, whereby the space between said membrane and said surface is evacuated, causing the atmosphere to press said laminated plastic.

2,713,379

# **MAGNETIC DEVICE FOR CLAMPING OVERLAPPING PARTS DURING ADHESIVE BONDING**

Homer B. Sisson, Detroit, Mich., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application November 25, 1952, Serial No. 322,391  
2 Claims. (Cl. 154—1)



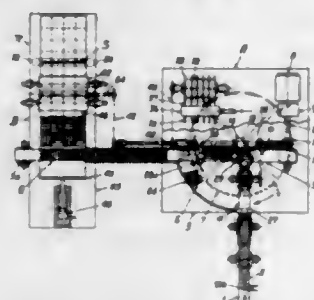
1. A magnetic device for squeezing together overlapping magnetizable elements of a joint having an intermediate time-setting adhesive film, said device including a bar magnet and a non-magnetic sleeve surrounding said bar magnet, and said magnet having sufficient magnetic force to exert constant squeezing pressure on the joint to compensate for shrinkage of the adhesive during its setting cycle.

2,713,380

# **MACHINE FOR THE PRODUCTION OF PAPER-GLUED FLOORING SLABS**

Manfred Baumann, St. Margrethen, Switzerland

Application August 7, 1953, Serial No. 372,852  
Claims priority, application Switzerland August 9, 1952  
7 Claims. (Cl. 154—1.6)

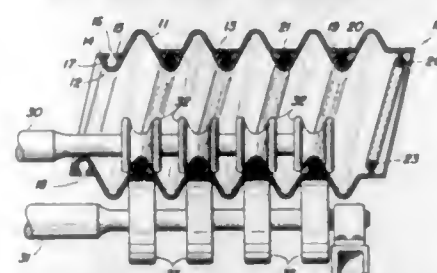


1. A machine for the production of paper-glued flooring slabs, comprising a feed conveyor belt for feeding parquet strips placed parallel to each other upon the belt, a first distributing conveyor belt constituting a continuation of said feed belt and receiving the strips from the feed belt, a second distributing conveyor belt extending at right angles to the first distributing conveyor belt and having one end receiving strips from the first distributing conveyor belt, at least one carrier for holding a group of strips, rotary means connected with said carrier and swinging said carrier to remove a group of strips from the first distributing conveyor belt and place it upon the second distributing conveyor belt crosswise to strips received by said one end of the second distributing conveyor belt from the first distributing conveyor belt, a slide located adjacent the other end of the second distributing conveyor belt for removing therefrom groups of strips, a device for feeding paper to the removed groups of strips, a device for coating a surface of said paper with glue, and a device for applying the glue-carrying surface of the paper to the removed groups of strips to form flooring slabs.

2,713,381

# **METHOD OF MAKING FLEXIBLE HOSE**

Werner G. Seck, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application February 6, 1953, Serial No. 335,475  
6 Claims. (Cl. 154—8)



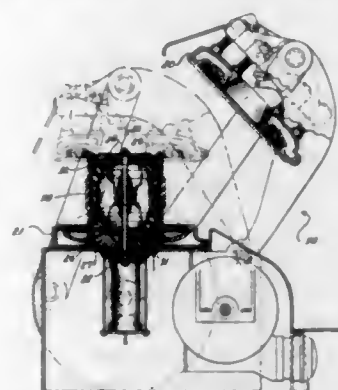
4. The method of making a flexible hose from a strip of elastomeric thermo-plastic material having a central section and laterally extending sections in which one of said edge sections is formed with a reentrant groove and the other edge section is formed with a protuberance for interlocking engagement with said reentrant groove and in which the other of said edge sections is formed with an interior channel, comprising spirally winding said strip into a tubular formation while interlocking the protuberance and reentrant groove of the edge sections with each other to form a spiral seam between them and simultaneously feeding a spirally wound reinforcing wire into said interior channel to lock the spiral seam.

2,713,382

# **TIRE BEAD LEDGE CONSTRUCTION**

George P. Bosomworth, Frank S. King, and Richard C. Sprague, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application May 2, 1952, Serial No. 285,674  
6 Claims. (Cl. 154—9)



1. In combination with an annular, hollow, curing bag of the type having a solid base portion, a pair of molding rings for molding a ledge-shaped contour on the lateral inside surface of the bead of a pneumatic tire cured on said bag, said bag having continuous, circumferentially extending, recesses in each lateral side of the base portion thereof, said curing rings being removably disposed in said recesses, said rings each being comprised of a rigid, annular, radial, inner portion and a resilient, flexible, annular, radial, outer portion, said radial inner portion substantially defining said molded ledge-shaped contour, said radial outer portion tapering axially and radially outwardly to terminate in a thin edge.

3. A method of making a tubeless tire of the character described comprising the steps of inserting a curing bag in a partially shaped unvulcanized tire, inserting a rigid curing ring between the curing bag and each bead of the tire with the rings spaced apart and a portion of said bag interposed therebetween, placing the assembly of tire, bag and rings in a tire mold, subjecting the curing bag to internal tire molding pressure and the tire to vulcanizing temperature whereby said rings are forced against and shape the lateral inside surface of the tire

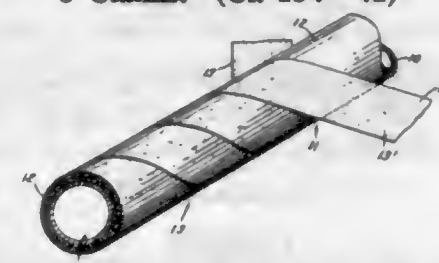
beads, molding and vulcanization of the tire is accomplished with the said rings shaping the radially inner surface of the tire beads.

2,713,383

# **PIPE COVERING AND METHOD OF APPLYING THE SAME**

Ted Kennedy, Ann Arbor, Mich., assignor to The Trenton Corporation, Ann Arbor, Mich., a corporation of Michigan

Application January 28, 1952, Serial No. 268,492  
3 Claims. (Cl. 154—41)



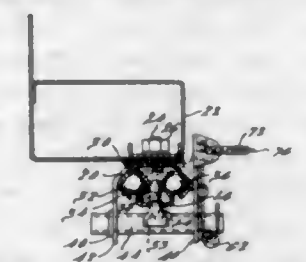
1. The method of protecting pipe from corrosion which comprises heating a heat-softenable corrosion-resistant material to a temperature above its softening temperature, applying a coating of the heat softened material to a length of pipe, covering the coating with a thermoplastic resin film which shrinks at a temperature lower than the temperature at which the coating material is applied to the pipe, by spirally winding a strip of said resin film around the coating before the latter cools to a temperature below the shrinking temperature of the resin film, and shrinking the strip of resin film into intimate contact with the coating solely by the heat of the coating.

2,713,384

# **SEAT SLIDE CO-ORDINATING MECHANISM**

Ralph H. Rosenberg, Detroit, Mich., assignor to Ainsworth Manufacturing Corporation, Detroit, Mich., a corporation of Michigan

Application December 12, 1952, Serial No. 325,632  
3 Claims. (Cl. 155—14)



1. In a device of the character described, a seat slide having a lower stationary part and an upper movable part, a pair of transversely aligned arms fastened to said movable part depending below and disposed in embracing relation to said stationary part, a rockshaft extending transversely below said stationary part and carried by said arms, a latch fastened to said rockshaft between said arms swingable against said stationary part, catch means on said stationary part engageable by said latch to hold the movable part of the slide in a selected adjusted position on said stationary part, spring means holding said latch normally engaged with said catch means, a lever fastened to the shaft at the outer side of one arm, and stop means on said rockshaft at the outer side of the other of said depending arms co-operative with said lever to hold said shaft axially fixed with respect to said arms and to maintain said latch properly aligned with said catch means.

2,713,385

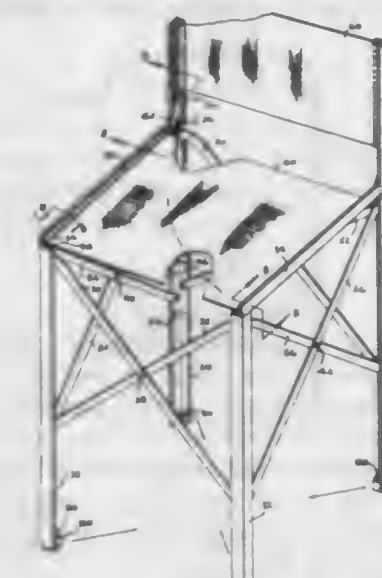
# **FOUR WAY FOLDING CHAIR**

Dwight E. McQuilkin, Roanoke, Va.

Application April 11, 1951, Serial No. 220,468  
7 Claims. (Cl. 155—140)

5. A folding chair having L-shaped in cross-section front and back legs and seat side rails, each of the said

side rails being pivoted to a link pivoted to a slidable follower in each of said back legs, means supporting the said side rails at right angles to the said back legs, means sup-



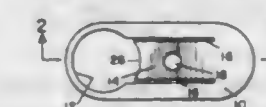
porting the said side rails at right angles to the said front legs, and means maintaining a flexible seat and a flexible back between the said side rails and back legs respectively.

2,713,386

# **FASTENING MEANS FOR CHAIR BACK**

Jacob Holtz, Philadelphia, Pa.

Application February 19, 1954, Serial No. 411,407  
2 Claims. (Cl. 155—196)



1. For use with a chair the frame of which includes spaced vertical supports and the back rest of which has holes extending upwardly from the bottom thereof for receiving said supports to mount said rack rest on said supports a fastening device for securing each of said supports to the bottom of said back rest, each of said devices including a body portion having an arcuate opening formed therein, a tongue having one end thereof carried by said body portion and having its free end disposed near said opening, said tongue being arched originally and being of such length that, when it is in its arched condition, the free end of said tongue coacts with the wall defining said arcuate opening to form an enclosure of a diameter larger than the diameter of the support passing therethrough, and when said tongue is in its flattened condition, the free end of said tongue moves toward the wall defining said arcuate opening and in the plane of said wall to make the diameter of said enclosure smaller than the diameter of said support, said tongue having a heel therein for the passage of a screw whereby, the head of a screw passing through said hole and engaging the bottom of said back rest will engage and flatten said tongue and force its free end into engagement with said support.

2,713,387

# **OIL BURNER**

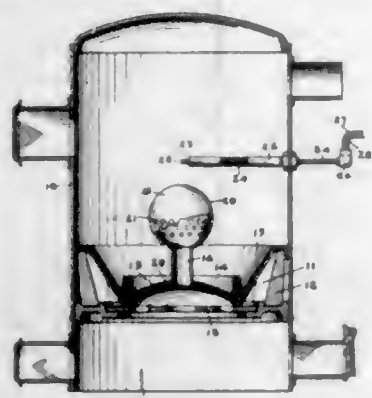
Arley L. Brunson, Elwood, Ind.

Application June 12, 1951, Serial No. 231,179  
1 Claim. (Cl. 158—91)

An oil burner comprising a fire pot having a floor with an annular oil collecting depression therearound, and said floor having a central opening therethrough; a tubular column extending upwardly from said floor axially of said opening providing an air flow column from the under side of the floor; a hollow spherical cap across the top of said column, into which cap said column opens for full flow of said air therein; said cap having air discharge openings therethrough confined to



that area thereof below a central horizontal plane there-through; and oil and water conduit means leading to a discharge end spaced centrally above said cap for dripping of oil and water thereon, the convex surface of

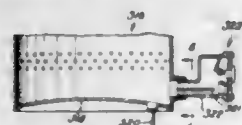


the cap causing the oil and water to be dispersed under influence of gravity from the upper central zone of the cap to flow downwardly and outwardly toward said air discharge openings in the cap.

2,713,388

## OIL BURNING SYSTEM

Edward J. Todoroff, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.  
Application April 22, 1952, Serial No. 283,620  
8 Claims. (Cl. 158-91)



1. In an oil burning system, a first combustion receptacle, means adapted to supply combustion oil to said first combustion receptacle at a first level of entrance into said first combustion receptacle and gradually to increase the oil level in said receptacle, means adapted to supply combustion air to said first combustion receptacle, a second combustion receptacle, an oil conduit means adapted to connect said second combustion receptacle with said first combustion receptacle at a second level above said first level, whereby as oil is supplied to said first combustion receptacle and said oil in said first combustion receptacle rises to said second level oil will flow through said oil conduit means from said first combustion receptacle to said second combustion receptacle, means adapted to supply combustion air to said second combustion receptacle, electric ignition means within said second combustion receptacle, said electric ignition means being adapted to heat said oil in said second combustion receptacle whereby part of said oil in said second combustion receptacle will be vaporized, mixed with said combustion air, and ignited in said second combustion receptacle, a flame conduit means separate from said oil conduit means adapted to connect said second combustion receptacle with said first combustion receptacle above said second level whereby flame from the burning oil in said second combustion receptacle will traverse said flame conduit means and ignite said oil in said first combustion receptacle.

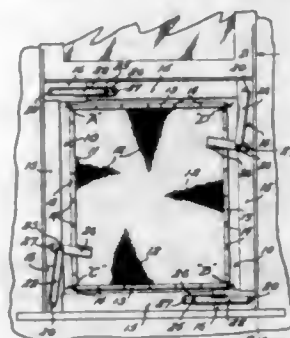
2,713,389

## ADJUSTABLE SCREEN CONSTRUCTION

William Kitzman, Willow City, N. Dak.  
Application October 24, 1952, Serial No. 316,654  
8 Claims. (Cl. 160-374)

1. An adjustable screen construction comprising a fixed sized rectangular screen carrying element, a pair of channel members embracing and movably mounted on each of the marginal portions of said screen carrying element, adjustable operating means connecting the channel members of each pair and movable to ad-

just the relative position between the members of each pair to selectively vary the length and width of the

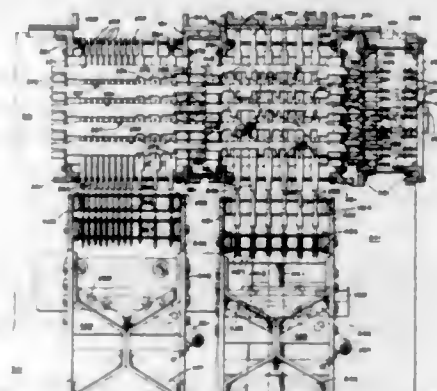


screen construction, and anchoring means connecting the adjacent ends of the respective pairs of members on adjacent sides of said element.

2,713,390

## RECORD RECODING AND REPRODUCING MACHINE

Otto E. Kase, Stamford, Conn., and Earl S. Rice, Fanwood, N. J., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application February 27, 1952, Serial No. 273,666  
9 Claims. (Cl. 164-114)

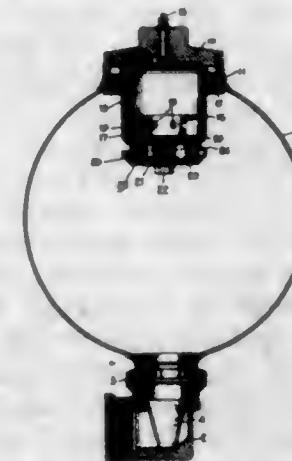


1. In a machine of the class described, means for feeding master records having columnarily arranged index positions, each column including numeric positions and zone positions wherein numerical data is represented by a single perforation in a related numeric position and alphabetic data is represented by a perforation in a numeric position in combination with a perforation in one of said zone positions, means for punching detail records having columnarily arranged index positions wherein numeric data is represented by perforations in single index positions and combinations of two index positions and alphabetic data is represented by perforations in combinations of two and three index positions, a plurality of gagging elements for selectively controlling said punching means and including one for each index position of said detail record, said elements when effective causing said punching mechanism to perforate the corresponding index positions of said detail record, a plurality of recoding slides one for each numeric index position of said master record, said slides having shoulders arranged to engage selected ones of said gagging elements for rendering the engaged gagging elements effective, each of said slides being releasable to a plurality of differential settings and effective in different settings for engaging different combinations of said gagging elements, and a plurality of slide releasing elements actuatable by said sensing means for controlling the differential settings of said slides and including an element for each index position of said master card, each releasing element associated with a numeric index position releasing a related slide to a setting for engaging the gagging elements associated with the index positions of said detail record which represent the same numeric data as represented by the single master record index

position associated with the controlling releasing element, each releasing element associated with a zone index position differentially limiting a released slide in a setting for engaging the gagging elements associated with those index positions of said detail record which represent in combination the same alphabetic data represented by the combined numeric and zone index positions of said master record associated with the controlling releasing elements.

2,713,391

PYROTECHNIC-OPERATED FIRE EXTINGUISHER  
Charles A. Buckholtz, Elmira, N. Y., assignor to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York  
Application September 11, 1951, Serial No. 246,028  
10 Claims. (Cl. 169-6)



1. In a pyrotechnic-operated fire extinguisher, the combination of a medium container having an internally shouldered neck piece a pyrotechnic unit container cup depending from the neck shoulder into the container; a baffle spaced from and secured to the bottom of the container cup; and a filter unit intermediate the baffle and the bottom of the said cup; the cup having gas metering outlet orifices communicating with the filter.

2,713,392

## WIND MOTOR

Theodore Von Karman, Pasadena, Calif., and Frank L. Wattendorf, Dayton, Ohio  
Application May 11, 1950, Serial No. 161,364  
6 Claims. (Cl. 170-1.5)



1. In an apparatus for utilizing a wind to propel an object, the combination of a porous hollow body stationarily mounted on the object and against which the wind may blow to produce an air stream over each of opposite outer surfaces of the body; means extending into the interior of the body for producing suction within the body, which suction is effective, through the pores in the opposite outer surfaces, to withdraw a layer of retarded air of the air streams through the pores to enable the air streams to follow the shape of the opposite outer surfaces of the body more closely and produce opposite propulsive forces perpendicular to the direction

696 O. G.—24

of the wind while the body remains in fixed position relative to the object; and deflector means cooperable with the outer surface of the body for deflecting the air streams away from the surface of the body and displaceable about the body relative to the wind to control the extent of surface which the air streams will pass over the opposite outer surfaces of the body to thereby control the magnitudes of the propulsive forces and hence the magnitude and direction of the resultant of the two propulsive forces.

2,713,393

## TELESCOPIC BLADE FOR ROTATING WING AIRCRAFT

Vittorio Isacco, Paris, France  
Application June 10, 1952, Serial No. 292,692  
16 Claims. (Cl. 170-160.11)

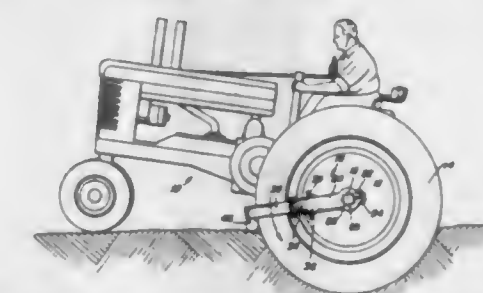


1. A blade for a sustaining propeller of a rotatable wing aerial apparatus, comprising a plurality of telescopic elements, including a root element, at least one intermediate element and a tip element, said intermediate element comprising a thin wall shell of airfoil section, a reinforcing collar surrounding the inboard end of said shell, stop means extending inwardly from the inner surface of said shell at the outboard end thereof, said collar forming a stop cooperative with like stop means at the outboard end of a surrounding element and said stop means cooperating with a like collar on a surrounded element to limit outward telescoping movement therebetween, a retractable stop carried by the inboard end of said intermediate element within the peripheral surface of said collar and normally extending inwardly of said element for engagement with the inboard end of a surrounded element in nested position and being retractable outwardly to permit complete withdrawal of said surrounded element, and an abutment portion on the inboard end of a surrounded element for engagement with said stop to position the ends of the elements in substantially coplanar alignment with the surrounded element completely nested within the surrounding element.

2,713,394

## TRACTOR WHEEL AND AXLE ATTACHED TRACTION DEVICE

Paul B. Howell, Northport, Ala.  
Application August 2, 1954, Serial No. 447,070  
1 Claim. (Cl. 180-7)



A traction device for use in conjunction with a tractor wheel mounted on an axle comprising a clamp member adapted to be secured on the axle, a lug member telescopically secured to said clamp member, said clamp member having a tubular section provided with a transverse aperture therethrough, a pair of spaced guides secured to said wheel and supporting said tubular section therebetween, said lug member being provided with a series of spaced holes therein, and a pin extending through said aperture and a selected one of said holes, said tubular section and said lug being substantially rectangular in cross-section.



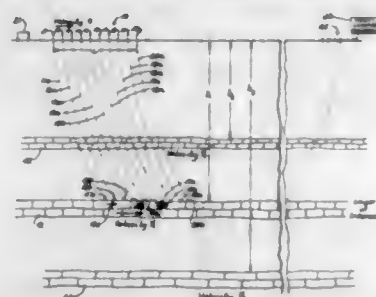
2,713,395

## REFRACTION SHOOTING

Lawrence Merton Swift, Menlo Park, Calif., assignor to Institute of Inventive Research, San Antonio, Tex., a trust estate

Application March 28, 1951, Serial No. 218,029

1 Claim. (Cl. 181-0,5)



An apparatus for use in a shot area and recording station for refraction shooting over a submerged layer of interest having a known characteristic seismic velocity comprising, in combination, a plurality of individual explosive charges at the shot area, means for supporting the charges above the surface of the ground and in a line which is generally aligned with the direction of the recording station, the charges all being at substantially the same height with the underside substantially unobstructed for the passage of a shock wave downward from each of them, a firing device for detonating the charges in timed sequence to subject the ground thereunder to a series of shock wave fronts for setting up seismic waves directed downwardly toward said submerged layer, said firing device including means for firing the charges in such sequence that the rate of propagation of firing in the direction of the recording station is equal to the characteristic seismic velocity in said submerged layer, and means including geophones at said recording station for recording the said seismic wave after the same has been refracted in said submerged layer, said charges being distributed over a distance which is at least about half of the wave length of the seismic wave in said submerged layer and individual charges being spaced apart a sufficient distance so that the instant of firing is determined solely by said firing device free of direct explosive interference between adjacent charges.

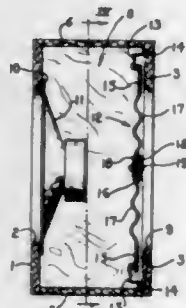
2,713,396

## NOVEL, SMALL, EXTENDED LOW FREQUENCY RESPONSE, LOUDSPEAKER ENCLOSURE

Ernest A. Tavares, North Hollywood, Calif.

Application May 24, 1950, Serial No. 163,994

10 Claims. (Cl. 181-31)



1. A loudspeaker enclosure including a chamber having a port therein adapted to carry a loudspeaker thereacross in a manner virtually closing said port, comprising: compliant pump means in contact with air within the chamber and responsive to low frequency oscillation of said air in a manner whereby said compliant pump means will pump ambient air into the chamber when the loudspeaker is vibrating in a selected low frequency range whereby the mean air pressure within the chamber will increase thereby altering the mean effective compliance of the air within the chamber.

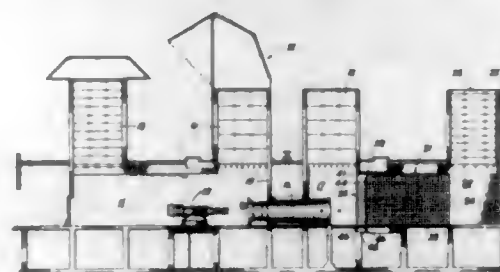
2,713,397

## TEST CELL

Otto H. Klausmeyer, South Bend, Ind., assignor, by mesne assignments, to Studebaker-Packard Corporation, a corporation of Michigan

Application April 3, 1953, Serial No. 346,693

3 Claims. (Cl. 181-33)



1. For use in a test cell for testing turbo jet engines and the like, an improved means for absorbing the shock waves, pressures and temperatures present in the exhaust stream from a jet engine, comprising, a rigid immobile muffler core blocking off the exhaust through the test cell and formed as a checker work of elongated passageways aligned with the flow of exhaust gases from the engine, and a movable buffer wall disposed between said muffler core and the exhaust end of the engine, said buffer wall being constructed of interlocked thermal resistant blocks having passageways aligned with the flow of exhaust gases from the engine, each of said passageways in said blocks converging in the direction of said muffler core, and means resiliently anchoring said buffer wall to said cell in a manner permitting its pivotal movement under the impact of exhaust products from the engine.

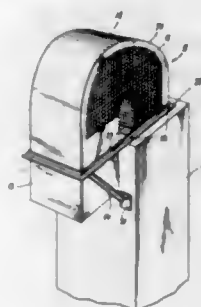
2,713,398

## FLY-ASH SCREEN TRAP FOR INCINERATORS

Joseph K. Blum, Westchester County, Roger G. Blum, New York, and Donald J. Blum, Scarsdale, N. Y.

Application December 10, 1953, Serial No. 397,421

5 Claims. (Cl. 183-68)



1. A screen trap device for mounting on the top of an incinerator chimney and to serve as a continuation of said chimney, said device comprising a conduit of inverted U-shape having an open end, a solid-walled collection box fixed to and closing off the opposite end of said conduit, said conduit having a top outer wall of smooth, flat sheet material bent into arcuate shape and extending from the open end of said conduit to said collection box, said outer wall also having depending terminal flanges of solid sheet material extending continuously along each of its side edges and forming the upper side wall portions of said conduit, sheets of wire screening forming the lower side wall portions and the inner walls of said conduit, and means to mount the device at the top of said chimney with the open end of said conduit in communication with the mouth of the chimney, the inner cross-sectional area of the conduit being substantially equal to the inner cross-sectional area of the chimney and being uniform along its entire length.

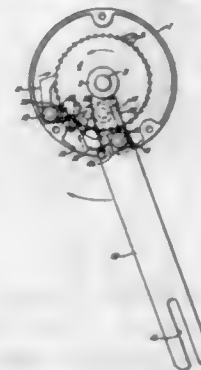
2,713,399

## SPRING MOTOR

Frank Magidson, Pittsburgh, Pa., assignor to Pittsburgh Tag Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 29, 1953, Serial No. 351,931

5 Claims. (Cl. 185-38)



1. A spring motor comprising an escapement wheel with a plurality of teeth, a main spring for rotating the wheel in a forward direction, an oscillating arm pivoted eccentrically of the wheel, a fixed pawl also pivoted eccentrically of the wheel and spaced from the arm for normally engaging the wheel to restrain its forward movement, an impulse pawl pivoted on the arm and adapted to engage the wheel and impart a slight backward movement thereto for releasing the fixed pawl when the arm approaches one end of its swing, and spring means for disengaging the fixed pawl from the wheel as soon as that pawl is released and for later re-engaging it with the wheel after the arm has begun its swing in the opposite direction under the urging of the main spring, said spring means including a spring lever pivoted on the arm with one end of the lever slidably engaging the fixed pawl for rotating that pawl and a resilient member mounted on the arm for urging the lever to occupy a predetermined angular position with respect to the arm.

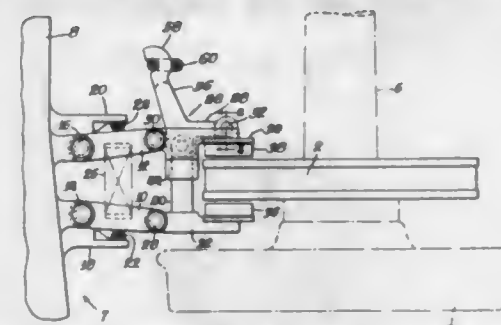
2,713,400

## ROTOR BRAKE

Mehmet Kemal Coskun, Granite City, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application July 23, 1953, Serial No. 369,778

12 Claims. (Cl. 188-59)



11. A brake comprising a support, links pivoted thereto, brake heads pivoted to respective links, rotatable means between said heads to be braked thereby, one of said heads having a portion extending through an opening of the other head, and actuating means for said heads operatively connected to said portion and to said other head.

2,713,401

## HYDRAULIC SHOCK ABSORBER

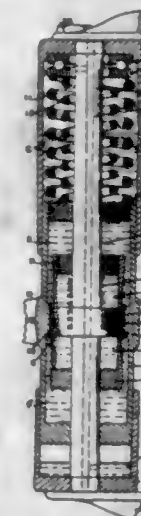
Jacques Egide Sersté, Jacqueline Teplow, born Sersté, Pierre François Sersté, and Paul Augustus Sersté, Forest-Brussels, Belgium

Application January 16, 1950, Serial No. 138,858

17 Claims. (Cl. 188-88)

1. A hydraulically braked shock damper for varying loads chiefly for use on vehicles and the like carried on

a support, comprising elements rigid respectively with the load and with the support and adapted to slide longitudinally with reference to one another, a cylindrical damping chamber carried by one of said elements, the axis of which registers with the direction of relative movement between the load and the support, a chambered liquid-filled member slidably fitted inside the other element and separating said damping chamber into two separate elementary damping chambers, said chambered member being adapted to slide longitudinally with reference to the element in which it is fitted under the action of the relative movement between the two elements and



means feeding a liquid to the elementary damping chambers and including a gradually closing passage for the exit of liquid into each elementary damping chamber to either side of said chambered member to close completely the elementary chamber to which liquid is being fed before the end of the corresponding sliding movement, said gradually closing passage being defined by a projection fixed to said damping chamber and a recess formed in the outer surface of the chambered member, extending across said projection, terminating short of the ends of said chambered member to provide the latter with terminal surfaces engaging fluid-tightly the projection fixed to said damping chamber at the end of the corresponding stroke.

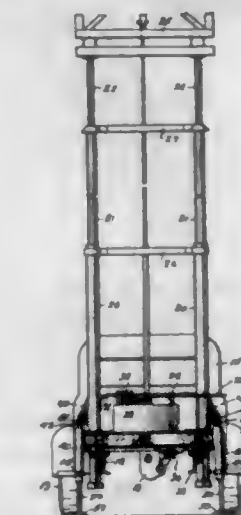
2,713,402

## TOWER VEHICLE LEVELING DEVICE

Roy O. Balogh, Cleveland, Ohio, assignor, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri

Application July 15, 1949, Serial No. 104,855

2 Claims. (Cl. 189-14)



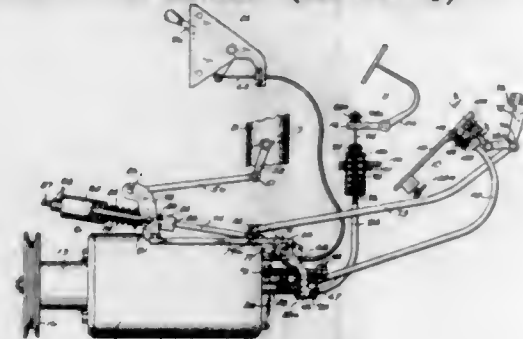
1. The combination of an extensible tower adapted to be mounted on a roadway vehicle frame, said tower including a pair of upright cylinders each adapted to be secured to said frame and project above and below a member thereof, and a pair of jacks for leveling the frame, each comprising a cylinder having its upper portion pivotally connected to one of the tower cylinders



above the adjacent vehicle frame member, means for connecting its lower portion rigidly to said tower cylinder below said vehicle frame member, and each jack cylinder containing a footed element projectible therefrom into engagement with the ground.

### 2,713,403 ENGINE GOVERNORS FOR AUTOMOTIVE VEHICLES

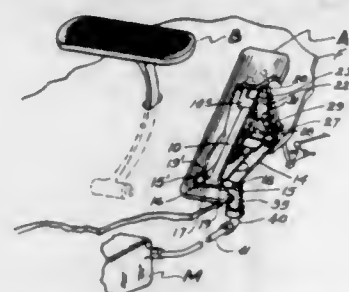
John S. Rodgers, Racine, Wis.  
Application February 16, 1950, Serial No. 144,562  
11 Claims. (Cl. 192-3)



1. In an engine having a fuel control means and a foot control, the combination of an engine operated governor mechanism operatively connected to said fuel control means and including speed responsive means and pre-loaded spring means acting in opposition to said speed responsive means, means operated by said foot control for adjustably varying the working loading of said spring means, resilient means in addition to said spring means opposing movement of said foot control in the direction of loading of said spring means, settable stop means engageable with said means operated by said foot control when set rigidly restraining the said means operated by said foot control against movement in the unloading direction while allowing movement of the same in the loading direction against the restraint of said additional resilient means, and means under the control of the operator for closing said fuel control means regardless of the operation of said governor mechanism.

### 2,713,404 AUTOMATIC BRAKE AND ACCELERATOR COORDINATING DEVICE

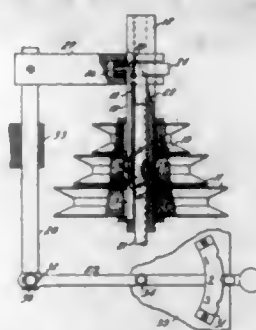
Charles Howard Rodeback, San Pedro, Calif.  
Application November 2, 1953, Serial No. 389,600  
5 Claims. (Cl. 192-3)



1. A brake pedal and foot accelerator pedal coordinating device for an internal combustion engine powered vehicle having a master hydraulic cylinder that is actuated by downward movement of said brake pedal which includes: a pivotally mounted elongate arm which is affixed to and concurrently moves with said accelerator pedal; a vertically movable rod; means movably connecting said rod to said arm; hydraulically operable means which when actuated, move said rod upwardly a sufficient distance to place said arm and accelerator pedal in an engine idling position; and a tube connecting said hydraulically operable means to the fluid discharge of said master cylinder, with said arm and accelerator pedal being held in an engine idling position so long as said brake pedal is in a depressed position.

### 2,713,405 SPEED CHANGER WITH CLUTCH MECHANISM

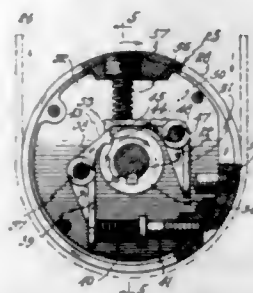
Homer E. Mathews, West Allis, Wis.  
Application May 28, 1951, Serial No. 228,633  
5 Claims. (Cl. 192-53)



1. In combination, a spindle having an axial bore, a shaft slidable in said bore and splined to said spindle, a plurality of pulleys on said spindle, said spindle having a first and second slot extending lengthwise along the outer surface thereof, each of said pulleys having a keyway in its inner surface extending transversely thereof parallel to the lengthwise direction of said slots, a first rod having a key and being movable along said first slot, said key biased to extend into said keyways to engage one of said pulleys with said spindle, means between adjacent of said pulleys forcing said key out of engagement with said keyways when said key is moved between said pulleys along said slot, a second rod movable along said second slot, clutch means carried by said spindle and disposed along said second slot, said second rod engageable with said clutch means to force said clutch means into friction engagement with any one of said pulleys to synchronize the speed of any one said pulleys prior to its engagement with said spindle, and actuating means for moving said rods including means for providing lost motion of the first of said rods whereby said second rod is moved to tend to synchronize the speed of one of said pulleys with said spindle preparatory to moving said key to engage with said one pulley.

### 2,713,406 BIDIRECTIONAL OVERLOAD RELEASE CLUTCHES

Mesrop K. Babalan, Irvington, N. J., assignor, by mesne assignments, to Centric Clutch Company, a corporation of New Jersey  
Original application November 18, 1952, Serial No. 321,147. Divided and this application July 6, 1953, Serial No. 366,235  
5 Claims. (Cl. 192-56)



1. An overload release clutch of the character described, comprising a casing, a circular collar adapted to be secured to a shaft and having a V-shaped notch formed in its periphery, a first pawl and a second pawl pivotally mounted in said casing, said first pawl having two arms angularly joined at a pivot point and being pivotally mounted on said casing at said pivot point, one of said arms having a detent and a notch, said detent being adapted to fit said collar notch and normally disposed therein, but adapted to slip out of said collar notch on overload, a first spring bearing against the other arm of said first pawl and normally holding the detent of said first pawl in said notch, a second spring normally pressing said second pawl against said first pawl, both of said springs be-

ing load springs adapted to resist the tendency of a normal load to remove said detent from said collar notch, said second pawl being pressed by its spring into said notch of said first pawl when the latter is moved out of said collar notch by an overload, thereby preventing said first pawl from reentering said notch until the overload is removed.

### 2,713,407 CHUCK KEY SAFETY SWITCH MECHANISM

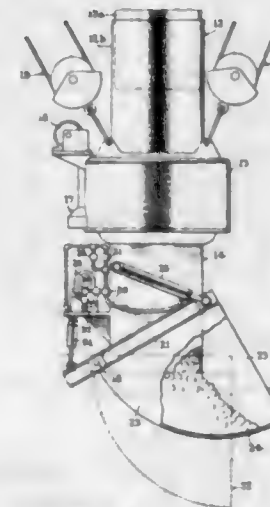
Edwin G. Miller, San Diego, Calif.  
Application March 13, 1953, Serial No. 342,301  
7 Claims. (Cl. 192-129)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A safety mechanism for a machine having a driven part, an adjustment key separate from said driven part for adjusting said driven part, a drive motor and a source of power connected to said motor, said mechanism comprising a spring driven reel, a length of flexible line secured at one end to said reel and having said adjustment key secured at its opposite end, said reel being mounted at a spaced distance from said driven part, said line normally being urged yieldably into wound relation on the reel by the spring drive thereof whereby said key is mounted in a position adjacent the reel, a switch operable to make and break connection between said source of power and said motor, means on said line for operating said switch in response to movement of said adjustment key whereby said switch is open at all times when said key is moved from said position adjacent the reel into adjusting position on said driven part and is closed when said key is released and moved by said reel into close adjacency to said reel.

### 2,713,408 VARIABLE DELIVERY MEANS FOR LOADING CHUTES

Rudolph C. Tench, Richmond, Va.  
Application January 30, 1951, Serial No. 208,513  
3 Claims. (Cl. 193-32)

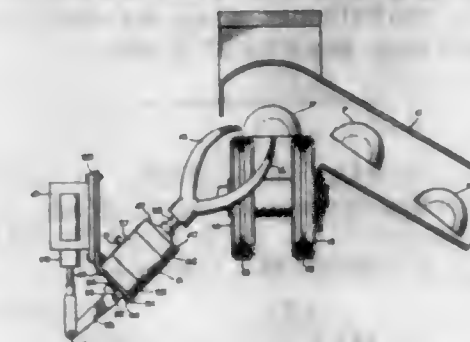


1. In a loading device of the type including a tubular chute affording a confined path for the descent of granular material, a gate hinged at the discharge end of said chute, and angularly adjustable to vary the rate of discharge from said chute between zero and a maximum, the parts being so arranged that the weight of the column of material in the chute biases said gate toward its open position; a counterweighting device for said gate

comprising in combination an expansible chamber motor connected to be moved by said gate as the latter moves; and means to supply pressure fluid to said motor to develop therein a selected pressure which resists said bias.

### 2,713,409 AIR VALVE COMESTIBLE SORTING APPARATUS

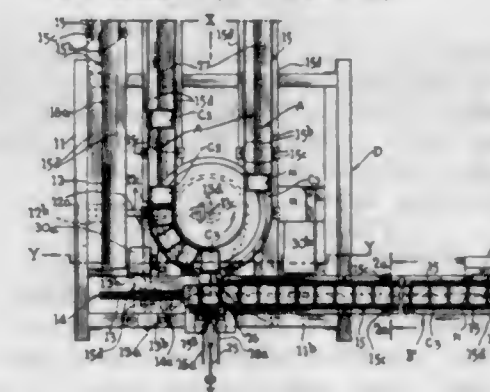
Harold W. Bartlett, Berkeley, Calif., assignor to California Packing Corporation, San Francisco, Calif., a corporation of New York  
Application June 22, 1951, Serial No. 232,975  
6 Claims. (Cl. 198-20)



1. In an arrangement of the character described, a pair of parallel spaced endless belts forming comestible carrying means, a first air nozzle extending upwardly between said spaced belts to direct a stream of air upwardly against comestibles carried thereon to lift the same, a second nozzle disposed to direct a stream of air laterally of and above said spaced belts onto comestibles thus lifted by said first nozzle, a single air valve controlling the flow of air to each of said nozzles, electromagnetically operated means functioning to open said valve, said valve comprising a valve casing which defines an air chamber, a flexible diaphragm within said casing and defining a movable wall of said air chamber, an inlet opening to said chamber, an outlet opening for said chamber, normally closed valve means interposed between said chamber and said outlet means, said valve means comprising an O-ring mounted on said casing, a disc member contacting said O-ring, a valve stem connected to said disc member and said diaphragm for movement together, and means interconnecting said electromagnetically operated means to said stem.

### 2,713,410 CONVEYOR AND TRANSFER SYSTEM WITH MONITORIZED CONTROL

Hans O. Irmscher, East Hempstead, N. Y., assignor to National Tea Packing Company, Inc., a corporation of New York  
Application December 12, 1949, Serial No. 132,446  
6 Claims. (Cl. 198-21)



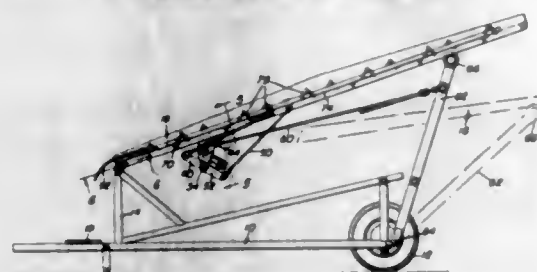
1. In an article transferring system for packaging of the character described comprising conveyor means for moving setup abutting receptacles in one direction, a slideway terminating a leading end of said conveyor means positioned to extend transverse said direction forming a passage for individual receptacles from said conveyor means, a plurality of stations spaced apart from each other and from said slideway, an endless continu-



ously moving horizontally disposed load carrying conveyor communicating with said slideway for receiving said receptacles through said passage for transportation in a continuous horizontal circuitous path past said spaced apart stations to provide a continuous line of substantially equally spaced receptacles moving at a constant speed past each of said spaced stations for selective removal as required and for recirculating the remaining receptacles, and a monitorized mechanism including pusher means intermittently actuated for moving said individual receptacles from said conveyor means to the endless horizontally disposed conveyor through said slideway in timed relation to replace receptacles selectively removed at said stations while the endless conveyor is continuously moving past said slideway.

### 2,713,411 HAY STACKER

Delwyn Wenstrom, Boyds, Wash.  
Application October 5, 1953, Serial No. 383,992  
3 Claims. (Cl. 198—122)



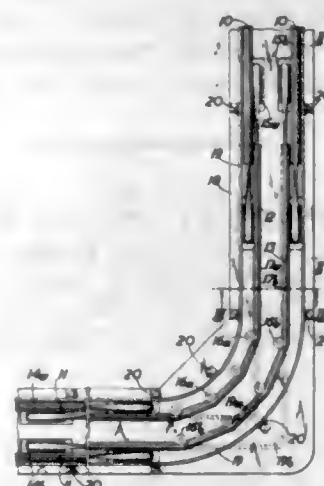
1. A baled hay stacker comprising a frame, an elevating rack having one end pivotally attached to said frame, an adjustable support pivotally attached to said frame and having a roller thereon engaging said rack, and means for adjusting the position of said support to pivotally adjust the inclination of said rack, said rack including a plurality of spaced transverse members interconnected by spaced longitudinally extending members, movable members supported by said transverse members, and means for actuating said movable members secured thereto, each of said movable members having a plurality of push fingers attached thereto, said push fingers including substantially U-shaped members positioned in embracing relationship about a movable member, pairs of legs secured to said U-shaped members extending angularly relative thereto, said legs being pivoted to a movable member, stop plates secured to and extending between the legs of said pairs of legs, pins carried by said stop plates and said movable members, and springs concentrically disposed over said pins biasing said stop plates and said movable members.

### 2,713,412 CURVED CONVEYOR

Philip Gordon Douglass, deceased, late of Shepperton-on-Thames, England, by Margaret Ada Wilhelmina Douglass, administratrix, Shepperton-on-Thames, England, assignor to J. Lyons & Company Limited, London, England, a British company  
Application August 20, 1951, Serial No. 242,754  
5 Claims. (Cl. 198—182)

1. In a conveyor system for conveying articles around a gradually curving path whilst maintaining the articles in a horizontal plane, two endless belts of rectangular cross-section, a number of pulleys spaced apart along said curving path with their centres lying on two parallel curved lines, said pulleys lying in a horizontal plane with their axes of rotation vertical, each belt engaging the periphery of those pulleys whose centres lie on one of the parallel curved lines respectively, means engaging the sides and undersurface of that portion of each belt which is in engagement with the pulleys for maintaining said portion of each belt with its major surfaces in substantially vertical planes and with the upper edge of each portion

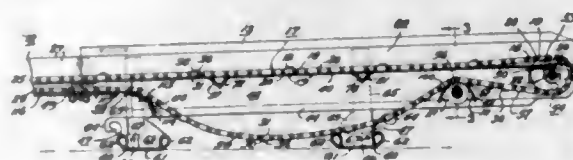
of the belts in the same horizontal plane, and means for driving said portion of each belt in the same direction



to convey articles resting on the upper edge of each belt portion.

### 2,713,413 CONVEYOR DRIVE

Armistead R. Long, Fayetteville, and John B. Long, Oak Hill, W. Va.; Pauline McCauley Long and Chas. E. Mahan, executors of said Armistead R. Long, deceased, assignors to The Long Company, Oak Hill, W. Va., a corporation of West Virginia  
Application February 24, 1948, Serial No. 10,324  
4 Claims. (Cl. 198—203)

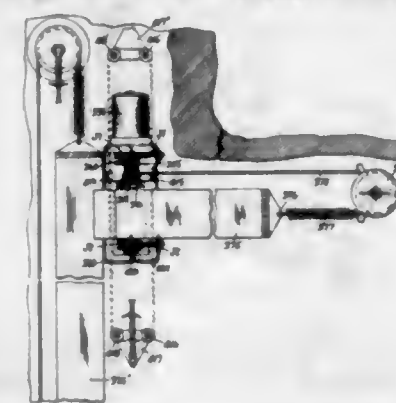


1. In a head section for chain conveyors of the class wherein the upper run of an endless chain comprising block links, side bars and pins connecting the block links and side bars, travels longitudinally over the bottom of a trough extending longitudinally of the head section, the combination of a drive sprocket rotatable in a vertical plane longitudinally of the trough at the delivery end thereof, disposed with the uppermost root of the sprocket teeth in a plane above the plane of the trough bottom, and a ramp for the chain, associated with said sprocket, comprising a center ramp portion disposed in the plane of the sprocket in advance of and closely adjacent to the sprocket, upon which the block links of the chain travel in their movement toward the sprocket, and lateral ramp portions to each side of said center ramp and extending therefrom closely adjacent the sides of the sprocket upon which the side bars of the chain travel, whereby the chain is elevated from the trough bottom as it approaches the sprocket and downward wear upon the sprocket is materially reduced.

2,713,414  
SHAKER CONVEYING APPARATUS  
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application April 10, 1948, Serial No. 20,252  
7 Claims. (Cl. 198—220)

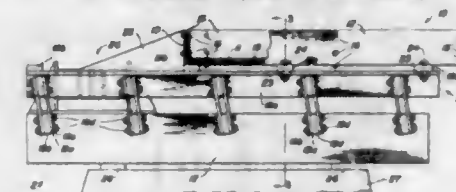
1. In a conveyor means, the combination comprising a flexible conveyor band having a portion supported for reciprocatory movement for conveying material therealong, and means for reciprocating said conveyor band portion with a shaker conveyor motion and for extend-

ing the free length thereof while the band portion continues to be reciprocated with a shaker conveyor motion



including drums operatively connected with said band portion at the opposite ends thereof.

2,713,415  
VIBRATORY CONVEYOR FOR HOT MATERIALS  
Hugh E. Wurzbach, Magna, Utah  
Application December 9, 1953, Serial No. 397,213  
2 Claims. (Cl. 198—220)

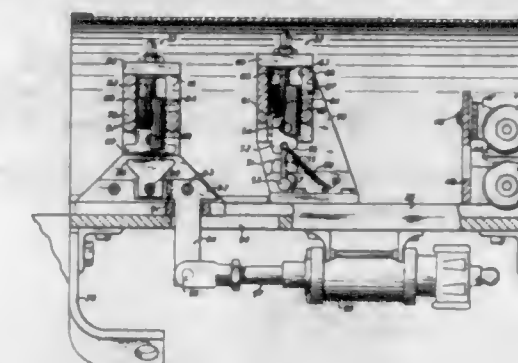


1. A vibratory conveyor for hot materials, comprising an elongate chassis made up of a pair of elongate side members disposed in mutually spaced, side-by-side, opposed relationship, and a plurality of transversely extending, longitudinally spaced cross bars; an elongate conveyor deck structure extending longitudinally with and mounted in spaced, superimposed relationship upon said chassis; an elongate base for the chassis; a plurality of cantilever supports resiliently supporting the chassis on the base for vibratory reciprocation relative to the latter; vibratory motor means connected with the chassis for imparting the said vibratory reciprocation thereto; and means fastening said deck structure to the chassis, said means including a rigid connection between one of the said cross bars of the chassis and one end of said deck structure, and additional, longitudinally free connections between succeeding cross bars of the chassis and said deck structure along the length of the latter, said longitudinally free connections each comprising a bolt and nut assembly and registering openings therefor formed through the cross bar and the side member of the chassis, one of said receiving openings being elongate longitudinally of the conveyor deck structure, and the cross bar being rigidly secured to the conveyor deck structure, but, except for said connections, being free relative to the chassis, whereby longitudinal expansion and contraction movement of said deck structure is permitted relative to said chassis.

2,713,416  
RECIPROCAL FEED CARRIAGE WITH CONSTANT BRAKE DRAG  
Albert L. Pizzi, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application September 4, 1953, Serial No. 378,487  
2 Claims. (Cl. 203—159)

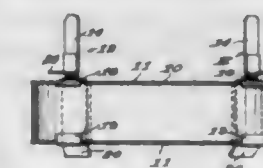
1. A material feeding apparatus comprising means to guide a material longitudinally in a given path, means limiting movement of the material to one direction, a carriage, means to support the carriage for reciprocal movement parallel with the path, a gripping member mounted in the carriage adjacent the path, a lever pivotally supported by the carriage and having arms extending in

different directions, a gripping element supported by one of the arms of the lever adjacent the path, moving means connected to the other arm of the lever to move the lever to cause the gripping element to cooperate with the grip-



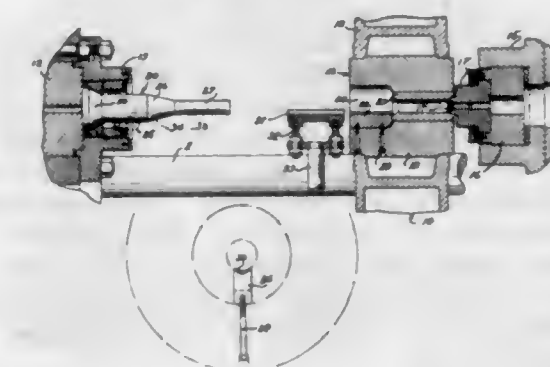
ping member to grip the material and then move the carriage to advance the material, and a brake drag for the carriage to hold the carriage against forward or backward movements until the elements have gripped and released the material.

2,713,417  
HAT NESTING MEANS  
Louis P. Sommerhauser, Sioux Falls, S. Dak.  
Application November 9, 1953, Serial No. 391,100  
4 Claims. (Cl. 206—9)



1. Hat nesting means comprising a hat crown encircling band, a plurality of hat supports carried by the band, each of said supports comprising a unitary body portion including a hat brim engageable tongue and a hat crown engageable flexible member vertically adjustably supported by said body portion, for disposition between the crown and the sweat band of a superposed hat.

2,713,418  
EXTRUSION PRESS  
Francis J. Kent, Forest Hills, N. Y., assignor to Hydro-press, Incorporated, New York, N. Y., a corporation of Delaware  
Application December 4, 1950, Serial No. 198,997  
4 Claims. (Cl. 207—9)



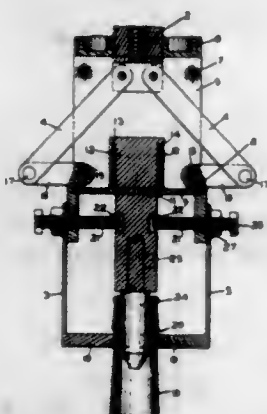
3. In an extrusion press adapted to extrude long billets of large cross section and shorter billets of smaller cross section; a billet container comprising a body having a bore extending longitudinally therethrough to receive a relatively short billet of relatively small cross section, a counter-bore at one end of said bore to provide a recess of increased diameter opening at one side of said body adapted to receive an extrusion stem root of larger diameter than the billet cross section, and a guide



in said recess in the form of an elongated block extending longitudinally at the bottom of said recess and having an upper guide surface to support a billet and guide the latter longitudinally into said bore.

2,713,419

**GLASSWARE TRANSFERRING DEVICE**  
William Hayes, Millville, N. J., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania  
Application October 31, 1950, Serial No. 193,257  
5 Claims. (Cl. 209—72)



1. In a take-out device for transferring glassware, the elements comprising a housing, a movable cylinder in said housing capable of movement with respect to said housing, a pair of glassware-engaging tong arms pivotally attached to said housing and operated by said cylinder, a plunger projecting from said housing between the tong arms and in the same vertical plane as the plane of operation of the tong arms, said plunger being in axial alignment with the neck opening of the glassware over which the take-out device is positioned, said plunger being capable of relative vertical movement with respect to said housing and said tong arms, and stop means located on the tong arms to restrict the closing movement of the tong arms in the event the plunger is not in its fully extended position, said plunger being provided with recesses therein which are in alignment with the stop means on the tong arms when the plunger is in its fully extended position.

2,713,420

**CLARIFICATION PROCESS**

Joseph Robert Lord, Los Angeles, Calif., assignor to Southwestern Engineering Company, Los Angeles, Calif., a corporation of California  
No Drawing. Application May 18, 1954,  
Serial No. 430,729  
9 Claims. (Cl. 209—166)

1. A process for the clarification of an aqueous slurry containing suspended powdered high-ash solids derived from coal which comprises admixing a material selected from the group consisting of saponifiable acids and their soaps and a frothing mixture containing a water-insoluble hydrocarbon oil with said slurry, passing air through the admixture to produce a froth overflow containing said suspended powdered high-ash solids, and removing the froth overflow whereby the remaining water is substantially clarified of said suspended powdered high-ash solids.

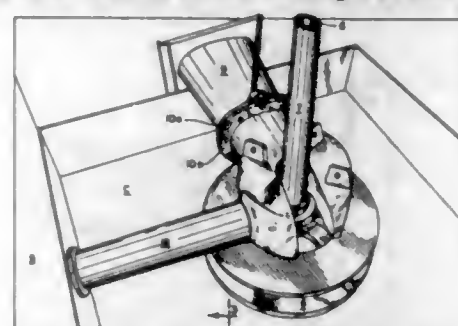
2,713,421

**FEED CONDUIT FOR FROTH FLOTATION MACHINE**

Paul L. Wigton, Denver, Colo.  
Application May 25, 1953, Serial No. 357,161  
4 Claims. (Cl. 209—169)

1. In a froth flotation cell, a rotary impeller in the lower portion of the cell, and a feed conduit extending

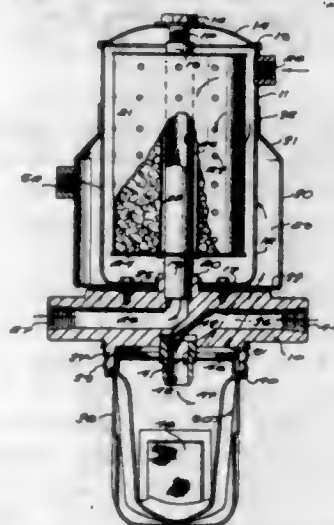
from an exterior wall of the cell to a point of discharge over the impeller, said conduit having its interior divided



by a lengthwise-extending partition into an upper gas-conducting passage and a lower pulp-conducting passage.

2,713,422

**COMBINED OIL AND WATER CONDITIONER**  
William S. James, Birmingham, Mich., assignor to Fram Corporation, a corporation of Rhode Island  
Application April 6, 1951, Serial No. 219,583  
1 Claim. (Cl. 210—122.5)

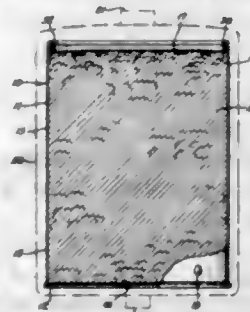


A combined water filter and oil filter for installation in a motor vehicle in the water cooling circuit and engine lubricating circuit respectively, comprising a water filter casing containing a removable filter element connected in the first circuit, an oil filter casing containing a removable filter element connected in the second circuit, so that either filter element can be replaced without disturbing the other filter element, a common base for the two filter casings and through which the water and oil flow, and the oil filter casing having a surrounding water jacket through which the water of the cooling circuit flows to heat the oil filter

2,713,423

**FILTER ELEMENT**

John K. Russell, North Hollywood, Calif., assignor to Luber-Finer Incorporated, Los Angeles, Calif., a corporation of California  
Application April 28, 1952, Serial No. 284,799  
2 Claims. (Cl. 210—148)



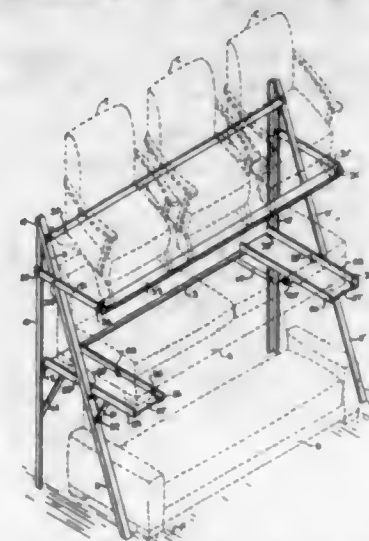
1. A filter element of the character described for use submerged in liquid under pressure with the liquid flowing peripherally into and axially out of the element, said element comprising: a perforated cylindrical shell having a wall closing one end thereof, the other end of the

shell being formed with an inner circumferential shoulder having a recess directed towards said wall; a closure for said other end of the shell in the form of a circular member of sheet material slidingly mounted in said shell below said shoulder for axial movement relative to said shell, said cover having an outwardly directed resilient peripheral flange for engagement with said shoulder to limit outward movement of the cover, the unrestrained diameter of the edge of said flange being greater than the inside diameter of said shell whereby said edge presses into close contact with the shell when the cover shifts inward from said shoulder, said flange being flared whereby external fluid pressure tends to spread the flange into contact with the shell; and a mass of filter material in said shell in contact with said cover to oppose inward movement of the cover whereby the volume of said mass under pressure from said liquid fixes the position of said cover and said cover shifts in accord with any contraction of the mass whereby the mass continually reinforces said cover to prevent buckling of the cover under external fluid pressure.

2,713,424

**FURNITURE DISPLAY RACK**

Belton S. Thompson, Whiteville, N. C.  
Application October 2, 1952, Serial No. 312,803  
2 Claims. (Cl. 211—27)



1. A furniture display rack for displaying a plurality of chairs and a sofa, said rack comprising a pair of end frames interconnected by chair and sofa support members; each of said end frames comprising a vertical leg and an inclined leg connected at their apex; said chair support member comprising a first elongated bar extending between said inclined legs adjacent the apex of said frame members and a horizontally disposed U-shaped member spaced beneath said elongated bar, said U-shaped member including a pair of supporting arms each connected to one of said end frames and extending beyond the inclined legs of said end frames and an elongated troughlike member connected to the ends of said supporting arms remote from said end frames; said sofa support member comprising a second elongated bar extending between the medial portions of said vertical legs on the end frames and a pair of horizontally spaced shelves disposed in a common horizontal plane spaced beneath said U-shaped member, and means securing said shelves to opposite ends of said second elongated bar and to the proximate surfaces of said end frames.

2,713,425

**DRAFT GEAR ADJUSTING DEVICE**

Herbert E. Tucker, Chicago, Ill., assignor to Cardwell Westinghouse Company, a corporation of Delaware  
Application September 5, 1952, Serial No. 308,075  
3 Claims. (Cl. 213—32)

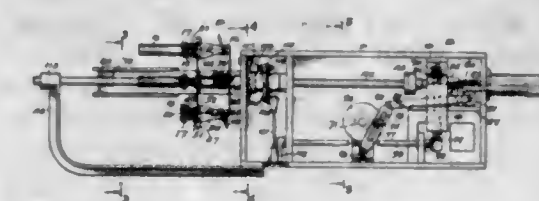
1. For use with a draft gear including a housing having shoulders on its inner surface and friction elements

including a central wedge member having lateral shoulders engaging the shoulders in the housing, a relatively soft separator having a handle by which it can be inserted into the compressed draft gear and between said shoulders to temporarily prevent full expansion, said separator being mounted adjacent one end of the handle and extending laterally therefrom whereby the handle may project from the draft gear housing when the separator is positioned between said shoulders.



2,713,426

**COLLAPSIBLE TUBE TRANSFER MECHANISM**  
Harry A. Drew, West New York, N. J., assignor to Victor Industries Corporation, Brooklyn, N. Y., a corporation of New York  
Application February 24, 1951, Serial No. 212,555  
10 Claims. (Cl. 214—1)

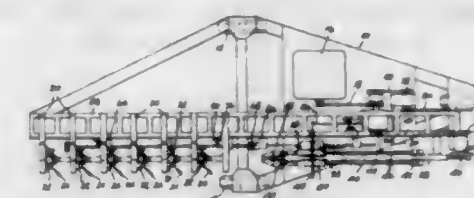


1. In a mechanism for transferring a tube from a member engaging the interior of and supporting the tube to another member adapted to enter the interior of the tube, a rotatable jaw frame, a plurality of sets of spring-pressed jaws carried by said frame, connecting means between opposite sets of jaws to open one set of jaws when the opposite set is closed, means for intermittently rotating the jaw frame and means for reciprocating the jaw frame to dismount a tube from a member on one reciprocatory stroke of the frame and to mount a tube on another member on the stroke of the frame in the opposite direction, the frame rotating means being operative on one of said strokes.

2,713,427

**TOBACCO LATHING MACHINE**

Joseph L. Krist, Broad Brook, Conn.  
Application February 10, 1953, Serial No. 336,075  
14 Claims. (Cl. 214—5.5)



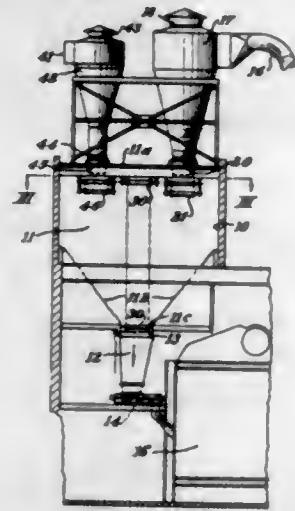
1. A tobacco lathing machine comprising respective means for positioning a plurality of tobacco stalks in spaced succession, impaling means including a pair of separable piercing members arranged adjacent each positioning means and movable relative thereto to perform a piercing operation, said separable members forming an opening extending axially therethrough when said members are contiguous each other, and means for inserting a lath through the series of openings formed by said piercing members while said members are in a stalk penetrating relation.



2,713,428

**MATERIAL STORAGE SYSTEM**

Wayne H. Kuhn and Wilfred R. Reichenstein, Marion, Ohio, assignors to The Fairfield Engineering Company, Marion, Ohio, a corporation of Ohio  
Application January 18, 1951, Serial No. 206,622  
2 Claims. (Cl. 214-16)

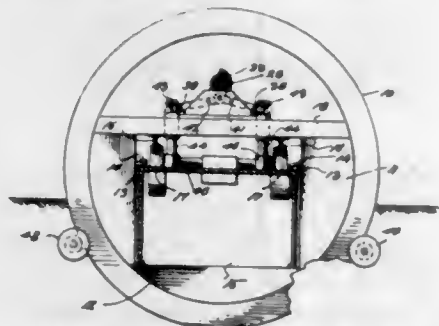


1. Material handling and storage apparatus comprising a compartment having a trough-shaped bottom with an outlet opening at the bottom of the trough, and having a top with a pair of spaced inlet openings, a pair of endless flexible bands having horizontally-extending flights mounted adjacent the respective inlet openings, another flexible endless band having a lower flight mounted to move along the bottom of the bin past the outlet opening with the return flight extending over the top of the compartment between the first-mentioned bands, said bands each comprising a pair of spaced chains having spaced drag links extending transversely between them, means to drive the first-mentioned pair of bands in the same direction and independent variable-speed driving means connected to drive the said other band with its lower flight moving in the same direction as the upper flights of the first-mentioned pair of bands, a pair of cyclone chambers having their apex outlet openings dischargeable through the respective compartment inlet openings, a blower having an inlet conduit connecting it with the interior of the compartment adjacent the said other band after it passes the outlet opening and having an outlet conduit connected to discharge through one of said cyclone chambers, a hopper mounted beneath said outlet opening, and means to drive said blower to withdraw material moved past said lower outlet opening by said other band and to recirculate the material into the compartment through the said one of said cyclones.

2,713,429

**ELECTRIC MINE CAR CLEANER**

Nelson A. Michaelson, Morgantown, W. Va.  
Application January 9, 1953, Serial No. 330,557  
2 Claims. (Cl. 214-53)



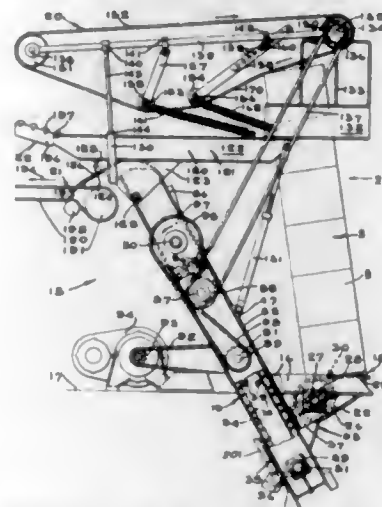
1. A device of the character described comprising, in combination with a rotary dump for mine cars including a pair of circular supports, a transversely and longitudinally extending frame carried by said supports, a pair of car-supporting rails affixed to the normal upper side of

said frame, and means carried by said frame for supporting a mine car in inverted position, the provision of a longitudinally extending shaft carried centrally on the normal underside of said frame, pairs of hammer shafts perpendicularly journaled in said frame at either side of said shaft for reciprocal movement, a hammer head carried by each perpendicular shaft at that end thereof on the normal upper side of said frame, pairs of transversely extending brackets centrally affixed to the normal underside of said frame, a pair of levers pivotally mounted between each pair of brackets and each in slidable engagement at its outer end with the free end of a hammer shaft, means for limiting said slidable engagement, a yoke formed on the inner end of each lever, one of said yokes being receivable in the other, a pin loosely interconnecting said yokes, a roller mounted on said pin, cams affixed to said longitudinal shaft and each bearing against one of said rollers, and means carried by said frame for revolving said longitudinal shaft.

2,713,430

**STACK CONTROLLING OVERHEAD BELT BOX DUMPERS**

Ernest A. Verrinder, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware  
Application July 28, 1950, Serial No. 182,924  
10 Claims. (Cl. 214-306)

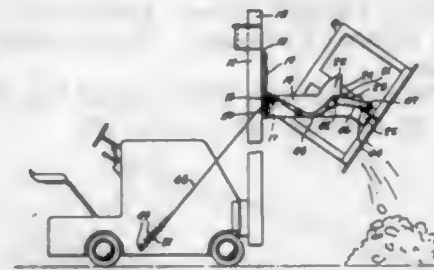


1. A box dumping device, comprising: a stack conveyor for moving upright stacks of loaded open-top boxes in a horizontal direction; a stack elevator inclined toward the rear of said device and disposed to receive and elevate said stacks in sequence; a fulcrum member mounted to the rear of and at the upper end of said stack elevator; a stack-tilting and box-dumping conveyor including horizontally spaced pulleys and an endless belt trained thereabout, said belt conveyor being disposed above said stack elevator in alignment with the direction in which the stacks are delivered thereto, said belt conveyor having a front portion the lower flight of which partially overlies said stack conveyor and is upwardly inclined forwardly to initially be engaged by the nearest upper corner of the uppermost box of the stack being delivered to said stack elevator; means driving said belt conveyor with said lower flight traveling in the same direction as and at a faster rate than said stack conveyor; and means yieldably pressing said traveling lower flight downwardly into frictional engagement with said uppermost box to tilt said stack rearwardly into position against said stack elevator, said yieldable means then continuing to press said lower flight downwardly against said uppermost box of the tilted stack whereby said lower flight in traveling, rolls said box over said fulcrum member to dump its contents, said stack elevator raising the remainder of the boxes of said tilted stack successively into frictional contact with said moving lower flight, thereby causing each box to be dumped by rolling it over said fulcrum member as aforesaid.

2,713,431

**BIN HANDLING DEVICE**

Wayne Koehler, San Leandro, Calif., assignor to R. Stenzel Foods, Inc., San Leandro, Calif., a corporation of California  
Application November 23, 1953, Serial No. 393,549  
6 Claims. (Cl. 214-315)

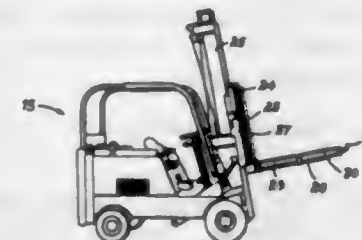


1. A lift truck having a hoist, a pair of fork arms secured to said hoist and extending forwardly from said truck and hoist, an upwardly and forwardly opening trunnion notch formed near the outer end of each arm, a bin having trunnions located above and to one side of the center of gravity of said bin, a cam follower surface formed integral with said bin, said bin being of a size to fit between said arms with said trunnions in said notches, a dump lever pivoted to one of said arms adjacent its trunnion notch, a cable having one end thereof secured to one end of said lever and the other end thereof secured to said truck so that upon upward movement of said arms said cable will be tensioned to swing said lever to contact said cam follower surface and to thereby rotate said bin on its trunnions.

2,713,432

**LIFT TRUCK APPARATUS FOR UNLOADING LUMBER AND THE LIKE**

Collins S. Lorimer, Urbana, Ohio  
Application September 14, 1951, Serial No. 246,632  
5 Claims. (Cl. 214-512)

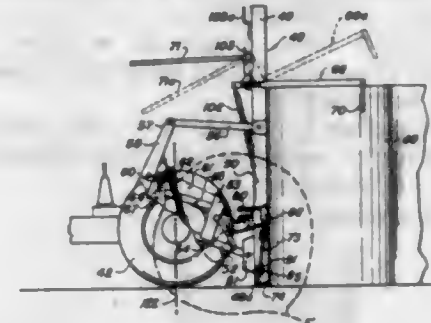


1. Apparatus for loading or unloading an elongated load in combination with a lift fork truck having a frame and a hydraulic system for operating the forks thereof, comprising a plurality of generally horizontal rollers, means for supporting said horizontal rollers in fixed rotatable position on the forks of said truck and in substantially parallel relation with said forks in position to receive the load thereon for movement transversely of said forks upon rotation of said rollers, a bar having a serrated portion, means for supporting said bar on the forward ends of said forks with said serrated portion uppermost and located forwardly of said horizontal rollers in position for frictional engagement with the underside of a load located off said forks, a plurality of freely rotatable rollers mounted on said frame in generally upright position adjacent the rearward ends of said horizontal rollers to guide and support rearward thrust of said load during said transverse movement thereof, hydraulic motor means mounted on said frame rearwardly of the plane of said upright rollers for rotating said horizontal rollers to cause said transverse movement of said load, and means connecting said motor means with said horizontal rollers and with the hydraulic system of said truck for operation under the control of the operator of said truck.

2,713,433

**INDUSTRIAL TRUCK**

John R. Gardner, North Pekin, Ill., and William F. Miller, Grantsville, Utah  
Application December 4, 1948, Serial No. 63,464  
15 Claims. (Cl. 214-653)

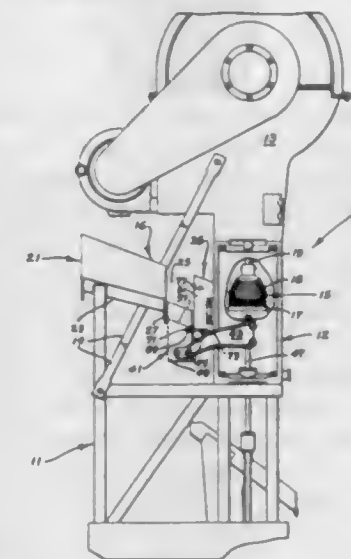


1. In a utility truck, the combination of a load carriage having a standing position and a riding position; a wheeled vehicle arranged to support the carriage in a riding position; a lever system operative to move the carriage from standing position to riding position and vice versa, said system including a leverage fulcrum on the vehicle and having its free end pivotally connected to a lower portion of the carriage; another leverage fulcrum on the vehicle in spaced relation to the fulcrum of the first leverage and having its free end connected to an upper portion of the carriage; extendable and retractable hydraulic mechanism connected to and between the second leverage and said vehicle, so the respective lower and upper portions of the carriage are moved relative to the respective fulcrums; and a stop disposed on the first-mentioned leverage, whereby motion of the carriage relative to the pivotal connection at the free end of the first-mentioned leverage in the ascending cycle of the carriage, ends, upon initial extension of said hydraulic mechanism, while further extension of said actuating mechanism becomes effective to revolve the entire carriage about the fulcrum of the first-mentioned leverage as a center.

2,713,434

**FRUIT FEEDING MECHANISM FOR PROCESSING MACHINES**

Wilber C. Belk, Lakeland, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware  
Application October 22, 1953, Serial No. 387,724  
5 Claims. (Cl. 214-711)



1. In a shuffle type fruit feeder having a fruit supply chute, a raised fruit discharge chute, a fruit elevator having a fruit supporting floor rigid with respect to said elevator, and means for reciprocating the elevator between the fruit supply chute and the fruit discharge chute, the combination of, means forming part of the elevator floor for contacting and ejecting fruit from the elevator, and



means operative to actuate said fruit contacting and ejecting means substantially upon the arrival of the elevator at the fruit discharge chute.

# 2,713,435 SUPPORT MEMBER FOR VACUUM JACKETED FLASKS

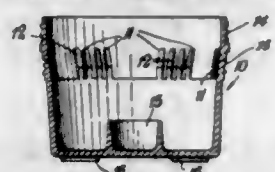
Ernest Venis, Hatch End, England, assignor to The British Vacuum Flask Company Limited, London, England, a British company

Application October 17, 1951, Serial No. 251,757

Claims priority, application Great Britain

November 27, 1950

2 Claims. (Cl. 215-13)



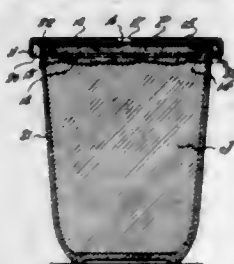
1. For application to the base or lower end of an outer casing serving to house a vacuum jacketed flask having a hemispherical base, a cup shaped closure element having a peripheral upstanding wall formed with an upper portion of increased diameter, such element being formed of a synthetic resinous material possessing a degree of resilience, a plurality of inwardly directed ribs formed in the inner surface of said upper portion of the peripheral upstanding wall of said element, such ribs being arranged in groups which are spaced equidistantly apart around the inner surface of said element with the ribs of each group extending substantially vertically and merging into the inner surface of the peripheral wall below said upper portion, said ribs having curved outer faces adapted to conform substantially to the curvature of the base end of the flask thereby to provide a seating for the latter and an upstanding collar disposed centrally of the base of said element and adapted to provide an additional seat or support for the base of the flask.

# 2,713,436 COVER FOR PRESERVE CONTAINERS

Charles A. Hirschberg, Mountain Lakes, N. J.

Application February 9, 1951, Serial No. 210,150

2 Claims. (Cl. 215-38)



1. A one-piece cover of rigid plastic material for application upon the open top end of a container, the content of which is desired to be sealed against contact with the atmosphere by a self-hardening initially fusible sealing substance such as paraffine, said cover comprising a flat body plate of substantially larger diameter than the diameter of the open top of said container, and having an external annular flange dependent from its periphery to overhang the rim of the latter, an internal hollow boss of smaller diameter than the internal diameter of the open top of said container to depend from the under face of said body plate for entrance into said container, said boss comprising an annular side wall and a flat perforate bottom wall spaced below said body plate to provide an intermediate chamber, said body plate having a filling opening leading into said chamber through which the sealing substance can be supplied to fill said chamber, and by flow from the latter through the perforate bottom wall of said boss, to also fill the space between the container content and the cover, said supplied sealing substance upon hardening serving to form a sealing plug which is concealed by and inter-

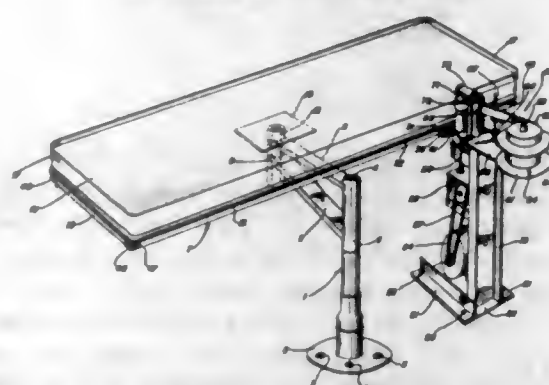
locked to the cover in unitary relation thereto, and so as to withdraw from the container with the cover when the latter is removed from the former.

# 2,713,437 MACHINE FOR OPERATING ON PERIPHERIES OF NON-CIRCULAR OBJECTS

Edwin N. Broden, Assonet, Mass., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application November 19, 1951, Serial No. 257,125

18 Claims. (Cl. 216-20)



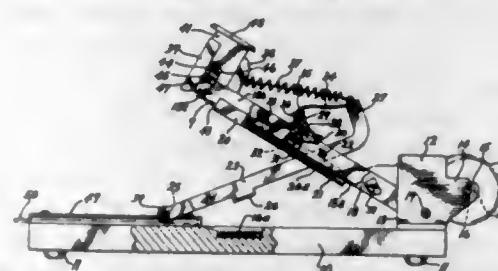
1. Apparatus for processing articles comprising a fixed processing unit having a drive means, supporting means for said articles of generally planar form with straight sides and rounded corners and having a peripheral skirt, said supporting means being mounted for complex movement about a plurality of axes normal to its plane, whereby said skirt portion may be driven by said drive means, a roller at said drive means adapted to contact the inside of said skirt, and a pair of rollers at said drive means adapted to contact the outside of said skirt on respective sides of the point of contact of the first-mentioned roller, said pair of rollers being located in separate planes parallel to the plane of said support, and cam means on said skirt at said corners arranged to maintain all three rollers in constant contact with said skirt, said cam means each comprising a straight portion aligned with a straight portion of said skirt, and an arcuate portion concentric with said skirt at said corner, and said respective cam means being arranged in opposite senses.

# 2,713,438 GUMMED MATERIAL DISPENSER

John C. Soderberg, Detroit, Mich.

Application May 14, 1952, Serial No. 287,670

11 Claims. (Cl. 216-25)



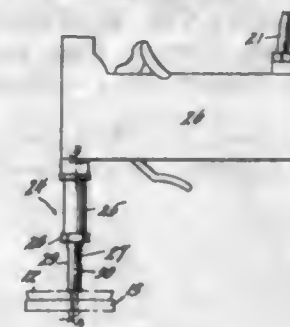
1. In a gummed material dispensing device, a base, a member swingably mounted on said base, guide means on said member for guiding the material past a shearing edge thereof, feeding means carried on said member for advancing a predetermined length of said material beyond said shearing edge, arm means pivotally mounted on said member having one part thereof adapted to moisten a predetermined area of the surface which is to receive the gummed material as another part thereof actuates said feeding means, both of which actions occur as the member is swung toward said base, and means constructed and arranged to shear said predetermined length of material from the main portion thereof and press the same to the moistened receiving surface upon conclusion of the swinging movement of said member.

# 2,713,439 ADAPTER FOR AUTOMATIC RIVET GUNS

Edward E. Dumas, Haw River, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application October 22, 1953, Serial No. 387,664

4 Claims. (Cl. 218-47)



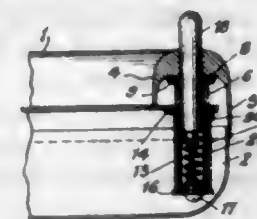
1. An adapter for engaging an enlarged portion of a mandrel and pulling said mandrel into a tubular rivet to set said rivet in a work piece comprising a stationary sleeve for abutting the rivet, said sleeve having an aperture for admitting the mandrel into the sleeve, a reciprocable arm slidably mounted in said sleeve and having an aperture alignable with the aperture in the sleeve, and a plurality of axially-spaced bifurcated shoulders attached to the reciprocable arm for sequentially engaging and pulling the enlarged portion of the mandrel into the rivet thereby setting said rivet in the work piece.

# 2,713,440 ASH TRAYS

Michael D. Vivolo, New York, N. Y.

Application November 25, 1953, Serial No. 394,352

5 Claims. (Cl. 220-20.5)



1. In an ash receiver, an ash-containing chamber and a centrally-apertured cover therefor, a tube secured to and extending downwardly from the cover and located within the body of the ash receiver, a plunger axially movable within the tube, a spring in the tube below the plunger and tending to normally urge the plunger to a raised position in which a portion of the plunger is located above the cover, the plunger having a lateral pin, the tube having a straight slot in which the pin is positioned, a pivoted closure plate adapted to normally close the bottom of the central opening in the cover, a sleeve carried by said closure plate and surrounding the tube and capable of rotary movement around the tube, the sleeve being provided with a spiral slot in which the pin rides to thereby rotate the tube and the closure plate carried thereby when the plunger is manually depressed.

# 2,713,441 PAPER AND PERIODICAL VENDING MACHINE

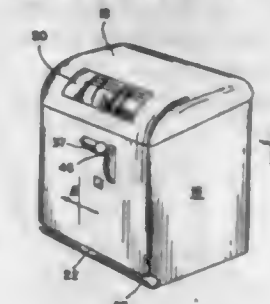
Thomas A. Hutsell, Renton, Wash.

Application November 1, 1949, Serial No. 124,799

3 Claims. (Cl. 221-39)

1. In a vending machine for newspapers wherein the papers are positioned erect in juxtaposition with their folds downward and backed by a follower and wherein there are means urging the follower forward pressing the papers toward a stop active upon the lower folded edge of the foremost paper and over which the papers must be caused to hurdle, a telescopic vending assembly, comprising: a base member pivotally mounted in front

of said papers having a free end directed toward said papers which is free to move vertically; a vending arm mounted on said base member and slidable longitudinally thereof in telescoping relationship thereto, said vending arm having a paper engaging end directed toward said papers; a manually operable vending handle; linkage means operable upon movement of said vending handle to move said free end of said base member downward

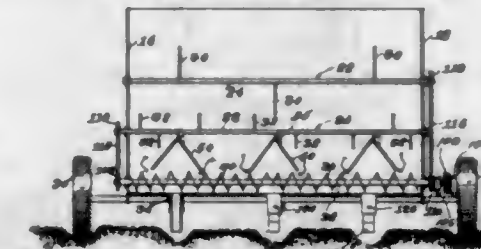


# 2,713,442 FERTILIZER APPARATUS

Excel W. McFarling, Guy H. Briscoe, and Ernest C. Hatton, Lubbock, Tex.

Application April 16, 1954, Serial No. 423,752

2 Claims. (Cl. 222-238)



1. A fertilizer apparatus, comprising a frame, a hopper mounted thereon having downwardly and inwardly inclined front and rear sides, a pair of rotary agitator shafts mounted one above the other in said hopper parallel to said inclined sides, spaced agitator arms on said shafts, a plurality of openings in the bottom of said hopper, an auger at the bottom of said hopper having pairs of right and left helices, one pair for each opening, an inverted V-shaped cover over each opening between the lower agitator shaft and the auger to retard passage of material to the openings, bearing posts on said covers near the apices thereof, the lower agitator shaft being supported in said bearing posts, the spaced agitator arms on said lower agitator shaft including pairs of spaced arms with a pair thereof associated with each of said covers so the arms of the pair are on opposite sides of the bearing post on the associated cover, each arm of the pair during rotation of the lower agitator shaft travelling in a path of rotation a portion of which is in proximity to the adjacent side of the associated cover, and means interconnecting said auger and agitator shafts for operating the same in unison.

# 2,713,443 PNEUMATICALLY OPERATED FINGERS FOR HAT BLOCKING MACHINE

Vincent E. Cottrell and Simon Deringer, Philadelphia, Pa.; said Cottrell assignor to said Deringer

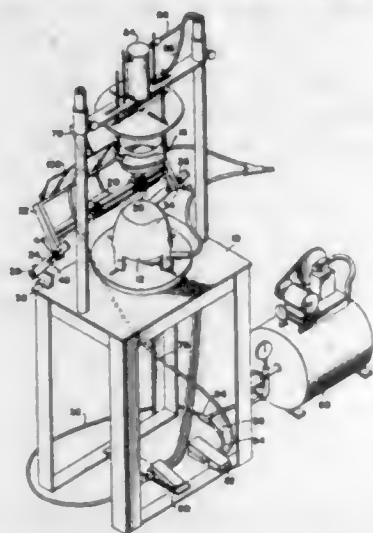
Application September 10, 1954, Serial No. 455,230

11 Claims. (Cl. 223-12)

1. In a hat blocking machine having a support, a first mold mounted on the support and adapted to have hat

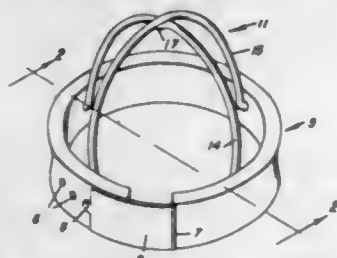


material draped thereover, a second mold complementary to the first, means for moving the second mold into and out of engagement with the first mold, at least one pair



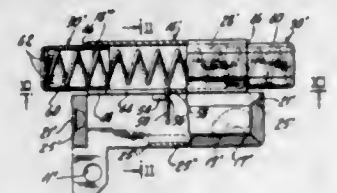
of pivotally interconnected fingers mounted on the support in position to engage an edge of the material, and means independent of said means for moving the second mold to selectively open and close the fingers.

**2,713,444**  
**HAT STRETCHER**  
Eugene Joseph Dombrowski, Chicago, Ill.  
Application May 11, 1954, Serial No. 428,893  
4 Claims. (Cl. 223-25)



1. A hat stretcher comprising: a split, resilient, expandable ring insertable circumferentially in the band portion of a hat, means for releasably securing the ring in expanded position in the hat, and a resilient frame on the ring engageable in the crown of the hat for shaping same, said ring having a plurality of spaced sockets in one end portion, said means including a plate hingedly mounted on the other end of the ring, and a head on said plate engageable selectively in the sockets.

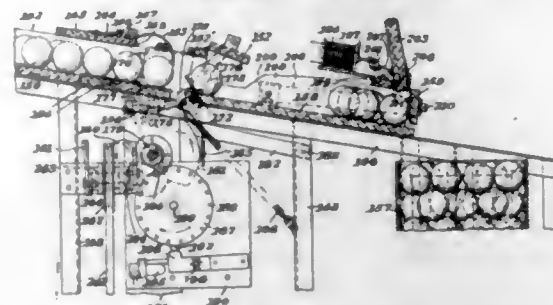
**2,713,445**  
**END ATTACHMENT FOR WATCH BANDS**  
Kurt Speck, Palisades Park, N. J., assignor to Jacques Kreisler Manufacturing Corporation, North Bergen, N. J., a corporation of New Jersey  
Application February 1, 1952, Serial No. 269,464  
10 Claims. (Cl. 224-4)



5. An end attachment for watch bands and the like adapted to be mounted between spaced lugs, comprising an apertured member having connected thereto a backing plate, said said backing plate having a bent-down portion and said apertured member having a longitudinally extending slot with one end thereof defining a shoulder portion, and a coiled spring member disposed within said apertured member, said coiled spring member having a looped portion positioned between said bent-down portion and said shoulder portion to secure said spring member

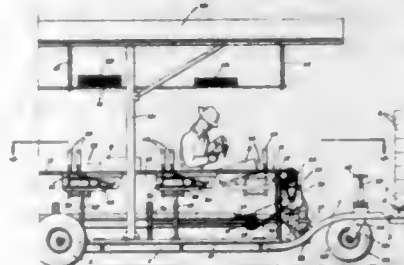
against bodily movement, whereby said spring member adjusts itself automatically to the distance between the spaced lugs so that a single size end attachment can be used for a range of distances between said spaced lugs.

**2,713,446**  
**BOX-FILLING MACHINE**  
Thomas M. Vaughan, Tampa, Fla., assignor to United Paper Company, Tampa, Fla., a corporation of Delaware  
Application February 25, 1949, Serial No. 78,254  
20 Claims. (Cl. 226-2)



1. A machine for filling containers with a specified number of pieces of fruit or the like, comprising, a feeding channel leading to a container, means for supplying said pieces to said feeding channel, means in said channel to assist in moving said pieces in file relation, a gravity-actuated member engaged by each piece, circuit means energized by the movement of a predetermined plurality of said pieces engaging said member in a feeding direction, means for partially advancing a counting wheel each time said circuit means are so energized, a closure gate for barring the delivery end of said feeding channel, a latch adapted to hold said closure gate in open position, and yieldable means for moving said closure gate into closed barrier position relative to said feeding channel upon the unlatching of said latch by completion of the movement of said counting wheel through a predetermined rotary angle, whereby said container is filled with a predetermined number of pieces of fruit or the like before said closure gate moves into its closed position.

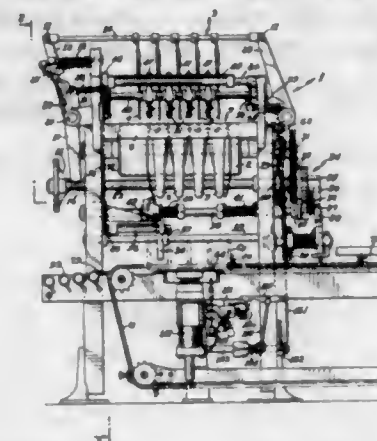
**2,713,447**  
**PORTABLE PACKING STAND**  
George Lee Maner, Lodi, Calif.  
Application August 3, 1953, Serial No. 372,137  
10 Claims. (Cl. 226-2)



1. A portable packing stand, for fresh produce, comprising an elongated wheel supported frame adapted for field travel adjacent the point of harvest of said produce, said frame having a low level bed thereon, an upstanding longitudinal frame structure on the bed spaced from one side thereof, a driven endless conveyor for packed boxes, extending along the frame structure above the bed, and a plurality of longitudinally spaced box packing and weighing stations mounted above the bed between said side thereof and the conveyor; each of said stations including a weighing scale having a scale platform adapted to receive a box thereon, and a fixed box supporting platform disposed adjacent the scale platform, each scale platform being disposed parallel to the conveyor, and the corresponding fixed platform projecting laterally out from the scale platform.

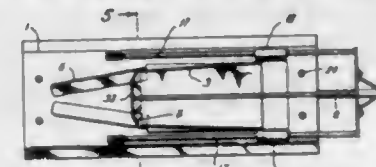
**2,713,448**  
**CASE FEEDING MECHANISM FOR PACKING MACHINE**

Ludwig Wimmer and Edgar Ardell, Middletown, Conn., assignors to Embart Manufacturing Company, a corporation of Delaware  
Application August 3, 1949, Serial No. 108,264  
15 Claims. (Cl. 226-14)



11. In an article packing machine, packing mechanism for inserting a charge of articles in a case including a reciprocating table, the initiation of the cycle of operation of said packing mechanism being effected by the rise of said table, a flight conveyor to advance empty cases, said table serving to raise a case from said flight conveyor to the charge-receiving position of said packing mechanism and to return the filled case to said flight conveyor for ejection, step-by-step conveyor moving mechanism having a cycle of operation for advancing said flight conveyor, elevating mechanism for said table, means actuated by the return movement of said table to effect the initiation of the cycle of operation of said step-by-step conveyor moving mechanism, and means actuated by said mechanism for controlling said elevating means to raise said table.

**2,713,449**  
**PACKAGING APPARATUS**  
William E. Carmichael, Houston, Tex.  
Application April 13, 1951, Serial No. 220,950  
4 Claims. (Cl. 226-18)

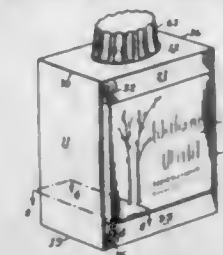


1. A packaging device comprising a support, a tapered trough, a pair of pivotally mounted guides at the narrow end of said trough, biasing means biasing said guides to a converging position, a plunger including a rod and a plate attached to one end thereof, said plate having its major axis substantially perpendicular to the axis of said rod and having its respective end portions bent toward said rod at an acute angle with respect to said rod, and means for reciprocating said plunger along the longitudinal axis of said trough and guides and throughout substantially the entire length of both.

**2,713,450**  
**WRAP-AROUND-TYPE FOLDING BOX CONSTRUCTION**  
Marshall I. Williamson, New Haven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated, New Haven, Conn., a corporation of New York  
Application December 14, 1950, Serial No. 200,743  
3 Claims. (Cl. 229-40)

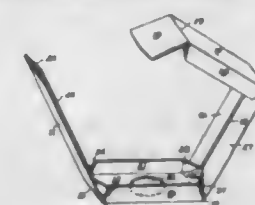
1. A folding box of the wrap-around type for the visual packaging of contents, the box comprising enclosing wall panels extending about the contents, said wall panels

including terminal wall panels joined together at the box closure and intermediate wall panels between the terminal wall panels, the wall panels including, specifically, a bottom wall panel, a pair of side wall panels, and a top wall panel, said wall panels being of substantially equal width and being articulated to one another along box corner fold lines; substantially frusto-pyramidal box contents grasping structures extending from two opposed wall panels inwardly of the box, each of said structures comprising two flange panels articulated to the said opposed wall panels along their side edges which side edges constitute flange base lines, said flange panels constituting



two opposite sides of the pyramid frustum and forming an angle of less than 90 degrees with the wall panel to which they are articulated, said flange panels having side edges forming an angle of less than 90 degrees with said flange base lines, and substantially triangular gusset panels articulated to the side edges of said flange panels, said gusset panels also constituting portions of the pyramid frustum; flange panels articulated to the remaining wall panels along their opposite side edges, said last named flange panels being folded flat upon the wall panels to which they are articulated, the side edges of the flat-folded flange panels being articulated to said gusset panels.

**2,713,451**  
**WRAP-AROUND-TYPE FOLDING BOX CONSTRUCTION**  
Marshall I. Williamson, New Haven, Conn., and Frederick G. Fisher, Waban, Mass., assignors, by mesne assignments, to National Folding Box Company, Incorporated, New Haven, Conn., a corporation of New York  
Application December 14, 1950, Serial No. 200,744  
12 Claims. (Cl. 229-40)



1. A wrap-around type folding box for the visual packaging of contents, the box comprising a series of enclosing wall panels of substantially equal width articulated to one another along box corner fold lines and extending about the box contents; flange panels articulated to opposite edges of said wall panels, said flange panels being articulated to one another along gusset folds, each gusset fold comprising two crease lines running from the end of a corner fold line across the stock of the flange panel, certain of the gusset folds including two crease lines both of which form angles with the respective corner fold line toward which they run, considering the structure in flat blank condition, flange panels of non-consecutive wall panels being adhesively secured to form with the respective wall panels box walls having two ply thickness at least in part, unsecured flange panels forming contents engaging flanges, said contents overlying flanges extending at an angle with respect to the wall panels to which they are articulated; a tuck flap articulated along a corner fold line to a terminal wall panel having upstanding unsecured flanges in the set up box, and flange panels articulated to opposite edges of said tuck flap, and folded back



and adhesively secured to said tuck flap, said tuck flap with its flange panels being insertable between the other terminal wall panel and its folded back flange panels, said two terminal wall panels meeting at a box corner.

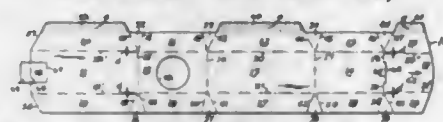
2,713,452

## WRAP-AROUND FOLDING BOXES

Marshall I. Williamson, New Haven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated, New Haven, Conn., a corporation of New York

Application December 14, 1950, Serial No. 200,745

2 Claims. (Cl. 229-40)



2. A wrap-around type folding box for the visual packaging of contents, the box comprising a series of enclosing wall panels and a tuck panel articulated along box corner fold lines in end-to-end relationship; flange panels articulated to opposite side edges of each of said wall panels and of said flap panel, said flange panels being articulated to one another along gusset folds in end-to-end relationship, each gusset fold comprising two crease lines running from the end of a corner fold line across the stock of the flange panel, certain of the gusset folds including two crease lines both of which form angles with the respective corner fold line toward which they run, considering the structure in flat blank condition, the flange panels articulated to certain wall panels extending at an angle with respect to said certain wall panels and forming box contents engaging flanges, the remaining flange panels lying flat against the respective wall panels from which they extend, the flange panels articulated to the tuck panel being folded thereover to form a tuck flap therewith at least partially of double thickness, said tuck flap being inserted between the endmost wall panel and the flange panels folded thereover, the scores of the flange panels of the tuck panel being parallel to, and inwardly offset with respect to, the scores of the endmost wall panel, the flange panels being folded along their scores with the scores broken in an irregular, but controlled way to form a slightly tapered wall structure narrowst at said tuck flap and widest at said endmost wall panel.

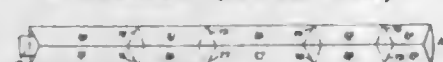
2,713,453

## WRAP-AROUND FOLDING BOXES

Marshall I. Williamson, New Haven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated, New Haven, Conn., a corporation of New York

Application December 14, 1950, Serial No. 200,746

4 Claims. (Cl. 229-40)



3. A box blank of foldable sheet material for a wrap-around type folding box, the blank comprising a series of enclosing wall panels of substantially equal width articulated to one another in end-to-end relationship along box corner fold lines; flange panels articulated to opposite edges of the wall panels along side fold lines and folded back upon the respective wall panels, certain of said flange panels being adhesively secured in folded-back position, said flange panels being articulated to one another in end-to-end relationship along gusset folds at said corner fold lines, each of said gusset folds including two scores running across the flange panel stock, said two scores being aimed at a common point which also lies on the respective corner fold line, both said scores being at an angle with regard to said last named corner fold line, said two scores confining a substantially triangular panel portion between them, at least one of the

two scores in certain gusset folds having a weakened portion and an unweakened portion, the weakened portion lying adjacent the respective side fold line, the score including said weakened portion bordering an adhesively secured flange panel.

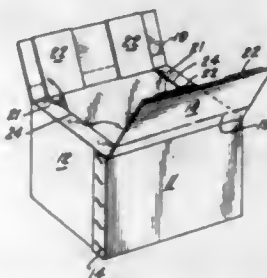
2,713,454

## EASY OPENING CONTAINER

Jay H. Nute, San Leandro, and Henry A. L. Thomas, Oakland, Calif., assignors to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application April 14, 1954, Serial No. 423,072

5 Claims. (Cl. 229-51)



1. An easy opening corrugated paperboard rectangular container for articles comprising two oppositely disposed end walls, two oppositely disposed side walls, a bottom and a top, said top comprising end flaps of substantially equal size extending from the said end walls, respectively, and folded toward one another, a perforated tear line extending between the lateral edges of said end flaps parallel to the top edge of said respective end walls and closer thereto than to the outer edges of said end flaps, a slot in each of said end flaps substantially midway between the lateral edges thereof, and extending substantially perpendicularly from the outer edges of said end flaps to the said perforated tear line therein, side flaps of substantially equal size extending, respectively, from the upper edges of said side walls, said side flaps being folded toward one another to overlie said end flaps with their outer edges substantially abutting, a perforated tear line extending between the lateral edges of said side flaps parallel to the upper edge of the said respective side walls and nearer to said upper edges of said side walls than to the outer edges of said side flaps, and said side flaps being adapted to be glued to said underlying end flaps only in the area of said side and end flaps between the said perforated lines and the outer edges thereof.

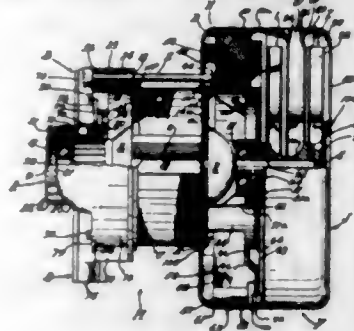
2,713,455

## ELECTRIC MOTOR-FAN UNIT

James D. Cole, Kent, Ohio, assignor to The Lamb Electric Company, Kent, Ohio, a corporation of Ohio

Application July 21, 1953, Serial No. 369,369

18 Claims. (Cl. 230-117)



1. An electric motor-fan unit comprising a rotor, a stator core within which the rotor is disposed and having the ends thereof formed to provide end face surfaces perpendicular and external arcuate surface portions co-axial to the axis of the rotor; a first frame end member having an annular body portion including a plurality of spaced radially projecting lugs apertured in a direction parallel

to the annular axis, and having an integral bridge portion across said annular body portion, the annular body portion having an internally rabbeted rim providing a cylindrical surface and a circular shoulder surface inward thereof corresponding respectively to the arcuate surface and end face surface portions at one end of the core whereby the said frame end member is fitted to said core, said bridge portion having formed therein an inwardly open rotor shaft bearing socket co-axial with said cylindrical surface; a second end frame member comprising an integral structure a disk centrally apertured to receive therethrough a rotor shaft and having a bearing socket formation on one face thereof about the disk aperture for receiving a second rotor shaft bearing, a plurality of posts spaced radially between said socket and the edge of said disk, said posts being circularly spaced from each other and extending perpendicularly from the rear side of said disk to said stator core, each post being rabbeted to provide an arcuate surface co-axial to the second said bearing socket and an inner shoulder surface corresponding respectively to the arcuate surface and end face surface portions on the second end of said core whereby the second frame member may be fitted thereto, a plurality of spaced air guide vanes perpendicular to the rear face of said disk extending outward obliquely relative to disk radii beyond the edge of said disk, and a cylindrical rim portion supported by the outer ends of said vanes in co-axial rearwardly spaced relation to said disk to provide air passageways between the rim and periphery of said disk; said rotor having the shaft thereof journaled by bearings in said sockets; frame bolts extending through said lugs exteriorly of said core and threaded into corresponding apertures in said disk for holding said frame members to said core with the said rotor mounted therein; fan impeller means on a rotor shaft end extended through said disk; and a fan unit housing including a first cylindrical member inclosing said fan impeller means having one end fitted about the forward part of said cylindrical rim portion and the other end inwardly flanged to provide a casing end wall having a central air inlet, and a second cylindrical member surrounding the rear side of said second frame member having one end fitted on the rearward part of said rim portion and the other end flanged inward toward and in circumferentially spaced relation to the said stator core to form an air exhaust chamber whereby air from said impeller means is directed to exhaust lengthwise of said core exterior thereto and between said core and said rotor for motor cooling.

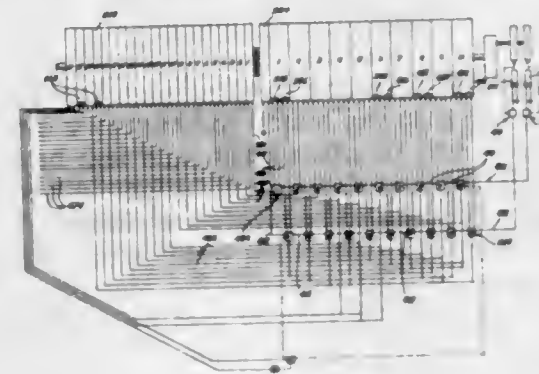
2,713,456

## MACHINE FOR TRANSLATING BINARY VALUES TO DECIMAL VALUES

Eugene E. Reynolds, Richmond, Calif., assignor to Merchant Calculators, Inc., a corporation of California

Application October 24, 1949, Serial No. 123,231

28 Claims. (Cl. 235-61)



1. A machine adapted to translate binary system values to decimal system values comprising: accumulator means for the receiving and storing of notations of binary values

and being thereby conditioned; cyclically movable indicator means carrying decimal system notations; stroboscopically energizable illumination means adapted to visually arrest a decimal notation carried by said indicator means; means including a pattern of discrete elements movable in sensing relation to said accumulator means and relatively movable with respect to said accumulator means in timed relation to the movement of said indicator means adapted to correlate the binary value condition of the accumulator means with a position of said indicator means; and means responsive to the correlating means upon correlation of said value condition and indicator means position to stroboscopically energize said illumination means.

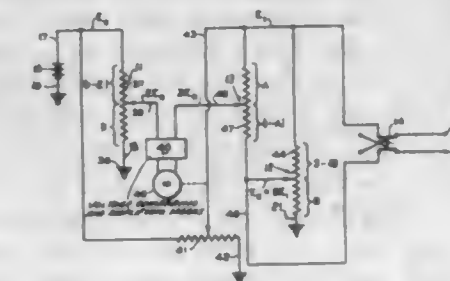
2,713,457

## COMPUTER

Frank W. Bubb, Webster Groves, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 9, 1950, Serial No. 167,129

15 Claims. (Cl. 235-61)



1. In a computer, in combination, a voltage source, means for picking off a preselected fraction of the voltage of said source to produce a reference voltage, an amplifier, a motor driven by the output of said amplifier, a first potentiometer connected directly across said voltage source, a second potentiometer, means for applying a variable portion of the voltage drop across said first potentiometer across said second potentiometer, said means being controlled by said motor, means for picking off a preselected fraction of the voltage drop across said second potentiometer, and means for comparing said preselected voltage drop with said reference voltage to produce a voltage difference for actuating said amplifier and said motor until said voltage difference is reduced to zero.

2,713,458

## SPEED-AVERAGING DEVICE

Everett J. West, Huntington, N. Y., and William A. Black, Montclair, N. J., assignors to General Time Corporation, New York, N. Y., a corporation of Delaware

Application July 14, 1952, Serial No. 298,872

11 Claims. (Cl. 235-61)



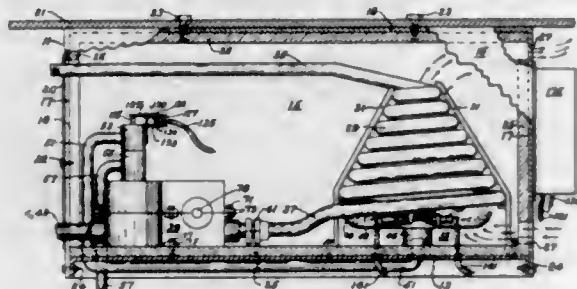
1. An averaging device comprising means for producing translatory movement representative of the logarithmic value of a constant rate, means for producing translatory movement representative of the logarithmic value of a variable rate, a first means controlled by both of said movement producing means for indicating the difference in movement produced by both of said means, and a second means controlled by both of said movement producing means for indicating the occurrence of a predetermined minimum movement by each of said producing means.



2,713,459

**FLUID HEATER CONTROL APPARATUS**

Ray G. Phillips, Port Huron, Mich.

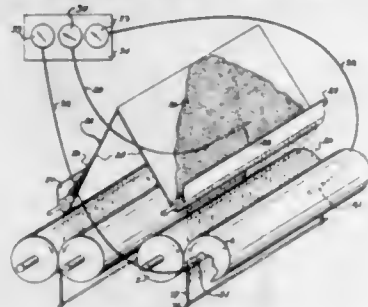
Application September 22, 1951, Serial No. 247,877  
10 Claims. (Cl. 236—20)

4. A liquid heater and temperature regulator for automotive vehicle engines comprising, a gas burner, an engine cooling liquid heater coil to be heated thereby, a temperature responsive gas control valve for admitting fuel gas to said burner in accordance with the temperature of the engine cooling liquid to be heated by said heater coil, a liquid circulator for circulating engine cooling liquid to be heated through said heater coil, a casing mounting said valve and circulator in a unit and providing fluid flow conduit means interconnecting therebetween, a housing enclosing said casing, burner and heater in a compact assembly for convenient installation, conduit means joining said heater coil and circulator in a cooperative fluid flow relation and extending externally to said housing for convenient connection into an engine cooling system, conduit means connecting said valve to supply regulated gas to said burner, a conduit extending from said valve external to the housing for connection with a fuel gas source, an electric motor connected to drive said circulator, an electric ignition to ignite said burner, said electric motor and ignition being operative from an automotive vehicle battery, and electric control means actuated by said temperature responsive valve for starting said motor and energizing said ignition from the automotive vehicle storage battery when gas is supplied to the burner.

2,713,460

**METHOD FOR REGULATING PRESSURES ON MILLING ROLLS**

Fred M. Atkinson, Minneapolis, Minn., assignor to Atkinson Milling Company, Minneapolis, Minn., a corporation of Minnesota

Application February 28, 1952, Serial No. 274,013  
4 Claims. (Cl. 241—8)

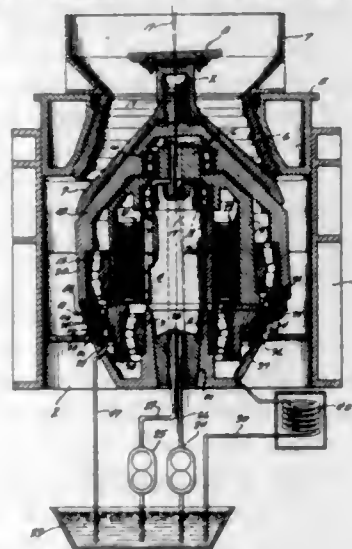
1. In the art of flour milling, the method which involves grinding grain under atmospheric conditions to continuously produce a maximum and uniform extraction of flour from the grain, consisting in providing a confined source of the grain under atmospheric conditions, continuously recording the temperature of the grain before grinding, grinding the grain under atmospheric temperature conditions, continuously recording the temperature of the grain as it leaves the grinding zone, and regulating the grinding force applied to the grain according to the difference between the said recorded temperature of the unground grain and the ground grain, increasing said grinding force when the difference in temperature is less than a predetermined

amount and decreasing the compressive force when the difference in temperature is greater to maintain a substantially constant difference in temperature.

2,713,461

**GYRATORY CRUSHER**

Axel W. Kjelgaard, Milwaukee, Wis.

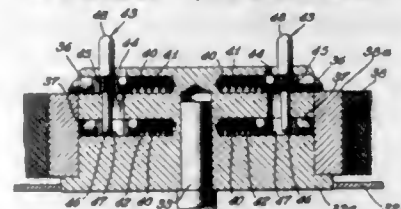
Application April 10, 1952, Serial No. 281,575  
10 Claims. (Cl. 241—208)

1. In a gyratory crusher including a frame, a vertical fixed shaft within said frame, an outer fixed crushing member carried by said frame, and an inner crushing member operating within said first named member to receive and crush material therebetween; a motor having a stator concentrically mounted on said shaft and a rotor extending around said stator, a motor housing for said stator and rotor and supporting the latter with the outer annular surface of the housing being disposed eccentrically of said shaft, bearing means supporting said housing on said shaft for rotation of the housing on a vertical axis by electrical energizing of the motor, and bearing means carried exteriorly of and by said motor housing and supporting said inner crushing member for rotation on said first named axis freely with said housing when the rotor is energized and for relative rotation on an axis offset from said first named axis.

2,713,462

**TAPE REEL SUPPORT**

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois

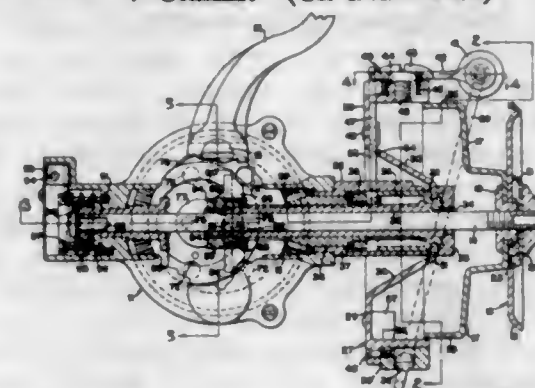
Application January 8, 1949, Serial No. 69,905  
4 Claims. (Cl. 242—68)

1. A rotatable circular hub affording means for mounting a tape roll, a spring biased roll-engaging member for securing tape rolls to said mount, said hub having holes provided in the circumferential surface thereof within which said roll-engaging members are slidably fitted, said hub also having slots extending from the top of said hub down to each of said roll-engaging members, movable stop members engaging each of said roll-engaging members to limit the extent of protrusion of said roll-engaging members from said hole, and the ends of said stop pins protruding from said slots whereby said pins may be drawn toward the center of said hub within said slots to retract said roll-engaging members from engagement with rolls mounted on said hub.

2,713,463

**SPINNING REEL**

Thomas F. Sarah, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio

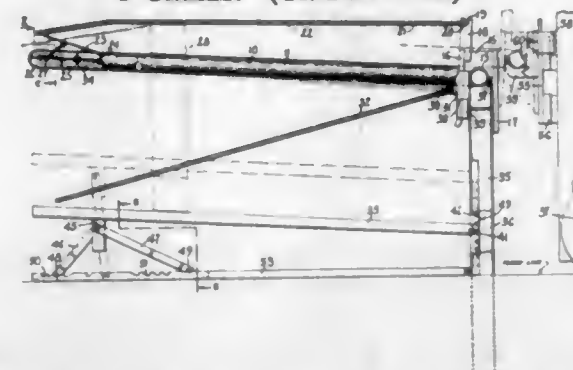
Application July 30, 1953, Serial No. 371,385  
7 Claims. (Cl. 242—84.4)

1. A spinning reel having a spool shaft, a spool fixed on the shaft, a hollow shaft slidable and rotatable on said spool shaft, a carrier having a pick-up arm, a bearing bushing supporting said carrier on said hollow shaft and extending toward the rear of the carrier, a pinion splined on said hollow shaft for relative sliding movement, a driving gear meshing with said pinion, eccentric means on said driving gear operatively connecting said gear to said hollow shaft for reciprocating said carrier as it is rotated by said gear, and a bearing sleeve journaling said pinion behind said bearing bushing and slidably overlapping the same.

2,713,464

**WIRE COIL FLIPPER**

John P. King, North Haven, Conn., assignor to The Alfred B. King Company, North Haven, Conn., a corporation of Connecticut

Application May 26, 1952, Serial No. 290,015  
5 Claims. (Cl. 242—128)

2. In a device for handling coils of wire or strip material, a head member, a ram secured at one end to said head member and projecting therefrom so that its free end may extend through a coil, a support for the head by which the latter is removably carried, means on the support and head to hold the ram in a substantially horizontal position, and a drag pivotally attached to the head below the ram to extend outwardly along the ram, said drag being pivoted closely adjacent the ram and foldable to a position in proximity to the ram.

2,713,465

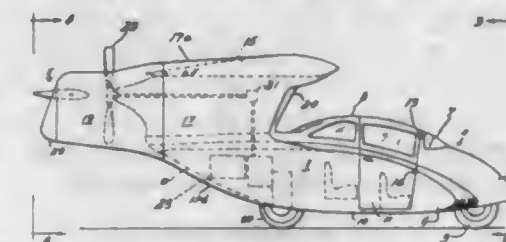
**COMBINED AIR-GROUND VEHICLE**

Harry E. Novinger, La Plata, Mo.

Application May 21, 1953, Serial No. 356,528  
18 Claims. (Cl. 244—2)

1. A machine adapted for air and ground travel comprising a main body adapted to house power means and controls and seating accommodations for the operator, wheels supporting the body and comprising rear drive wheels and a front steering wheel, the body having its surface formed to provide a lower wing, an upper wing spaced above said lower wing, end plates at the

sides of said body extending across the ends of said wings beginning substantially at the front of the upper wing and extending rearwardly to the rear edge of the upper wing to provide, with the cooperating top surface of the lower wing and the lower surface of the upper



wing, an air channel beneath the upper wing and over the rear portion of the lower wing, and an air propeller supported by said body at the rear ends of said wings positioned to draw air rearwardly from said channel and from the space immediately above the upper wing.

2,713,466

**SHOCK ABSORBING DEVICE**

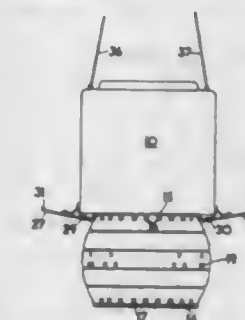
Alexander Spurgeon Fletcher, Farnborough, Bertie William George Savill, Frimley, and Daniel Perkins, Bedford, England, assignors to the Minister of Supply, in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application January 25, 1950, Serial No. 140,368

Claims priority, application Great Britain

January 31, 1949

17 Claims. (Cl. 244—138)



1. A pneumatic shock-absorbing device comprising an inflatable, perforated bag and a membrane covering a perforation in said bag and of lower breaking strain than said bag, whereby said bag will absorb a relatively violent initial impact without bursting, but will still retain sufficient air to afford continued cushioning after the initial impact.

2,713,467

**SHOCK ABSORBER FOR FALLING OBJECT**

Ralph B. Schreiber, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application March 6, 1950, Serial No. 147,864

7 Claims. (Cl. 244—138)



1. A shock absorber for a descending object comprising a hollow collapsible strut assembly for contain-



ing fluid and mounted in line ahead of said object, means defining two opposite lateral openings from the inside of said strut assembly to the outside, a wedge deflector fixed within said strut assembly, said deflector having a central crosswise edge and an outwardly directed side surface sloping back from each side of said edge, said side surfaces shaped and positioned to form a fluid ejection path through each of said openings which is substantially at a right angle to the axis of collapse of said strut assembly, and means for orienting said object with said shock absorber pointing downwardly.

2,713,468

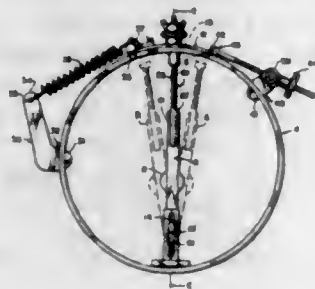
## POSITIONING DEVICE

Maurice Distel, Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application May 4, 1953, Serial No. 353,021

4 Claims. (Cl. 248—186)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An apparatus for positioning a photocell in a predetermined plane comprising a housing having a peripheral slot therethrough, a support for mounting said photocell within said housing disposed in said plane, a member slidably mounted on said housing, a shaft having an unthreaded end affixed to said support and a threaded end extending through said slot and said member, means threadably engaging said threaded end of said shaft for reciprocally actuating said support in a linear path, a first bracket affixed to said housing and spaced from one end of said member, tensioning means intermediate said first bracket and said one end, a second bracket affixed to said housing and spaced from the other end of said member, and means intermediate said second bracket and said other end of said member for moving said member lateral to said linear path thereby angularly displacing said support in said plane.

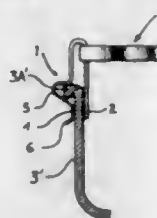
2,713,469

## REMOVABLE UTENSIL HANDLE HOLDER

Harold D. Wright, Huntington Park, Calif.

Application August 15, 1950, Serial No. 179,475

3 Claims. (Cl. 248—229)



1. A removable utensil handle holder adapted for removable engagement with respect to the edge of a container and adapted to removably engage the handle of a utensil for supporting the utensil in a selected position with respect to the container, comprising: container engaging means having a first substantially straight downwardly directed container engaging finger adapted to abut and engage one surface of a container wall and having a second laterally spaced container engaging finger provided with an upper virtually downwardly directed container engaging portion, a lower curved container engaging portion, and a recessed portion connecting said upper

and lower portions, said upper and lower portions being positioned to engage the opposite surface of the container wall from the first finger, and said recessed portion being recessed in a direction away from the first finger to allow the container engaging means to be slipped over the edge of a flanged container and be removably positioned with the recessed portion of the second finger in encompassing relationship with respect to the container flange, said container engaging means including a bight portion at the top thereof connecting said first and second container engaging fingers; and utensil handle engaging means carried by the container engaging means adjacent the top thereof in a laterally projecting position for removable engagement with the handle of a utensil for supporting the utensil in a selected position with respect to the container until the utensil handle is manually removed from engagement with respect to the utensil handle engaging means, said utensil handle engaging means being of U-shaped bifurcated configuration having two laterally directed adjacent resilient handle-engaging members connected at similar ends by a bight portion disposed in the bight portion of the container engaging means.

2,713,470

## LANTERN HOLDER

Louis Bodnar, Cleveland, Ohio

Application March 10, 1950, Serial No. 148,928

2 Claims. (Cl. 248—302)



1. In a lantern support, a pair of wires each comprising a substantially semi-circular portion, said portions being connected by a hinge to swing in their common plane and adapted to encircle and grip a lantern, the internal diameter of said combined semicircular portions being less than the diameter of a lantern to be supported, said wires also comprising straight arms extending in the same plane away from said hinge, a pair of resilient leg wires pivoted to said arm portions at the extremities of the latter, said leg wires having at their upper ends lateral extensions beyond the pivots terminating in hooks engaging the said arm portions beneath the same, whereby the support may be folded into a small compass.

2,713,471

## TELEPHONE STAND FOR CIRCULAR OR OVAL TYPE

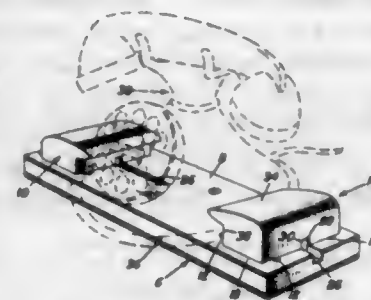
Eric D. Hirsch, Memphis, Tenn.

Application July 24, 1952, Serial No. 300,585

1 Claim. (Cl. 248—346)

A telephone base in the form of a head applicable to the upper end of a standard on a telephone stand comprising a substantially rectangular panel having flat top and bottom surfaces, said panel being provided at each end with a pair of spaced parallel longitudinal slots opening through the top of the panel, the bottom side of the panel having sockets, said sockets registering with the respective slots and opening accessibly through the bot-

tom of the panel, a pair of jaws slidably mounted against the top surface of the panel, each jaw having headed fasteners slidably in said slots and sockets, the headed portions of the fasteners projecting below and being wholly uncovered and accessibly accessible by way of the open undersides of the sockets, a coil spring surrounding



each shank and located in the cooperating socket, said panel being provided between said slots and in its top surface with an elongated slot providing a keyway, said keyway opening through the adjacent transverse end of the panel, the coacting jaw having a key and said key being slidable back and forth in said keyway.

2,713,472

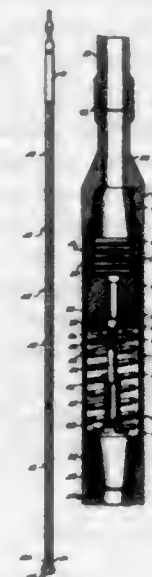
## SONIC EARTH BORING DRILL WITH SELF-RESONATING VIBRATION GENERATOR

Albert G. Bodine, Jr., Van Nuys, Calif.

Original application December 11, 1950, Serial No. 200,277. Divided and this application May 11, 1951,

Serial No. 225,828

5 Claims. (Cl. 255—4.4)



1. Apparatus for drilling a bore hole in the earth having in combination: a bit for applying vibratory drilling action on the bottom of said bore hole, an elongated massive rod drivingly coupled to the upper end of said bit, and an elastic vibration generator drivingly coupled to said rod, said generator embodying a housing coupled to said rod and having therein a mass oscillating in a direction longitudinally of said rod between two springs supported therein, said mass and springs being tuned to have a resonant frequency near a resonant frequency of said rod for a selected longitudinal mode of elastic vibration of said rod, said vibration generator being arranged to receive drilling fluid from a drill pipe string suspended in the bore hole, and including means powered by said drilling fluid for oscillating said mass and springs, whereby the bit will be vibrated by cyclic motion of the end of said rod in response to resonant frequency vibrations imparted to said rod by said generator.

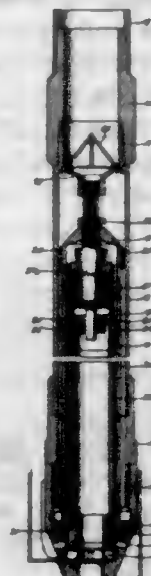
2,713,473

## CLEANABLE CORE BARREL

Jack E. Talbot, Bakersfield, Calif.

Application June 29, 1953, Serial No. 364,530

2 Claims. (Cl. 255—72)



1. A core barrel comprising a core bit, an outer shell connected thereto attachable to a drill string, an outer barrel mounted on the core bit and disposed within the shell in spaced relation thereto, an inner barrel disposed within the outer barrel and in spaced relation thereto, there being passages in the core bit providing for egress from the space between the outer barrel and the shell and from the space between the inner barrel and the outer barrel, respectively, there being one or more passages through the wall of the inner barrel adjacent the top thereof, a hollow stem threadedly extending through the top of the outer barrel so as to be vertically adjustable relatively thereto and extending down into the top of the inner barrel providing ingress into the top of the inner barrel, means including an anti-friction bearing connecting the top of the inner barrel to said hollow stem so that the inner barrel may rotate relatively thereto, a valve seat in the top of the hollow stem, and a ball valve adapted to be dropped through the drill string to seat upon said seat whereby prior to the dropping of the ball circulation fluid may be forced down through the hollow stem and into the inner barrel to flush out the inner barrel and after the dropping and seating of the ball further downward flow of circulation fluid through the stem and into the inner barrel is discontinued.

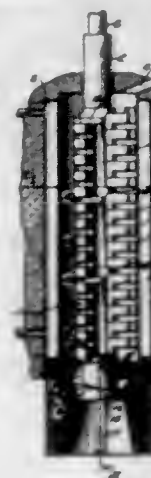
2,713,474

## APPARATUS FOR MAKING REFRIGERATED COMESTIBLES

George E. Read, Santa Monica, Calif., assignor to Insta-Freeze Corporation, San Francisco, Calif., a corporation of California

Application March 29, 1952, Serial No. 279,270

5 Claims. (Cl. 259—43)



1. A beater and cutter assembly adapted for removing frozen comestible material from the cylindrical walls of



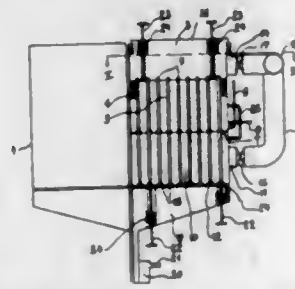
a freezing chamber, comprising: a central rotatable main shaft; parallel pivot shafts arranged symmetrically around the axis of the main shaft and rotatable therewith; a plurality of segmental beater bars journaled on said pivot shafts said bars increasing in width and mass toward their free extremities and tending on rotation of said main shaft to extend radially therefrom; and cutter blades along the leading edges of the extremities of said beater bars; the extremities of said beater bars being relieved back of said cutter blades and said cutter blades being disposed in proximity to but clearing said cylindrical walls, whereby on starting of said shaft and on encountering excessive accumulation on said walls said beater bars are pivotal backward relative to the direction of rotation thereby swinging clear of and away from said cylindrical walls.

**2,713,475**  
**PORTABLE EGG BEATER**  
Albert Matalon, New York, N. Y.  
Application February 4, 1953, Serial No. 335,107  
1 Claim. (Cl. 259—128)



An egg beater comprising a spindle, a dasher body slidably supported on said spindle, said body having pairs of blades hingedly connected at their ends and normally collapsed against the spindle, the individual blades of each pair being hinged together, said blades having openings therein, a tubular handle slidably mounted on and enclosing one end of said spindle, a cap removably secured to the other end of said handle, one pair of blades being connected to the spindle by the hinge rod of said pair, means of operative connection between the other pair of blades and the handle including a loop portion on the hinge rod of said latter pair of blades, said loop portion partly encircling the handle and being clamped to one end thereof, and a compression spring housed in the handle and having one end seated against the cap and its other end against the inner end of said spindle for retracting the handle when pressure thereupon is released to return said blades to collapsed condition.

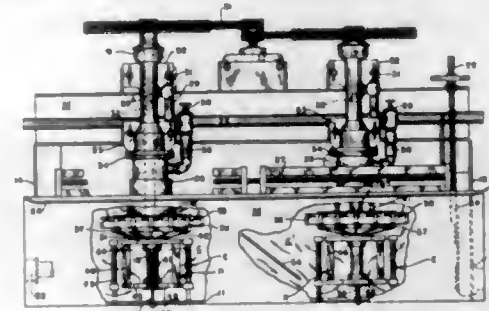
**2,713,476**  
**APPARATUS FOR TREATING GASES BY MEANS OF A LIQUID**  
Adolphe Ferdinand Steichen, Anderlecht, Belgium  
Application June 15, 1951, Serial No. 231,682  
Claims priority, application Belgium June 28, 1950  
2 Claims. (Cl. 261—21)



1. An apparatus for purifying gases by means of a liquid, comprising a vessel, internal partitions defining

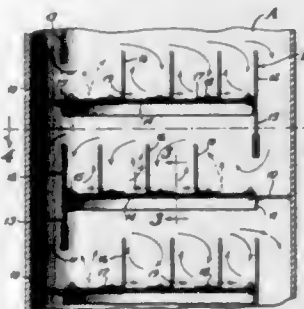
within said vessel several compartments, each compartment comprising an input and an output, means for connecting the output of one compartment to the input of another compartment, each compartment comprising a series of vertical and circular tubes, holes provided at the periphery of said tubes, non perforated sleeves mounted concentrically with said tubes, means for causing the sleeves to shut more or less the holes provided in said tubes, by causing a relative axial motion between the tubes and the sleeves, an enclosure surrounding said tubes and adapted to contain a liquid to be mixed with a gas circulating in said tubes, an impact surface adapted to have projected thereon the jets of mixed gas and liquid issuing from said tubes, and an expansion chamber.

**2,713,477**  
**DUAL AERATING APPARATUS AND METHOD**  
Arthur C. Daman, Denver, Colo., assignor to Mining Process and Patent Company, Denver, Colo., a corporation of Delaware  
Application April 7, 1952, Serial No. 280,970  
19 Claims. (Cl. 261—87)



1. Apparatus for agitating and aerating solids in liquids, comprising a tank for pulp having a feed inlet and a discharge outlet determining a liquid level therein, a hollow shaft journaled for rotation in the tank and having its lower end spaced from the bottom of said tank, at least two impeller members mounted on said shaft for conjoint rotation at different elevations in the pulp body, a stationary enclosure overhanging an upper impeller and having a central opening for recirculation of pulp through the space between said impeller and its enclosure, there being a bottom opening for delivery of pulp to the lower impeller under its pumping influence, there being vertically spaced openings in the shaft for discharging an aerating gas into the path of rotation of each impeller, means for delivering gas under pressure through said hollow shaft, and means for rotating said impeller members.

**2,713,478**  
**APPARATUS FOR COUNTER-CURRENT CONTACTING OF LIQUIDS AND VAPORS**  
Edward G. Ragatz, San Marino, Calif., assignor to Edw. G. Ragatz Co., San Marino, Calif., a partnership  
Application October 3, 1952, Serial No. 312,933  
7 Claims. (Cl. 261—114)



1. A liquid-vapor contacting apparatus of the character described comprising a horizontal column tray across which liquid flows including, a thin perforate plate, blanking plates located over the perforate plate transverse the

liquid flow, and vertical weirs paralleling and attached to the blanking plates forming barriers between the blanking plates and the adjacent downstream free perforated plate sections, said weirs and blanking plates forming vapor-disengaging and liquid-coalescing zones between perforate plate sections whereby a portion of the cross-flowing liquid is coalesced and caused to recycle back into an adjacent upstream liquid-vapor contacting zone.

**2,713,479**  
**CONTINUOUS MINING APPARATUS WITH FLOOR CLEAN UP DEVICES**  
Donald Wiebe, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application February 28, 1951, Serial No. 213,209  
10 Claims. (Cl. 262—29)



1. In an apparatus of the character described, a base, a frame supported by said base for reciprocation with respect thereto, cylinder and piston mechanism for effecting such reciprocation, floor clean-up devices supported by said frame and having means including cylinder and piston mechanism for raising them relative to said frame and to a mine floor on which said base rests and for controlling lowering of said devices relative to said frame and the mine floor, means for effecting fluid supply and exhaust of fluid relative to said first mentioned cylinder and piston mechanism including conduits for supplying fluid respectively to effect advance and retraction of said frame relative to said base and valve means for effecting the supplying of fluid to and the exhausting of fluid from said conduits, means for supplying and venting fluid with respect to said second mentioned cylinder and piston mechanism including (a) a fluid-supplying and venting conduit connected thereto, (b) a connection with the conduit for the supply of fluid to effect retraction of said frame relative to said base, (c) a separate valve controlled fluid supply and exhaust conduit and (d) means including a valve controlled by fluid supplied through said separate valve controlled fluid supply and exhaust conduit and movable relative to said connection, said fluid supplying and venting conduit and said separate valve controlled fluid supply and exhaust conduit to connect said separate valve controlled fluid supply conduit and said connection only alternatively with said fluid supplying and venting conduit, for preventing venting of fluid supplied through said separate valve controlled fluid supply and exhaust conduit through the conduit for supplying fluid to effect retraction of said frame relative to said base when the conduit last mentioned is effecting exhaust.

**2,713,480**  
**HEAT TREATING APPARATUS**  
Alfred Ruckstahl, Dearborn, Mich.  
Application August 14, 1950, Serial No. 179,237  
2 Claims. (Cl. 263—8)

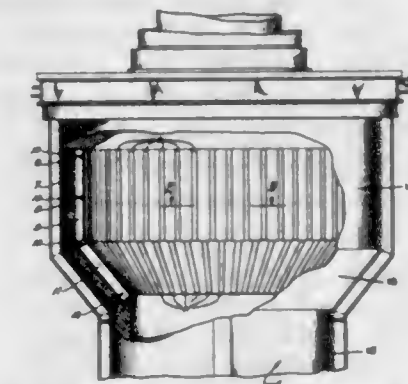
2. Heat treating apparatus comprising a furnace having a horizontally disposed tunnel provided with charge and discharge openings at its opposite ends to permit passing an article receiving tray therethrough and hav-

ing means for heating the interior of said tunnel, doors for the charge and discharge openings being supported for movement between open and closed positions, means for advancing the tray through said tunnel comprising a first group of rolls, a second group of rolls located adjacent the discharge opening of said tunnel exteriorly thereof, all of said rolls extending transversely of said tunnel and spaced apart longitudinally thereof, means forming a treating zone located beneath said second group of rolls, means supporting said second group of rolls for vertical movement as a unit into and out of said treat-



ing zone, power means for thus moving said second group of rolls, and means for selectively operatively connecting said drive means to said first and second groups of rolls to drive said first and second groups of rolls independently and in unison, said last named means including a driving element and a cooperating driven element associated with said second group of rolls and engageable with said driving element to be driven by the latter in the raised position of said second group of rolls, said elements being disengageable upon lowering of said second group of rolls into said treating zone.

**2,713,481**  
**CUPOLA LININGS, INCLUDING RAILROAD RAILS**  
Leo A. Glonet, Port Washington, Wis., assignor to Modern Equipment Company, Port Washington, Wis., a corporation of Wisconsin  
Application October 17, 1952, Serial No. 315,367  
6 Claims. (Cl. 266—43)



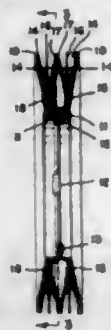
1. In a cupola: a layer of firebrick; a plurality of spaced metal wear members of predetermined depth, normal to the firebrick, having flat surface portions facing the outer side of the cupola and positioned against the inner side of said firebrick layer and also having outer wearing surfaces facing the interior of the cupola; and a layer of castable refractory material overlying said firebrick on the inside of the cupola and filling the spaces between said wear members, the surface of said layer being flush with the wearing surfaces of said members.

**2,713,482**  
**WASHER ASSEMBLY**  
Glenn D. Stapleton, Fort Wayne, Ind., assignor to the United States of America as represented by the Secretary of the Navy  
Application February 20, 1952, Serial No. 272,646  
3 Claims. (Cl. 267—1)

1. A resilient metal washer assembly comprising in combination, a first and second dished resilient annular retainer having recessed central portions approximately



of equal diameters and a plurality of ears protruding from each of the central portions and engaging the other of the central portions to attach said retainers one to the other, a plurality of resilient metal washers assembled between said retainers and each having an inner di-

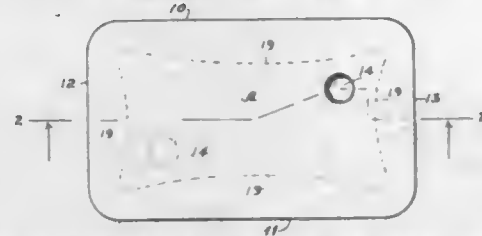


ameter greater than the diameter of the central portions of said retainers, and a plurality of intermediate floating washers spaced between said dished resilient metal washers each of said floating washers being disposed between an adjacent pair of resilient metal washers the inner edges of which are contiguous.

2,713,483

### RUBBER CUSHIONING UNITS FOR SHOCK ABSORBERS FOR RAILWAY DRAFT RIGGING

Richard G. Tillou, Berwyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware  
Application November 12, 1953, Serial No. 391,629  
5 Claims. (Cl. 267-1)

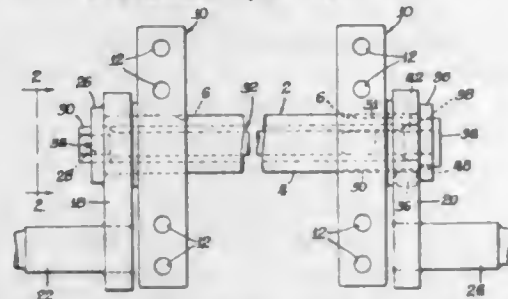


1. A shock absorbing unit for railway draft rigging, comprising a pair of metal plates having sides and ends and a solid rubber pad interposed between said plates and bonded thereto, said pad corresponding in outline to said plates and having its peripheral edge faces grooved lengthwise, the groove of each edge face of said pad being bowed inwardly between its ends.

2,713,484

### TORSION SPRING AXLE MOUNTING

Raymond C. Pierce, Chicago, Ill.  
Application October 18, 1951, Serial No. 251,889  
6 Claims. (Cl. 267-57)



6. An axle assembly for a vehicle comprising an axle member journaled to the vehicle, a spring member sleeved within said axle member and having a connection to the axle member on one end thereof, a crank connected to the axle member rotatable therewith about the longitudinal axis of said member and including wheel carrying means, adjustable means connecting said spring to the vehicle comprising an element having gear teeth connected to the spring, another element having gear teeth fixedly carried relative to the vehicle and engaging the first mentioned gear teeth, and means permitting the disengagement of said adjustable means while maintaining the connection between said members.

2,713,485

### RUBBER CUSHIONING UNITS FOR SHOCK ABSORBERS

Richard G. Tillou, Lombard, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware  
Application May 28, 1952, Serial No. 290,606  
4 Claims. (Cl. 267-63)

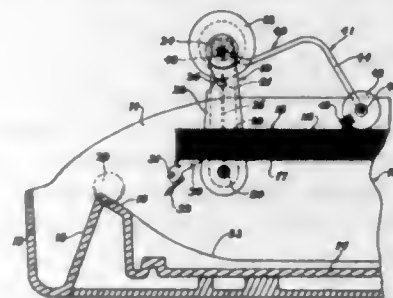


3. A shock absorber unit for railway draft rigging comprising a pair of imperforate metal plates of generally rectangular shape disposed in spaced apart parallel relation; a solid mass of rubber interposed between said plates in engagement with the entire adjacent faces of the plates and bonded thereto; spaced apart seats of spherical section indented in the plate and rubber on one face of the unit; and spaced apart bosses of spherical section projecting out of the rubber and plate on the other face of the unit, each of said seats being in axial alignment with a corresponding boss.

2,713,486

### DIFFERENTIAL FRICTION FEEDER FOR DISCRETE SHEETS

Guy D. Aydlett, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application August 14, 1952, Serial No. 304,371  
3 Claims. (Cl. 271-42)



1. In a device for removing discrete sheets from a stack, the combination comprising a frame having a surface spaced from the stack for receiving each discrete sheet, a first bail member pivotally mounted in said frame and including a roller rotatably mounted thereon for movement therewith between a normal position above and transversely of said stack and a clamping position in which said roller maintains the uppermost sheet on said surface as it is drawn thereunder, a second bail member pivotally connected to said first bail member adjacent the ends of said roller and including a roller provided with a diametrical aperture and rotatably mounted thereon for normally engaging the uppermost sheet on said stack when said first-mentioned roller is in said normal position and as said first-mentioned roller is moved from said clamping position to said normal position, a non-metallic insert carried by and extending axially of and beyond the periphery of said second-mentioned roller and having a coefficient of friction substantially greater than that of the roller for engaging and advancing the uppermost sheet on said stack only when said first-mentioned roller is moved from said normal position to said clamping position, a member fixed to said second bail member for engaging said aperture to rotate and limit the rotational movement of said second-mentioned roller and insert and for positioning said insert with respect to the uppermost sheet upon movement of said second bail member, and an actuating means operatively connected to said first bail member for moving said bail members simul-

taneously to position said first-mentioned roller on said surface and the leading portion of the uppermost sheet on said surface and beneath said first-mentioned roller.

2,713,487

### TENNIS PRACTICE DEVICE

George Alon Jaediker, Rego Park, N. Y.  
Application September 20, 1952, Serial No. 310,620  
4 Claims. (Cl. 273-29)



1. A ball return device comprising a base, ball mounting means including a pair of substantially parallel, stiff wire members having inturned portions at one end thereof pivotally mounted on said base and inturned portions extending toward each other at the other end thereof for fixedly supporting a ball, a spring member connected at one end to said base and at the other end to said wire members adjacent the pivoted portion thereof.

2,713,488

### BALL GAME APPARATUS

Adrian Lake Magrath, Edmonton, Alberta, Canada  
Application July 17, 1952, Serial No. 299,307  
1 Claim. (Cl. 273-85)



In a game, a cabinet provided with an inclined playing surface, an arcuate baffle for directing balls onto said playing surface, a pair of converging guide rails on said playing surface, a goal positioned between the front ends of said rails, a spool slidably mounted on the front of said cabinet whereby the spool can be manually adjusted along the front of the cabinet, a manually operable actuating member carried by said spool, a paddle actuated by said member for diverting the balls, a frame tiltably mounted in said cabinet, a coin operated mechanism for controlling movement of said frame, stops for limiting tilting movement of said frame, there being an opening at the lower end of said playing surface for the passage therethrough of balls, a return chute communicating with said opening, an upwardly inclined chute for discharging the balls against the baffle whereby the balls are directed to the area between the guide rails, a gun for receiving balls from said return chute and for directing the balls into said upwardly inclined chute, switch means carried by said frame for controlling actuation of said gun, and a ball releasing mechanism for feeding one ball at a time from the return chute to said gun.

2,713,489

### FALLING MAN CHAIN AMUSEMENT DEVICE

Eric Glaser, Chicago, Ill.  
Application May 17, 1954, Serial No. 430,058  
9 Claims. (Cl. 273-86)

1. An amusement device comprising a plurality of connectable links, each having a cylindrical element at one end, a jaw at the other end to which the cylindrical ele-

ment of the adjacent link can be coupled for swivelling movement therearound, a central section, and a figure adapted to be supported by the central section in a manner enabling said figure to fall forward, said figure having a straight transverse forward edge at the base thereof,

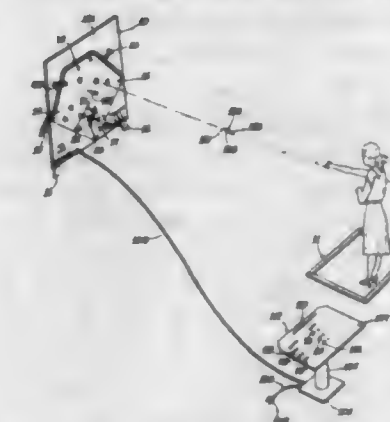


said central section having a transverse groove to receive the said transverse forward edge when said figure falls forwardly whereby to control the direction and position of the falling figure, and means for locating the figure on the central section with the said forward edge disposed over and aligned with the said groove.

2,713,490

### DART GAME

Albert V. Thompson, Brookfield, Ill.  
Application October 6, 1952, Serial No. 313,223  
4 Claims. (Cl. 273-88)

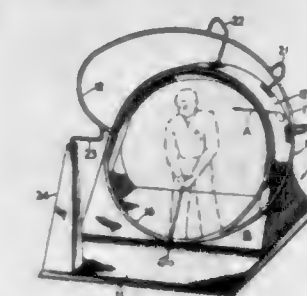


1. In a dart game comprising a dart receiving board, area designations on said board including a target area, a raised wall dividing certain area designations, light means disposed within said wall, said wall having openings in one side thereof adjacent the target area whereby the light means discharges light rays therethrough to illuminate the target area, and said board including the top surface of said raised wall having a relatively soft dart receiving material over the surface thereof.

2,713,491

### GOLF CLUB GUIDING DEVICE

John A. Plunkett and Eugene R. Dorso,  
Niagara Falls, N. Y.  
Application April 2, 1952, Serial No. 280,042  
7 Claims. (Cl. 273-191)



6. In a golf club guiding device, a rigid guide rail for frictional engagement with a lower rear surface portion of a golf club shaft, and means for rigidly supporting said guide rail comprising a rigid inverted U-shaped supporting frame, said guide rail including a circular portion disposed against said supporting frame in an upright rearwardly inclined plane and a portion extending tangentially

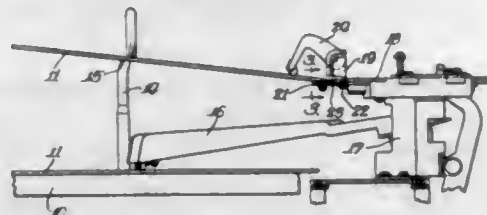


therefrom adjacent to the base of said circular portion in the direction of stroking and in a widening spiral path progressing forwardly of said inclined plane.

2,713,492

## RECORD CHANGER

Frank Smardo, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois  
Application March 17, 1951, Serial No. 216,155  
3 Claims. (Cl. 274—10)

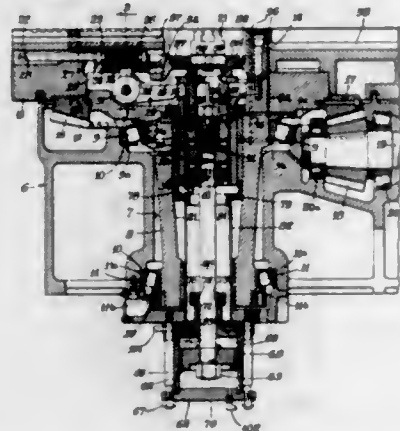


1. An automatic record changing device for automatically changing records of a first type formed as relatively heavy, thick discs and for automatically changing records of a second type formed as discs relatively light in weight and having thin outer portions, said device including in combination, means for supporting a stack of records of one of said first and second types including a supporting ledge having a surface for supporting the edge of the bottom record in said stack, sliding means on said supporting ledge extending above said surface by an amount substantially equal to the thickness of said records of said first type, said sliding means being movable to a position engaging the lower record in said stack of records to push said lower record off said supporting ledge, resilient supporting means having a portion extending from said surface of said supporting ledge and engaging said lower record supported on said ledge, said supporting means being constructed to have resilience such that it yields when engaged by the edge of a record of said first type and remains substantially unyielding when engaged by the edge of a record of said second type, so that said portion is held substantially flush with said surface of said supporting ledge when a record of said first type is supported thereon and said portion holds the edge of a record of said second type in a position substantially in alignment with said sliding means.

2,713,493

## HYDRAULIC CHUCK

Irvin Herbst, Cincinnati, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey  
Application October 20, 1951, Serial No. 252,329  
15 Claims. (Cl. 279—4)



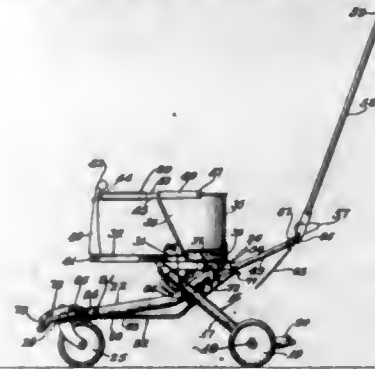
1. In a hydraulic chuck, a base, a work supporting head mounted for rotational and nonaxial movement in said base and formed with an axial opening and a plurality of radially disposed slots, jaws slidably mounted in said slots, bell crank levers pivotally mounted in said head and operatively connected to said jaws, a cylindrical actuating sleeve mounted in said opening for axial and nonrotational

movement relative to said head and engaging said levers, a solid piston rod disposed in said opening and sleeve and having one of its ends connected to said sleeve for relative rotational and nonaxial movement, and means to reciprocate said rod to move said jaws.

2,713,494

## CHILD'S VEHICLE FOR STROLLING OR WALKING

Robert A. Bailey, Burbank, Calif.  
Application September 13, 1950, Serial No. 184,550  
2 Claims. (Cl. 280—36)

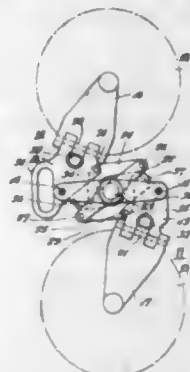


1. In a child's vehicle, the combination of a body, a supporting frame secured to the body and having bearings in the front end thereof, a tubular U-shaped frame member having its top horizontal portion mounted in said bearings and having two rearwardly extending branches, an axle secured to the ends of said branches, wheels mounted on said axle, a substantially T-shaped tubular frame member extending longitudinally of the center of the vehicle and having a transverse branch across the front of the vehicle, wheels mounted on said branch, a transverse rod secured to the upper end of the T-shaped member and pivotally mounted in the rear end of said frame, a ratchet secured to the horizontal portion of the U-shaped frame member extending downwardly through a slot in the upper portion of the T-shaped frame member adjacent to the transverse rod, said ratchet having an arcuate slot therein, a pin fixed in the T-shaped frame member and extending through said arcuate slot, a pawl pivotally mounted on the T-shaped frame member adjacent to the ratchet and adapted to coact with the ratchet, a spring tending to hold the pawl in engaging position, a thumbpiece on the pawl for actuating it to disengage it from the teeth in the pawl, the arrangement being such that the height of the body may be adjusted by releasing the pawl and lifting up the body whereby the upper ends of the frame members will swing upwardly within the range of the movement of the pin in said slot in the ratchet.

2,713,495

## COLLAPSIBLE TROLLEY

Karl Baumann, Wilmslow, England  
Application November 8, 1951, Serial No. 255,408  
20 Claims. (Cl. 280—40)



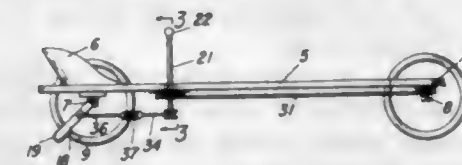
1. A collapsible trolley comprising two arms, each consisting of an inner part and an outer part, means mounting said inner parts for pivotal movement on axes offset in opposite directions to one another transversely of the

trolley from a longitudinal axis of the latter, said outer parts being hinged to said inner parts respectively on hinge axes disposed at an angle to said first axis for pivotal movement of said outer parts out of the plane of rotation of said inner parts, two wheels journaled respectively on the outer parts of said arms, said inner and outer parts extending in a collapsed position of the trolley from said pivotal axes inwardly of the trolley towards said longitudinal axis to locate the wheels at least substantially in a common plane with their axes located near said longitudinal axis and on opposite sides, respectively, of a transverse axis of the trolley, and said arms being movable in the same rotational direction as one another to operative positions with said inner parts extending away from said longitudinal axis and said outer part of each arm being movable with respect to the associated inner part to an operative position at an angle to the inner part about said hinge axes and out of the plane of rotation of said inner parts so as to locate the wheels at least substantially parallel with one another on opposite sides of said longitudinal axis.

2,713,496

## COMBINED STEERING AND BRAKING MEANS FOR CHILD'S VEHICLE

James B. Ayers, San Francisco, Calif.  
Application December 10, 1954, Serial No. 474,354  
1 Claim. (Cl. 280—87.01)

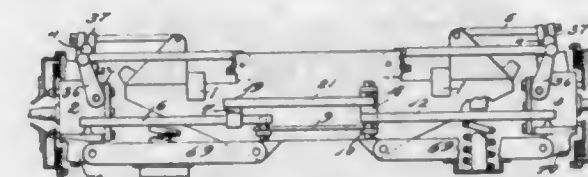


A combined brake and steering means for a vehicle having a rotatable front axle and ground-engaging wheels positioned thereon, a sprocket mounted on said axle in axial alignment with the pivotal point of said axle, a rear axle having ground-engaging wheels positioned thereon, a pivoted braking member secured to said rear axle, a steering post extending through said body, a channel-like member secured to said body, a pin extending through said post and having its ends in said channel-like member, whereby said steering post may rock on said pin and turn about a substantially vertical axis, a sprocket secured to said post, said sprocket having a chain reeved thereover and extending to said sprocket on said front axle, and an adjustable linkage connecting the lower end of said post and said braking member.

2,713,497

## STEERING MECHANISM FOR MOTOR VEHICLES

Curt Bretschneider, Philadelphia, Pa.  
Application February 14, 1951, Serial No. 210,843  
6 Claims. (Cl. 280—95)



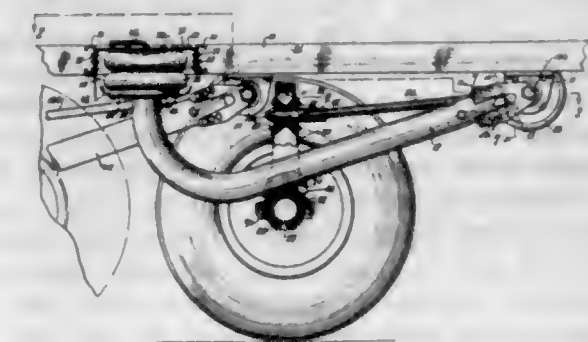
6. A steering mechanism for motor vehicles comprising steering knuckles for the front wheels of the vehicles, pairs of front and rear links having the outer ends of each pair pivotally connected to opposite sides of the steering knuckles, the front link of each pair being arranged at an acute angle with the rear link of its pair, a pair of links pivotally linked together, having a fixed pivot at one end and pivotally connected at their other end to the inner ends of the front links, a single link having a fixed pivot at one end and its other end pivotally connected to one of the rear links, a lever, having a fixed pivot, linked to said

single link at one side of the fixed pivot and pivotally connected with the inner end of a rear link, said lever at the opposite side of the pivot being linked to one of the front links near the inner end of such front link, and actuating means for said lever, and the acute angle of said front links contributing to cause, during the turning movement of the front wheels, the inner steering knuckle to have a greater degree of turning movement than the outer steering knuckle.

2,713,498

## PNEUMATIC VEHICLE SUSPENSION

Roy W. Brown, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
Application January 14, 1950, Serial No. 138,618  
8 Claims. (Cl. 280—104.5)

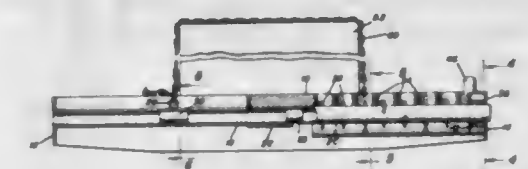


1. In a suspension device, a chassis to be supported, an axle, means for the resilient support of said axle in respect to said chassis, said means comprising a pair of air springs fixed to said chassis to depend therefrom, said air springs being spaced transversely of said chassis, and a pair of elongate tubular members each having a closed end and an open end, the closed ends of said tubular members being pivotally attached to said chassis and the open ends thereof being fixed to the depending ends of said air spring to permit fluid communication between the interior of said air springs and the interior of said tubular members.

2,713,499

## LOAD BINDER CONSTRUCTION

George E. Wagner, Hanging Rock, Ohio, assignor to fifty per cent to Carl Moritz, Ironton, Ohio  
Application January 12, 1954, Serial No. 403,614  
7 Claims. (Cl. 280—179)

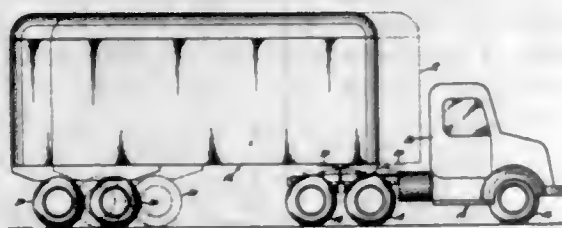


1. In combination with a vehicle body having a bed, a load binder comprising a first tubular member rotatably mounted on said bed transversely of and below the upper surface thereof, said first tubular member extending substantially halfway across said body from one side thereof, a second tubular member rigidly affixed to said bed in end-to-end relation to said first member, said second member being provided with an elongated slot in its upper surface, said bed having an elongated aperture in register with said slot, an anchor block slidably received within said second member, a hook secured to said block and projecting through said slot and elongated aperture, said bed having a plurality of transversely spaced apertures above the first tubular member, a plurality of longitudinally spaced hooks secured to said first member, each in register with one of the spaced apertures, and means operably carried by said body for rotating said first tubular member.



2,713,500

**ADJUSTABLE SEMI-TRAILER FIFTH WHEEL**  
 Edwin R. Flynn, Valley, Nebr.  
 Application November 25, 1953, Serial No. 394,307  
 2 Claims. (Cl. 280-407)

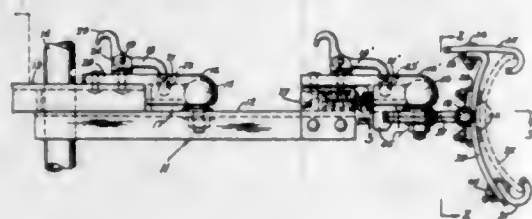


1. A tractor semi-trailer combination of a type in which a fifth wheel is mounted on the tractor, the mounting of the fifth wheel as follows: a carrying plate disposed in horizontal position beneath said fifth wheel, means mounting said fifth wheel on said carrying plate, longitudinally extending track means composed of two transversely spaced apart angle members extending in parallelism longitudinally of and attached to said truck, said angle track members being provided with horizontally extending upper portions, and two angle track follower members disposed adjacent respective ones of said angle track members, said track follower members having portions disposed in a horizontal plane and extending beneath the horizontal portions of said track members, said track follower members having other portions extending vertically upwardly, approximately C-shaped bracing members disposed transversely of said track follower angle members and each extending around and being attached to the underside of the respective track follower angle member and further extending across the top of the respective track follower angle member and downwardly to and being attached to the upper side of said carrying plate.

2,713,501

**COMBINATION TRAILER HITCH AND SWAY ELIMINATOR WITH COUPLER AND HINGED BALL PLATE**

Fred C. Peak, Monterey, Calif.  
 Application November 26, 1954, Serial No. 471,225  
 3 Claims. (Cl. 280-494)

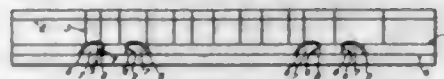


3. In a trailer hitch, a drawbar, means adapted to releasably connect one end portion of said drawbar to a trailer chassis, further means arranged to connect the intermediate portion of the drawbar to the trailer chassis and to prevent horizontal sway of said drawbar relative to the trailer chassis, a clamp member adapted to be secured to a vehicle bumper, a plate member hinged to said clamp member for rotation on a horizontal axis, a hitch ball on said plate member, a ball socket member secured to the opposite end portion of said drawbar and being engageable over said hitch ball, a locking block slidably mounted in said socket member and being lockingly engageable with the edge of said plate member and being arranged to retain said hitch ball in said socket member, spring means biasing said locking block toward said hitch ball and toward said edge of the plate member, and a locking lever pivotally mounted on said opposite end portion of the drawbar and being lockingly engageable with said locking block.

2,713,502

**VISIBLE CARD INDEX WITH CARDS REGISTERED FOR PHOTOGRAPHIC REPRODUCTION**  
 Charles M. Ehnes, Buffalo, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application March 12, 1949, Serial No. 81,124  
 6 Claims. (Cl. 283-1)



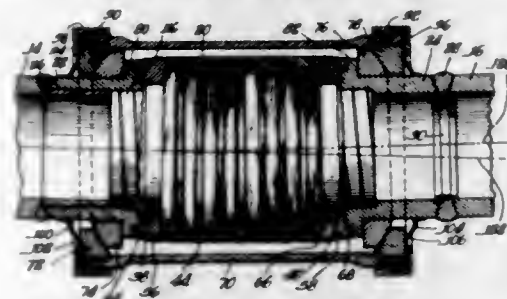
1. The method of printing text matter from a plurality of discrete cards, which consists in applying a gauge means on each card, forming attaching means and indicia position indicating means on each card in predetermined relation to said gauge means, printing laterally disposed indicia on each card according to said indicating means, slidably attaching each card individually on a support, slidably positioning said cards in indexed order in vertically adjacent overlapping relation to conceal said gauge and attaching means by the adjacent overlapped card with the lateral position of each card on the support fixed by said attaching means, said gauge means and position indicating means locating the indicia on the assembled visible portions of the group of cards on said support in accurately aligned and spaced relation, photographing said assembled group of cards to obtain a record of the indexed information without the attaching gauge and position indicating means, and producing a printed sheet containing the complete indexed indicia on the group of cards by photo-offset printing means.

2. In combination, a visible index card, printed vertical lines on said card forming column sections ending at an edge of said card, gauge means on said card having said printed vertical lines fixed in a first selected relation thereto, said card having cut edges fixed in a second selected relation to said gauge means, a visible horizontal line printed on said card for locating the position for printing index matter on said card having a third selected and fixed relation to said gauge means, and attaching lugs formed on said cards in a fourth selected and fixed relation to said gauge means, said first, second, third and fourth selected relations interacting to an extent at which said gauge means visually indicates the relation between said lugs and lines on said card and cooperates with gauge means on corresponding cards to secure registry of column sections and uniform spacing of printed index matter on an assembled group of said cards.

2,713,503

**REINFORCED EXPANSION JOINT**  
 Carl R. Ekholm, Elgin, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois

Application March 8, 1950, Serial No. 148,395  
 6 Claims. (Cl. 285-92)



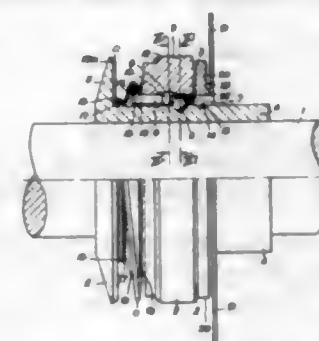
1. An expansion joint for fluid conduits, comprising a pair of relatively shiftable end conduit members axially spaced from each other, an imperforate encasement sleeve overlying the adjacent end portions of the end conduit members and spaced radially outwardly therefrom, a bellows sealing tube interconnecting the adjacent ends of the end conduit members and fixedly secured thereto independently of and within said sleeve,

a pair of ring bearing and sealing members disposed around each end conduit member and having co-mating concavo-convex swivel bearing surfaces therebetween, one bearing member of each pair being carried by the corresponding end conduit member in sealing relationship thereto and the other bearing member of each pair being secured to the adjacent end of said sleeve, and means including flanges on said end conduit members and a pair of coacting clip members associated with each end conduit member and said sleeve for resisting axial separation of the bearing members of each pair, and said sleeve preventing axial separation of the bearing members secured thereto.

2,713,504

**FLUID TIGHT JOINTS**

Edgar Padbury Coleman, Hanwell, London, England  
 Application November 29, 1954, Serial No. 471,621  
 20 Claims. (Cl. 286-11)

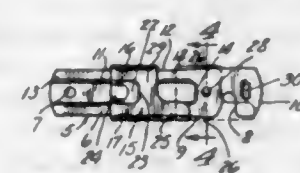


1. A construction of seal for making a fluid-tight joint between two relatively rotating parts, namely a shaft and a casing or the like, comprising a first, fast member and a second, free member, accurately finished surfaces one on each of said members making rubbing contact with one another in a circle around the axis of the shaft, means resiliently urging said surfaces together, means making a fluid tight and fast connection between one of said members and one of said parts, means including a flexible joint making a fluid tight connection between said free member and the other of said parts, and means keying said free member to said other part, said flexible joint and said keying means leaving said free member free to rock and move axially with respect to said other part, said keying means including an elongated key sliding axially in a keyway in one of the two components, namely said free member and said other part, and a radial driver making a universal pivotal connection between said key and the other of said two components.

2,713,505

**LATCH**

Kenneth E. Luger, Minneapolis, Minn.  
 Application November 13, 1952, Serial No. 320,183  
 1 Claim. (Cl. 292-106)



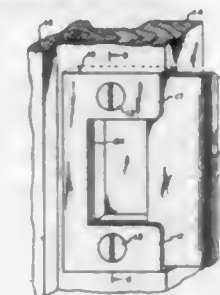
An elongated latch bar having a pivot aperture adjacent one end and a latch-pin receiving notch opening laterally through one of its side edges adjacent its other end, a slide member on said latch bar embracing opposite flat side portions and opposite longitudinal edge portions thereof, said slide having a longitudinally outwardly extended tongue which closes the open end of said notch when the slide is moved to the limit of its movement in the direction of said notch, the longitudinal edges of said latch bar flaring outwardly from the intermediate portion thereof toward the notch whereby to cause a binding ac-

tion therebetween and the slide member as said slide member approaches notch closing position, said latch bar having a longitudinally extended central portion which is bulged inwardly in the direction of a gate to which said latch bar is adapted to be pivotally secured, said inwardly bulged portion extending through the pivotal end thereof and terminating at its opposite end in spaced relation to said notch, said slide having its longitudinal edge portions bent around and over the longitudinal edges of the bar and engaging the inner surface of the bar laterally outwardly of the inwardly bulged portion of the bar, the inwardly bulged portion of the bar serving to space the guide flanges of the slide from a surface to which the latch bar is pivoted, said slide being provided with an inwardly bulged portion which is nestingly received in the inwardly bulged portion of the bar, the adjacent ends of the inwardly bulged portions of the slide and bar serving as a positive stop limiting forward sliding movements of the slide, said bar also having an outwardly bulged pimple-like portion intermediate said elongated inwardly bulged portion and said notch, and at the approximate transverse center of the bar, said pimple-like portion engaging the slide as it approaches its notch-closing position and drawing the inner edges of said slide into still tighter binding engagement with the longitudinal edges of said bar.

2,713,506

**ADJUSTABLE LATCH KEEPER**

Eric A. Wickstrom, Lakeside, Mich.  
 Application August 30, 1951, Serial No. 244,355  
 6 Claims. (Cl. 292-341.18)



3. An adjustable latch keeper comprising a strike plate holder and a strike plate, said strike plate holder including a substantially flat U-shaped plate and flange portions folded rearwardly and then inwardly toward each other from opposite parallel margins of said plate to define confronting U-shaped channels behind said U-shaped plate, each flange having an aperture, said U-shaped plate having a pair of apertures each registering with one of said first apertures, said strike plate including parallel marginal portions snugly slidable in and guided by said channels, said marginal portions having parallel elongated apertures each registering with a pair of apertures in said holder, the central portion of said strike plate having a latch-receiving opening therein said channels retaining said strike plate assembled therewith.

2,713,507

**CONCRETE BUCKET**

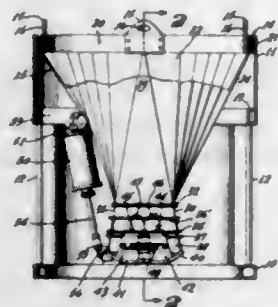
Leslie H. Garlinghouse, Pasadena, Calif., assignor, by mesne assignments, to Garlinghouse Brothers, Los Angeles, Calif., a co-partnership, consisting of Albert F. Garlinghouse, Charles H. Jeffries, Roland N. Armstrong, Leslie H. Garlinghouse, Jr., and Walter F. Dexter

Application October 4, 1948, Serial No. 52,712  
 6 Claims. (Cl. 294-69)

6. A bottom opening bucket device for placing fine aggregate material of a relatively viscous character and high specific gravity under a gravity flow comprising a hopper, including an upper portion having a round upper end, a rectangular concentric lower end of minimum cross-



sectional area and walls joining the round upper end with the rectangular lower end sloping continuously inward throughout the entire height, said walls comprising flat sections adjacent the lower end joined together by warped sections therebetween extending to the upper end, said hopper including a lower portion of lesser height than

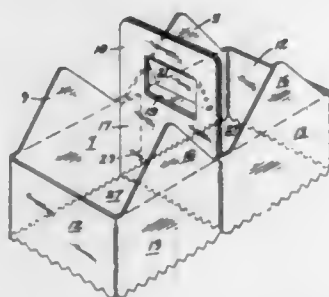


the upper portion, said lower portion being of rectangular cross-section throughout its height and in axial alignment with the upper portion, said lower portion comprising a pair of oppositely disposed end walls pitched laterally outwardly and downwardly and a pair of side walls joining the end walls, said walls forming an open bottom.

2,713,508

## CARTON CARRIER

Carroll D. Austin, San Rafael, Calif., assignor, by mesne assignments, to Edlo, Incorporated, San Francisco, Calif., a corporation of California  
Application June 25, 1951, Serial No. 233,280  
14 Claims. (Cl. 294-87.2)



8. A carrier for a pair of cartons or the like comprising a collar formed of a single strip of paperboard scored to provide hingedly connected panels for embracing said pair of cartons positioned in side by side relationship, portions of said strip being adhesively secured together with a pair of said panels in face to face relationship, said securing of the strip enabling the collar to be set-up from a collapsed position with a carton receiving cell at each side of said pair of panels, said pair of panels being adhesively secured together and projecting above the upper end of said collar to provide a handle portion, and flaps hingedly connected to said collar having edges providing abutments for engaging abutment portions on the cartons to support the cartons.

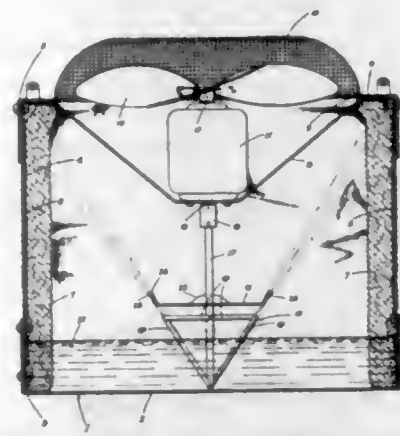
2,713,509

## WATER DISTRIBUTOR FOR PORTABLE AIR COOLERS

John E. Long, Chico, Calif., assignor to Norman R. Watters, Chico, Calif.  
Application February 24, 1953, Serial No. 338,441  
7 Claims. (Cl. 299-62)

1. A water distributor comprising, with a vertical rotary spindle and a water tank having its bottom below the lower end of the spindle, a spinner mounted on the spindle and depending into the water in the tank and arranged to pick up and throw a stream from such water in an upward and outwardly diverging relation to the spindle upon rotation thereof; said spinner comprising a rigid leg fixed with the spindle, said leg being L-shaped

in section and arranged relative to the direction of rotation of the spindle, to form a water-flow channel opening



upwardly and also laterally in the direction of rotation of the spindle.

2,713,510

## ATOMIZERS

Henri Coanda, Paris, France, assignor to Sebac Nouvelle S. A., Lausanne, Switzerland, a corporation of Switzerland  
Application November 14, 1951, Serial No. 256,255  
Claims priority, application France November 18, 1950  
4 Claims. (Cl. 299-86)

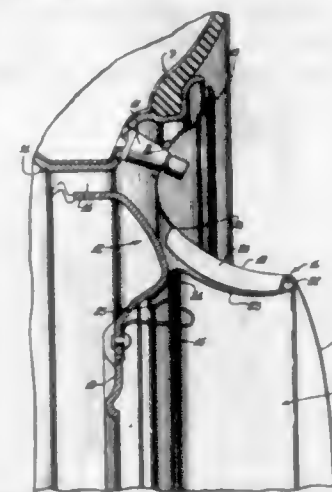


1. In an atomizer, an inner tubular nozzle having a discharge end, means for supplying to said nozzle fluent material to be atomized, means defining an annular chamber surrounding said nozzle, said chamber being substantially heart-shaped in axial section and having a tubular inner wall portion surrounding and spaced from said inner nozzle to define an outer nozzle coaxial with said inner nozzle and having an inlet end and a discharge wall portion converging with said tubular inner wall portion to define a sharp annular edge at the discharge end of said outer nozzle and a substantially conical inner end, said chamber having a substantially conical outer wall portion inclined inwardly toward the inlet end of said outer nozzle and terminating in a lip spaced from said inner nozzle to define an annular passageway open to the atmosphere, the discharge end of said inner nozzle terminating short of the discharge end of said outer nozzle, and means for supplying gas under pressure to said chamber, said chamber having in its inner wall a substantially conical annular slot defined by said lip of said conical inner wall portion and a second lip formed by the inlet end of said outer nozzle, said slot being inclined inwardly and toward the discharge ends of said nozzles, the flow of gas through said slot from said chamber to and through said outer nozzle inducing the inflow of air through said passageway and the inflow of fluent material from said inner nozzle.

2,713,511

## WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application December 5, 1951, Serial No. 259,922  
10 Claims. (Cl. 301-37)

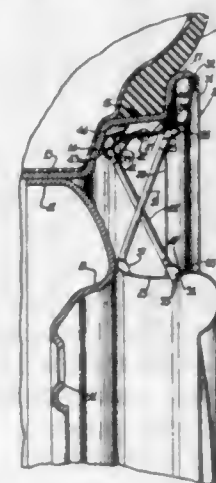


1. As an article of manufacture, a circular wheel cover having an axially outwardly projecting crown part, a radially outer annular part connected to said crown part by a relatively deep portion extending generally axially and merging into said crown part, said deep portion being slotted and formed at said slots into a series of annularly arranged vanes and an inner part inside said crown part and secured to said cover, said inner part including a generally axially extending skirt in close proximity to the slots for directing air picked up by said vanes axially into the body of the wheel.

2,713,512

## WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application October 1, 1952, Serial No. 312,518  
7 Claims. (Cl. 301-37)



1. In a cover for disposition at the outer side of a vehicle wheel, inner and outer cover members having respective opposed radially spaced generally axially extending flange portions, said flange portions having respective spoke elements projecting from the respective extremities thereof and secured to the opposite flange portions substantially spaced from said extremities.

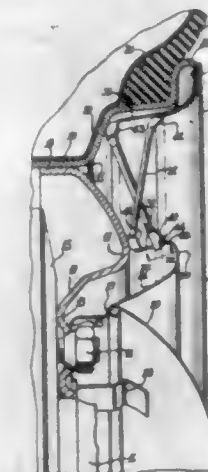
2,713,513

## WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application October 2, 1952, Serial No. 312,796  
8 Claims. (Cl. 301-37)

1. In a wheel structure comprising a disk spider wheel body and a tire rim carried thereby, a cover for the outer side of the wheel comprising a member having a central flange structure attachable to the wheel body, a series of generally radially outwardly angled spokes projecting from said member and having end portions

at juncture with the member bearing against the wheel body, and a cover portion attached to the outer end

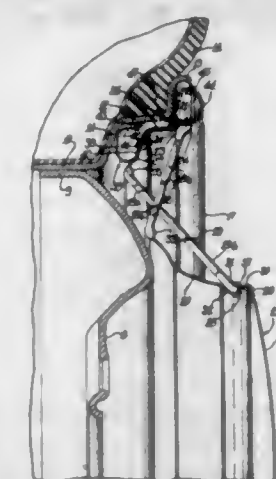


portions of said spokes carrying additional spokes directed inwardly cooperative to the first mentioned spokes and having outer end portions bearing against the tire rim.

2,713,514

## WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application October 4, 1952, Serial No. 313,103  
6 Claims. (Cl. 301-37)



1. In a disk spider wheel including a disk spider body and a tire rim carried by said body, a cover for the outer side of the wheel affording simulation of a wire spoke wheel, said cover comprising a central cover portion for overlying the wheel body and an outer annular cover portion overlying the tire rim, said inner cover portion having a peripheral flange with a plurality of generally radially and axially outwardly extending generally X-shaped spoke structures with their distal end portions connected to said outer cover portion, said outer cover portion having an inner flange with a plurality of generally X-shaped spoke structures projecting generally radially inwardly and axially outwardly and alternating with the spoke structures of said inner cover portion and having their end portions connected to said inner cover portion, the proximal ends of the outer cover portion spoke structures being disposed substantially radially inwardly and axially inwardly relative to the distal end portions of the spoke structures carried by the inner cover portion.

2,713,515

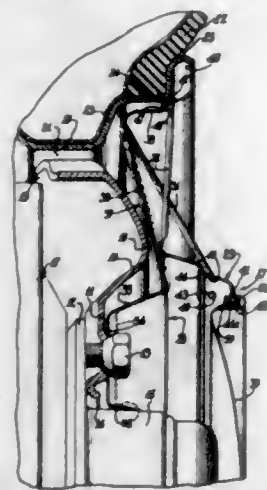
## WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application October 15, 1952, Serial No. 314,903  
4 Claims. (Cl. 301-37)

1. In a wheel structure including a multi-flange tire rim and a wheel body having a central bolt-on flange attached by attachment bolts to a vehicle axle including a hub portion projecting through the bolt-on flange and having a tapering periphery, a cover for disposition at



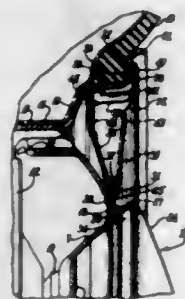
the outer side of the wheel comprising a central bolt-on flange portion having means for engagement by the at-  
thereof connected to the central crown portion of the outer cover member, said flange body portion having



tachment bolts to secure the cover against the wheel and having means engageable with the hub portion under resilient tension for centering the cover on the wheel.

#### 2,713,516 WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application November 10, 1952, Serial No. 319,637  
22 Claims. (Cl. 301-37)

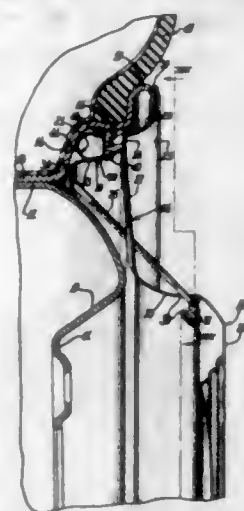


1. In a wheel structure including a tire rim and a wheel body, a cover for the outer side of the wheel comprising a pair of separately formed cover members comprising an axially outer cover member and an axially inner cover member, the outer cover member being supported by the inner cover member, said inner cover member having means engageable with one of the wheel members for attachment of the cover to the wheel, both of said cover members having intermediate axially opposite portions thereof provided with spoke elements with the spoke elements of the inner cover member disposed behind the spoke elements of the outer cover member and visible through openings between the spoke elements of the outer cover member.

#### 2,713,517 WHEEL STRUCTURE AND METHOD OF MAKING SAME

George Albert Lyon, Detroit, Mich.  
Application November 18, 1952, Serial No. 321,095  
14 Claims. (Cl. 301-37)

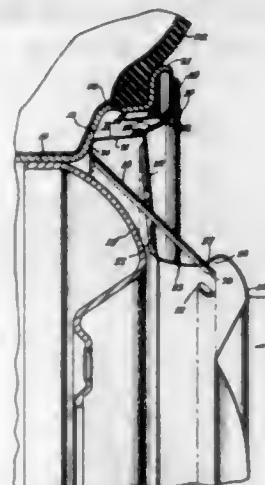
1. In a wheel structure including a wheel body and a tire rim, a cover for disposition at the outer side of the wheel comprising an outer cover plate dimensioned to substantially cover the wheel body and the tire rim and having a central crown portion and an annular outer marginal portion joined by a series of peripherally angled spoke-like elements, an annular cover member interposed behind said marginal cover portion and having a body flange extending generally axially inwardly; said body flange terminating in a series of generally radially inwardly and axially outwardly extending spoke extensions extending in crossing relation through the spoke elements of said outer cover member and having the terminals



thereon a series of retaining spring fingers retainingly engageable with the tire rim.

#### 2,713,518 WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application December 24, 1952, Serial No. 327,783  
9 Claims. (Cl. 301-37)



1. In a wheel structure including a tire rim and a wheel body, the tire rim having a base flange and an intermediate flange, axially outer and inner cover members, the axially outer cover member comprising a radially inner portion and a radially outer marginal portion spaced apart and connected by spoke elements, said outer marginal portion having an underturned flange thereon formed with axially inwardly extending resilient finger extensions having short and stiff generally radially outwardly directed retaining terminals engageable retainingly with the intermediate flange of the tire rim, said axially inner cover member comprising an annulus including a portion thereof engaging the outer marginal portion of the axially outer cover member and having the body thereof extending generally axially inwardly and engageable with said tire rim side flange, a portion of said axially inner cover member engageable with the side flange having a series of spoke extensions therefrom projecting through the openings between the connecting spokes of the axially outer cover member and having their extremities retainingly engaging the radially inner portion of the outer cover member.

#### 2,713,519 WHEEL COVER

George Albert Lyon, Detroit, Mich.  
Application March 11, 1953, Serial No. 341,779  
8 Claims. (Cl. 301-37)

1. In a wheel cover for a vehicle wheel, a ring member including an outer annular portion having a plurality of

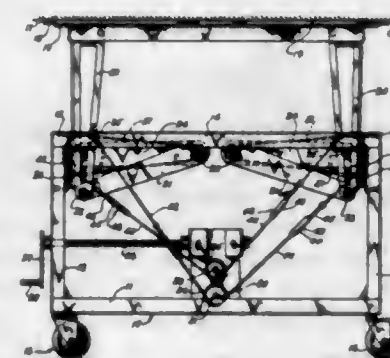
elongated spoke elements extending generally radially inwardly and angled peripherally in one direction of rotation, said spoke elements terminating in an inner marginal flange, a crown member overlying said inner marginal flange and having elongated spoke elements projecting radially outwardly and axially inwardly and angled peripherally in an opposite direction of rotation from said



first mentioned spoke elements, said oppositely angled spoke elements being respectively disposed in generally X-relation with said first mentioned spoke elements, a gravel guard carried by said outer annular portion, said guard having a plurality of apertures for respectively receiving therethrough said second mentioned spoke elements, and said spoke elements being transversely rounded to afford a crossed wire spoke simulating effect.

#### 2,713,520 PLASTER BOARD APPLIER

Fred E. Greene, Coloma, Calif., assignor of one-half to Cora S. Greene, Coloma, Calif.  
Application May 21, 1952, Serial No. 289,037  
5 Claims. (Cl. 304-29)

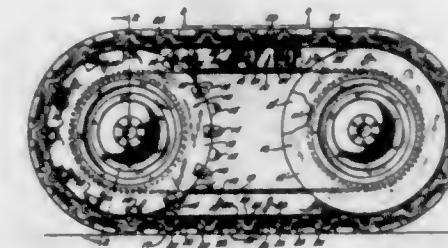


4. A material handling apparatus comprising a housing, a first shaft rotatably mounted on said housing, a pair of spaced links secured at one end to the ends of said first shaft, a tube mounted on said links and extending between the other ends thereof, means for rotating said first shaft in a predetermined direction and magnitude of rotation, a second shaft rotatably supported in said tube, a pair of spaced crank arms secured at one end to the ends of said second shaft, an arcuate-shaped member mounted on said housing, a sleeve secured to said second shaft, and a cable reeved about said sleeve and said arcuate-shaped member whereby the revolution of said sleeve about said arcuate-shaped member effects a shortening of one run of said cable and a lengthening of the other run thereof with respect to said sleeve and whereby said sleeve is rotated by said cable about its own axis in a direction opposed to the direction of revolution of said sleeve about said arcuate-shaped member, said sleeve and said arcuate-shaped member each having a predetermined diameter whereby the other end of each of said pair of crank arms translates in a straight line.

696 O. G.—26

#### 2,713,521 ENDLESS BAND TRACKS FOR TRACK TYPE TRACTORS

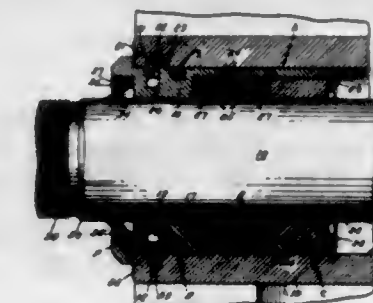
George W. Curtis, Wauwatosa, Wis.  
Application October 27, 1951, Serial No. 253,511  
2 Claims. (Cl. 305-10)



1. An endless track for use in a track laying unit of a type which has spaced wheels comprising: a first endless flexible metal band which is transversely flat throughout its length adapted to coact with said wheels and having inner and outer surfaces, an endless intermediate member of flexible molded material of box-like cross section having transversely straight and parallel inner and outer surfaces throughout its length and having its inner surface fixed to the outer surface of said first metal band, a second endless flexible metal band which is transversely flat throughout its length and of greater length than said first band and having inner and outer surfaces and having its inner surface fixed to the outer surface of said intermediate member, said intermediate member being of a uniform thickness throughout its length and width and of a thickness substantially greater than the combined thicknesses of said metal bands and having uniform strength throughout its length and width to maintain a uniformly wide spacing between said first and second metal bands throughout the length and width of the latter, and endless tread means overlying the outer surface of said second metal band.

#### 2,713,522 CARTRIDGE TYPE PACKING GLAND

Charles Lorenz Petch, Grosse Pointe, Mich.  
Application July 18, 1951, Serial No. 237,471  
1 Claim. (Cl. 308-3)



In a pressure cylinder having a cylinder head and a piston rod adapted to pass therethrough, an integral cartridge packing gland interposed between said cylinder head and said piston rod having an outer surface adapted to be seated in said cylinder head, and inner bearing and packing portions adapted respectively to guide said piston rod and seal against the escape of fluid along the surface thereof, a resilient sealing ring on the outer surface of said gland adapted to sealingly engage said cylinder head, an annular flange at the end of said gland adapted to engage the end of said cylinder head, opposed cooperating grooves in the outer surface of said gland and the adjacent surface of said cylinder head intermediate said sealing ring and said flange, a tapered surface on the side wall of one of said grooves and a tapered snap ring adapted to seat against said tapered surface and force the end of said flange into abutting contact with the end of said cylinder head.



2,713,523

**MAGNETIC SUSPENSION FOR ROTATING STRUCTURES**

Gustav K. Medicus, Dayton, Ohio

Application February 26, 1952, Serial No. 273,531

3 Claims. (Cl. 308—10)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A rotating structure and a magnetic suspension therefor, said suspension comprising: a pair of fixed pot magnets spaced apart in axial alignment and facing in the same direction, each of said magnets having concentric center and annular poles, and one of said magnets having an axial passageway through its center pole; first and second ferromagnetic disc-like elements of substantially the same diameters as said annular poles, said ferromagnetic elements being attached to said rotating structure so as to be perpendicular to and concentric with its axis of rotation and so as to be spaced apart by a distance equal to the separation of said magnets, and the second of said ferromagnetic elements having an axial passageway therethrough; and means for positioning said rotating structure so that said ferromagnetic elements are opposite and close to the pole faces of said magnets and so that said second ferromagnetic element is opposite said magnet having an axial passageway, said means comprising a filament attached at one end to said rotating structure at a point on its axis and near to said first ferromagnetic element, passing through the said passageways in said magnet and second ferromagnetic elements, and attached at its other end to a fixed point on the extended axis of said magnets, the length of said filament being such as to form a small air gap between the faces of said disc-like ferromagnetic elements and the pole faces of said magnets, whereby said disc-like elements are attracted to said magnets and said filament is maintained taut by said attraction.

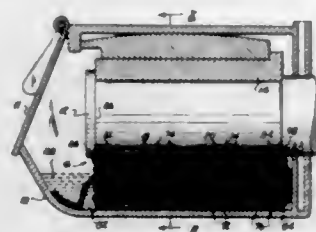
2,713,524

**JOURNAL BOX PACKING UNIT**

John T. Hagy, Pittsburgh, Pa., assignor to Uni-Pak Corporation, New York, N. Y., a corporation of New York

Application May 6, 1954, Serial No. 428,040

13 Claims. (Cl. 308—88)



1. A lubricating device comprising; an oil resistant sponge-like body having edges and a pair of opposed faces, a cloth bag substantially enclosing said body, a plurality of strands of yarn interlacing said body and bag to form exposed layers of yarn on the opposed faces of said body and bag, a pair of substantially parallel buffer members of a larger diameter than said yarn disposed on opposite edges of one of said opposed faces, and a plurality of layers of cloth in capillary communication with one of said buffer members joining said opposed faces of said bag.

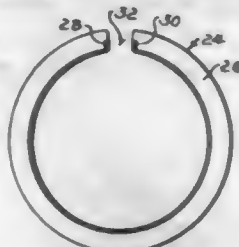
2,713,525

**REEL BUSHING**

Henry J. Hinman, North Anson, Maine

Application April 25, 1952, Serial No. 284,413

3 Claims. (Cl. 308—237)



1. For use in a reel having a head and a bushing seat in said head, a bushing for mounting in said seat for receiving a shaft or spindle for rotatably holding said reel, said bushing comprising a piece of resilient sheet metal turned into generally cylindrical form with its adjacent edges in spaced apart generally parallel relation to permit expansion and contraction thereof, a portion of the periphery of said bushing being formed into a radially outwardly extending gripping flange parallel with the axis of said bushing, said flange being adapted to bite into the adjacent surface of said seat to prevent turning of said bushing in said seat in either direction, and the lateral edges of said bushing being turned radially outwardly for clenching therebetween the adjacent portions of said head.

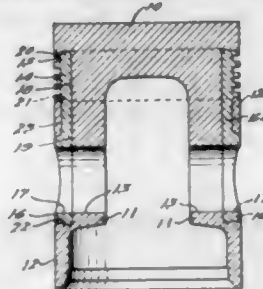
2,713,526

**PISTON**

Fred Zollner, Fort Wayne, Ind.

Application October 31, 1950, Serial No. 193,125

5 Claims. (Cl. 309—14)



1. In a composite piston for an internal combustion engine, a piston body having diametrically opposed pin supporting bosses with aligned pin holes therein, an insert recessed within the outer sidewall of the body and having an upper annular ring carrying portion around the upper part of the body, said insert also having a pair of diametrically opposed extensions depending from the annular insert portion and having holes in their lower ends registering with said pin holes and cooperating therewith to comprise a bore for a piston pin, the outer surfaces of said diametrically opposed extensions intermediate said bore and annular insert portion being recessed inward of the outer sidewall of the body, said outer surfaces being bridged by integral portions of said body completing an unbroken outer sidewall for said body around the circumference thereof intermediate said bore and annular insert portion, and the marginal portions of said insert above and below the annular insert portion and at the lower ends of said extensions entirely around said bore enlarging inward and underlying adjacent outer portions of said body.

2,713,527

**PISTON RING**

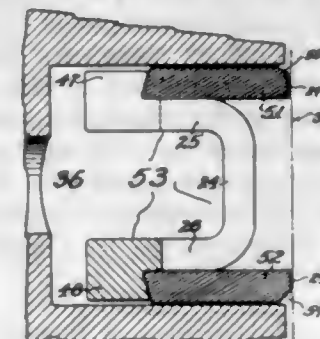
Hsia-Si Pien, Drexel Hill, Pa., assignor to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware

Application November 1, 1951, Serial No. 254,344

3 Claims. (Cl. 309—45)

3. A 3-piece oil-control piston-ring comprising a resilient and circumferentially compressible seal supporter

and expander of generally U-shaped cross-section with the base of the U spaced inwardly slightly from the cylinder diameter and with the legs of the U extending inwardly from the base of the U and having the innermost ends thereof substantially thicker than the main portion of the legs of the U, said thickened leg-terminals of the U forming seal-engaging shoulders extending axially outwardly from the legs of the U and having an undercut radially-outward seal-engaging face, said supporter and expander being slotted through the base and sides of the U, at frequent intervals, with alternate slots extending through opposed thickened terminal leg portions of the U, the outer sides of the legs of the U forming seal-supporting lands, and a pair of flat and gen-



erally continuous seals having chromium-plated outer peripheral edges, each seal having a beveled inner periphery adapted to be received on said undercut seal-engaging face of its seal-supporting land, said seals being disposed on opposite sides of said supporter and expander along said seal-lands thereof, with the undercut seal-engaging shoulders of said thickened terminal leg portions being in operative juxtaposition to and in contact with the inner beveled peripheries of said seals and to draw said seals against the outer surface of the legs of the U, thereby to exert an outward radial force upon said seals when the oil-control ring is compressed to cylinder diameter with the ends of said supporter expander in abutting relation to each other.

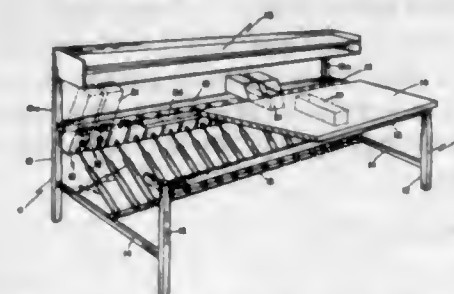
2,713,528

**FILING DEVICE**

Russell L. Harrell, Chappaqua, N. Y., assignor to Wendon Office Equipment Manufacturing Company, Inc., Stamford, Conn., a corporation of Connecticut

Application June 14, 1954, Serial No. 436,464

16 Claims. (Cl. 311—2)



1. A filing device comprising a box-like shoe with one open side, a platform providing a working surface and connection means rotatably connecting said shoe and mounting it relative to the platform so that it may be rotated into generally coplanar relationship with the platform with its open side adjacent the platform.

2,713,529

**COLLAPSIBLE LEG STRUCTURE FOR FOLDING TABLES**

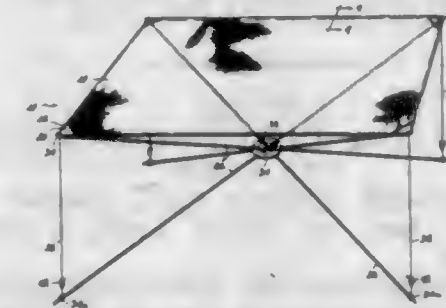
William Herrschaft, New York, N. Y.

Application December 14, 1953, Serial No. 397,898

2 Claims. (Cl. 311—83)

1. In a folding table and the like, a collapsible leg structure comprising pairs of diagonally crossed and substantially coplanar legs each pair having upper and

lower ends in substantial vertical alignment, a ring loosely encircling said legs at their point of crossing and limiting the extent to which the upper and lower ends of the legs in each pair may be drawn together, means provided on said legs above and below said ring and en-



gageable with the latter for preventing the legs from sliding through the ring, means for spacing apart the pairs of legs in the leg structure circumferentially of the ring, and means extending between the upper and lower end portions of the legs in each pair for drawing the same together and in engagement with said ring.

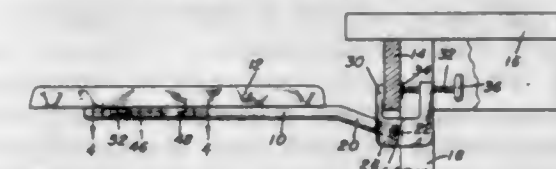
2,713,530

**ATTACHMENT FOR TABLES**

George E. Chisholm, Greeley, Colo.

Application April 20, 1954, Serial No. 424,381

1 Claim. (Cl. 311—103)



A table attachment of the character described comprising: a substantially U-shaped bracket including spaced, parallel legs having longitudinally spaced sockets therein, means for mounting said bracket on a table, a removable tray mounted on the bracket for sliding adjustment toward or away from the table, guide bars depending from the tray slidably accommodating the bracket therebetween, said guide bars having apertures therein for registry with the sockets, springs mounted on the bars, and pins on said springs operable in the apertures and engageable selectively in the sockets for releasably securing the tray in adjusted position on the bracket.

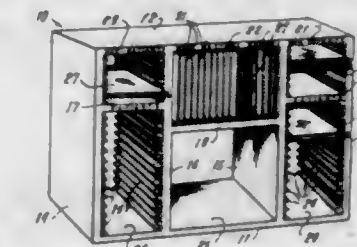
2,713,531

**FILING DEVICES**

Thetford Bolton Boone, Dallas, Tex.

Application June 30, 1952, Serial No. 296,341

5 Claims. (Cl. 312—183)



1. A clip board including, a base plate, a holding plate having its upper end hingedly mounted on the upper end of said base plate, means yieldably biasing said holding plate toward said base plate, a cover having its upper end hingedly secured to the lower end of said holding plate, a finger pull member secured to said base plate and having an elongate finger pull portion disposed above the upper ends of said holding and base plates and extending angularly upwardly and rearwardly, a finger pull member secured to said cover and having an elongate finger pull portion disposed below the lower ends of said



cover and base plate and extending downwardly and rearwardly, and stop means between the lower end of said cover and said base plate for limiting the movement of the lower end of said cover toward said base plate, whereby the rear edge of the finger pull portion on the lower end of the cover is prevented from projecting rearwardly beyond the rear surface of the base plate.

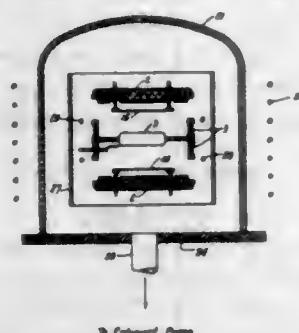
2,713,532

## ELECTRON TUBE AND METHOD OF MAKING THE SAME

Jack A. McCullough, Millbrae, Calif., assignor to Eltel-McCullough, Inc., San Bruno, Calif., a corporation of California

Original application April 30, 1951, Serial No. 223,708. Divided and this application May 16, 1952, Serial No. 288,235

4 Claims. (Cl. 316—19)



1. The method of making an electron tube having an envelope with wall sections adapted to be bonded together at a joint, which comprises the steps of positioning the tube in a vacuum chamber with the wall sections separated an appreciable distance apart to allow free movement of gas from the interior of the envelope to the chamber, evacuating the envelope while the walls are so separated and then bodily displacing the walls to close the envelope and bonding said walls together while the tube is in the vacuum chamber.

2,713,533

## DEVICE FOR RECORDING TIME INTERVALS IN APPARATUS SUPERVISING AND RECORDING THE OPERATION OF MACHINES WHICH PERFORM DIVERSE OPERATIONAL STEPS

Jose Tous Forrellad, Barcelona, Spain

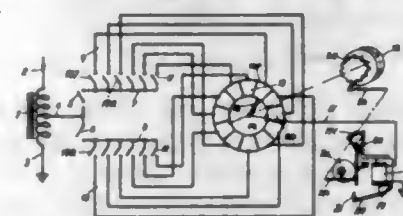
Application January 9, 1951, Serial No. 205,090

Claims priority, application Spain December 11, 1950

13 Claims. (Cl. 346—81)

1. In an apparatus for supervising the operation of devices which perform diverse operational steps; the combination of means for displacing a blank paper strip at a uniform speed, means for printing on said strip time reference marks depending on the performance of a

master clock and including an hour reference marking cylinder, at least one fraction of an hour reference marking cylinder and respective synchronizing means including commutator and brush means for synchronizing the positions of each of said cylinders with the indications of said clock, means for printing on said strip records representative of the diverse operational steps of the supervised device, and an inking ribbon cooperating with both of said printing means; said means for displacing the paper strip including a take-up drum for the recovery of the latter, a driving shaft operatively connected to said drum, and intermediate reacting means for rotating said drum as the strip advances; first mechanical means operatively connected with the hour reference marking cylinder for intermittently rotating the latter by increments each corresponding to an hour, electro-magnetic means cooperating with said first mechanical means for alternatively permitting and preventing operation of the latter depending on the performance of the respective synchronizing commutator and brush means; second mechanical means operatively connected with the fraction of an hour reference marking cylinder for intermittently rotating the latter by increments each corresponding to a predetermined frac-



tion of an hour, electromagnetic means cooperating with said second mechanical means for alternately permitting and preventing operation of the latter depending on the performance of the respective synchronizing commutator and brush means; mechanically operated means for urging the time reference marking cylinders against said paper strip, and related electromagnetic means for alternatively permitting and preventing the operation of said mechanically operated means depending on the indications of the master clock; each of said synchronizing means further including electrical circuits having mercury switches interposed therein and operated by the master clock for timely energizing at least one segment of the corresponding commutator; means for generating primary codes of electrical pulses, detecting means for electrically connecting said pulse generating means to the record printing means and for selecting at least two of said primary codes; electromagnets operatively connected to said detecting means to be energized by the latter; printing hammers mechanically connected to the last mentioned electromagnets to be operated by the latter depending upon the performance of the supervised device as sensed by said detecting means; and electromagnetic means for reversing the feed of said inking ribbon.

## CHEMICAL

2,713,534

## APPARATUS FOR FERTILIZER MANUFACTURE

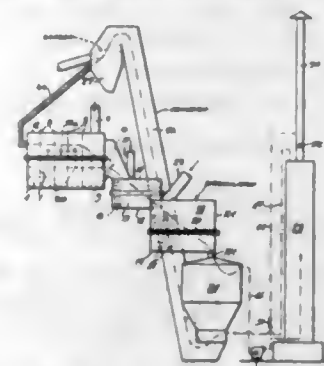
Antime Constant, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Crey, Paris, France

Original application May 14, 1947, Serial No. 748,010, now Patent No. 2,635,955, dated April 21, 1953. Divided and this application March 29, 1949, Serial No. 84,030

13 Claims. (Cl. 23—259.3)

1. Fertilizer manufacturing apparatus constructed and arranged for the reaction of phosphate rock, mineral acid, and the reaction product thereof, including an enclosed vat having an enclosed annular channel, means to admit rock and acid thereto, impeller means to circulate the

mixture of rock, acid, and product through the channel,



a second mixing vat having an enclosed channel connected to said first vat, conduit means associated with the

second vat to mingle finely divided phosphate with the material from said first vat, impeller means to move the mixture through said channel, an enclosed outlet connecting said second vat with an enclosed granulating chamber, means to admit finely divided fertilizer to the material in the granulating chamber issuing from the second vat, agitator means to toss the mixture against the walls of the chamber, an enclosed outlet from said chamber, and means to flow air through said apparatus comprising a sulfuric acid air drier operatively connected on the dry air side to the first vat and on the moist air side to the granulating chamber.

2,713,535

## HERBICIDAL COMPOSITIONS

Tracy M. Patrick, Jr., Melrose, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 6, 1953,

Serial No. 390,735

3 Claims. (Cl. 71—2.7)

1. A herbicidal composition comprising an oil-in-water emulsion of hexachlorobutadiene, said hexachlorobutadiene being present in the emulsion in a quantity which is toxic to plant life.

2,713,536

## PRODUCTION OF NITROGEN-PHOSPHORUS COMPOUNDS

John C. Driskell, Sheffield, Ala., assignor to Tennessee Valley Authority, a corporation of the United States

Application January 7, 1955, Serial No. 480,625

6 Claims. (Cl. 71—49)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. The process which comprises the steps of drying air to a moisture content of less than 0.00008 pound water per pound dry air; oxidizing elemental phosphorus with the dry air; cooling the products of combustion to a temperature of 450° to 950° F.; reacting the phosphorus pentoxide vapor in the cooled combustion products with anhydrous ammonia; and collecting the solid, finely divided product of said reaction.

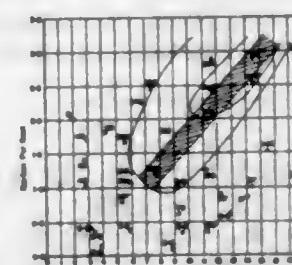
2,713,537

## COBALT BASE ALLOY

Geoffrey Thomas Harris and Henry Cave Child, Sheffield, England, assignors to William Jessop & Sons Limited, Sheffield, England, a British company

Application October 31, 1950, Serial No. 193,238

1 Claim. (Cl. 75—171)



Metal alloys having high creep strength and consisting of carbon above 1% to 2.96%, silicon .35 to 1.07%, manganese .54 to 1.06%, nickel 7.8 to 12%, cobalt 35 to 57%, chromium 17.6 to 19%, boron 0 to 0.5%, and carbide-forming elements consisting of molybdenum

2.9 to 5.4%, vanadium 2.4 to 8.2% and niobium 1.9 to 4.8%, and the remainder iron with unavoidable impurities, the total percentage of elements in the carbide-forming group being between 6.7 and 16%; the proportion of the carbide-forming elements to carbon falling approximately within the shaded area on the drawing, that is, being substantially as follows: with carbon between 1 and 1.5% about 6.7 to 10% carbide formers; with carbon between 1.5 and 2% about 8 to 12% carbide formers; with carbon between 2 to 2.5% about 10 to 14% carbide formers; with carbon 2.5 to 3% about 12 to 16% carbide formers.

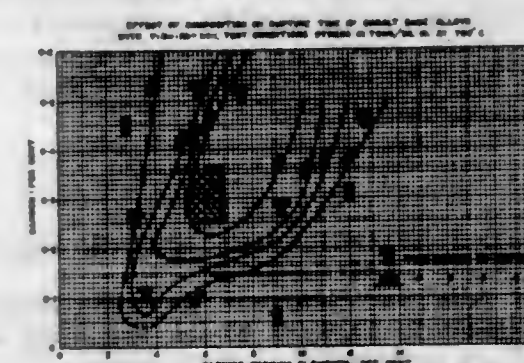
2,713,538

## NICKEL COBALT CHROMIUM ALLOY

Geoffrey Thomas Harris and Henry Cave Child, Sheffield, England, assignors to William Jessop & Sons Limited, Sheffield, England, a British company

Application January 24, 1951, Serial No. 207,551

2 Claims. (Cl. 75—171)



2. Alloys consisting of the following elements: carbon not exceeding about 0.35%; small amounts of silicon and manganese within about the ranges silicon 0.2 to 0.6% and manganese 0.6 to 1.0%; nickel 10 to 15%; chromium 18 to 20%; and the following three carbide-forming elements, namely, molybdenum, niobium and vanadium; cobalt 42 to 46%; and the remainder iron with unavoidable impurities: the combined percentages of the said carbide-forming elements being between about 5.4% and 7.5%; the individual percentages of the said carbide-forming elements being molybdenum between about 1.8 and 2.3%; vanadium between about 2.6 and 3.1%; and niobium between about 1.0 and 1.4%; the carbon content and the corresponding total content of the carbide-forming constituents falling within the shaded area of Figure 1 of the accompanying drawings.

2,713,539

## MANUFACTURE OF HIGH WET STRENGTH PAPER

William F. Fowler, Jr., Donald R. Spear, and Lee K. Tong, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 14, 1951,

Serial No. 210,986

8 Claims. (Cl. 92—3)

1. A high wet strength paper containing therein, based on the dry weight of the pulp employed in its preparation, the following in the proportions given:

	Per Cent
A sizing aid selected from the group consisting of gelatin, water soluble salt of pimic acid-maleic anhydride adduct, the water soluble salt of abietic acid, and the water soluble salt of hydrogenated abietic acid.....	0.15—1.5
Polyalkyl acrylate, the alkyl being of not more than two carbon atoms.....	.75—15
Wax.....	.75—7.5
Aluminum salt selected from the group consisting of aluminum sulfate and aluminum chloride.....	1—10



# 2,713,540 PRODUCTION OF GROUNDWOOD PULP FROM HARDWOOD

Clarence E. Libby, Syracuse, and Frederic W. O'Neill, De Witt, N. Y., assignors to The New York State College of Forestry, Syracuse, N. Y.

No Drawing. Application January 5, 1950,

Serial No. 137,035

9 Claims. (Cl. 92-6)

1. The method of producing groundwood pulp from hardwood, which comprises confining in a digester hardwood blocks not substantially shorter than two feet nor longer than a small multiple of that length, evacuating air therefrom, filling the digester without breaking the vacuum with a chemical digesting liquor adapted to soften the binding material between the wood fibers without substantial removal of said binding material, heating the liquor and blocks to a digestion temperature substantially above the boiling point of the liquor at a pressure of one atmosphere, subjecting the liquor and blocks in the digester to an hydraulic pressure such that the total pressure is greatly in excess of the steam pressure corresponding to said digestion temperature while maintaining said digestion temperature, relieving the pressure in the digester, removing the blocks therefrom, and subjecting the blocks to a grinding operation.

# 2,713,541 STABILIZED PHOTOGRAPHIC SILVER HALIDE EMULSIONS

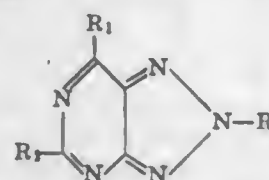
Charles F. H. Allen and George A. Reynolds, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 1, 1953,

Serial No. 365,542

6 Claims. (Cl. 95-7)

1. A photographic silver halide emulsion containing a compound selected from those represented by the following general formula:



wherein R represents an aromatic group of the benzene series, R<sub>1</sub> represents a member selected from the group consisting of a hydroxyl group and an amino group, and R<sub>2</sub> represents a member selected from the group consisting of a mercapto group and an amino group.

# 2,713,542 PROCESS FOR TREATING CEREAL PRODUCTS AND PRODUCTS OBTAINED THEREFROM

Umberto Bellini D'Atri, Van Horn, Tex.

No Drawing. Application July 25, 1951,

Serial No. 238,586

12 Claims. (Cl. 99-80)

1. The process of treating rough rice, comprising treating the rough rice with a basic solution to produce a penetration of the basic solution into the inner cells of the rice kernel, treating the resultant product with an acidic solution, removing the product from the acidic solution, hulling the rough rice to produce brown rice, subjecting the brown rice to a first break, and thereafter treating the product from the first break with an oxidizing solution.

# 2,713,543 BEVERAGE PACKAGE

Leo Peters, Evanston, Ill.

Application October 10, 1951, Serial No. 250,708

3 Claims. (Cl. 99-171)

1. A beverage package, comprising a generally spherical container having collapsible walls, the walls of said con-

tainer being flexible but non-elastic and being light-tight and gas-retaining, a sealed outlet tube connected to said container adapted to be opened and to communicate with the interior of said container, a beverage liquid within



said container and partially filling the same, and a gas maintained under pressure within said container and pressing against the walls of said container to prevent them from collapsing until the gas pressure within said container is released.

# 2,713,544 SOFT PLASTIC FOOD PACKAGE

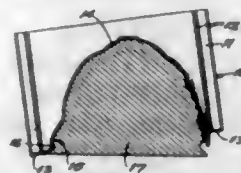
Leo Peters, Evanston, Ill.

Application March 26, 1952, Serial No. 278,576

The portion of the term of the patent subsequent to

March 17, 1970, has been disclaimed

1 Claim. (Cl. 99-171)



A soft plastic food package, comprising a perimetric support, a thin, flexible but non-elastic plastic film attached to the upper portion of said support and extending downwardly within said support to provide a mold cavity therein for molding a soft plastic food body, the film portions providing the side walls of said cavity tapering from the top of said cavity in a generally downwardly and inwardly direction, said side walls having sharply undercut shoulders spaced from the top of said cavity, the uppermost of said undercut shoulders being spaced below the top of said cavity by at least the depth of the undercut, and a soft plastic food body within said cavity and molded thereby to form undercut shoulders engaging the undercut shoulders of said side walls.

# 2,713,545 WATER-BASE PAINTS AND PROCESS OF MAKING

William S. Kather, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application May 27, 1952,

Serial No. 290,314

8 Claims. (Cl. 106-148)

1. A composition of matter comprising (1) a water-base paint selected from the class consisting of water-base casein paints, water-base rubber paints, and water-base oil-modified alkyd resin paints, and (2) from 0.1 to 7 per cent, by weight, based on the weight of the solids content of the aforesaid water-base paint, of a water-soluble alkali-metal salt of a hydrocarbon-substituted silane triol.

# 2,713,546 STABILIZED LOWER FATTY ACID ESTER OF CELLULOSE

Robert F. Williams, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 25, 1952,

Serial No. 268,337

10 Claims. (Cl. 106-176)

1. A lower fatty acid ester of cellulose the combined sulfur content of which has been neutralized with a neu-

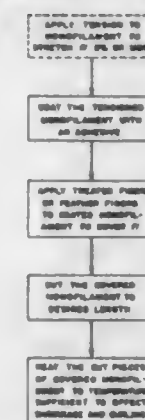
tralizing salt selected from the group consisting of the formates, acetates, lactates and citrates of magnesium, calcium, barium and aluminum and the alkali metal salts of weak organic acids to which ester has been added a monohydroxy, monocyclic, substituted phenol, the substituents of which are radicals selected from the group consisting of methoxy and aliphatic hydrocarbon radicals of 1-4 carbon atoms which phenol inhibits the tendency of the metallic cation of the neutralizing salt to catalyze the formation of carboxylic acid groups in the cellulose ester at an elevated temperature.

# 2,713,547 SIMULATED DOWN FILLER AND METHOD OF MAKING THE SAME

Edward R. Frederick, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army

Application August 8, 1952, Serial No. 303,327

13 Claims. (Cl. 117-4)



2. A method of making simulated down fillers which comprises stretching a heat-shrinkable resinous monofilament at least 5%, applying an adhesive coating to the monofilament, applying a land fowl feather product of substantial bulk to the coated monofilament to substantially completely cover the same with the feather product adhesively bonded firmly thereto and sticking out therefrom in all directions, cutting the covered monofilament to the desired length, and heat-shrinking the cut lengths of covered monofilament at least 30% while maintaining the feather product covering unimpaired.

# 2,713,548 METHOD OF MAKING A PROTECTIVE GLOVE

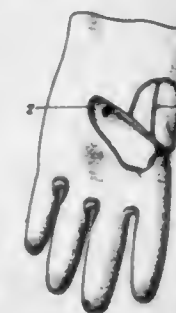
Geoffrey Kent White, Disley, and Harold White, Hyde, England

Application February 4, 1952, Serial No. 269,876

Claims priority, application Great Britain

February 26, 1951

2 Claims. (Cl. 117-94)



1. A method of making a protective glove or the like which comprises forming a glove body of absorptive fabric and having a longitudinal seam only on the side opposite the palm, quickly dipping the entire body into a solution of a polyvinyl chloride resin so as to wet the entire body practically simultaneously, holding said body in said solution only for the time necessary to impregnate

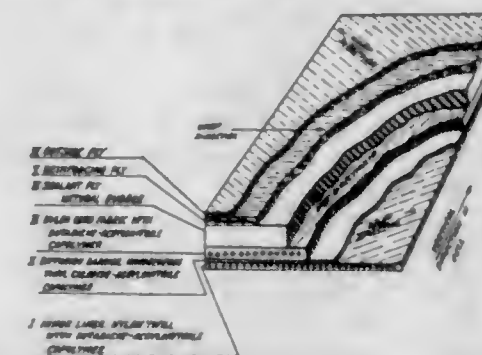
the outer surface, withdrawing said body and holding it in a vertical position for a number of minutes to drain off excess solution with the thumb down, then inverting said body for less than one minute to allow solution on the finger tips to run back, and immediately thereafter subjecting said body to the sudden application of a temperature of 350°-450° F. to cure said body.

# 2,713,549 FUEL CELL DIFFUSION BARRIER

Robert J. Reid, Canal Fulton, and Chris E. Best, Franklin Township, Summit County, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application April 20, 1950, Serial No. 157,061

2 Claims. (Cl. 154-43.5)



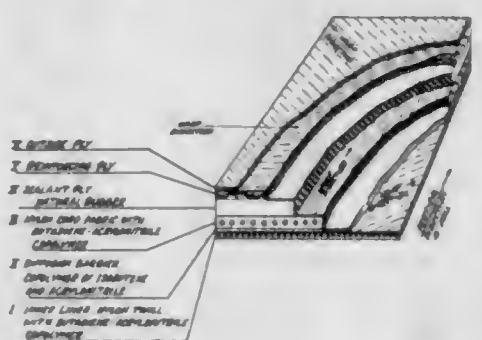
1. A non-metallic fuel cell comprising an innermost lamina of a butadiene-acrylonitrile elastomeric copolymer composition, in contact with the fuel therein, a sealant lamina of an elastomeric composition swellable by the fuel and disposed exteriorly of said innermost lamina, and a diffusion barrier membrane interposed between said innermost lamina and said sealant lamina and comprising a copolymer of vinyl chloride and acrylonitrile containing from 30% to 80% by weight of vinyl chloride, the balance being acrylonitrile, said copolymer being homogeneous in that a maximum of 5% of the fractions thereof have compositions outside the range of from 30% to 80% by weight of vinyl chloride, the balance being acrylonitrile.

# 2,713,550 FUEL CELL DIFFUSION BARRIER

Robert J. Reid, Canal Fulton, and Chris E. Best, Franklin Township, Summit County, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application April 20, 1950, Serial No. 157,062

2 Claims. (Cl. 154-43.5)



1. A non-metallic fuel cell comprising an innermost lamina of a butadiene-acrylonitrile elastomeric copolymer composition in contact with the fuel therein, a sealant lamina of an elastomeric composition swellable by the fuel and disposed exteriorly of said innermost lamina, and a diffusion barrier membrane interposed between said innermost lamina and said sealant lamina comprising a copolymer of isobutene and acrylonitrile containing from 10% to 40% by weight of isobutene, the balance being acrylonitrile.

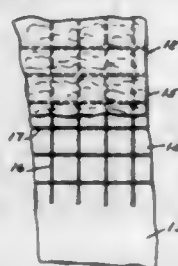


2,713,551

**REINFORCED COVERING FOR PIPES**

Ted Kennedy, Ann Arbor, Mich., assignor to The Trenton Corporation, Ann Arbor, Mich., a corporation of Michigan

Application November 19, 1951, Serial No. 257,096  
3 Claims. (Cl. 154-52)



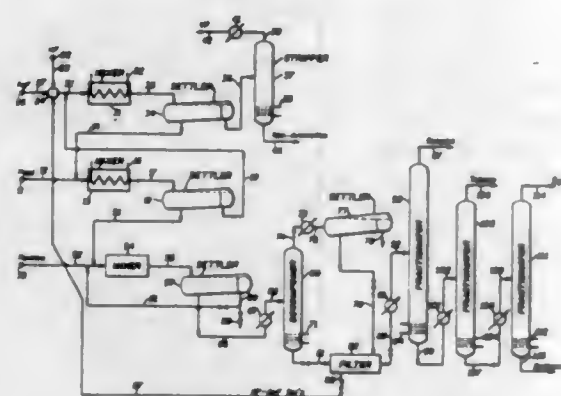
1. A reinforced covering for pipes comprising a flexible laminated strip adapted to be wrapped around a length of pipe, said strip having a first lamination constituting an exposed side of said strip and comprising a tough, flexible polyethylene film, a second lamination comprising flexible glass fibers of high tensile strength arranged in spaced strands and fused directly to the first lamination to reinforce the latter and thereby enable the strip to be wrapped tightly around a length of pipe, and a third lamination of asbestos felt constituting the opposite exposed side of said strip and applied over the second lamination in surface to surface relation thereto, said third lamination being heat-sealed directly to said first lamination at the spaces between the glass fiber strands of the second lamination and being effective to protect the length of pipe from mechanical injury due to soil stress and the like, said asbestos felt being impregnated with an emulsified wax to waterproof the same.

2,713,552

**EXTRACTION OF AROMATICS FROM NAPHTHAS**

Arthur P. Lien, Highland, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application October 17, 1951, Serial No. 251,692  
5 Claims. (Cl. 196-13)



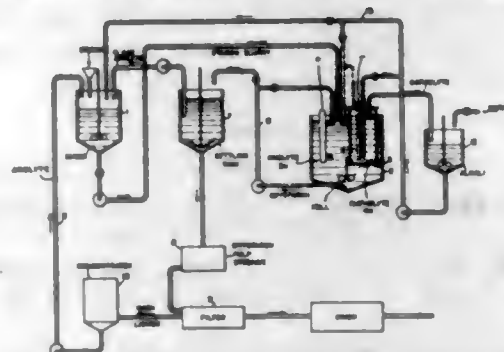
1. An extraction process which comprises (1) contacting a liquid feed consisting of aromatic hydrocarbons and non-aromatic hydrocarbons boiling in the naphtha range and substantially no olefins, organic-sulfur compounds and phenolic compounds, under substantially anhydrous conditions, at a temperature between about 0° F. and 160° F., with a liquid agent consisting of between 0.8 and 1.5 mols of silver fluoride per mol of aromatic hydrocarbon in said feed and at least 200 volume per cent, based on aromatic hydrocarbons in said feed, of substantially anhydrous liquid hydrogen fluoride, (2) separating a raffinate phase from an extract phase and (3) removing HF and AgF from said extract phase to recover an extract consisting of at least 98 volume per cent of aromatic hydrocarbons.

2,713,553

**ELECTROCHEMICAL PRODUCTION OF PERIODATE OXYPOLYSACCHARIDES**

Charles L. Mehlretter, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

Application July 23, 1954, Serial No. 445,489  
3 Claims. (Cl. 204-79)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



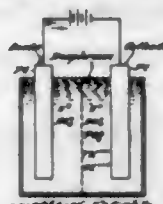
1. Method for the preparation of oxypolysaccharides comprising subjecting a polysaccharide material to the effect of substantially catalytic amounts of periodic acid in the presence of a cathode and a lead dioxide anode at a temperature of about from 5° C. to 50° C., passing electric current through the system, said periodic acid being continuously transformed to iodic acid by chemical reaction with the polysaccharide material and said iodic acid being continuously regenerated to periodic acid at the anode, and continuing said electric current until substantial amounts of the polysaccharide are oxidized, said cathode being immersed in an alkaline catholyte confined in a catholyte compartment and said anode being immersed in an anolyte, and counteracting the acidity which tends to build up in said anolyte by recycling to said anolyte a portion of withdrawn and diluted catholyte.

2,713,554

**ELECTROLYTIC METHOD OF RECOVERING THORIUM FROM MONAZITE SAND**

Edgar C. Pitzer, Schenectady, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application January 6, 1949, Serial No. 69,563  
6 Claims. (Cl. 204-90)



1. The process of separating thorium from a rare earth, which comprises electrolyzing an aqueous acidic solution containing essentially thorium ions, rare earth ions, and phosphate ions, to a pH of not greater than 0.5 whereby the thorium is precipitated as a thorium phosphate leaving the rare earth ions in solution, and separating the thorium phosphate thus formed from the solution.

2,713,555

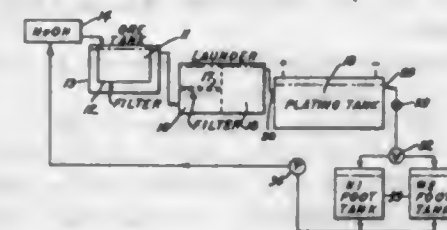
**ELECTROLYTIC REFINING OF ANTIMONY**

John F. Neely, San Francisco, Calif.

Application May 22, 1951, Serial No. 227,687  
1 Claim. (Cl. 204-105)

A method of refining antimony for stibnite comprising, dissolving out the metal in said stibnite with sodium hydroxide solvent; filtering out undissolved ore and dross; laundering the filtered pregnant solution; and depositing out said antimony by continuously flowing said pregnant solution as an electrolyte in a continuous, circuitous path through a plurality of adjacent cells continuously

communicating one with the other through restricted apertures, said cells being defined by removable, parallel iron plates, and passing an electric current through each



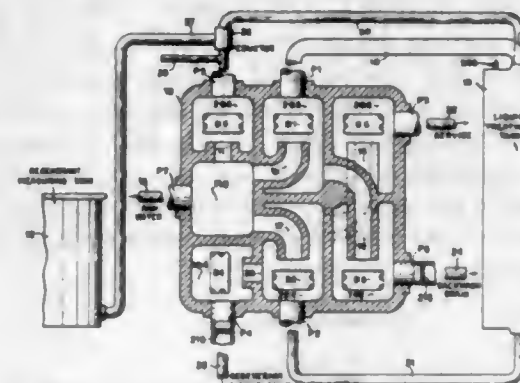
of said cells, by making the end plate through which said solution enters an anode and the opposite end plate a cathode, said electrolysis being conducted at atmospheric pressure.

2,713,556

**LIQUID FLOW CONTROL APPARATUS**

John G. Williams, Philadelphia, Pa., assignor to Cochrane Corporation, a corporation of Pennsylvania

Application September 17, 1949, Serial No. 116,264  
15 Claims. (Cl. 210-24)



1. A liquid handling apparatus comprising a liquid treatment tank having an inlet and an outlet, a regenerant tank, an eductor, drain means, a multiport liquid flow control assembly, a liquid supply line connected to said flow control assembly, a liquid service line connected to a first port of said flow control assembly, a liquid flow connection between a second port of said flow control assembly and the treatment tank inlet, a liquid flow connection between a third port of said flow control assembly and said eductor, a liquid flow connection between said eductor and the treatment tank, a liquid flow connection between said regenerant tank and said eductor, a liquid flow connection between a fourth port of said flow control assembly and the treatment tank outlet, a liquid flow connection between a fourth port of said flow control assembly and said drain means, port interconnecting passages within said flow control assembly, and means controlling said flow control assembly to selectively direct a flow of liquid from said supply line through said flow control assembly and said second mentioned port thereof to said treatment tank and from said treatment tank through said flow control assembly and said fourth and first mentioned ports thereof to said service line, and to shutoff flow through all of said flow control assembly ports except the second mentioned port thereof connected to the treatment tank inlet.

2,713,557

**BASIC PHENATES TO INHIBIT SILVER CORROSION IN THIOPHOSPHATE-CONTAINING LUBRICATING OILS**

Warren Lowe, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 6, 1951,

Serial No. 260,340

13 Claims. (Cl. 252-32.7)

1. A lubricating oil composition comprising a major proportion of an oil of lubricating viscosity having incor-

porated therein a small amount, sufficient to inhibit oxidation, of a metal salt of a mixed diester of dithiophosphoric acid, wherein one ester group is an alkyl radical having from 1 to 4 carbon atoms, and another ester group is an alkyl radical having from 6 to 18 carbon atoms, and said metal being selected from the group of zinc and calcium, and, in addition, a small amount, sufficient to inhibit the corrosion to silver caused by said metal salt of dithiophosphoric acid, of a "basic" sulfurized metal salt of an alkyl phenol having a metal selected from the group consisting of calcium and barium, wherein the metal of said phenol is present in an amount at least 10% in excess of that required to form a neutral phenate.

2,713,558

**LUBRICATING COMPOSITIONS**

Howard E. Schmitz, Alton, Ill., assignor to Shell Development Company, New York, N. Y., a corporation of Delaware

No Drawing. Application May 24, 1954,

Serial No. 432,027

9 Claims. (Cl. 252-33.6)

1. A lubricating composition comprising a major amount of a mineral lubricating oil and from about 0.1% to about 10% of an oil soluble divalent selenium dihydrocarbyl dithiocarbamate.

2,713,559

**PROCESS FOR BREAKING PETROLEUM EMULSIONS**

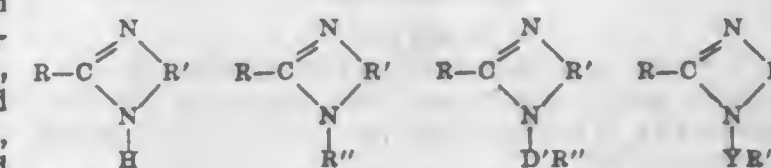
Alvin Howard Smith, Kirkwood, Mo., assignor to Petroleum Corporation, a corporation of Delaware

No Drawing. Application April 10, 1952,

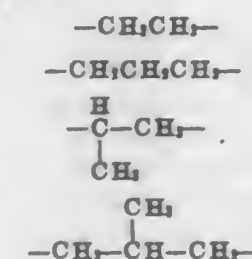
Serial No. 281,645

14 Claims. (Cl. 252-341)

1. A process for breaking petroleum emulsions of the water-in-oil type characterized by subjecting the emulsion to the action of a demulsifier including hydrophile synthetic products; said hydrophile synthetic products being obtained by reaction between (A) a polycarboxy acid, and (B) a highly oxypropylated substituted ring compound selected from the group consisting of



in which R' is a divalent alkylene radical selected from the class consisting of



and in which D' represents a divalent, non-amino, organic radical containing less than 25 carbon atoms, composed of elements from the group consisting of C, H, O, and N; Y represents a divalent, organic radical containing less than 25 carbon atoms, composed of elements from the group consisting of C, H, O, and N, and containing at least one amino group; R is a member of the class consisting of hydrogen, aliphatic hydrocarbon radicals, hydroxylated aliphatic hydrocarbon radicals, cycloaliphatic hydrocarbon radicals, and hydroxylated cycloaliphatic hydrocarbon radicals; R'' is a member of the class consisting of hydrogen, aliphatic radicals and cycloaliphatic



radicals, with the proviso that in the occurrence of the radicals R and R' there be present at least one group of 8 to 32 uninterrupted carbon atoms; and with the further proviso that (1) there be introduced at least 12 moles of propylene oxide per substituted nitrogen-containing ring compound, and that (2) there be employed at least one mole of the polycarboxy reactant for each reactive hydroxyl radical.

**2,713,560**  
**CATALYST AND METHODS OF MAKING SAME**  
Jacque C. Morrell, Chevy Chase, Md.  
No Drawing. Application March 26, 1951,  
Serial No. 217,667  
6 Claims. (Cl. 252-435)

1. A composition of matter consisting essentially of a dried mixture of a phosphoric acid and at least two individual mineral components comprising an amount of kaolin of substantially not less than about 25% of the dried mixture and an amount of more than 1% and less than 10%, based upon the weight of the said kaolin, of another substantially water insoluble mineral component selected from the group consisting of the oxides of calcium, magnesium and zinc, the carbonates of calcium and magnesium and the sulphate of calcium.

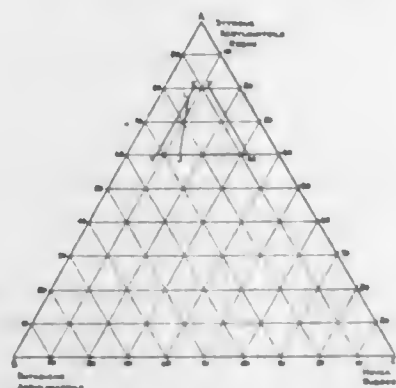
**2,713,561**  
**RECLAIMING NATURAL AND SYNTHETIC RUBBER WITH BIS(TETRAALKYLPHENOL) SULFIDES**

Wendell S. Cook, Houghton, Mich., and George E. P. Smith, Jr., Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Original application June 29, 1949, Serial No. 102,154, now Patent No. 2,605,288, dated July 29, 1952. Divided and this application August 2, 1951, Serial No. 245,432

2 Claims. (Cl. 260-2.3)  
1. A process of reclaiming a vulcanized rubbery copolymer of styrene and 1,3-butadiene which comprises heating the vulcanized copolymer at a temperature in the range of 150° F. to 550° F. in the presence of bis (2,3,5,6-tetramethylphenol) sulfide.

**2,713,562**  
**TERNARY POLYMER COMPOSITIONS**  
Robert J. Reid, Canal Fulton, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
Application March 18, 1953, Serial No. 343,227  
2 Claims. (Cl. 260-4)



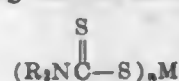
1. A hard, tough, homogeneous mixture of (A) 60-80% of a styrene-acrylonitrile copolymer containing 55-80% of styrene, (B) 8-32% of a butadiene-acrylonitrile copolymer containing 55-85% of butadiene, (C) 8-32% of hevea natural rubber; the aforesaid percentages of (A), (B) and (C) being based on the total of their weights in the mixture.

**2,713,563**  
**FILLED PLASTISOL COMPOSITIONS AND METHOD OF MAKING SAME**  
Leroy B. Kuhn, Douglassville, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
No Drawing. Application March 31, 1953,  
Serial No. 346,029  
12 Claims. (Cl. 260-31.8)

1. Process of producing a granular filled vinyl chloride resin product adapted for plastisol uses, said process comprising (I) polymerizing in aqueous emulsion a monomeric substance selected from the group consisting of vinyl chloride and mixtures thereof with other ethylenically unsaturated compounds copolymerizable therewith, to yield a resin containing at least 80% of vinyl chloride polymerized therein, said polymerization being carried out (A) in the presence of .03-.08% of emulsifying agents, based on the total weight of the polymerization charge up to the time at which 15% of the monomeric substance has become polymerized and (I-B) thereafter continuing the polymerization, (II) discontinuing the polymerization at the desired stage of conversion and adding an insoluble inorganic filler material having particle sizes in the range 0.5-10.0 microns, sufficient emulsifying agents having been added during the continued polymerization step (I-B) and before the addition of said filler to prevent coagulation of the latex during the continued polymerization step (I-B) and to completely saturate the adsorptive capacity of the resin particles in the latex before the addition of the filler and (III) spray-drying the latex and filler at temperatures such as to fuse the resin particles.

**2,713,564**  
**SILICONE RUBBER OF IMPROVED COMPRESSION SET CONTAINING A METALLIC DIALKYL DITHIOCARBAMATE**  
Charles W. Pfeifer, Troy, and Richard M. Savage, Colonie, N. Y., assignors to General Electric Company, a corporation of New York  
No Drawing. Application May 11, 1953,  
Serial No. 354,391  
22 Claims. (Cl. 260-37)

1. A composition of matter comprising (1) an organopolysiloxane convertible to the cured, solid, elastic state, and (2) from 0.05 to 2 percent, by weight, based on the weight of the organopolysiloxane, of a metallic dialkyl dithiocarbamate having the formula



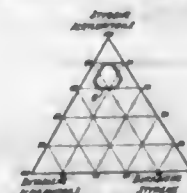
where R is an alkyl radical, M is a metal selected from the class consisting of sodium, zinc, lead, tellurium, selenium, copper and bismuth, and n is an integer equal to from 1 to 4 depending on the valence of the metal ion M, the organic groups of the aforesaid organopolysiloxane being hydrocarbon groups attached directly to silicon by carbon-silicon linkages.

**2,713,565**  
**COMPOSITION CONTAINING GLYCIDYL POLYETHER OF A POLYHYDRIC PHENOL, A METHYLOL SUBSTITUTED 2-ALKENYLOXYBENZENE, AND A POLYVINYL ACETAL**  
Harry W. Howard, South Orange, Clifford V. Wittenwyler, Fanwood, and Otho L. Nikles, Jr., Metuchen, N. J., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware  
No Drawing. Original application April 14, 1952, Serial No. 282,274. Divided and this application May 24, 1954, Serial No. 432,028  
8 Claims. (Cl. 260-43)

1. A composition comprising a mixture of (1) glycidyl polyether of a polyhydric phenol having a 1,2-epoxy equivalency greater than 1.0, (2) a 2-alkenyloxybenzene

containing 1 to 3 methylol groups linked singly at the 2, 4 and 6 positions on the benzene ring, and (3) about 0.2 to 3% of a polyvinyl acetal resin.

**2,713,566**  
**TERNARY POLYMER COMPOSITION**  
Robert J. Reid, Canal Fulton, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
Application February 21, 1951, Serial No. 212,164  
18 Claims. (Cl. 260-45.5)



18. A hard, tough, thermoplastic homogeneous mixture of (A) a normally inelastic resinous thermoplastic material selected from the group consisting of copolymers of from 55 to 80% of styrene and correspondingly from 45 to 20% of acrylonitrile, (B) a rubbery copolymer of butadiene-1,3 and acrylonitrile containing 60 to 80% of butadiene, balance acrylonitrile and (C) a rubbery polymeric material selected from the group consisting of homopolymers of butadiene and copolymers of butadiene with styrene containing at least 65% of butadiene, balance styrene, the point representing said mixture on the trilinear diagram of (A), (B) and (C) lying within the polygon whose vertices have the following coordinates:

	Coordinates		
	(A)	(B)	(C)
First Vertex.....	62	26	12
Second Vertex.....	66	26	8
Third Vertex.....	77	15	8
Fourth Vertex.....	62	25	13

**2,713,567**  
**COMPOSITION CONTAINING GLYCIDYL POLYETHER AND A POLYVINYL ACETAL RESIN**  
James R. Scheibbl, San Lorenzo, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware  
No Drawing. Application April 14, 1952,  
Serial No. 282,263  
7 Claims. (Cl. 260-45.5)

1. A composition of matter which comprises a homogeneous mixture of (1) a glycidyl polyether of a polyhydric phenol having a 1,2-epoxy equivalency greater than 1.0, and (2) a polyvinyl acetal resin.

**2,713,568**  
**STRIPPING VINYLIDENE-VINYL CHLORIDE COPOLYMERS WITH AID OF ALKYL ACRYLATE AND PRODUCT**  
Thomas W. Fisher, Jr., Elverson, and George P. Rowland, Jr., Pottstown, Pa., assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
No Drawing. Application March 4, 1953,  
Serial No. 340,376  
8 Claims. (Cl. 260-45.5)

1. Process of stripping a copolymerization mass containing (A) a crystalline resinous copolymer of 80-95% by weight vinylidene chloride, balance vinyl chloride plus (B) residual unpolymerized vinylidene chloride and vinyl chloride, the copolymerization reaction in said mass having proceeded to the extent that from 80% to 95% of the monomers therein have become polymerized, which process comprises admixing (C) an alkyl acrylate into said copolymerization mass and subjecting the mass to stripping conditions at a temperature from 25° C. to 60° C.

**2,713,569**  
**UREA-EPOXY COMPOSITIONS**  
Sylvan Owen Greenlee, Racine, Wis., assignor to Devco & Reynolds Company, Inc., Louisville, Ky., a corporation of New York  
No Drawing. Application March 17, 1952,  
Serial No. 277,071  
6 Claims. (Cl. 260-47)

1. Urea-epoxy compositions containing in substantial amounts complex resinous epoxides and urea, said complex resinous epoxides being polymeric polyethers of dihydric phenols, which dihydric phenols are free from functional groups other than phenolic hydroxyl groups, said resinous epoxides having a plurality of aromatic nuclei alternating with intermediate and terminal aliphatic chains united through ether oxygen, the aromatic nuclei being the hydrocarbon nuclei of the dihydric phenols, the intermediate aliphatic chains being alcoholic-hydroxyl-containing chains free from functional groups other than alcoholic hydroxyl groups and the terminal aliphatic chains having epoxide and alcoholic hydroxyl groups and being free from other functional groups.

**2,713,570**  
**VINYL ACETOPHENONE-MALEIC ANHYDRIDE COPOLYMER**

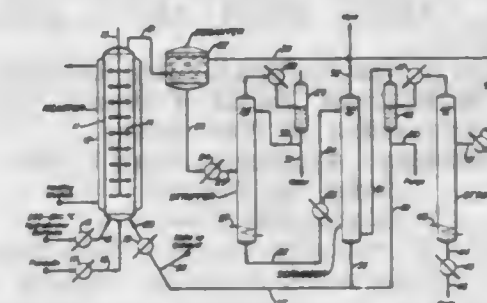
William O. Kenyon, George P. Waugh, and Cornelius C. Unruh, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 13, 1951,  
Serial No. 246,519  
1 Claim. (Cl. 260-63)  
A 4-vinylacetophenone-maleic anhydride copolymer.

**2,713,571**  
**MAKING FORMOLITE RESINS USING AQUEOUS SOLUTION OF BORON FLUORIDE**

Leon B. Gordon, Texas City, and Joe T. Kelly, Galveston, Tex., assignors, by mesne assignments, to Pan American Refining Corporation, Texas City, Tex., a corporation of Texas

Application October 13, 1953, Serial No. 385,832  
8 Claims. (Cl. 260-67)



1. A process which comprises contacting an aromatic hydrocarbon having at least one unsubstituted nuclear carbon atom and formaldehyde with a catalyst consisting essentially of an aqueous solution of boron trifluoride containing between about 10 and 60 percent by weight of BF<sub>3</sub> at a temperature between about 10 and 200° C., and separating a resinous organic chemical condensation product thus produced.

**2,713,572**  
**VULCANIZATION OF RUBBER**  
George E. Hall, Jr., Wyandotte, Mich., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application August 12, 1953,  
Serial No. 373,917  
10 Claims. (Cl. 260-79.5)  
1. A conjugated diolefin elastomer containing sulfur, a primary thiazyl sulfide accelerator and, as an activator for the thiazyl sulfide, a mixture of conjugated poly-



oxypropylene-polyoxyethylene compounds in which the oxyethylene content constitutes at least 20%, by weight, of the compounds and in which the polyoxypropylene portion of the compounds contains an average of at least 12 oxypropylene groups and is obtained by condensing propylene oxide with ethylene diamine; said activator being present in an amount sufficient to activate the primary accelerator.

#### 2,713,573 COPOLYMERS OF ACRYLONITRILE AND N-LACTAMS

Calvin E. Schildknecht, Montclair, and Mary L. Wallace, Summit, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware  
No Drawing. Application November 1, 1952,  
Serial No. 318,329  
12 Claims. (Cl. 260—85.5)

1. In a process for the production of copolymers of acrylonitrile and N-vinyl lactams, the improvement which comprises carrying out the polymerization in an aqueous medium containing a persulfate polymerization catalyst, and a reducible sulfur compound having an S=O group as an accelerator, said medium being buffered to a pH of between about 5 and 8 and having carbon dioxide dissolved therein.

#### 2,713,574 NEW SYNTHESIS OF PEPTIDES AND SUBSTITUTED AMIDES

James R. Vaughan, Jr., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine  
No Drawing. Application May 24, 1951,  
Serial No. 228,125  
17 Claims. (Cl. 260—112)

1. In a method of preparing amides wherein a compound having an amino group capable of being acylated is reacted with a mixed anhydride of an N-acylated amino acid, the improvement which comprises employing a mixed anhydride of an alkyl carbonic acid.

#### 2,713,575 PROCESS OF REACTING GELATIN AND OXIDIZED CASEIN WITH AMYL CHLOROFORMATE

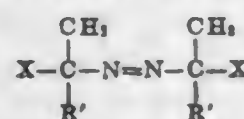
John W. Gates, Jr., and Herbert S. Elins, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
No Drawing. Application April 1, 1952,  
Serial No. 279,936  
2 Claims. (Cl. 260—117)

1. A method of preparing an alkyl chloroformate derivative of a protein which comprises reacting upon an aqueous solution of protein selected from the group consisting of gelatin and oxidized casein with amyl chloroformate at a pH of 9–11 and at a temperature of 30–50° C. whereby reaction occurs between the protein and the amyl chloroformate.

#### 2,713,576 PREPARATION OF AZO COMPOUNDS

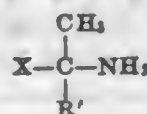
Peter L. De Benneville, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware  
No Drawing. Application July 22, 1949,  
Serial No. 106,332  
3 Claims. (Cl. 260—192)

1. A method for preparing a compound of the formula



which comprises reacting in dilute alkaline solution a

lower alkyl hypochlorite and a compound of the formula



at a temperature between 0° and 15° C., R' in the above formulas representing an alkyl group of not over two carbon atoms and X representing a member of the class consisting of nitrile, alkali and alkaline earth metal carboxylate, and carboxylic ester group, the ester group being formed with a saturated, monohydric, aliphatic alcohol of not over three carbon atoms.

#### 2,713,577 PROCESS FOR ISOLATING AND PURIFYING COENZYME A

David E. Green and Helmut Belnert, Madison, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin  
No Drawing. Application December 17, 1951,  
Serial No. 262,174  
3 Claims. (Cl. 260—211.5)

1. In the process of removing coenzyme A from a crude aqueous concentrate containing coenzyme A and contaminating materials, the steps which comprise adding a sulfhydryl compound to the concentrate, acidifying the concentrate, and precipitating the coenzyme A and sulfhydryl compound by addition of a compound which forms a cuprous ion in the acidic concentrate.

#### 2,713,578 PENICILLIN SALT OF 2-AMINOTETRAHYDRO- PYRIDINE

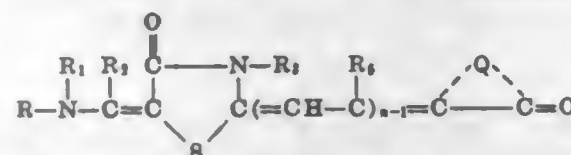
Vernon V. Young, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland  
No Drawing. Application August 27, 1954,  
Serial No. 452,737  
2 Claims. (Cl. 260—239.1)

1. The penicillin salt of 2-aminotetrahydropyridine.

#### 2,713,579 MEROCYANINE DYES CONTAINING AN AMINOMETHENYL GROUP

Edward B. Knott, Harrow, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
No Drawing. Application September 2, 1953,  
Serial No. 378,167  
11 Claims. (Cl. 260—240.1)

1. A merocyanine dye selected from those represented by the following general formula:



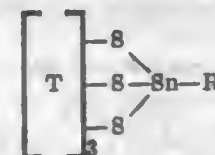
wherein R and R<sub>1</sub> each represents a member selected from the group consisting of a hydrogen atom, an alkyl group containing from 1 to 8 carbon atoms, an acetyl group, a propionyl group, a butyryl group, an isobutyryl group and a benzoyl group, a monocyclic aryl group of the benzene series, a cycloalkyl group containing from 4 to 6 atoms in the cycloalkyl ring, and R and R<sub>1</sub> together represent the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of piperidine and morpholine, R<sub>2</sub> represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 2 carbon atoms, R<sub>3</sub> represents an alkyl group containing from 1 to 4 carbon atoms, R<sub>4</sub> represents a member selected from the group consisting of a hydrogen atom, an alkyl group containing from 1 to 2 carbon atoms,

and an alkoxy group containing from 1 to 2 carbon atoms, n represents a positive integer of from 1 to 2 and Q represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the 2,4(3,5)-thiazolodione series, those of the rhodanine series, those of the 2-thio-2,5(3,4)-thiazolodione series, those of the 2-alkylmercapto-4(5)-thiazolone series, those of the thiazolidone series, those of the 2-alkylphenylamino-4(5)-thiazolone series, those of the 2-diphenylamino-4(5)-thiazolone series, those of the 5(4)-thiazolone series, those of the 2-thio-2,4(3,5)-oxazolodione series, those of the pseudohydantoin series, those of the 5(4)-oxazolone series, those of the 5(4)-isoxazolone series, those of 2,4(3,5)-imidazolodione series, those of the 2-thio-2,4(3,5)-imidazolodione series, those of the 2-alkylmercapto-5(4)-imidazolone series, those of the thionaphthenone series, those of the pyrazolone series, those of the oxindole series, those of the 2,4,6-triketohexahydropyrimidine series, those of the 3,4-dihydro-2(1)-quinolone series, those of the 3,4-dihydro-2(1)-quinoxazolone series, those of the 3-phenomorpholone series, and those of the 1,4,2-benzothiazine-3(4)-one series.

#### 2,713,580 ORGANOTIN TRIMERCAPTIDES OF 2-MERCAPTO- THIAZOLE AND DERIVATIVES THEREOF

Eugene P. Steff, Churchill Valley, Pa., and Chris E. Best, Franklin Township, Summit County, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
No Drawing. Application September 6, 1951,  
Serial No. 245,418  
6 Claims. (Cl. 260—299)

1. A compound of the formula



wherein R represents a hydrocarbon radical containing from 1 to 22 carbon atoms and T represents a radical selected from the group consisting of 2-(benzothiazolyl), 2-(thiazolyl), 2-(thiazolyl), 2-(tetrahydrobenzothiazolyl), 2-(o-phenyl-benzothiazolyl), 2-(4-methyl-thiazolyl), 2-(4,5-dimethyl-thiazolyl), 2-(4-ethylthiazolyl) and 2-(naphthothiazolyl).

#### 2,713,581 CERTAIN TETRAZOLIUM SALTS AND PROCESS FOR PREPARING THEM

Laura J. Pannone, Farmington, Conn., and John B. Rust, East Hanover, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation and one-half to Ellis-Foster Company, both corporations of New Jersey  
No Drawing. Application February 23, 1949,  
Serial No. 78,008  
20 Claims. (Cl. 260—308)

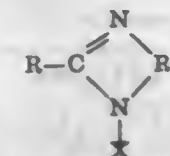
15. A compound selected from the group consisting of the tetrazolium salt having a polycyclic aryl radical attached to nitrogen in the 2-position only, and an arylene bis-tetrazolium salt, different from the first mentioned tetrazolium salt.

#### 2,713,582 DERIVATIVES OF IMIDAZOLINES AND PYRIMIDINES

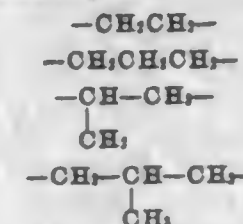
Alvin Howard Smith, Kirkwood, Mo., assignor to Petrolite Corporation, a corporation of Delaware  
No Drawing. Application April 10, 1952,  
Serial No. 281,646  
6 Claims. (Cl. 260—309.6)

1. Hydrophile synthetic products; said hydrophile synthetic products being the esters of (A) a polycarboxy

acid selected from the group consisting of acyclic and isocyclic polycarboxy acids composed of carbon, hydrogen and oxygen and having not more than 36 carbon atoms and (B) an oxypropylated ring compound of the formula



derived from a polyalkylene amine containing from 2 to 8 nitrogen atoms and a monocarboxy acid having up to 32 carbon atoms, selected from the group consisting of fatty acids, resin acids, naphthenic acids and mixtures of the above; in which R' is a divalent alkylene radical selected from the group consisting of

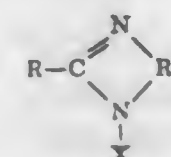


X is the portion of the said polyalkylene amine which does not form a part of the ring of said ring compound and, in the occurrence of R and X, there is at least one group containing 8 to 32 uninterrupted carbon atoms; said ring compound being oxypropylated by reaction with propylene oxide to the point where it contains from 12 to about 60 oxypropylene groups per heterocyclic ring; said ester containing at least one polycarboxy acid radical for each reactive hydroxyl radical.

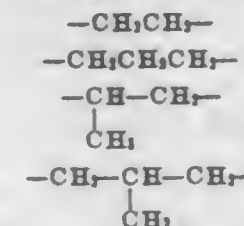
#### 2,713,583 DERIVATIVES OF IMIDAZOLINES AND PYRIMIDINES

Alvin Howard Smith, Kirkwood, Mo., assignor to Petrolite Corporation, a corporation of Delaware  
No Drawing. Application April 10, 1952,  
Serial No. 281,650  
6 Claims. (Cl. 260—309.6)

1. Hydrophile synthetic products; said hydrophile synthetic products being the esters of (A) a polycarboxy acid selected from the group consisting of acyclic and isocyclic polycarboxy acids composed of carbon, hydrogen and oxygen and having not more than 8 carbon atoms and (B) an oxypropylated ring compound of the formula



derived from a polyalkylene amine containing from 2 to 8 nitrogen atoms and an acid of the formula R-COOH in which R is selected from the group consisting of 1 to 7 carbon-atom alkyl radicals and their hydroxy derivatives, and 1 to 7 carbon-atom cycloalkyl radicals and their hydroxy derivatives, benzoyl, salicyl, anisyl and furyl; R' is a divalent alkylene radical selected from the group consisting of



and X is the portion of the said polyalkylene amine which does not form a part of the ring of said ring compound, said ring compound being free from any group having more than 7 uninterrupted carbon atoms and being oxy-



propylated by reaction with propylene oxide to the point where it contains from 12 to about 60 oxypropylene groups per heterocyclic ring; said ester containing at least one polycarboxy acid radical for each reactive hydroxyl radical.

2,713,584

# METHOD OF ISOLATING CHLOROPHYLL CONSTITUENTS OF PLANT MATERIAL

Ole Givold, Ramsey, Minn.

No Drawing. Application February 18, 1952,

Serial No. 272,255

12 Claims. (Cl. 260—314)

1. Process of recovering chlorophyll from alfalfa juice which comprises warming such juice to coagulate the chlorophyll and associated materials, separating the coagulate from the remainder of the juice, extracting the coagulate with a water immiscible organic solvent in which the chlorophyll is soluble and in which alkali metal chlorophyllins are insoluble, said solvent being selected from the group consisting of aliphatic ketones containing from 5 to 8 carbon atoms, aliphatic alcohols containing from 6 to 8 carbon atoms, aliphatic ethers containing from 4 to 8 carbon atoms and aliphatic hydrocarbons and chlorinated hydrocarbons, separating the resultant extract from the residue, selectively saponifying by means of an aqueous alkaline medium the ester group of the chlorophyll in the extract to form chlorophyllin salts without appreciable saponification of associated fats, separating the aqueous medium from the residual water immiscible solvent medium, extracting the aqueous medium with an aliphatic alcohol containing 4 to 5 carbon atoms and removing the solvent from said last mentioned extract to recover the chlorophyllin salts.

2,713,585

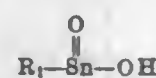
# MANUFACTURE OF ORGANOTIN TRIMERCAPTIDES

Chris E. Best, Franklin Township, Summit County, Ohio

No Drawing. Original application October 5, 1950, Serial No. 188,653. Divided and this application June 4, 1953, Serial No. 362,951

9 Claims. (Cl. 260—429)

1. Process which comprises reacting an organostannic acid of the formula



with a mercaptan of the formula



in which formulae  $\text{R}_1$  represents an organic radical consisting of from 1 to 22 carbon atoms, hydrogen, carbon-carbon single bonds, carbon-hydrogen bonds, from 0 to 11 aromatic ring carbon-carbon double bonds, and from 0 to 4 innocuous structures selected from the group consisting of carbon-carbon triple bonds, aliphatic carbon-carbon double bonds, ether linkages, thioether linkages, carboxylic ester groups bonded to carbon atoms, fluorine atoms bonded to carbon atoms, and halogen atoms bonded to aromatic ring carbon atoms, and  $\text{R}_2$  represents an organic radical consisting of from 1 to 22 carbon atoms, hydrogen, carbon-carbon single bonds, carbon-hydrogen bonds, from 0 to 11 aromatic ring carbon-carbon double bonds, and from 0 to 4 innocuous structures selected from the group consisting of carbon-carbon triple bonds, aliphatic carbon-carbon double bonds, hydroxyl groups bonded to carbon, sulfhydryl groups bonded to carbon, ether linkages, thioether linkages, carboxylic ester groups bonded to carbon and carboxylic amide groups bonded to carbon atoms.

2,713,586

# PROCESS FOR THE OXIDATION OF ETHYLENE TO ETHYLENE OXIDE

George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware  
No Drawing. Original application December 9, 1950, Serial No. 200,127. Divided and this application August 22, 1951, Serial No. 243,745

2 Claims. (Cl. 260—348.5)

1. A fluidized process for making ethylene oxide comprising reacting ethylene with oxygen at a temperature between 150 and 400° C. in the presence of a silver oxidation catalyst supported by a magnesium aluminate spinel having a particle size distribution comprising 30 to 40 parts between 100- and 200-mesh, 30 to 40 parts between 200- and 325-mesh, and 10 to 35 parts smaller than 325-mesh.

2,713,587

# 11,17-DIHYDROXY-4-PREGNENE-3,20-DIONE

Clarence G. Bergstrom, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois  
No Drawing. Application March 8, 1952,

Serial No. 275,663

1 Claim. (Cl. 260—397.45)

11 $\beta$ ,17 $\alpha$ -dihydroxy-4-pregnene-3,20-dione.

2,713,588

# 3 $\beta$ ,11 $\alpha$ -DIHYDROXYALLOPREGNANE-20-ONE AND ESTERS THEREOF

Alan H. Nathan, John A. Hogg, and Douglas A. Lytle, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan  
No Drawing. Application April 1, 1952,

Serial No. 279,944

4 Claims. (Cl. 260—397.45)

1. 3 $\beta$ ,11 $\alpha$ -dihydroxyallopregnane-20-one.

2,713,589

# CADMIUM DILAURYL DIMERCAPTIDE

Milton R. Radcliffe, Hackensack, N. J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio  
No Drawing. Application January 5, 1952,

Serial No. 265,203

1 Claim. (Cl. 260—429)

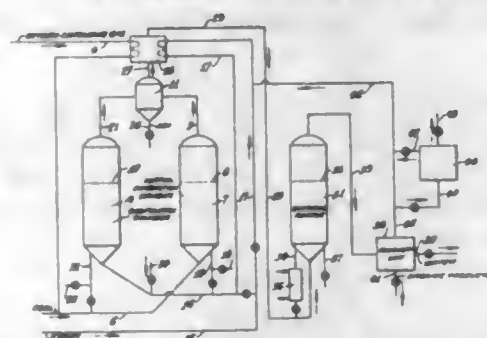
Cadmium dilauryl dimercaptide.

2,713,590

# HEAT TREATMENT OF SOLID CARBON-CONTAINING MATERIALS

George H. Palmer, Fanwood, N. J., and Cruzan Alexander, Jackson Heights, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware  
Application October 28, 1948, Serial No. 57,088

16 Claims. (Cl. 260—449.6)



11. A process for producing normally liquid organic compounds from coal which comprises supplying pure oxygen for passage upwardly through a mass of finely divided carbon-containing material at a velocity effective to suspend the same in a fluidized condition, reacting part of the carbon with the oxygen in the first reaction zone at a temperature of about 1800° to about 2000° F.

thus producing a product gas containing a major amount of carbon monoxide and a minor amount of less than about 1% carbon dioxide, the reaction conditions in the first reaction zone have an overall exothermic effect such that no external source of heat is necessary to maintain the aforesaid temperature therein, passing steam upwardly through a mass of finely divided carbon-containing material in a second reaction zone at a velocity effective to suspend the finely divided material in a fluidized condition, reacting the steam and carbon in the second reaction zone at a temperature of about 1500° to about 1700° F. thus producing hydrogen and carbon monoxide as the principal products of the reaction, circulating finely divided solid material between said reaction zones to maintain the temperatures therein within the aforesaid ranges, separately removing effluents from said first and second reaction zones containing entrained finely divided ash and unconverted carbon containing material, passing said separate effluents to a common solids separator in which the effluents are combined and ash and carbon containing materials are removed from the effluents, heat exchanging the aforesaid oxygen and steam with the combined effluents prior to charging the same to the reaction zones in the aforesaid manner, passing said combined effluents after heat exchange with said oxygen and steam to a synthesis reaction zone in which hydrogen and carbon monoxide are converted to normally liquid organic compounds, removing an effluent comprising normally liquid organic compounds, methane and carbon dioxide from said synthesis reaction zone, separating normally liquid organic compounds from the effluent of said synthesis reaction zone as the product of the process, separating the carbon dioxide from the normally gaseous components of said effluent from said synthesis reaction zone, passing the carbon dioxide thus separated to the said first reaction zone, and passing normally gaseous components of said effluent from said synthesis reaction zone substantially free from carbon dioxide to said second reaction zone.

2,713,591

# PREPARATION OF ORGANIC ISOCYANATES

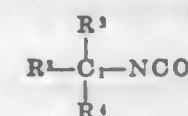
Newman M. Bortnick, Orelan, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 25, 1952,

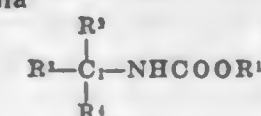
Serial No. 311,537

8 Claims. (Cl. 260—453)

1. A process for the preparation of an organic isocyanate having the general formula



in which  $\text{R}^2$  and  $\text{R}^3$  represent monovalent hydrocarbon groups which are free of non-benzenoid unsaturation,  $\text{R}^4$  represents a member of the class consisting of a hydrogen atom and an alkyl group, and in addition  $\text{R}^2$  and  $\text{R}^3$  taken together with carbon atom  $\text{C}_1$  represent a cycloaliphatic radical which carries the group  $\text{R}^4$  on the same carbon atom as is joined to the isocyanate group,  $-\text{NCO}$ , which process comprises pyrolyzing, in the presence of a basic catalyst, which is a member of the class consisting of (a) water-soluble metallic compounds of such basic strength that their 0.1 N aqueous solutions have a pH of at least 8 at 25° C. and (b) water-insoluble oxides and hydroxides of the heavy metals, a carbamate having the general formula



in which the characters of  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$  and  $\text{C}_1$  have the

same significance as in the first general formula above and  $\text{R}^1$  is a monovalent hydrocarbon radical which is free of non-benzenoid unsaturation, and isolating said isocyanate by distillation from the mixture of said carbamate and said basic compound.

2,713,592

# PRODUCTION OF AMINO ACIDS

Forest A. Hoglan, Glenview, Ill., assignor to International Minerals & Chemical Corporation, a corporation of New York

No Drawing. Application July 1, 1953,

Serial No. 365,559

14 Claims. (Cl. 260—527)

1. In a process for the recovery of glutamic acid involving hydrolysis of a raw material containing glutamic acid mother substance with a hydrolytic reagent, which can be precipitated as a salt of low solubility in a water methanol mixture and which is at least partially precipitated and separated from the hydrolysate as an insoluble salt, crystallization of glutamic acid from the hydrolysate and separation of glutamic acid from a glutamic acid end liquor, the improvements comprising adjusting the pH of the glutamic acid end liquor to between about 1 and about 3.5 with sulfuric acid, adding methanol, and separating the insoluble solids which precipitate from the resulting liquor.

2,713,593

# FLUOROCARBON ACIDS AND DERIVATIVES

Thomas J. Brice, St. Paul, Wilbur H. Pearson, White Bear Township, Ramsey County, and Harold M. Scholberg, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application December 21, 1953,

Serial No. 399,574

6 Claims. (Cl. 260—535)

1. The new and useful fluorocarbon compounds of the class consisting of the normal perfluoro(alkoxypropionic) acids having the formula:



where  $n$  has an integer value of 1 to 8; and the corresponding acid halides, metal and ammonium salts, and alkyl esters, thereof.

2,713,594

# PREPARATION OF METHYLENE BIS-AMIDES

Charles W. Sauer, Cambridge, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application December 7, 1950,

Serial No. 199,720

13 Claims. (Cl. 260—558)

1. A process for producing methylene bis-amides which consists of the steps of dissolving both an amide and hexamethylene tetramine in a non-aqueous solvent, reacting under anhydrous conditions in proportions so that the quantity of starting amide is at least equal to the stoichiometric ratio required to give two amide groups to one  $-\text{CH}_2-$  group, at a temperature above that at which ammonia is given off and below that at which decomposition of any of the reactants takes place, said amide having the formula  $\text{NH}_2\text{COR}$  wherein  $\text{R}$  is a member of the group consisting of hydrogen, alkyl, amide-substituted alkyl, and aryl, removing the ammonia as formed, cooling the mixture and recovering crystalline methylene bis-amide.



2,713,595

**CHLORINATED N-BROMOACETAMIDES AND PROCESS FOR MAKING THEM**

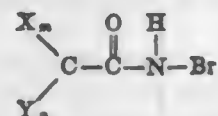
Joseph D. Park and John R. Lacher, Boulder, Colo., and Henry J. Gerjovich, Wilmington, Del., assignors to Arapahoe Chemicals, Inc., Boulder, Colo., a corporation of Colorado

No Drawing. Application October 2, 1951,

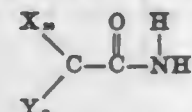
Serial No. 249,388

8 Claims. (Cl. 260-561)

1. A process for producing compounds represented by the formula



wherein X is a chlorine atom, Y is a hydrogen atom, the sum of  $m+n$  is 3,  $m$  is from 1 to 3 and  $n$  is from 0 to 2 in which a chlorinated acetamide of the formula



wherein X is a chlorine atom, Y is a hydrogen atom, the sum of  $m+n$  is 3,  $m$  is from 1 to 3 and  $n$  is from 0 to 2, is reacted with bromine and a heavy metal oxide selected from the group consisting of silver oxide and mercuric oxide in solution in a perfluorinated aliphatic carboxylic acid.

8. N-bromotrichloroacetamide.

2,713,596

**N-BROMODICHLOROACETAMIDE**

Joseph D. Park and John R. Lacher, Boulder, Colo., and Henry J. Gerjovich, Wilmington, Del., assignors to Arapahoe Chemicals, Inc., Boulder, Colo., a corporation of Colorado

No Drawing. Original application October 2, 1951, Serial No. 249,388. Divided and this application December 28, 1953, Serial No. 412,958

1 Claim. (Cl. 260-561)

N-bromodichloroacetamide.

2,713,597

**SEPARATION OF DIISOPROPYLAMINE FROM ISOPROPYL ALCOHOL**

Harold I. Yalowitz and William J. Bannister, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application August 29, 1951,

Serial No. 244,254

7 Claims. (Cl. 260-583)

1. In the separation of diisopropylamine from mixtures containing diisopropylamine and isopropyl alcohol, the process which comprises washing said mixture with water at a temperature between about 28° and 74° C. at which isopropyl alcohol separates from diisopropylamine, separating the water layer containing isopropyl alcohol which forms, and distilling the washed oil layer to obtain a substantially pure diisopropylamine fraction.

2,713,598

**PROCESS FOR MAKING ACETALDOL FROM ACETALDEHYDE**

Louis Alh  rit  re and Georges Gobron, Melle, France, assignors to Les Usines de Melle (Soci  t   Anonyme), Saint-Leger-les-Melle, France, a corporation of the Republic of France

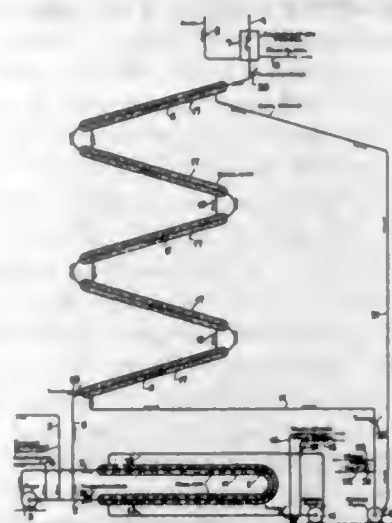
Application April 5, 1950, Serial No. 154,021

Claims priority, application France May 23, 1949

7 Claims. (Cl. 260-602)

1. A continuous process for producing acetal-dol which comprises continuously flowing a liquid mixture of acetaldehyde, acetal-dol and aldolization catalyst through a first zone, including an elongated path of restricted cross-

sectional area, at a temperature between 40° C. and about 45° C. at a pressure to prevent boiling for a period of not over one minute to cause aldolization to begin and continuously passing the so-treated liquid through a second



zone, including an elongated path of restricted cross-sectional area, at a temperature materially below 40° C. in the range of about 20° C. to about 35° C. for a period such that the total residence time in said zones does not exceed about 6 minutes 35 seconds.

2,713,599

**PRODUCTION OF TERTIARY AROMATIC ALCOHOLS**

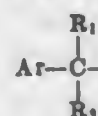
Eugene J. Lorand, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1951,

Serial No. 264,235

11 Claims. (Cl. 260-618)

1. The process which comprises treating a mixture containing a hydrocarbon of the formula RH and a hydroperoxide of the formula ROOH with an alkali metal hydroxide under anhydrous conditions at a temperature between about 80° and about 200° C. until said hydroperoxide has substantially completely reacted, to produce an alcohol of the formula ROH as the major product, the R in said formulas being a radical of the formula



where  $\text{R}_1$  and  $\text{R}_2$  represent alkyl groups and Ar represents a radical of the group consisting of aryl and substituted aryl radicals.

2,713,600

**PREPARATION OF ISOPROPYL BENZENE HYDROCARBONS**

Gordon E. Langlois, El Cerrito, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 25, 1953,

Serial No. 364,219

5 Claims. (Cl. 260-671)

1. In the process of preparing an isopropyl aromatic hydrocarbon by alkylating a benzene hydrocarbon having a molecular weight not exceeding that of xylene with propene, the improvement of effecting greater utilization of the benzene hydrocarbon, which comprises reacting the benzene hydrocarbon with propene at a pressure in the range of from about 200 to 1800 p. s. i. g. and at a temperature of at least about 300° F. but not exceeding about 400° F. in the presence of a liquid non-adsorbed phosphoric acid catalyst of a concentration of at least about 96% but not exceeding 104%, based on orthophosphoric acid.

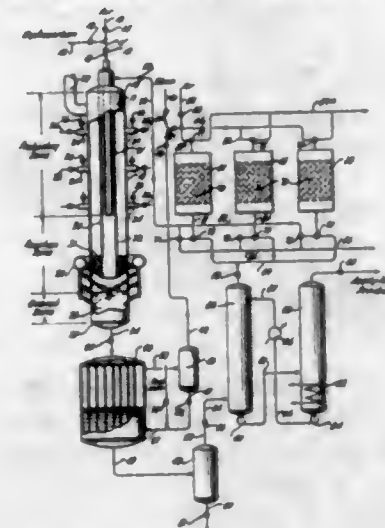
2,713,601

**PRODUCTION OF ACETYLENE**

John L. Bills, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application July 28, 1951, Serial No. 239,070

13 Claims. (Cl. 260-679)



1. The process for producing acetylene which comprises (1) preheating a reactant gas consisting essentially of oxygen and a non-aromatic hydrocarbon having a normal boiling point below about 400° C. to a temperature below that at which reaction between the components thereof takes place to any substantial extent; (2) initiating an acetylene-producing reaction by introducing into the preheated reactant gas a hydrogen-containing gas at a temperature below that at which any substantial amount of atomic hydrogen is formed, said hydrogen-containing gas being provided in a amount sufficient to provide between about 0.5 and about 5 moles of hydrogen per mole of said hydrocarbon; (3) controlling the temperatures of said preheated reactant gas and said hydrogen-containing gas so that the temperature attained in said acetylene-producing reaction is between about 1100° C. and about 1500° C.; (4) within from about 0.001 to about 0.05 second after introduction of the said hydrogen-containing gas into the said preheated reactant gas, cooling the product gas to a temperature substantially above the boiling point of water but at which substantially no further reaction occurs; (5) passing the cooled product gas in indirect heat exchange relationship with water to generate steam and further cool the product gas; (6) passing said steam in contact with a material selected from the class consisting of metals and metal oxides capable of reducing steam and maintained at a steam-reducing temperature to form a hydrogen-containing gas and a higher metal oxide; (7) returning the hydrogen-containing gas so formed to the aforesaid step 2; (8) separating acetylene from the cooled product gas; and (9) passing the acetylene-free product gas in contact with said higher metal oxide at a reducing temperature to reduce said metal oxide to a lower steam-reducing state of oxidation.

**ELECTRICAL**

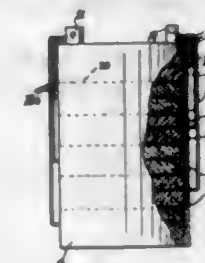
2,713,602

**ELECTRIC BATTERY**

William Parks Shuman, Jr., Bethlehem, Pa.

Application April 13, 1954, Serial No. 422,795

6 Claims. (Cl. 136-111)

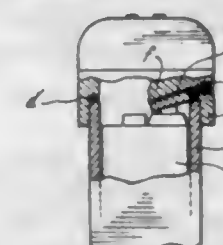


3. A method of making an electric battery which comprises the steps of forming axially spaced side openings in an elongated casing having a closed end; forming a stack of electrodes within said casing by inserting a first conductor through the side opening nearest said closed end, placing a mass of comminuted active electrode material of one polarity in said casing around said conductor, forming said material into a first disk by compacting it against said closed end, placing an electrolyte-permeable separator in face-to-face contact with said disk, bonding said separator to said casing along the entire periphery of said separator, inserting a second conductor through the next one of said side openings, placing a mass of comminuted active material of opposite polarity in said casing around said second conductor, forming the last-mentioned material into a second disk by compacting it against said separator and said first disk, proceeding in like manner for all of said electrodes; sealing the other end of said casing by applying a cover under pressure against the last disk and bonding said cover to said casing; and introducing electrolyte into said casing by way of said side openings.

2,713,603

**HOUSING WITH GAS-ESCAPE MEANS FOR SAFETY-LAMP ACCUMULATORS**  
Friedrich Karl Weber, Dortmund-Br  minghausen, Germany, assignor to Concordia Elektrizit  ts-Aktiengesellschaft, Dortmund, Germany

Application August 19, 1953, Serial No. 375,235  
Claims priority, application Germany August 25, 1952  
3 Claims. (Cl. 136-170)



1. In a housing for a safety lamp accumulator, comprising a housing body having a bottom, side walls and a cover thereon, means capable of sealing said cover liquid-tight on said body, valves for permitting the escape of gas from batteries contained in said housing, a peg-shaped support in said housing with additional means for gas-escape from said batteries, said support being arranged with the opening of the gas-escape located laterally at such a distance from the bottom, side walls, and cover of said body that liquid entrained from said accumulator valves during the charging operation of the accumulator is prevented from flowing out through the additional gas-escape opening.

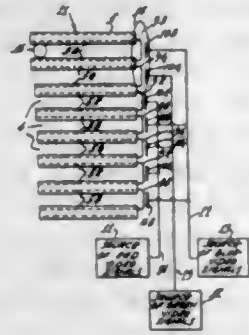
2,713,604

**APPARATUS FOR APPLYING SIGNALS TO ELECTRODES OF AN ELECTRON TUBE**  
Louis Pensak, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application March 15, 1952, Serial No. 276,835  
6 Claims. (Cl. 178-5.4)

1. Apparatus for applying voltage waves to a plurality of electrode structures having a relatively large in-



terelectrode capacity in such manner that the capacitive loading effect of the electrodes on the source of the voltage waves is minimized comprising in combination an electron gun for producing a beam of electrons, means to cause said beam to scan successively over portions of each of said electrode structures so as to cause said portions to emit secondary electrons, sep-

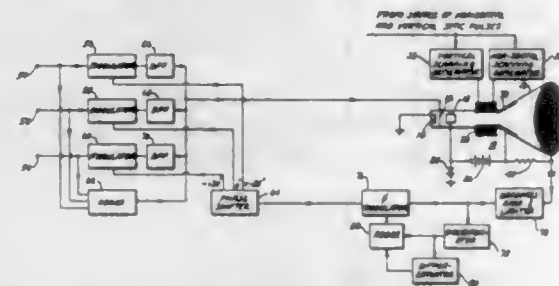


arate collector plates, each of said plates being mounted so as to collect secondary electrons from the portion of one of said electrodes struck by said beam of electrons, and means for coupling a plurality of said collector plates to said source of voltage waves so that said voltage waves are applied to particular ones of said electrodes only when said particular electrodes are emitting secondary electrons.

#### 2,713,605 ELECTRICAL SYSTEMS

William E. Bradley, New Hope, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

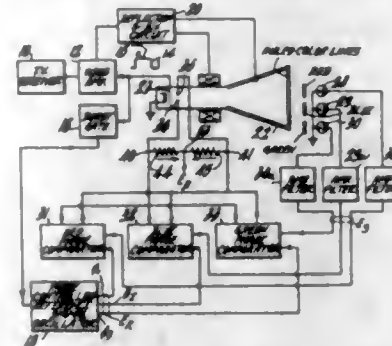
Application April 18, 1952, Serial No. 282,957  
10 Claims. (Cl. 178-5.4)



1. A cathode-ray tube system comprising a cathode-ray tube having a source of a beam of charged particles and a beam intercepting member, said beam intercepting member comprising a plurality of first elemental areas having a first given response characteristic upon impingement by said beam and comprising second elemental areas having a second given response characteristic upon impingement by said beam different from the response characteristic of said first elemental areas, said second elemental areas being arranged in a geometrical configuration indicative of the geometrical configuration of said first elemental areas, means for scanning said beam across said first and second elemental areas at a given nominal rate to thereby energize said first and second elemental areas, means to derive a signal quantity determined by the response characteristic of said second elemental areas and having a nominal frequency determined by the said nominal rate of scanning said elemental areas, means to derive from said signal quantity a control quantity determined by variations of the frequency of said signal quantity from said nominal frequency value, means to produce a signal wave having a nominal frequency determined by the nominal frequency of said signal quantity, and means responsive to said control quantity to angle modulate said signal wave as a function of said frequency variations of said signal quantity from the said nominal frequency value thereof.

#### 2,713,606 COLOR TELEVISION SYSTEMS

George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 18, 1952, Serial No. 282,979  
9 Claims. (Cl. 178-5.4)

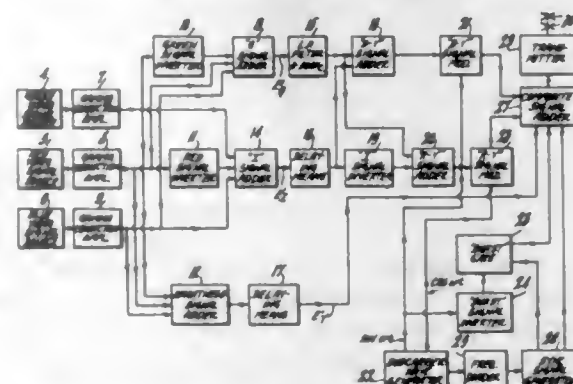


1. A television system for both reproducing color pictures and providing color registration with a line-screen single gun cathode ray tube comprising in combination means sampling a plurality of individual colors reproduced on the lines of said tube, means providing a color sub-carrier reference signal, a plurality of phase comparator circuits corresponding to the sampled colors, means controlling the cathode ray beam of said tube for producing colors on said screen intensity modulated by a video signal having a sub-carrier component, whose phase represents color hue, circuits connecting said sampling means and said reference signal respectively to said phase comparator circuits in such polarity and phase that output potentials corresponding to deflection signals are provided by said phase comparator circuits, and deflection means for said tube connected to said phase comparator circuits whereby both color reproduction and color registration is accurately provided.

#### 2,713,607 COLOR TELEVISION TRANSMISSION SYSTEMS

Roland N. Rhodes, New Brunswick, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 25, 1953, Serial No. 356,986  
6 Claims. (Cl. 178-5.4)



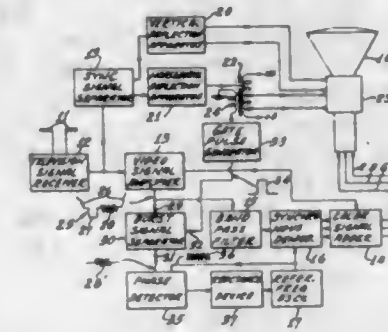
1. In a color television system for conveying chromaticity information by means of a color subcarrier wave having phased components and brightness information by means of a main carrier wave, means for generating a phase and amplitude modulated color subcarrier wave and a brightness signal, including the combination of, a source of red color signals, a source of blue color signals, a source of green color signals, a first signal adding means coupled to said red, said blue, and said green color sources for providing a brightness signal, a second signal adding means coupled to said red, said blue, and said green color sources for providing a signal which when taken in combination with said brightness signal provides two color information along a color gamut between the color orange and the color cyan, a third signal adding means coupled to said red, said blue, and said green signal sources for providing a second color

signal which when taken in combination with said brightness signal and said second color signal provides three color information within a color triangle the apices of which are the primary colors represented by the red, the blue, and the green color signals, frequency limiting means coupled to said third signal adding means, a fourth signal adding means coupled to said frequency limiting means and said second signal adding means for providing a first color difference signal, a fifth signal adding means coupled to said frequency limiting means and said third signal adding means for providing a second color difference signal, a source of waves of a first given phase and of subcarrier frequency, modulating means coupled between said fourth signal adding means and said source of subcarrier waves to provide a subcarrier wave of a first given phase which is amplitude modulated in accordance with said first color difference signal, a source of subcarrier waves having a second given phase, a second modulating means coupled between said fifth signal adding means and said subcarrier wave of second given phase for providing a quadrature phased subcarrier wave which is amplitude modulated in accordance with said second color difference signal, and a sixth signal adding means coupled to said first modulating means, said second modulating means, and said first signal adding means whereby a composite signal is produced comprising said phase and amplitude modulated color subcarrier wave and a brightness signal.

#### 2,713,608 COLOR TELEVISION SYNCHRONIZING SIGNAL SEPARATOR

Richard W. Sonnenfeldt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

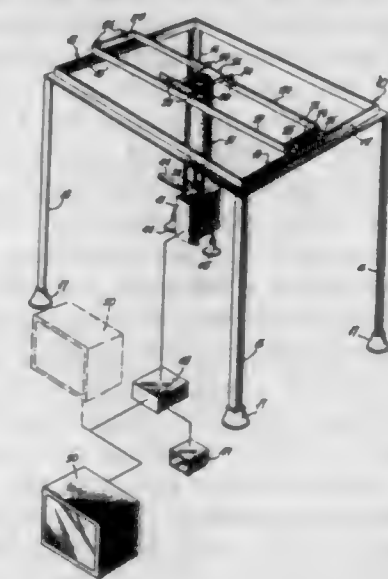
Application July 1, 1953, Serial No. 365,380  
6 Claims. (Cl. 178-5.4)



1. In color television system employing a composite signal including a luminance video signal, a chrominance video signal-modulated subcarrier wave and periodic color synchronizing signal bursts of unmodulated color subcarrier wave, apparatus for segregating said subcarrier wave bursts comprising, a normally inoperative burst gating electron tube having input and output electrodes, means impressing said composite signal upon said burst gating tube input electrode, a normally inoperative gate pulse injector tube having input and output electrodes, an impedance device connected to said gate pulse injector tube output electrode to develop operating voltages in response to the operation of said gate pulse injector tube, a source of gate pulses coincident with said subcarrier wave bursts, means coupling said gate pulse source to said gate pulse injector tube input electrode to periodically render said gate pulse injector tube operative, means coupling said impedance device to said burst gating tube output electrode in such a manner as to develop across said impedance device and at said burst gating tube output electrode subcarrier wave bursts superimposed upon pedestals corresponding to said gate pulses, and amplitude discriminating means coupled to said burst gating tube output electrode to develop said segregated subcarrier wave bursts from said pedestals.

#### 2,713,609 TELEVISION CAMERA SUPPORTING STRUCTURE

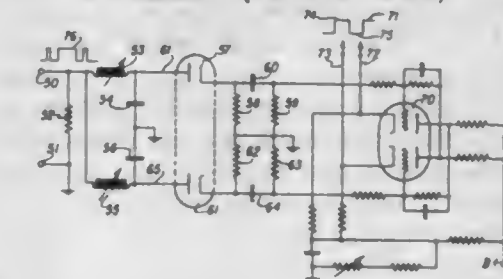
Don D. Niklason, Washington, D. C.  
Application March 3, 1954, Serial No. 413,848  
2 Claims. (Cl. 178-6)



1. Apparatus for use with a closed circuit educational demonstration television system including a television camera, comprising a supporting frame for supporting said camera above a lecture demonstration surface including framing means defining a pair of parallel tracks extending along one axis of the lecture demonstration surface and disposed above and parallel thereto, a second pair of tracks extending at right angles to said first pair of tracks and supported on said first mentioned tracks for movement along the same, and a carriage having wheels rotatably and guidably supported on said second mentioned tracks, a telescopically extensible arm supported on said carriage in depending relation, joint means adapted to support said camera on the end of said telescopically extensible arm for movement from a downwardly directed position to a substantially horizontally directed position, light means supported in fixed relation to said camera supporting joint means, and counterbalancing means associated with said telescopically extensible arm for counterbalancing the weight of said camera.

#### 2,713,610 DISCRIMINATOR CIRCUIT

Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois  
Application November 8, 1951, Serial No. 255,366  
8 Claims. (Cl. 178-69.5)



1. A discriminator circuit adapted to discriminate between even and odd field synchronization pulses of a television signal having successive even and odd field horizontal line interlace and including horizontal synchronization pulses and vertical synchronization pulses, with the vertical pulse for the even field occurring in time with the horizontal pulses and the vertical pulse for the odd field occurring midway between the time of the horizontal pulses, said circuit including in combination, a first resonant circuit having input and first output terminals, means to apply the synchronization pulses of the television signal to the input terminals of said first resonant circuit, said first resonant circuit being tuned



to a frequency slightly higher than the frequency of said horizontal pulses to produce at said first output terminals a steady state signal voltage response  $120^\circ$  differing in time with said horizontal frequency pulses, a second resonant circuit having input and second output terminals, means to apply the synchronization pulses of the television signal to the input terminals of said second resonant circuit, said second resonant circuit being tuned to a frequency slightly lower than the frequency of said horizontal pulses to produce at said second output terminals a steady state signal voltage response  $60^\circ$  differing in time with said horizontal frequency pulses, each of said resonant circuits producing at their respective output terminals a transient response to the occurrence of vertical pulses, said first resonant circuit having a combined maximum peak voltage response to the occurrence of the vertical synchronization pulses of the even fields, said second resonant circuit having a combined maximum peak voltage response to the occurrence of the vertical synchronization pulses of the odd fields, first indicating means connected to said first output terminals to respond to the peak voltage output of said first resonant circuit to indicate the occurrence of even fields, and second indicating means connected to said second output terminals to respond to the peak voltage output of said second resonant circuit to indicate the occurrence of odd fields.

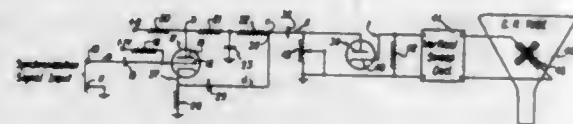
2,713,611

## TELEVISION CIRCUIT

Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois

Application March 1, 1952, Serial No. 274,398

8 Claims. (Cl. 178—69.5)



1. A vertical synchronization pulse producing circuit for use in a television receiver having a cathode ray tube vertical sweep circuit synchronized by a train of synchronization signals which form a part of a composite video signal, which train of synchronization signals includes low frequency vertical synchronization pulses having a plurality of serrations defining sections of a predetermined time duration, said circuit including in combination, phase inverter means having an input circuit to which the train of synchronization pulses are applied, a first output terminal providing the synchronization signals with the vertical synchronization pulse being of one polarity, and a second output terminal providing the synchronization signals with the vertical synchronization pulse being of the opposite polarity and the serrations thereof extending in the direction of said one polarity, a first output circuit connected to said first output terminal including a low pass filter having a time constant greater than said predetermined time interval for producing a rounded pulse of said one polarity, a second output circuit connected to said second output terminal including high pass filter means for passing said synchronization signal without substantially modifying the serrations thereof, and means coupled to said output circuits for combining the pulses therefrom so that the serrations passed by said high pass filter means are superimposed upon said rounded pulse to provide discrete increased amplitude pulses occurring during said vertical synchronization pulse.

2,713,612

## TELEVISION SYSTEM

Leroy W. Nero, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois  
Application December 4, 1952, Serial No. 324,055  
7 Claims. (Cl. 178—69.5)



1. A control circuit for a television receiver and the like for utilizing synchronizing components of a received television signal to control apparatus in such receiver, said control circuit including in combination, a ringing circuit responsive to the differential of an applied signal for developing a sine wave, damping means connected to said ringing circuit for damping selected half-cycles of the sine wave developed thereby and for rendering said ringing circuit responsive only to applied signals of a selected polarity, and low pass filter circuit means responsive to the synchronizing components for integrating said components and extending to said ringing circuit for applying a signal thereto having a differential of one polarity during the occurrence of each such synchronizing component and having a differential of a second polarity at the termination of each such synchronizing component, whereby said control circuit produces a selected half-cycle of the aforementioned sine wave in response to each differential of one of the aforementioned polarities of the signal applied to said ringing circuit.

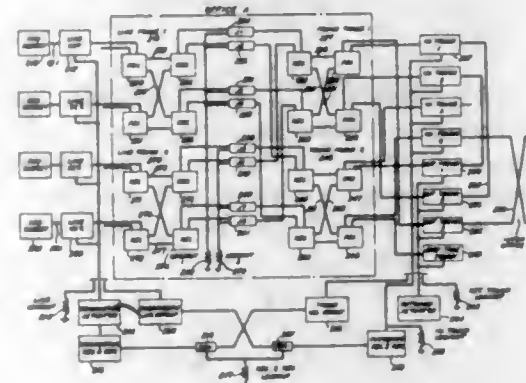
2,713,613

## ARRANGEMENT FOR SUPPLYING ALTERNATING CURRENT POWER FOR ACTUATING TELEPHONE SUBSCRIBER'S STATION EQUIPMENT OVER THE SUBSCRIBER'S LOOP CIRCUIT

William A. Malthaner, New Providence, and Henry E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 10, 1952, Serial No. 298,036

10 Claims. (Cl. 179—16)



1. A closed metallic path telephone switching system comprising a plurality of subscribers' stations; a central station; and a plurality of subscribers' lines connecting said subscribers' stations to said central station, said central station having a direct-current power source, an alternating-current power source, a circuit connector, and a calling signal receiver, each of said subscribers' stations having a control winding and calling apparatus, said calling apparatus comprising a plurality of impulse devices each having primary and secondary windings for the selective production of call signals by said secondary windings in response to alternating-current power applied to said primary windings, means for connecting said direct-current power source to said control winding

upon the operation of said calling apparatus in one of said subscribers' stations, said circuit connector connecting said calling receiver in parallel with said alternating and said direct-current power sources to the line of said calling station whereby the current from said alternating-current source flows through the primary windings of said calling apparatus at said station, back through said subscriber's line to said direct-current power source, said connector also providing a path for the signals produced by said secondary windings of said calling apparatus through said subscriber's line and said calling signal receiver over a closed metallic path.

2,713,614

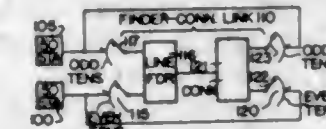
## FINDER AND FINDER-ALLOTTER ARRANGEMENTS IN TELEPHONE SYSTEMS

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application October 25, 1948, Serial No. 56,363.

Divided and this application August 15, 1951, Serial No. 241,994

3 Claims. (Cl. 179—18)



2. In a telephone system having odd-numbered and even-numbered groups of lines, finder switches each having access to the lines in both of said groups, a switching unit connected to each of said finder switches, an allotter, a pair of hunting circuits, one including a test relay for the odd-numbered group of lines and the other including a test relay for the even-numbered group of lines, a pair of control circuits, one including a control relay corresponding to the odd-numbered group of lines and the other including a relay corresponding to the even-numbered group of lines, means for causing the allotter to select an idle finder, means whereby said last means is operated responsive to a call initiated over a line in one of said groups, means for operating both of the test relays by way of the hunting circuits in case the selected finder is standing on noncalling lines, means for causing the finder to hunt for the calling line, means whereby said last means is operated and effective if both of the test relays are operated, means for restoring one of the test relays when the finder finds the calling line, means for operating one of the control relays by way of its control circuit, means whereby said last means is operated responsive to the restoration of said one test relay, means for causing the finder to switch the calling line through to the switching unit connected to the selected finder, means whereby said last means is operated responsive to the operation of said one control relay, means for maintaining the normal unoperated condition of the other control relay, means whereby said last means is operated responsive to the operation of said one control relay, thereby to prevent said finder from also switching a calling line in the other group through to its switching unit should the finder encounter calling lines in both of the groups simultaneously.

2,713,615

## ELECTRONICALLY OPERATED AND CONTROLLED SWITCH

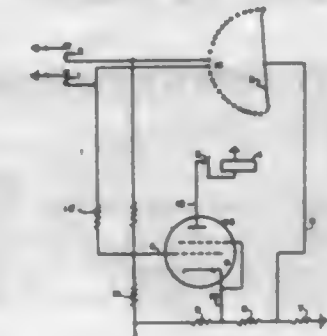
Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application August 19, 1952, Serial No. 305,192

5 Claims. (Cl. 179—18)

1. In a switch having a wiper, bank contacts accessible thereto and a self-interrupted electromagnet for stepping said wiper, means including a conductive elec-

tron tube for causing operation of said electromagnet for stepping said wiper over said contacts, said electron tube having plate and cathode circuits, said plate circuit in series with said electromagnet and interrupted when said electromagnet is interrupted to thereby render said tube non-conductive on each step to successive contacts of said bank contacts, and means rendering said



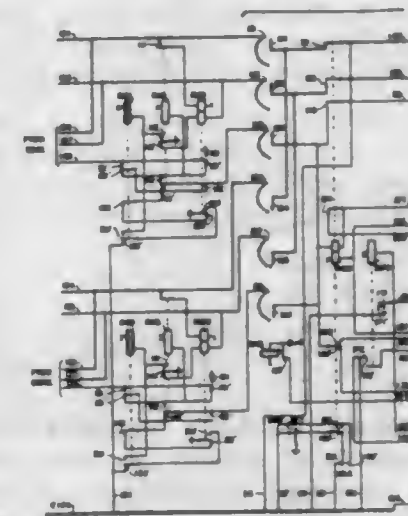
2,713,616

## FINDER DISTRIBUTOR PERMANENT TIMER

Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application October 2, 1952, Serial No. 312,800

13 Claims. (Cl. 179—18)



1. In an allotter for starting an idle preselected finder, a hold relay, means for operating said relay, a circuit for starting said preselected finder, means whereby said circuit is completed responsive to the operation of said hold relay, a kick-off relay, timing means for operating said kick-off relay if the preselected finder fails to operate, means for opening said circuit, means whereby said last-mentioned means is operated responsive to the operation of said kick-off relay, means for restoring said hold relay, means whereby said last-mentioned means is also operated responsive to the operation of said kick-off relay, means for selecting a second finder, means whereby said last-mentioned means is operated responsive to the restoration of said hold relay, means for restoring said kick-off relay, means whereby said last-mentioned means is operated responsive to the restoration of said hold relay, means whereby said first-mentioned means is reoperated responsive to the restoration of said kick-off relay to reoperate said hold relay, a second circuit for starting the second finder, means whereby said second circuit is completed responsive to the reoperation of said hold relay.

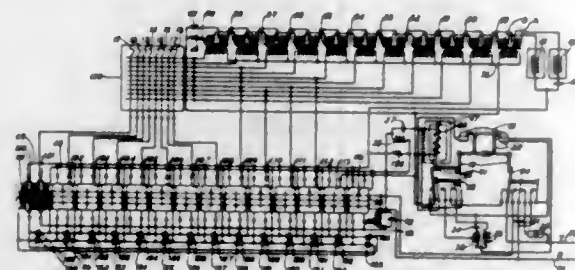


2,713,617

**REPETITIVE TELEPHONE CALLING SYSTEM EMPLOYING POWER SUPPLIED OVER THE SUBSCRIBER'S LOOP**

Kermit S. Dunlap, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 10, 1952, Serial No. 298,166  
9 Claims. (Cl. 179—81)



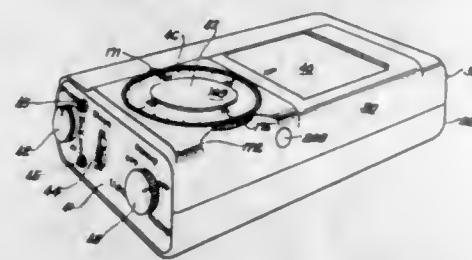
1. A subset comprising terminals for connecting said subset to a subscriber's line; voice current transmitting and receiving equipment; closed metallic loop call signal generating equipment comprising a plurality of impulse coils having primary and secondary windings for generating calling pulses, and means for selectively interconnecting said secondary windings with said terminals comprising a manually operable selector switch and a plurality of relays; and switching equipment for selectively connecting said signal generating equipment across said terminals, the selective connection of said signal generating equipment connecting said primary windings of said impulse coils across said terminals.

2,713,618

**POCKET RECORDER**

Louis A. McNabb, Davenport, Iowa

Application December 7, 1949, Serial No. 131,573  
15 Claims. (Cl. 179—100.2)



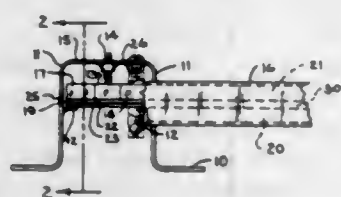
1. In a pocket-size magnetic recording and reproducing device, means for moving an elongated medium to record and reproduce comprising a motor assembly and countershaft assembly each pivotally mounted between two points defining lines, respectively, which pass approximately through the centers of gravity of said motor assembly and said countershaft assembly so that said assemblies are nonsensitive to change in position.

2,713,619

**MAGNETIC CONDITIONING DEVICE**

Wesley L. Eddy, Downers Grove, Ill., assignor to Ampro Corporation, Chicago, Ill., a corporation of Illinois

Application March 27, 1951, Serial No. 217,721  
1 Claim. (Cl. 179—100.2)



In an assembly for demagnetizing a single one of plural record track areas that extend longitudinally of

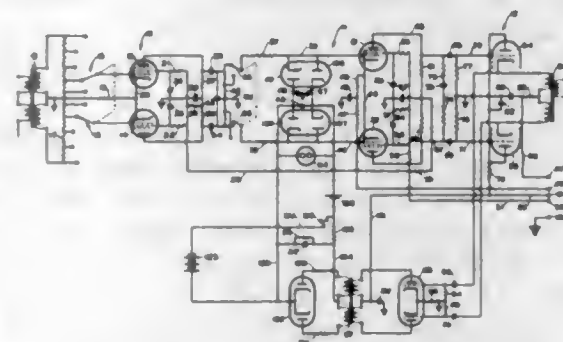
a magnetizable tape form record body adapted to be driven longitudinally past said assembly in a preselected path, and with a recording surface thereof facing the assembly, said assembly including lateral guide means for guiding a record body laterally in a preselected path, a magnet having polar surfaces facing the record body path, spaced apart in the direction of record body travel, having co-linear corresponding margins extended in the direction of record body travel and positioned for substantial coincidence with an edge of a said record body area and with said polar surfaces registered with said area, a guide surface positioned for contact by the recording surface of the record body and fixing the closeness of its approach to said polar surfaces, and a pressure pad engageable with the surface of a record body opposite its recording surface and urging said body toward said polar surfaces and against said guide surface; a facing body of magnetically permeable material mounted on said pad for direct contact with said opposite record body surface, said facing body having a width disposed transverse to a record body that is at least as great as the width of a said record body area, and a length disposed in the direction of record body travel that is at least as great as the spacing between the margins of said polar surfaces that are remote in said direction, and said facing body being positioned on said pad for facing overlying relation to said polar surfaces in both the directions of their said width and the direction of their said remote margins.

2,713,620

**AUTOMATIC VOLUME CONTROL SYSTEM**

Aubra E. Tilley, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 29, 1949, Serial No. 90,479  
5 Claims. (Cl. 179—171)



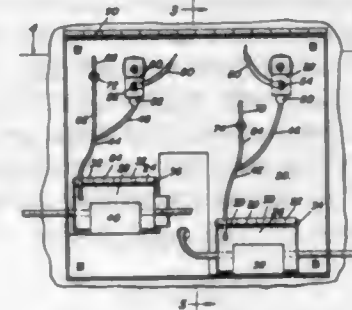
1. An automatic volume control circuit comprising, in combination, a multi-stage amplifier, one stage including a pair of tubes connected in push-pull circuit arrangement, each tube having an anode, a cathode, and a control grid, means for supplying operating potentials to the electrodes of said tubes, means for rectifying a voltage from one of the stages of said multi-stage amplifier, a pair of output terminals for receiving said voltage, a first pair of rectifier devices of the same polarity respectively connecting the control grids of said push-pull stage to one of said terminals, a second pair of rectifier devices of the same polarity respectively connecting the last-mentioned control grids to the other of said terminals, said first pair of rectifier devices being oppositely poled relative to said second pair of rectifier devices, means including a capacitance connected across said terminals and a leakage path of constant resistance for discharging said capacitance, means for charging said capacitance, means for disconnecting said charging means whereby the discharge of said capacitance provides an exponentially-decreasing voltage across said terminals, said decreasing voltage cooperating with said rectified voltage to provide a substantially constant amplitude level and minimizing the magnitude of said rectified voltage necessary to provide such substantially constant amplitude level.

2,713,621

**SIGNAL DEVICE FOR HAY BALERS**

James R. Hoffman, Wooster, Ohio

Application June 8, 1953, Serial No. 360,238  
2 Claims. (Cl. 200—61.18)



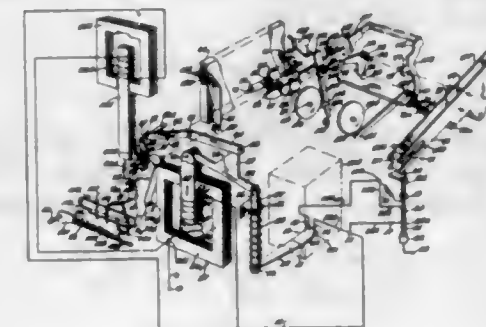
1. A signal actuating device for balers for exciting a signal device to provide a warning of exhaustion of twine comprising a casing adapted to be positioned on the container of twine, said casing having a base plate, a hinge plate hingedly secured to said base plate, a contact arm carried by said hinge plate, a contact member positioned in said casing, and means continuously urging said contact arm to engage said contact member, the twine passing between said hinge plate and said base plate holding said hinge plate against pivotal movement thus holding said contact arm out of engagement with said contact member, said means comprising a spring support rod secured to said base plate, said contact arm having a pair of divergently extending limbs, and a spring terminally secured to said spring support rod and one of said limbs.

2,713,622

**CIRCUIT RECLOSER**

Roy M. Smith, Jeannette, Pa., assignor, by mesne assignments, to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 14, 1950, Serial No. 200,781  
8 Claims. (Cl. 200—89)



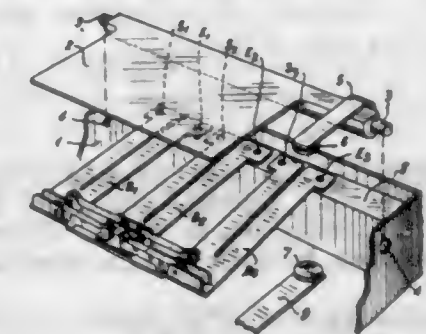
1. In a recloser, a pair of cooperable contacts having engaged and disengaged positions, means biasing said contacts closed, an operating magnet for operating said contacts to open position, a control magnet and an auxiliary control magnet each having an armature having an operated and a non-operated position, a by-pass circuit around said operating magnet controlled by said control magnet armature for controlling the energization of said operating magnet, a first latch for engaging said control magnet armature in its non-operated position to prevent its operating by said control magnet when energized, said auxiliary control magnet armature engaging said first latch when said auxiliary control magnet is energized by a predetermined current value, a second latch for maintaining said contacts in disengaged position and means controlling the release of said second latch to permit re-engagement of said contacts under control of said biasing means.

2,713,623

**THERMALLY OPERATED PROTECTIVE DEVICES FOR POLYPHASE CURRENTS**

Eusèbe Bourdeau, Nanterre, France, assignor to La Télé-mécanique Electrique (Société Anonyme), Nanterre, France, a company of France

Application July 13, 1953, Serial No. 367,657  
Claims priority, application France July 18, 1952  
4 Claims. (Cl. 200—113)



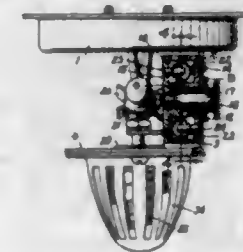
1. In a protective device for use with a plurality of electric circuits to be simultaneously interrupted if the current in any one of said circuits either exceeds a predetermined value or falls below a second predetermined value, the combination of a thermally responsive element operatively connected to each of said circuits, said elements being located adjacent one to the other and having portions moving in the same direction in response to excessive current values, a movably mounted control member having a portion located within the limits of motion of said moving portions of said elements and moved in said direction by said portions in response to excessive current values, said control member thereupon being effective to interrupt all of said circuits, and insulating levers pivotally mounted on each of said portions of said elements and between said elements and said control member, each of said levers further resting on means firmly connected to said portion of the adjacent element, whereby movement of any of said portions of said elements in said direction through a shorter distance than the movement of said portions of adjacent elements due to current falling below said second predetermined value raises the end of said lever in said direction to move said control member in said direction and interrupt all of said circuits.

2,713,624

**FIRE AND EXPLOSION DETECTORS**

William Kagan, University City, Mo.

Application May 9, 1952, Serial No. 287,058  
4 Claims. (Cl. 200—138)



1. In a device for the purpose set forth, an L-shaped supporting bracket having a vertical leg and a horizontal leg, a circular housing member resting against one face of said vertical leg and having a peripheral flange projecting away from the leg, said housing member having a centrally disposed internally threaded tubular boss, said vertical leg having an opening aligned with said boss, a tubular bearing member extending through said opening and screwed into said boss, said bearing member having a flanged head bearing against the other face of the vertical leg, a second housing member having a peripheral flange and a hollow boss engaging in alignment with the flange and boss of the first housing member and providing a circular channel between the flanges and bosses, a shaft extending through said bearing and the boss of the



second member and having the latter fixed thereto, pins projecting into said channel from the housing members respectively, a coiled tension spring mounted in said channel and having its ends hooked on said pins and urging the second housing member to rotate on the first housing member, said housing members being angularly adjustable relatively to each other and to said supporting bracket, latch means engaging the second housing member to hold it releasably from rotation, and a mercury switch carried by said shaft.

2,713,625

**HUMIDITY-SENSITIVE ELEMENT**

Robert W. Johnson, Roselle, and Earl R. Kebbon, Chatham, N. J., assignors to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application April 29, 1953, Serial No. 351,798  
3 Claims. (Cl. 201-63)



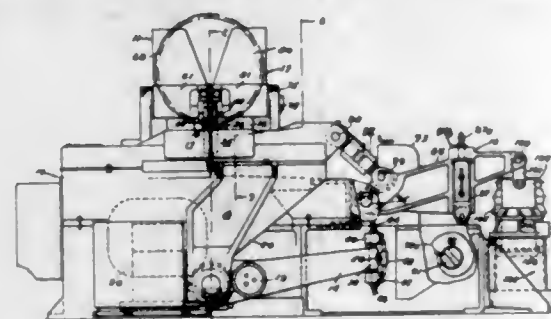
1. A humidity-sensitive member comprising an insulator member including a body portion and a tapered shank, said body portion having a recess therein, a film member made of a material whose electrical resistance varies with moisture and disposed in the bottom of the recess, a pair of spaced electrodes in intimate contact with a surface of the film member, and a pair of connecting terminals extending through the said shank, each said terminal being in electrical contact with one of the said electrodes.

2,713,626

**WELDING MACHINE**

Alfred H. Lewis, Huntington Woods, Mich., assignor to Swift Electric Welder Company, Detroit, Mich., a corporation of Michigan

Application June 10, 1953, Serial No. 360,799  
14 Claims. (Cl. 219-4)



1. A welding machine having paired sets of clamping electrodes with a first set stationary and non-adjustable as a set and a second set movable and adjustable as a set relative to said first set comprising a machine body, jaw clamping mechanism mounted on said body, a first set of mating electrodes having one portion mounted on said body and the other portion carried by said clamping mechanism so as to receive and hold a part to be welded therebetween, a first independently adjustable lever arm having a free end and a secured end pivotally mounted on one side of said body, a ball joint carried by the free end of said first lever arm, a second independently adjustable lever arm having a free end and a secured end pivotally mounted on another side of said body, a ball joint carried by the free end of said second lever arm, a saddle over said body in spaced relation thereto, jaw clamping mechanism

carried by said saddle, a second set of mating electrodes having one portion mounted on said saddle and the other portion carried by said clamping mechanism so as to receive and hold a part to be welded therebetween; said saddle and electrodes thereon being universally tiltably supported on said lever arms via said ball joints so as to be universally locatable relative to said body and electrodes thereon via changing the position of the secured ends of said levers relative to said body and each other so as to align said second set of electrodes relative to said first set of electrodes; said saddle and electrodes thereon being rockably supported on said lever arm via said ball joints so as to advance said second set of electrodes thereon toward said first set of electrodes on said body; and mechanism adapted to rock said saddle.

2,713,627

**HAIR-BLOWING DEVICE**

Anastasios J. Kamataris, Clinton, Mass.  
Application June 24, 1952, Serial No. 295,324  
2 Claims. (Cl. 219-39)



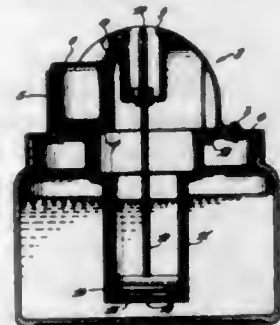
1. A barber's device for blowing and removing loose hair comprising a cylindrical housing adapted to be hand-manipulated and kept in the barber's pocket when not in use, an electrical motor in the housing, a cord for the motor, an open cup-shaped member at one end of the housing and connected thereto, a reduced nozzle on the member, a fan in the member driven by the motor and blowing air through the nozzle when the motor is energized, the nozzle being capable of being applied directly to the neck of the barber's customer by one-handed manipulation on the part of the barber to blow hair from the customer's neck without the use of brushes or towels and leaving the barber's other hand free to comb, etc., and the motor and fan being sufficiently powerful to provide a high speed blast of air to blow away the loose and cut hair.

2,713,628

**THERMALLY CONTROLLED VAPORIZER**

Aaron Barkin, New York, N. Y., assignor to Practical Electric Products, Inc., Bronx, N. Y., a corporation of New York

Application January 5, 1953, Serial No. 329,707  
3 Claims. (Cl. 219-40)



3. A thermally controlled electrically heated vaporizer for vaporizing medicated liquid comprising an upright vessel for holding an aqueous electrolyte, a dome of insulating dielectric material disposed over said vessel and having an upright container well integrally molded therein, a cylindrical vertically disposed vaporization well of plastic material secured to said dome in vapor-tight relation and disposed in said electrolyte and having an orifice in its base for passage of electrolyte from said vessel into the vaporization well, electrically heating rods secured to

said dome and disposed vertically in said electrolyte in said vaporization well for changing water into steam, a metal plug communicating between the interior of the container well and the interior of said dome, a metal container disposed in said container well and upon said plug, and a displaceable valve disc having a plurality of spacer legs floatably disposed in said vaporization well intermediate the bottom of said electrodes and the orifice disposed in the base of said well, whereby medicated liquid disposed in said container is continuously heated by said plug which in turn is heated by the steam confined in said dome and the flow of electrolyte solution into said vaporization well is continuous for continuous formation of steam without effecting a back pressure upon the surface of the electrolyte located in the vaporization well.

2,713,629

**LUMINOUS BODIES**

Walter V. Etzkorn, Oakland, Calif.  
Application September 5, 1950, Serial No. 183,186  
9 Claims. (Cl. 240-2.25)

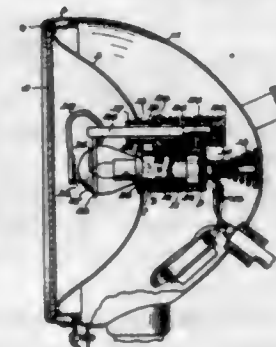


1. A luminous body comprising a flexible tube of light transmitting material adapted for bending into a desired shape, and a chain of electrical lamps extending through the tube, the chain comprising a pair of spaced conductors arranged in diametrically opposed relation within the tube, pairs of lead wires extending from the conductors toward one another, and lamps secured upon the lead wires and supported thereby substantially in central relation with respect to the tube, and the lamps being of a width substantially equal to one-half of the tube diameter and being spaced along the length of the tube sufficiently close to substantially illuminate the entire tube area.

2,713,630

**FLOODLIGHT WITH EMERGENCY QUENCHER FOR INCANDESCENT LAMP FILAMENT**

Earl M. Becker, Pittsburgh, and John J. Bridge, Turtle Creek, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application March 31, 1950, Serial No. 153,218  
3 Claims. (Cl. 240-11.3)



3. A floodlight comprising an electric socket, an incandescent lamp removably mounted therein and provid-

ed with a filament enclosed in a glass bulb, a filament quencher disposed in front of the bulb and spaced therefrom, a bulb crusher rigidly connected to the quencher and engaging the side of the bulb at only three circumferentially spaced points in front of its maximum diameter, and spring means for effecting relative movement of the quencher and lamp filament toward each other if the bulb is broken accidentally.

2,713,631

**DIRECT FLUORESCENT LIGHTING EQUIPMENT**

Anthony E. Spinetti, Brooklyn, N. Y., assignor to Solux Corporation, New York, N. Y., a corporation of New York

Application June 30, 1954, Serial No. 440,377  
3 Claims. (Cl. 240-51.11)

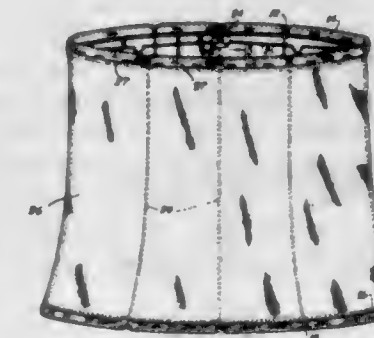


1. In combination, two socket carriers, each made of sheet metal and having an elongated bottom portion, relatively short, upwardly extending ends provided with flanges extending toward one another and upwardly extending, laterally spaced side flanges along one side edge of the bottom portion so as to form an elongated wireway, lamp sockets secured to the edge of the bottom portion opposite the side flanges, a reflector having longitudinally spaced pairs of downwardly offset prongs opposite one another and spaced transversely to receive the first mentioned flanges and spaced longitudinally slightly less than normal lamp length so as to space the sockets to accept the lamps, and a wireway forming trough extending between the socket carriers and opening into the socket carriers between the side flanges thereof.

2,713,632

**LAMP SHADE AND METHOD OF MAKING**

Earl Yale Fine, New York, N. Y.  
Application November 5, 1952, Serial No. 318,923  
8 Claims. (Cl. 240-108)



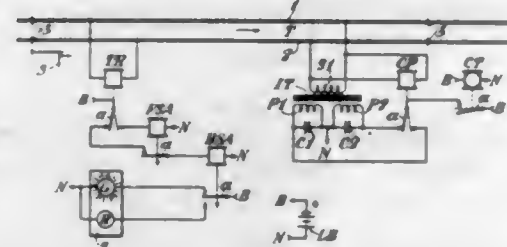
7. A lamp shade including a frame, said frame comprising a pair of hoops, one at the top and one at the bottom of the frame and a skeleton framework interconnecting said hoops, a fabric cover which is continuous in a vertical direction and is stretched over said frame, the upper and lower edges of said cover being folded around the top and bottom hoops respectively, and means constituting only a row of closely spaced staples connecting said folded over fabric cover edges to the fabric cover itself along lines parallel to and adjacent the hoops.



2,713,633

**CODED IMPULSE RAILWAY TRACK CIRCUITS**  
Harold G. Witmer, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application March 14, 1950, Serial No. 149,581  
20 Claims. (Cl. 246—34)



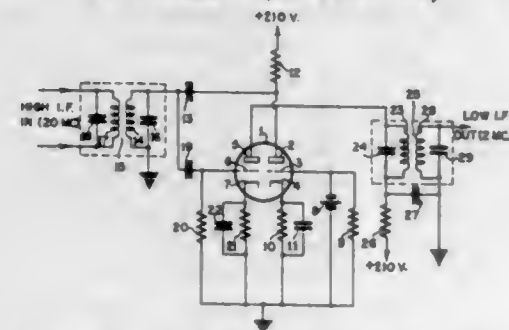
1. In combination, a transformer having a first and a second winding, a source of electrical energy, means for periodically supplying energy from said source to said first winding, and means responsive to the polarity of the energy induced in said second winding when the energy to the first winding is interrupted for reversing the direction of the flow of energy in said first winding.

2,713,634

**MIXER CIRCUIT**

Roy A. Beers, Jr., Audubon, N. J., and William L. Gensel, Drexel Hill, Pa., assignors to Radio Corporation of America, a corporation of Delaware

Application April 10, 1952, Serial No. 281,584  
4 Claims. (Cl. 250—20)



1. In a mixer circuit for a receiver, an electrode structure having a plurality of electrodes including an anode electrode, a resonant circuit intercoupling said electrodes for the generation of oscillatory energy, said energy appearing at said anode electrode, a parallel resonant circuit having substantial impedance at a selected harmonic of the frequency of said oscillatory energy but negligible impedance at said oscillatory energy frequency, means coupling one end of said last-named circuit to said anode electrode, means connecting the other end of said last-named circuit to ground, whereby oscillatory energy of said harmonic frequency appears in said parallel resonant circuit, means for supplying received signal energy to said parallel resonant circuit, a triode electrode structure having anode, cathode and control electrodes, means for applying the voltage across only said parallel resonant circuit to said control electrode as the sole signal input thereto, and an output circuit coupled to said last-named anode electrode.

2,713,635

**ELECTRON-CYCLOTRON DISCHARGE APPARATUS**

Gustav Weissenberg, Marburg (Lahn), Reinhart Schulze, Wetzlar (Lahn), and Friedrich Schlögl, Göttingen, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application December 26, 1950, Serial No. 202,774

In Germany December 19, 1949

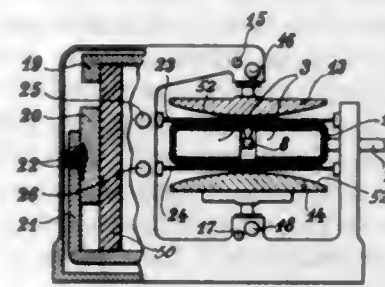
Public Law 619, May 13, 1955

Patent expires December 19, 1969

5 Claims. (Cl. 250—27)

1. An electron cyclotron comprising an evacuated casing forming a chamber, at least one pair of electrodes

in said casing, a magnet on each side of the casing forming a magnetic field around said electrodes, electric circuit elements connecting said electrodes with a source of high frequency oscillating current, said circuit elements including an electron emission element and a condenser



for deflecting the speeded up electrons at the outer edge of said magnetic field and means on each side of said electrodes between the latter and the said magnets for periodically varying the azimuthal field in the approximate proportion of 1:0.6, said means comprising adjustable sectors of ferromagnetic material.

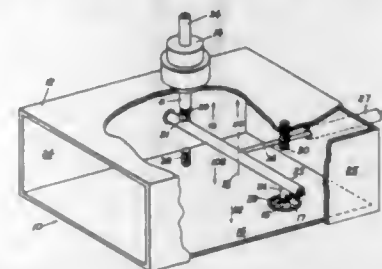
2,713,636

**BALANCED DETECTORS**

Frederic A. Jenks, Dedham, and Norman R. Wild, East Natick, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application February 27, 1951, Serial No. 212,932

6 Claims. (Cl. 250—31)



1. A balanced detector of electromagnetic energy comprising a section of waveguide, a conductive rod mounted between and electrically contacting the conductive walls of the waveguide, a pair of detector elements mounted on but insulated from the waveguide with one end of each in electrical contact with said rod inside said waveguide and their axes of conduction in the same transverse plane as the rod and perpendicular to it, and means to apply high frequency energy to the center of the rod.

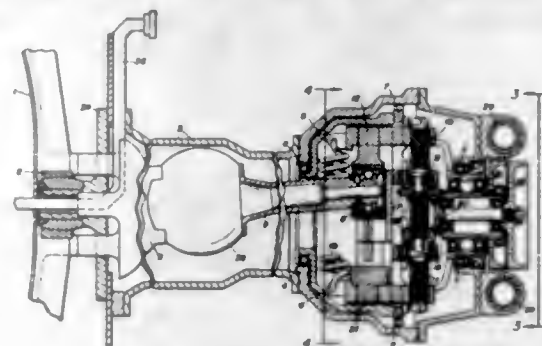
2,713,637

**ANTENNA REFLECTOR AND DRIVE**

John M. Wuert, Whittier, William D. Mullins, Jr., and Robert E. Smith, Downey, and Sydney J. Goldberg and Charles T. Wilson, Jr., Los Angeles, Calif., assignors to North American Aviation, Inc.

Application January 9, 1950, Serial No. 137,634

13 Claims. (Cl. 250—33.65)



1. Means for controllably directing radiant energy comprising a reflector, a lever attached rigidly to said reflector and extending therefrom, a predetermined mass positioned upon said lever, means for pivoting said lever, said reflector, and said mass about a non-centroidal pre-

selected point, and means for imparting a nutation to the center of percussion of said reflector, said lever, and said mass to thereby controllably direct radiant energy reflected by said reflector without creating reactions at said non-centroidal point.

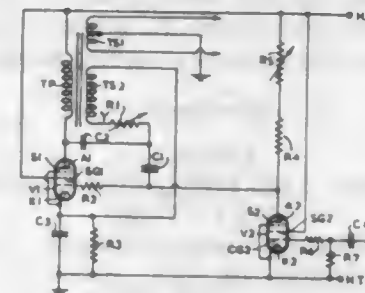
2,713,638

**SAW TOOTH CURRENT WAVE GENERATORS**

Leonard William Whitaker, Enfield, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain

Application October 26, 1948, Serial No. 56,608

Claims priority, application Great Britain January 9, 1948  
2 Claims. (Cl. 250—36)



1. A saw tooth current wave generator including an output valve having a cathode, an anode and at least a control grid therebetween, a source of anode potential, a transformer having a single primary winding connected between said anode and said source and two electrically separate secondary windings coupled to said primary winding, an output circuit connected to one only of said secondary windings fed with energy only thereby and a linearizing circuit comprising resistance and capacitance included in series with one another and with the other of said secondary windings in a series circuit extending between said control grid and said cathode, and a path including a rectifier in shunt across said capacitance, said rectifier being connected in said path with its unilaterally current conductive direction toward said cathode.

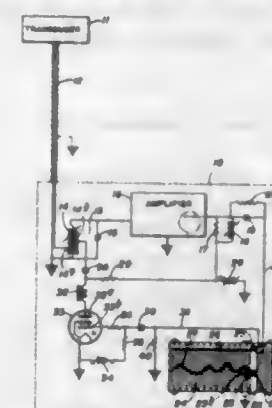
2,713,639

**SHOCK-EXCITED OSCILLATORY CIRCUIT**

Birt G. Blackman, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application February 21, 1950, Serial No. 145,329

4 Claims. (Cl. 250—36)



1. In combination: a single closed parallel resonant circuit to be shock-excited by application of a single potential pulse thereto, and pulse producing means comprising: a storage condenser and means for charging it; a switch element; an inductance; and a discharging circuit for said condenser comprising a closed series circuit containing exclusively a portion at least of said single resonant circuit, said condenser, said inductance, and said switch element; said inductance element being of such size relative to said storage condenser as to resonate therewith at a frequency approximately the same as and at least as high as the natural frequency of said resonant circuit.

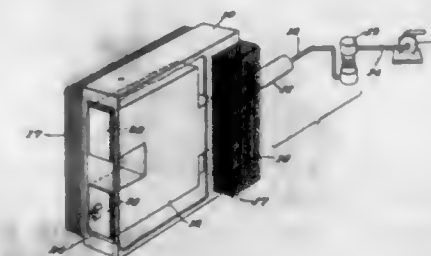
2,713,640

**ELECTRON CONTROL APPARATUS**

Howard W. Savage, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application August 8, 1945, Serial No. 609,661

8 Claims. (Cl. 250—41.9)



1. Oscillation suppressing means for high potential bodies disposed in a magnetic field comprising a shield adjacent the body and electrically negative relative to the body, said body and shield having relative conformations such that the electric field therebetween has directional components at an angle between 0° and 90° to the direction of the magnetic field and so that the resultant of the effect of the magnetic field and said components of the electric field on electrons has a direction toward the high potential body causing electrons to dump thereon, the said conformations being such as to physically inhibit the travel of electrons between the body and shield.

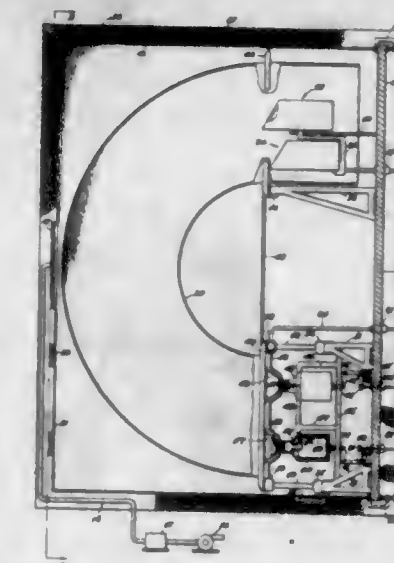
2,713,641

**CALUTRON STRUCTURE**

Byron T. Wright and Ernest O. Lawrence, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application April 25, 1946, Serial No. 664,734

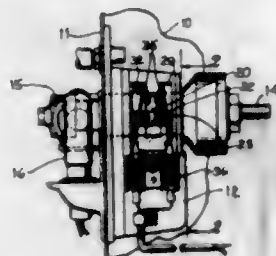
4 Claims. (Cl. 250—41.9)



1. In a calutron, an evacuated tank, an ion source disposed within said tank and having an elongated exit slot at one end thereof for the emergence of ions therefrom, an accelerating electrode having an elongated slot therein, means for fixedly mounting said electrode within said tank in a position adjacent said one end of said ion source with the slot of said electrode substantially aligned with the slot of said ion source, means for pivotally mounting said ion source for angular rotation about a fixed pivot axis, said pivot axis being aligned with and in close proximity to the slot of said ion source, and manually operable means for controlling from a point exterior to the tank the angular position of said source about its pivot axis.

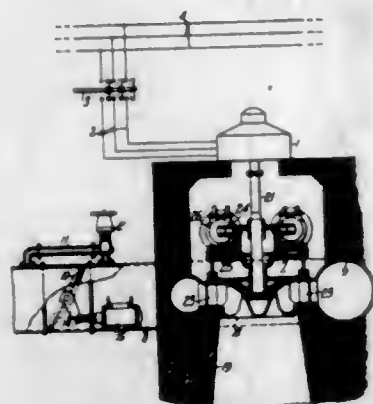


**2,713,642**  
**MOUNTINGS FOR PHOTO-CELLS FOR USE IN CONNECTION WITH A SOUND REPRODUCING MOTION PICTURE PROJECTING APPARATUS**  
 John S. Powers and John W. Lang, Jr., Chicago, Ill., assignors to De Vry Corporation, Chicago, Ill., a corporation of Illinois  
 Application November 30, 1950, Serial No. 198,352  
 3 Claims. (Cl. 250-200)



1. In combination, a mounting plate having a slot formed therein, said plate provided on one side thereof with laterally extending bosses intermediate the ends thereof and in corresponding relation to either side of said slot, said mounting plate having on its opposite sides and ends reversely extending locating slots for the locating of the plate on the stationary wall, a photo-cell adapted to be mounted on said plate adjacent said slot between said bosses, a mounting bracket fixed to the photo-cell in a predetermined position, said bracket having a medial portion embracing one side of the photo-cell and lateral extensions having return bends embracing a portion of the opposite side of the photo-cell, said lateral extensions being perforated for the projection of mounting screws therethrough and into said bosses for connecting said bracket to said plate.

**2,713,643**  
**SPEED CONTROL OF HYDRAULIC TURBINE FOR AN ELECTRIC GENERATOR**  
 William J. Rheingans, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
 Application January 21, 1953, Serial No. 332,331  
 6 Claims. (Cl. 307-85)



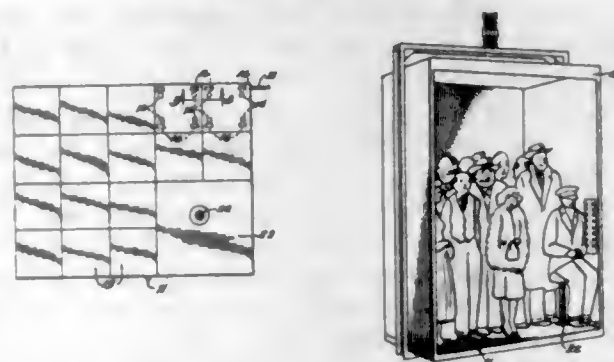
1. In a hydroelectric power plant comprising a synchronous generator, means for connecting said generator to an electrical transmission system having a predetermined frequency, a hydraulic turbine drivingly connected to said generator, a penstock connected to said turbine for delivering motive fluid to said turbine, a main valve in said penstock, means for bypassing penstock motive fluid around said main valve, and a valve in said bypass means; a method of starting and bringing said generator up to a speed corresponding to the frequency of the system which comprises the steps of adjusting said main valve to admit motive fluid to said turbine for starting and rotating said turbine at less than said speed, and then adjusting said bypass valve to admit additional motive fluid to said turbine to bring said turbine up to said speed.

**2,713,644**  
**SELF-POWERED SEMICONDUCTOR DEVICES**  
 Paul Rappaport, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
 Application June 29, 1954, Serial No. 440,109  
 9 Claims. (Cl. 307-88.5)



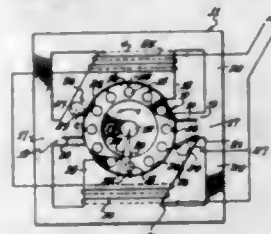
1. A semiconductor device including in combination a body of semiconductor material, rectifying means including a portion of said body and an electrochemical power source for said device in contact with said body and including said body as one electrode element thereof.

**2,713,645**  
**AUTOMATIC CONTROL MECHANISM FOR ELEVATORS**  
 Charles W. Lerch, Wilmette, Ill.  
 Application March 19, 1953, Serial No. 343,370  
 6 Claims. (Cl. 307-119)



6. An elevator floor comprising a plurality of sections capable of limited independent movement in the vertical direction, a switch for each such section, means mounting said switches relative respectively to said floor sections operative to cause actuation of one of said switches responsively to a substantial increase in the weight on the floor section associated therewith, and circuit means connecting all said switches together and providing terminals adapted for connection to an external circuit, said circuit means being arranged to provide a different electrical impedance between said terminals when all of said switches are actuated responsively to weight on said floor sections than when less than all of said switches are thus actuated.

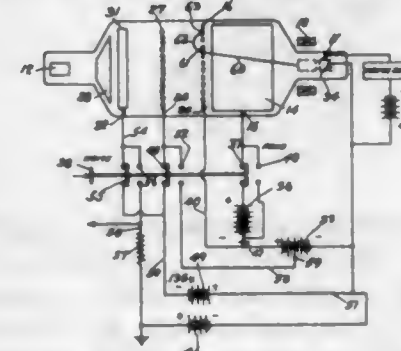
**2,713,646**  
**SELF-STARTING ALTERNATING CURRENT MOTORS**  
 Henry H. Hammerstrom and Lee B. Woodruff, Los Angeles, Calif.  
 Application April 15, 1954, Serial No. 423,411  
 19 Claims. (Cl. 310-172)



1. An electric motor comprising two relatively rotatable sections having bodies formed of magnetic material, one of said sections including a plurality of poles of magnetic material having first ends adjacent the magnetic material of the other section and having base ends connected to the body of said one section, and winding means energizing said poles and setting up a mag-

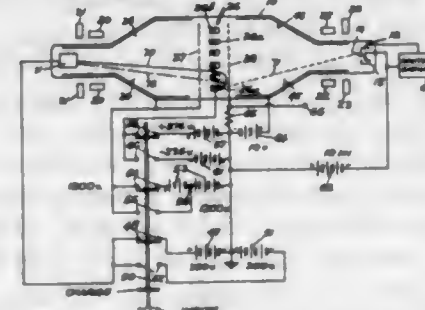
netic field extending therebetween through the magnetic material of the other section, said other section having winding means coactive with said magnetic field to cause relative rotation of the sections, said first mentioned winding means being adapted to be energized by alternating current and to create alternating magnetic polarities in said poles whose magnetic strengths rise and fall in phase, said one section including magnetic shunt path means through which some of the magnetic field of at least one of said poles is shunted therefrom back to the body of said one section along a path other than through said other section or through said base end of that pole, said shunt path means being magnetically unsymmetrical circularly with respect to each pole from which a shunt path is formed and being adapted to become saturated with flux during each current cycle at a point such that the flux shift resulting solely from such saturation of the unsymmetrical shunt path means is sufficient by itself to start rotation of one of said sections from a standstill.

**2,713,647**  
**BEAM DISPLACEMENT COMPENSATION IN IMAGE STORAGE TUBES**  
 Rudolf C. Hergenrother, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
 Application May 12, 1951, Serial No. 226,035  
 6 Claims. (Cl. 315-12)



1. In an electron storage device, a storage target, means providing an electron beam for scanning said target, means to cause a writing electron beam to impinge on the target in one area and build up a charge at another area somewhat removed from the impingement area, means including a source of potential to produce and deflect a reading electron beam to discharge said charged areas, switching means to selectively actuate as desired the reading and writing means, and means under control of said switching means to reduce the source of potential of said scanning means to cause the reading electron beam to impinge on the target in the area where the charge was built up.

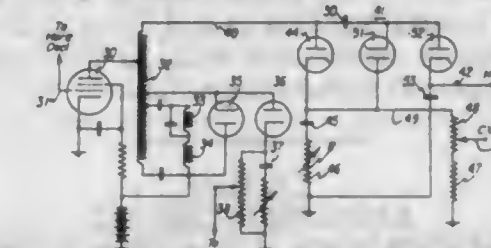
**2,713,648**  
**IMAGE STORAGE DEVICES**  
 Bernard C. Gardner, Los Altos, Calif., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
 Application March 6, 1953, Serial No. 340,747  
 7 Claims. (Cl. 315-12)



1. In an electronic charge storage device, a perforated storage target having an electrically conductive side and

a dielectric side, said dielectric material being of a type that becomes conductive when bombarded by electrons, means providing a first electron beam for scanning said dielectric side to produce a charge thereon, means providing a second electron beam of high velocity for scanning said dielectric side to render said dielectric conductive in the area of impingement thus reducing the charge on the successive areas of impingement to produce a charge pattern on said dielectric side, and means providing a third electron beam to scan said conductive side.

**2,713,649**  
**VOLTAGE CONTROL CIRCUIT**  
 Norman W. Parker, Park Forest, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois  
 Application April 8, 1952, Serial No. 281,177  
 6 Claims. (Cl. 315-13)



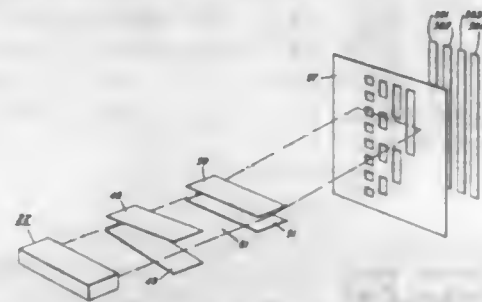
1. A high voltage power supply for a television picture tube of the type having at least one electron beam to be converged within the tube, said picture tube having an anode to be energized by a first high potential direct current voltage of positive polarity for accelerating the electron beam, said picture tube also having a convergence electrode responsive to a second lower high potential direct current voltage of positive polarity for converging the electron beam, the characteristics of the tube being such that changes in value of one of the voltages referred to above require non-linear changes in the other of the voltages to preserve convergence of the beam, the power supply including in combination, a first source of direct current voltage including a rectifying device and series-connected capacitive means and impedance means connected in series with said rectifying device, with the direct current voltage from said first source appearing across said capacitive and impedance means, a second source of direct current voltage including a rectifying device with capacitive means connected in series therewith and across which capacitive means the direct current voltage from said second source appears, said second source thereby having relatively low internal impedance as compared with said first source, means for connecting said first source to the convergence electrode, means for connecting said second source to the anode, and means interconnecting said first source to said second source so that variations in the voltage of said second source produce a current flow through said capacitive and impedance means of said first source to produce potential changes in the voltage of said first source non-linearity related to variations in potential of the voltage of said second source.

**2,713,650**  
**ELECTRON DISCHARGE DEVICES**  
 Raymond W. Sears, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
 Application November 20, 1951, Serial No. 257,365  
 20 Claims. (Cl. 315-21)

1. An electron discharge device comprising target means, means opposite thereto for projecting an electron beam thereagainst, means for deflecting the electron beam in a direction perpendicular to the direction of the electron beam, said deflection means comprising a first pair of deflection plates, means for aligning the electron beam with said target means, said aligning means comprising a pair of tilt deflection plates, said plates being positioned



on opposite sides of the electron beam and being closer together at their one end at right angles to the direction of the electron beam than at their other end at right angles to the direction of the electron beam, and means for applying a biasing potential to said tilt plates whereby

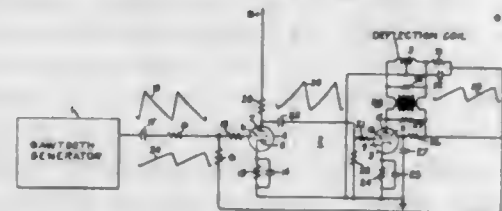


the electron beam is deflected towards one of said plates more at one end of said plates than the other, and means applying a biasing potential to said first pair of deflection plates returning the electron beam at the center line of said tilt plates to its undeflected position.

2,713,651

## AMPLIFIER CIRCUIT

William N. Coffey, Scotia, N. Y., assignor to General Electric Company, a corporation of New York  
Application March 23, 1951, Serial No. 217,217  
5 Claims. (Cl. 315-27)

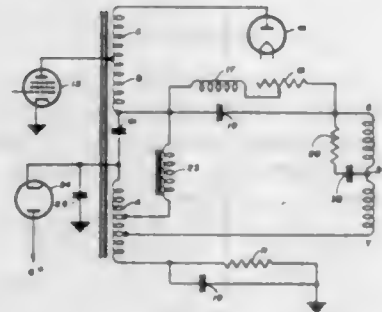


1. In combination, an amplifier having an input circuit and an output circuit including an inductive element, a series combination of a resistance and capacitance in shunt with said inductive element, means for applying a linear sawtooth wave of voltage to said input circuit, circuit means connecting the output voltage developed across said capacitance to said input circuit in phase opposition to said sawtooth wave, the time constant of said series combination being substantially equal to the time constant of said inductive element, whereby said linear sawtooth wave of voltage is reproduced as a linear sawtooth wave of current in said inductive element.

2,713,652

## CONTROLLED BEAM CENTERING DEFLECTION CIRCUIT

Arthur Donald Baylor, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware  
Application February 25, 1954, Serial No. 412,574  
6 Claims. (Cl. 315-27)



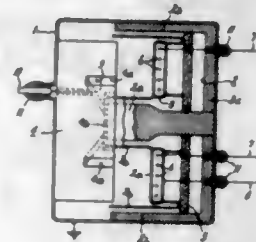
1. In a television receiver system of the reaction scanning type, the combination comprising an autotransformer having a first coil portion and a separate second coil portion, both coil portions being wound on a common core, blocking capacitance means coupling the adjacent coil ends of said coil portions so as to form an

A.-C. path therebetween, rectifier means having an anode D.-C. coupled to the positive terminal of a direct current source and a cathode D.-C. coupled to a tap on said second coil portion, deflection coils D.-C. coupled between a tap on said first coil portion and a tap spaced below the rectifier cathode tap on said second coil portion, a width inductance D.-C. coupled between a tap on said first coil portion and a tap on said second coil portion, a B boost circuit comprising a resistance capacitance parallel circuit connected between a tap on said second coil portion and the negative terminal of said direct current source, and a driver tube having an anode coupled to a tap on said first coil portion and a cathode coupled to the negative terminal of said direct current source, said coil taps being adjusted to provide D.-C. current ampere turns in the first coil portion substantially equal to the D.-C. current ampere turns in the second coil portion.

2,713,653

## HIGH FREQUENCY MAGNETRON

Elmer D. McArthur, Scotia, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application January 18, 1951, Serial No. 206,611  
5 Claims. (Cl. 315-39.53)

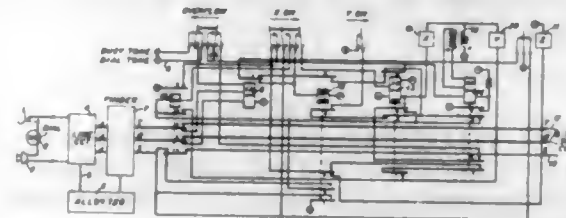


1. An electron discharge device of the magnetron type comprising an evacuated envelope, an annular disk cathode therein, means to heat said cathode, a circular anode in spaced relation with said cathode provided with resonating means therein, output coupling means in conjunction with said anode, and means disposed within the evacuated envelope for establishing a radial magnetic field in the space between said cathode and said anode.

2,713,654

## SIGNALING SYSTEMS

Theodor Frankel, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application January 5, 1952, Serial No. 265,067  
3 Claims. (Cl. 317-152)

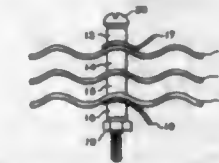


2. In a signaling system, a relay connected in a line including a large plurality of substations or having excessive leakage, a second relay in a local circuit controlled by said first relay, said second relay having an auxiliary winding, a magnetic device responsive to comparatively strong currents operated by said second relay, a transformer having one of its windings connected in series with said magnetic device and having another of its windings connected to said auxiliary winding of said second relay whereby the rise of current in said magnetic device responsive to the operation of said second relay may be transformed into a surge for fortifying and sustaining the operation of said second relay at least until said magnetic device has been operated.

2,713,655

## SELENIUM RECTIFIER

Stanley Grubman, Long Branch, N. J.  
Application January 4, 1951, Serial No. 204,455  
15 Claims. (Cl. 317-234)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

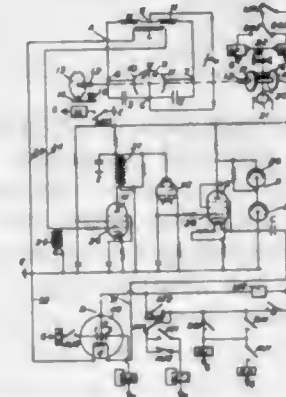


1. A metallic rectifier comprising two metallic plates each having one side coated with a rectifying compound, said plates mounted in a stack with the one side of one of said plates electrically connected to the other side of the adjacent plate, one of said plates being corrugated, and terminals for said rectifier in contact with the two outer surfaces of the stack.

2,713,656

## ELECTRIC MOTOR FOLLOW-UP SYSTEM

Stanley George Meadows, Hornchurch, and Robert Norman Saxby, Liverpool, England, assignors to Southern United Telephone Cables Limited, Dagenham Dock, England, a British company  
Application April 2, 1953, Serial No. 346,316  
Claims priority, application Great Britain April 8, 1952  
3 Claims. (Cl. 318-29)



1. In an electric circuit comprising a circuit element adjustable to obtain a balanced condition and a circuit branch across which the potential difference becomes zero at balance, the arrangement of a polarized relay having a centre zero open position and two side contact-making positions, means for applying to the said relay a current derived from said potential difference, a reversible driving means operating on said adjustable circuit element and a control circuit for said driving means, said control circuit including said relay contacts, means for reversing the sense of said drive at the making at one of the side contacts of said relay and thereby to cause the making of the second of said side contacts, a stopping circuit for said drive and means for preparing said stopping circuit operated by the relay in the second contact closed position, said stopping circuit being operative to stop the drive at the breaking of the second of the side contacts of said relay.

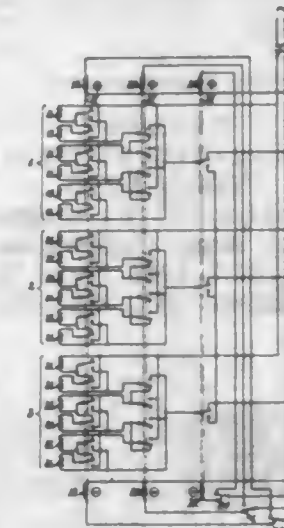
2,713,657

## VARIABLE SPEED MOTORS CONTROLLED BY ELECTRONIC TUBES

Pierre Marie Gabriel Toulon, New York, N. Y., assignor, by direct and mesne assignments, of seventy-five per cent to Products and Licensing Corporation, New York, N. Y., a corporation of Delaware, and twenty-five per cent to Nelson Moore and William D. Hall, joint tenants  
Application October 4, 1950, Serial No. 188,297  
13 Claims. (Cl. 318-225)

1. Apparatus for controlling the speed of a variable speed electric motor, said motor including a plurality of separate windings each having similar characteris-

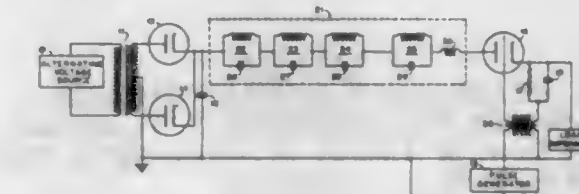
tics, comprising a source of variable frequency constant amplitude voltage coupled to said windings, and switch-



2,713,658

## POWER SUPPLY FILTER NETWORK

Arthur A. Varela and Robert C. Guthrie, Washington, D. C.  
Application November 26, 1946, Serial No. 712,332  
6 Claims. (Cl. 320-1)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

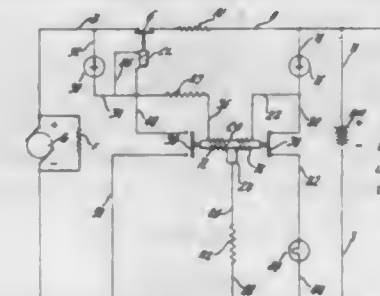


1. In combination, a storage capacitor, a network resonant at a plurality of harmonically related frequencies and a dissipative load serially coupled across the storage capacitor, the capacitor and load having a discharge time constant, the fundamental frequency of the network having a period much less than the discharge time constant of the capacitor and load, hard tube switch means operative to discharge the capacitor through the network into the load, and means effecting conduction of the tube for a limited period substantially equal to the fundamental period.

2,713,659

## BATTERY CHARGING CONTROL

Lauren L. Johnson, Westchester, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application January 4, 1954, Serial No. 401,752  
5 Claims. (Cl. 320-40)

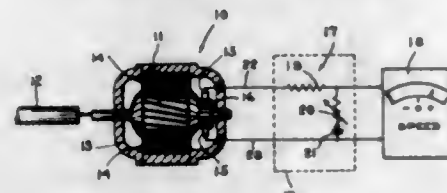


1. In combination with a battery and a charging generator, means responsive to a predetermined difference between the voltages of said battery and said generator to connect said generator across said battery comprising a relay controlling switching means connected between said generator and battery, a first energizing winding for said generator.



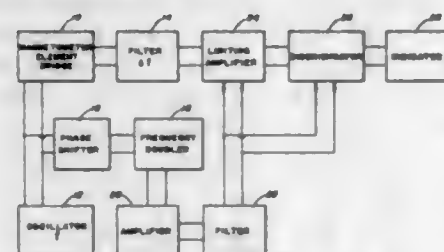
relay connected across said generator, a second energizing winding for said relay connected across said battery, and means to prevent other than unidirectional current flow through said windings.

**2,713,660**  
**ELECTRIC GENERATOR SYSTEM FOR SPEED INDICATORS**  
Sidney Davis, Brooklyn, N. Y., assignor to American Bosch Arms Corporation  
Application April 5, 1951, Serial No. 219,417  
2 Claims. (Cl. 322-96)



1. In a device of the character described, a tachometer generator of the type developing a voltage which is a measure of its driven speed, said generator having a constant magnetic field and an armature rotatable in either direction mounted in said field, a load electrically connected in a circuit with the said armature, a network comprising resistance and a rectifier in series with each other connected across said load, whereby the voltage across the load will have the same value for either direction of rotation at any one speed.

**2,713,661**  
**PHASE-SHIFT MAGNETOMETER**  
Otto H. Schmitt, Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of the Navy  
Application August 7, 1944, Serial No. 548,488  
6 Claims. (Cl. 324-43)

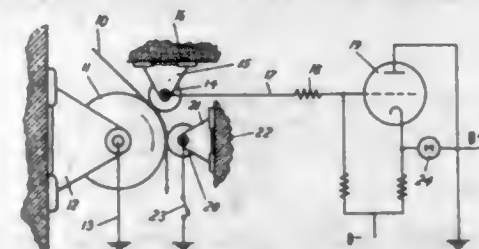


1. A phase-shift magnetometer system comprising a balanced magnetometer; means for driving said magnetometer cyclically; a filter for isolating sensitive components in the output of the magnetometer of twice the drive frequency; means for generating a reference signal of twice the drive frequency and in phase quadrature with the sensitive output of the filter, this signal having an amplitude at least three times that of the signal component at the output of the filter due to applied field; an amplitude-limiting amplifier of constant internal phase shift the output phase of which varies only with the phase of the input thereto, arranged to receive the filter output and to amplify the sum of the reference signal and the output signal of the filter; and means for comparing the phase of the amplifier output with that of the reference signal.

**2,713,662**  
**MEANS FOR MEASURING MOISTURE CONTENT OF TEXTILES**  
Raymond S. Hart, Brooklyn, N. Y.  
Application June 24, 1953, Serial No. 363,858  
1 Claim. (Cl. 324-65)

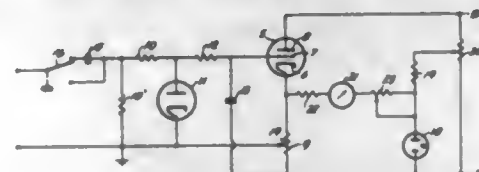
A moisture measuring device of the character described comprising a combination of a metallic roller; a textile web running over said metallic roller; a pair of metallic

contacting rollers in operable connection with said textile web on said first roller, said pair of contacting rollers being axially parallel to said first roller and being furthermore in pressure contact with the textile web on same; a



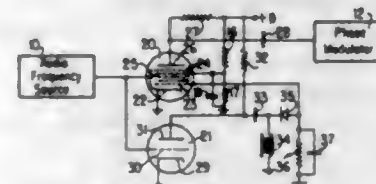
sensitive electronic indicating circuit permanently connected to one of said contacting rollers, said first roller being permanently connected to ground and a switch connecting said second contacting roller to ground when desired.

**2,713,663**  
**VACUUM-TUBE VOLTMETER**  
John R. Cabbe, Bayside, N. Y., assignor to Servo Corporation of America, New Hyde Park, N. Y., a corporation of New York  
Application June 14, 1952, Serial No. 293,572  
1 Claim. (Cl. 324-123)



In a vacuum-tube voltmeter, a vacuum tube including a cathode and a grid and an anode, a cathode impedance with a selectively variable intermediate connection, B-supply means including a positive connection to said anode, means including a connection from said cathode impedance to the negative side of said B-supply means, rectifying means connected at one terminal to said grid, the other terminal of said rectifying means being connected to said variable connection of said cathode impedance, signal-input connections across said rectifying means, whereby said tube may conduct for zero voltages applied to said rectifying means, a voltage divider connected across said B-supply means, voltage-regulating means across a divided part of said divider, said divided part extending to the negative terminal of said divider, meter means connected to said voltage-regulating means on the positive side thereof and connected to said cathode impedance on the positive side thereof, whereby said meter means may be responsive to the difference in potential between that provided by said voltage-regulating means and that developed across said impedance, and a variable impedance in series with said meter means, whereby the sensitivity of said meter means may be adjusted independently of said adjustment for the reference input-voltage indication.

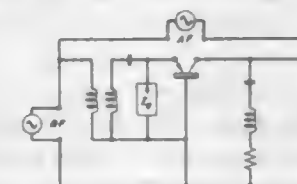
**2,713,664**  
**LIMITER FOR PHASE MODULATION**  
Henry Magnuski, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois  
Application April 2, 1948, Serial No. 18,633  
5 Claims. (Cl. 332-18)



1. A phase modulation transmitter including circuits and apparatus for modulating the phase of alternating

current the mean frequency of which is substantially constant, said circuits and apparatus including a phase modulator portion and a path wherein modulation energy flows; a variable gain amplifier in said modulation energy path, said amplifier comprising an electron discharge device with a gain control grid, a cathode and an anode; means for automatically controlling the gain of said amplifier by said modulation energy, said gain being reduced to a greater extent by strong high frequency modulating energy than by strong low frequency modulating energy, said means comprising a rectifier in a rectifier load circuit including a resistor connected between the rectifier anode and cathode, a connection between the rectifier anode end of said resistor and the grid of the amplifier device, a connection between the rectifier cathode end of said resistor and the cathode of the amplifier device, a network which attenuates low modulation frequencies to a greater extent than high modulation frequencies coupled to said rectifier, and means for impressing modulation components on said network; and means connecting said anode of said electron discharge device to said phase modulator portion for applying the controlled output of said device to said modulator portion for phase modulating the alternating current, with the deviation of the modulated current from the mean frequency thereof being limited.

**2,713,665**  
**TRANSISTOR MODULATOR CIRCUITS**  
Gordon Ralsbeck, Morristown, and Robert Lee Wallace, Jr., Plainfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application November 9, 1950, Serial No. 194,837  
8 Claims. (Cl. 332-31)

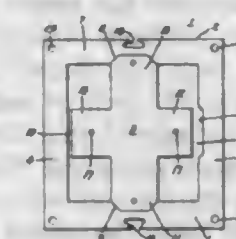


1. In combination with a source of carrier signals to be modulated and a source of modulating signals, each of said sources having two terminals, a transistor modulator which comprises a transistor having an emitter electrode, a collector electrode, and a base electrode, said transistor being characterized by collector output current which is in phase with its input emitter current, and an autotransformer having two extreme terminals and an intermediate terminal, said autotransformer and said modulating signal source being connected, by way of the extreme autotransformer terminals, in series between the emitter electrode and the collector electrode, said intermediate autotransformer terminal being directly connected to the base electrode, the two terminals of said carrier signal source being connected, respectively, to the base electrode of the transistor and to that terminal of the modulating signal source which is the more remote from the collector electrode of the transistor.

**2,713,666**  
**REACTOR**  
Wayne Lee Roy Henderson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York  
Application February 19, 1954, Serial No. 411,440  
4 Claims. (Cl. 336-160)

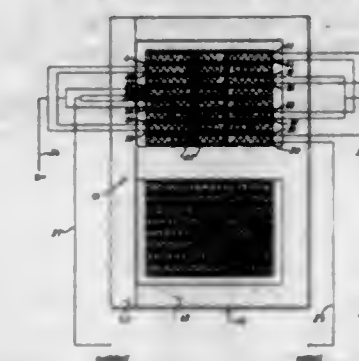
1. A reactor comprising a shell type core member having a yoke portion, said yoke portion having two spaced side leg portions and end portions respectively joining said side leg portions, and a center leg portion arranged with its ends respectively joining said yoke portion end portions, said yoke portion respectively defining two coil

windows with said center leg portion, one of said leg portions having a projection extending into one of said coil windows toward another leg portion and defining an air gap therewith, one of said leg portions having another projection extending into the other of said coil windows toward another leg portion and defining an air gap therewith, said projections being of unequal length, one of



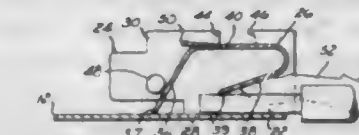
said leg portions toward which one of said projections extends having a notch formed therein, said center leg portion being selectively positionable so that either the longer or shorter projection is adjacent said notch whereby said air gaps may selectively be made of equal or unequal width; and a pair of reactor coils respectively positioned on said projections and respectively arranged in said coil windows.

**2,713,667**  
**AUDIO FREQUENCY TRANSFORMER**  
Donald O. Schwennesen, Skokie, Ill., assignor to Chicago Standard Transformer Corp.  
Application December 21, 1953, Serial No. 399,551  
1 Claim. (Cl. 336-183)



A transformer consisting of full length primary and secondary windings annularly disposed the one upon the other in the following manner, an innermost first primary, a second secondary, a third primary, a fourth secondary, a fifth reversely wound secondary, a sixth primary, a seventh reversely wound secondary, and an eighth primary, all of said windings having inner and outer terminals respectively and connected as follows; the first, sixth, third and eighth primary windings are connected in series with the outer terminals of an inner winding connected to the inner terminal of an outer winding, the second and seventh secondary windings connected in parallel to each other and in series with the parallel connection of the fourth and fifth secondary windings.

**2,713,668**  
**QUICK DETACHABLE ELECTRICAL CONNECTOR**  
Joseph S. Gibilisco, New Britain, Conn., assignor to The Hart Manufacturing Company, Hartford, Conn., a corporation of Connecticut  
Application June 21, 1951, Serial No. 232,851  
2 Claims. (Cl. 339-95)



1. An electrical terminal post comprising a generally cup-shaped insulated housing having a rectilinear well therein, a generally U-shaped frame disposed within said well, said frame having a bottom wall arranged to re-



ceive against its upper surface a longitudinally disposed wire and the closed end of said housing defining an aperture for insertion of a conducting wire adjacent the upper surface of said bottom wall, an electrical conductor connected to the frame and extending from the open end of said well, a generally U-shaped spring element having depending legs and a connecting web secured to the side walls of the frame adjacent the upper edges thereof, said legs being disposed at different distances from the closed end of the housing, said legs being biased toward said bottom wall of the frame, each of said legs transversely engaging the upper surface of said bottom wall and extending in approximately the same direction at an acute angle thereto, means on the side walls of said frame engaging the leg farthest from the closed end of the housing to prevent pivoting movement thereof in one direction relative to said frame, the other of said legs having a free end arranged to engage the conducting wire and hold the same against the upper surface of said bottom wall, and lever means integrally formed on said other leg along one side edge thereof and extending outwardly from said frame adjacent the conducting wire, the closed end wall of said housing having a slot receiving the free end of said lever therethrough, the free end of said lever being operable externally of said housing to pivot said other leg out of engagement with the conducting wire and whereby said conducting wire may be removed longitudinally from said housing.

2,713,669

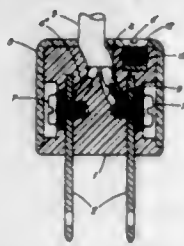
## PLUG CONNECTOR

Herbert Cahn, Asbury Park, N. J.

Application March 16, 1953, Serial No. 342,760

1 Claim. (Cl. 339-105)

(Granted under Title 35, U. S. Code (1952), sec. 266)



An electric power cord termination consisting of an insulating body having a generally rectangular parallelepiped form, one face of said body having a centrally located entrance hole leading to a channel which branches into two smaller diverging channels, said diverging channels terminating in openings in opposite surfaces of the body, said opposite surfaces intersecting said entrance hole surface, adjacent to said terminating openings two machine screws respectively fitted into two parallel conductive metal blades molded into said body but projecting outside from its surface opposite said entrance hole, adjacent to said entrance hole and entering the same surface as said entrance hole a tapped metal insert with an engaging machine screw for cover attachment, said body so dimensioned as to permit free passage, into the entrance hole and through the channels, of a stripped two conductor power cord, the bare conductor ends of said cord respectively secured under the heads of two machine screws fitted into said two blades, and a detachable insulating cover for said body, of a generally rectangular parallelepiped form, open on one end, dimensioned to fit snugly over said body, leaving exposed that face of said body from which said blades protrude, that end of said cover opposite said open end having two circular holes, the first to provide clearance for said power cord and the second to provide clearance for said cover attachment screw, said power cord clearance hole being sufficiently misaligned from said entrance hole in said body to clamp against said power cord threaded through both said power cord clear-

ance and entrance holes with said cover drawn up securely over and against said body by full engagement of said cover attachment screw.

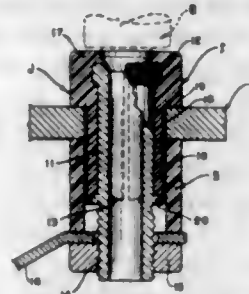
2,713,670

## ELECTRICAL JACK

Richard C. Koch, Denver, Colo.

Application June 3, 1950, Serial No. 166,049

1 Claim. (Cl. 339-126)



In an electrical jack structure for mounting in an opening of a panel, an elongated member of electrical conducting material having a smooth walled socket open at one end to snugly receive in a slidable manner an electrical plug when inserted therein, said member having an annular flange at the open end of the socket and at the other end being provided with external threads, electrical insulating material permanently carried by molding same on the elongated member in surrounding relation to the socket end including the flange, the outer open end of the socket being flared outwardly and the insulating material overlying the end surface of the elongated member beginning at the end of the flared surface and extending outwardly a substantial distance to provide thick insulation surrounding the open end of the socket, said insulating material also being so formed as to provide a shoulder inwardly of the annular flange to abut the panel adjacent the opening when the jack is inserted in the opening, the socket in the elongated member extending inwardly beyond the shoulder, and a nut cooperating with the threads and a sleeve, engageable with the panel, surrounding a part of the member and insulating material remote from the open end of the member for clamping the shoulder against the panel.

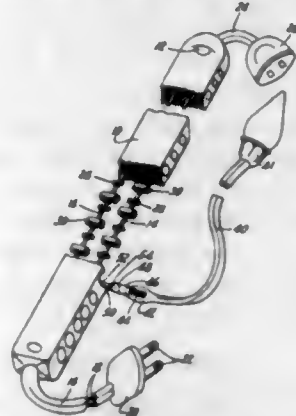
2,713,671

## SEPARABLE ELECTRICAL CONNECTOR

Russell G. Hunt, South Bend, Ind.

Application October 7, 1952, Serial No. 313,494

2 Claims. (Cl. 339-157)



1. A separable electrical connector comprising a body formed of insulating material and having a pair of electrical conductors imbedded in spaced relation therein, said body having a passage therein, parts of said conductors being located in said passage, and an electric cord having a stud formed of insulation material at one end adapted for snug frictional fit in said passage, said stud mounting longitudinally spaced exposed conductors engageable with said first named conductors, said first named conductors including split metal tubes of different cross-sectional areas lining longitudinally spaced por-

tions of said passages and each engageable by one of said stud-mounted conductors, said passage and stud each having end portions of different cross-sectional size and shoulders therebetween forming stops to accurately position said respective conductors in engagement.

2,713,672

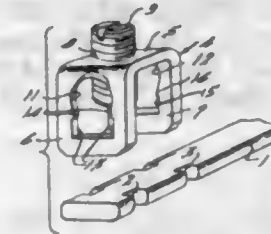
## SOLDERLESS CONNECTOR FOR BUS BAR AND WIRE

Wallace T. Allen, Dearborn, Mich., assignor to Square D

Company, Detroit, Mich., a corporation of Michigan

Application November 1, 1952, Serial No. 318,228

9 Claims. (Cl. 339-244)



1. A solderless connector comprising a bus bar, a first pair of aligned notches in said bus bar, a second pair of aligned notches in said bus bar spaced from said first pair of notches, a generally U-shaped member having a base portion and a pair of legs projecting therefrom, aligned apertures in said legs whereby said bus bar may project through both the legs of said U-shaped member, said first pair of notches disposed in engagement with the surfaces defining the aperture in one of said legs, said second pair of notches disposed in engagement with surfaces defining the aperture in the other of said legs, a threaded aperture in said base portion of said U-shaped member, and a screw operable in said threaded aperture to clamp a cable portion in electrical and mechanical connection with said bus bar.

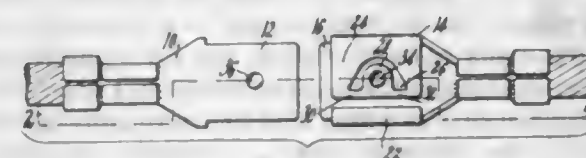
2,713,673

## ELECTRIC CONNECTOR, FEMALE MEMBER

Hugh W. Batcheller, Newton Highlands, Mass., assignor to Ark-Les Switch Corporation, Watertown, Mass., a corporation of Massachusetts

Application August 28, 1952, Serial No. 306,866

1 Claim. (Cl. 339-258)



An electric connector member comprising a piece of stiffly resilient sheet metal bent to shape, said member having a flat floor portion with upstanding side walls and intumed elements overhanging said floor portion, one of said intumed elements extending substantially more than half way across said floor and having a U-shaped aperture therein forming a tongue extending in the opposite direction across the median of the floor, the other said intumed element being a narrow rigid flange.

2,713,674

## FLIP-FLOP CIRCUIT USING A SINGLE CORE

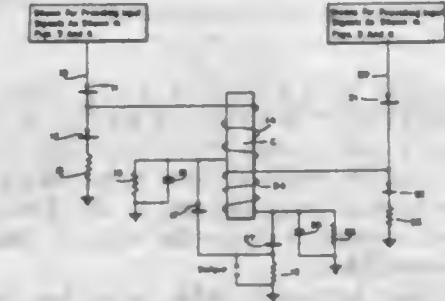
William F. Schmitt, Philadelphia, Pa., assignor to Remington Rand Inc., Philadelphia, Pa., a corporation of Delaware

Application June 4, 1954, Serial No. 434,464

15 Claims. (Cl. 340-167)

1. A flip-flop circuit comprising a magnetic core which has substantially saturated and unsaturated portions of its hysteresis loop, first and second pulse producing means which produce trains of pulses which have interruptions that indicate that the circuit is to be flipped from one

stable state to another, means for applying magnetomotive force to said core in response to each pulse from said first and second pulse producing means, means whereby the core presents a different one of said portions to each successive pulse when the sequence of pulses applied to the first named means changes and presents the same



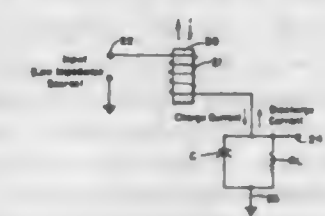
2,713,675

## SINGLE CORE BINARY COUNTER

William F. Schmitt, Philadelphia, Pa., assignor to Remington Rand Inc., Philadelphia, Pa., a corporation of Delaware

Application June 4, 1954, Serial No. 434,465

8 Claims. (Cl. 340-168)



1. A binary counter comprising a core of magnetic material exhibiting a substantially rectangular hysteresis loop, a coil wound on the said core, a source of input pulses coupled to one end of said coil, and a capacitor coupled to the other end of said coil, whereby said capacitor is selectively charged through said coil by said input pulses and said capacitor passes a reverse discharge current through said coil between successive ones of said input pulses thereby to change selectively the operating point of said core on said hysteresis loop.

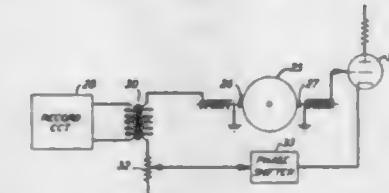
2,713,676

## MAGNETIC RECORDING SYSTEMS

Howard M. Fleming, Jr., Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application August 30, 1951, Serial No. 244,367

1 Claim. (Cl. 340-174)



In a magnetic recording system wherein recording and playing back are conducted simultaneously, the combination of a recording head, a moving member having a recording track spot magnetized by said recording head, a playback head for scanning said track for spot magnetizations, a record circuit for driving said record head, including an amplifier, a playback circuit driven by said playback head, including an amplifier, a potentiometer connected to have applied to its tap a desired



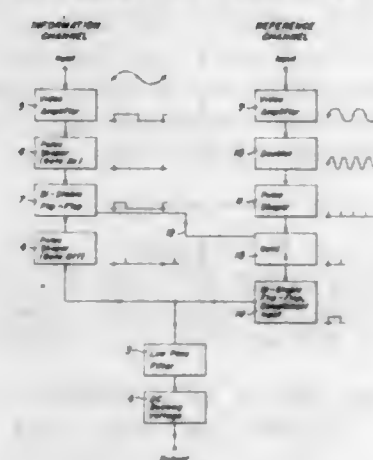
percentage of the output of the first said amplifier, and a phase shift network connected to said tap and to the second said amplifier to bias the latter, the potentiometer and the phase shift network being adjusted to overcome, by said bias, the effect on the playback amplifier of a flux field radiated by the record head and cut by the playback head.

2,713,677

# METHOD AND APPARATUS FOR DISCRIMINATING FREQUENCY MODULATED RECORDS

James H. Scott and James W. Valentine, Albuquerque, N. Mex., and William Gross, San Diego, Calif., assignors, by mesne assignments, to the United States Atomic Energy Commission

Application August 3, 1954, Serial No. 447,693  
3 Claims. (Cl. 340-174)



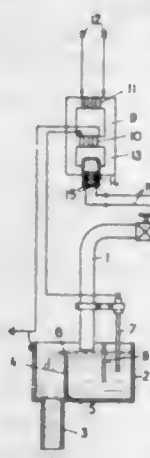
1. For the reproduction of a frequency-modulated information record accompanied by a simultaneously recorded constant frequency record, a system of apparatus comprising means for simultaneously reproducing and independently amplifying the two records, means for multiplying the reproduced constant frequency to be at least greater than the maximum frequency in the information record, means for generating in each period of the information record a voltage pulse of duration equal to an integral number of periods of the multiplied frequency, means including a low-pass filter for averaging the generated pulses and means for canceling from the average the direct current component thereof.

2,713,678

# WARNING DEVICE FOR COOLING WATER SYSTEM FOR TRANSFORMERS

Hans Heltmand Krokstrand, Oslo, Norway, assignor to Christiania Spigewerk, Oslo, Norway

Application June 15, 1949, Serial No. 99,322  
Claims priority, application Norway June 17, 1948  
1 Claim. (Cl. 340-239)



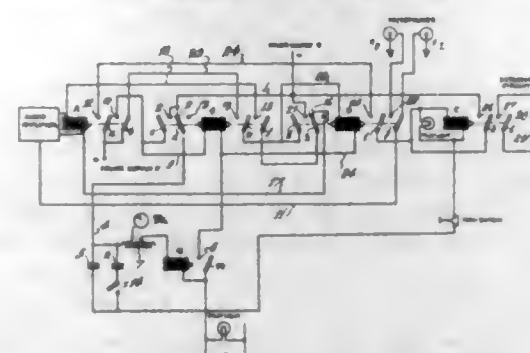
In a system of circulating liquid the combination of a container, a partition wall dividing the container into two vertical chambers, into one of which the circulating liquid is continuously supplied, a discharge opening at the bottom

of the other chamber, said partition wall being at its lower end provided with an opening of such small dimensions that the total amount of liquid which under normal conditions of the system is supplied to the container cannot pass through the opening, the excess of liquid flowing through an overflow in the partition wall at a higher level than said opening, a second partition extending downwardly part way into said chamber to which the liquid is supplied to form a relatively quiet compartment and means for giving an indication of when the liquid falls below a certain fixed point located in said compartment.

2,713,679

# SONIC SPEED RECORDER

Clement George Ewertz, Paramus, N. J.  
Application April 15, 1954, Serial No. 423,398  
13 Claims. (Cl. 340-263)



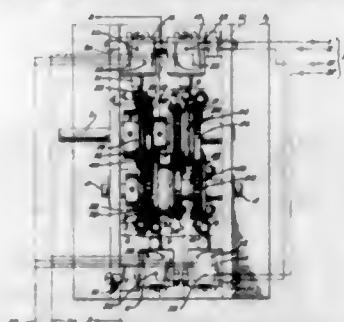
1. Electrical means for determining the speed at which an object, such as an automotive vehicle moves, by picking up an audible sound made by said vehicle said means including a D. C. source of power, a main pilot light to show that said power is available and ready for use, a series of relays adapted to be connected to said source, a pair of microphones for receiving sounds in sequence and controlled by one of said relays, an audio-amplifier connected between one of said relays and the microphone that receives the first signal or sound from an approaching vehicle, one of said relays acting as a timer and being connected through an inductance to a capacitance and normally connected across said source of power, when the same is initially applied, another relay operated by the relay under control of the amplifier, a further relay operated by the last mentioned relay and locking means for the relay which switches in the second microphone and connects this to the said amplifier which electrifies the second mentioned relay that then brings in the last relay of the series and this transmits the timing, set up by the microphones, to suitable recording and indicating instruments.

2,713,680

# BINARY CONTACT MAKING COUNTER

Erik Ackerlind, Redondo Beach, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application June 21, 1949, Serial No. 100,461  
19 Claims. (Cl. 340-347)



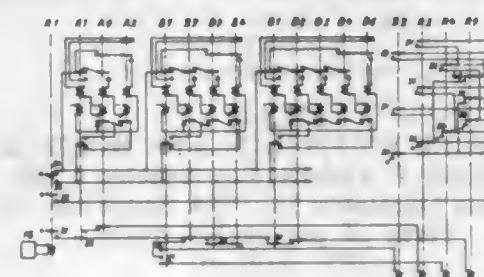
1. A device for converting rotational motion of an object to significant electrical potentials, which comprises an input shaft adapted to be rotated by said object, a plurality of two-position electrical switches, individual

switch actuating means arranged to actuate each of said switches from either of said two positions to the other, when rotated, one of said switch actuating means being connected to have a rate of rotation directly proportional to the rotation of said input shaft at all times, and the remainder of said switch actuating means being connected in series with the first of said switch actuating means, each of said remaining means being connected to rotate through an angular distance of 180° at the same speed as the next preceding means and then remain stationary during the following 180° of rotation of said preceding means to obtain an effective two to one transmission ratio between said means, an output terminal and two input terminals associated with each of said switches, whereby a first source of electrical potential applied constantly to one of said input terminals or a second source of electrical potential differing from the first and applied constantly to the other of said input terminals will be channeled to each of said output terminals in the proper combination to form a binary output number indicating directly the position of said input shaft, from a predetermined starting position.

2,713,681

# IMPULSE GENERATOR FOR DEBITING OF COMMUNICATIONS

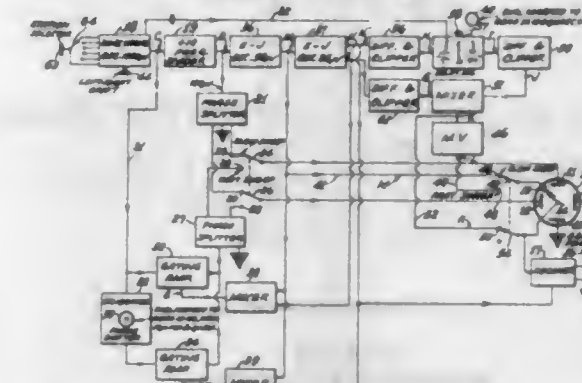
Karl Georg Johnson, Stockholm, and Arvo Treffner, Hagersten, Sweden, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a Swedish company  
Application December 8, 1952, Serial No. 324,736  
Claims priority, application Sweden December 19, 1951  
1 Claim. (Cl. 340-362)



A debiting impulse generator comprising an impulse generating device generating one impulse per unit of time, a plurality of relay chains actuated by said impulses, each of said relay chains being arranged to complete a cycle of operation during one multiple of the unit of time, a plurality of auxiliary relays, contacts on at least one relay of each relay chain arranged to actuate said plurality of auxiliary relays, a number of contacts on each auxiliary relay, and a plurality of terminals connectible

2,713,682

RADIO NAVIGATION SYSTEM OF LORAN TYPE  
Earl H. Schoenfeld, Mamaroneck, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Army  
Application November 29, 1947, Serial No. 788,921  
12 Claims. (Cl. 343-103)



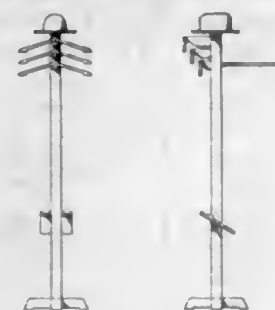
1. In a navigation system wherein periodically recurring radio pulses are radiated from A and B ground stations as A and B pulses, respectively, having like repetition periods with the B pulses occurring at a time not earlier than the mid-point of the period of the A pulses, a receiving system for measuring the time interval between the A and B pulses as they appear at a point remote from said ground stations which comprises means for receiving said A and B pulses at said point, a cathode ray tube indicator including a screen and means for producing a cathode ray and directing it toward said screen, means for deflecting said cathode ray at a repetition rate equal to four times the repetition rate of said A pulses, means for applying the A and B pulses from said receiver to the cathode ray tube to cause said pulses to act on the cathode ray and thereby produce indications on said screen, means for blocking said cathode ray during alternate deflections of said cathode ray whereby said alternate deflections are blanked out so that the A pulse indication is blanked out if the B pulse is phased to appear at the start of a cathode ray deflection.



# DESIGNS

JULY 19, 1955

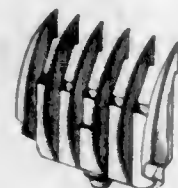
175,139  
COSTUMER OR SIMILAR ARTICLE  
R. S. Allen, Dallas, Tex.  
Application January 3, 1955, Serial No. 33,799  
Term of patent 14 years  
(Cl. D33—8)



175,140  
EXPOSURE METER  
Roscoe A. Ammon, Manchester, N. H.  
Application November 22, 1954, Serial No. 33,182  
Term of patent 14 years  
(Cl. D61—1)



175,141  
HAIR CLIPPER COMB PLATE ATTACHMENT  
Mathew Andis, Racine, Wis., assignor to Andis Clipper Co., Racine, Wis., a corporation of Wisconsin  
Application April 19, 1954, Serial No. 30,058  
Term of patent 14 years  
(Cl. D22—5)



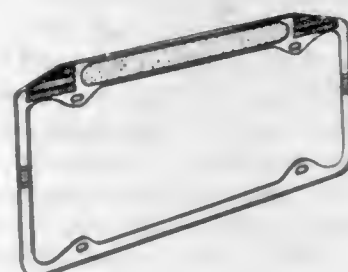
175,142  
CLEANING DEVICE FOR PHONOGRAPH RECORDS AND NEEDLES  
Wolfgang Appel, Erlangen, and Herbert Krust, Hannover, Germany, assignors to Deutsche Grammophon Gesellschaft mit beschränkter Haftung, Hannover, Germany, a corporation of Germany  
Application January 5, 1955, Serial No. 33,831  
Term of patent 14 years  
(Cl. D9—2)



175,143  
DECORATIVE ESCUTCHEON PLATE FOR A LOCK  
Richard H. Arbib, New York, N. Y., and Robert S. Quandt, Levittown, Pa., assignors to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts  
Application November 4, 1954, Serial No. 32,957  
Term of patent 14 years  
(Cl. D50—6)



175,144  
VEHICLE LICENSE PLATE HOLDER  
Benjamin J. Audette, Los Angeles, Calif.  
Application December 21, 1954, Serial No. 33,626  
Term of patent 3½ years  
(Cl. D14—6)



175,145  
DECANTER  
Ferdinand S. Barbiers, Lancaster, Ohio, assignor to The New England Vinegar Works, Inc., Littleton, Mass., a corporation of Massachusetts  
Application November 3, 1954, Serial No. 32,941  
Term of patent 7 years  
(Cl. D58—8)



JULY 19, 1955

U. S. PATENT OFFICE

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175,146  
NARROW WOVEN FABRIC OR SIMILAR ARTICLE  
Leo Beer, Hartsdale, N. Y.  
Application July 26, 1954, Serial No. 31,591  
Term of patent 7 years  
(Cl. D92—1)



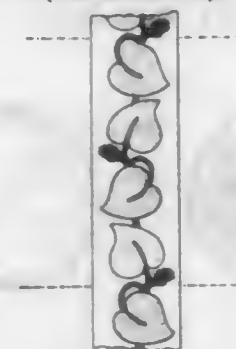
175,147  
NARROW WOVEN FABRIC OR SIMILAR ARTICLE  
Leo Beer, Hartsdale, N. Y.  
Application July 26, 1954, Serial No. 31,593  
Term of patent 7 years  
(Cl. D92—1)



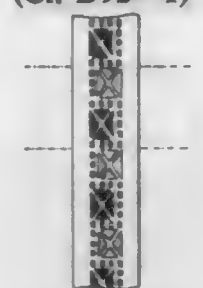
175,148  
NARROW WOVEN FABRIC OR SIMILAR ARTICLE  
Leo Beer, Hartsdale, N. Y.  
Application July 26, 1954, Serial No. 31,594  
Term of patent 7 years  
(Cl. D92—1)



175,149  
NARROW WOVEN FABRIC OR SIMILAR ARTICLE  
Leo Beer, Hartsdale, N. Y.  
Application July 26, 1954, Serial No. 31,595  
Term of patent 7 years  
(Cl. D92—1)



175,150  
NARROW WOVEN FABRIC OR SIMILAR ARTICLE  
Leo Beer, Hartsdale, N. Y.  
Application July 26, 1954, Serial No. 31,596  
Term of patent 7 years  
(Cl. D92—1)



175,151  
ELECTRIC LAMP BASE  
David Borowitz, Chicago, Ill.  
Application January 19, 1955, Serial No. 34,064  
Term of patent 3½ years  
(Cl. D48—20)



175,152  
ELECTRIC LAMP BASE  
David Borowitz, Chicago, Ill.  
Application January 19, 1955, Serial No. 34,065  
Term of patent 3½ years  
(Cl. D48—20)





175,153

**COMPACT OR SIMILAR ARTICLE**

Frederick M. Breen, Westchester, N. Y., assignor to Coty, Inc., New York, N. Y., a corporation of Delaware  
Application October 21, 1954, Serial No. 32,746  
Term of patent 14 years  
(Cl. D86—10)



175,154

**LAMP BASE OR SIMILAR ARTICLE**

Eve Cohen, West Orange, N. J.  
Application November 2, 1954, Serial No. 32,917  
Term of patent 7 years  
(Cl. D48—20)



175,155

**LAMP BASE OR SIMILAR ARTICLE**

Eve Cohen, West Orange, N. J.  
Application November 2, 1954, Serial No. 32,918  
Term of patent 7 years  
(Cl. D48—20)



175,156

**FOLDING PICTURE VIEWING DEVICE**

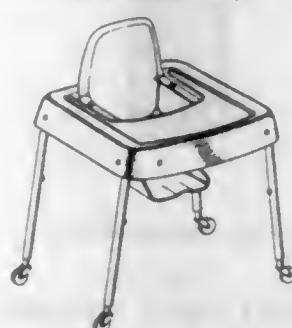
Arthur H. Crapsey, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application May 24, 1954, Serial No. 30,630  
Term of patent 14 years  
(Cl. D61—1)



175,157

**COMBINED BABY CHAIR AND TABLE**

James Crehan, Jr., Duarte, Calif.  
Application September 21, 1954, Serial No. 32,371  
Term of patent 14 years  
(Cl. D15—1)



175,158

**ELECTRIC STOCK PROD**

Harold W. Darr, Minneapolis, Minn., assignor to Hot Shot Products Co., Minneapolis, Minn., a corporation of Minnesota  
Application December 7, 1954, Serial No. 33,432  
Term of patent 14 years  
(Cl. D12—2)



175,159

**HOLDER FOR A MILK CARTON**

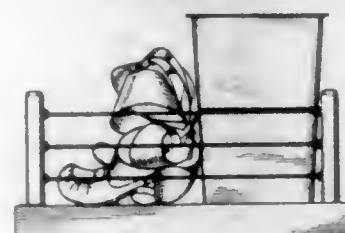
Frank E. Dunkle, Hawthorne, Calif.  
Application July 19, 1954, Serial No. 31,479  
Term of patent 14 years  
(Cl. D58—26)



175,160

**DISPLAY STAND**

Michael J. Fennell, Yonkers, N. Y.  
Application June 8, 1954, Serial No. 30,864  
Term of patent 14 years  
(Cl. D80—9)



175,161

**SPOON REST ATTACHMENT**

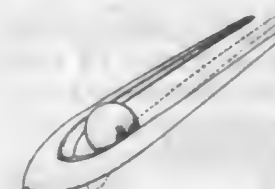
Vito W. Florio, Bellport, N. Y.  
Application November 15, 1954, Serial No. 33,098  
Term of patent 14 years  
(Cl. D44—29)



175,162

**ORNAMENT FOR AN AUTOMOBILE HOOD**

Marshall M. Fredericks, Birmingham, Mich., assignor to Studebaker-Packard Corporation, a corporation of Michigan  
Application November 3, 1954, Serial No. 32,947  
Term of patent 14 years  
(Cl. D14—18)



175,163

**HINGE**

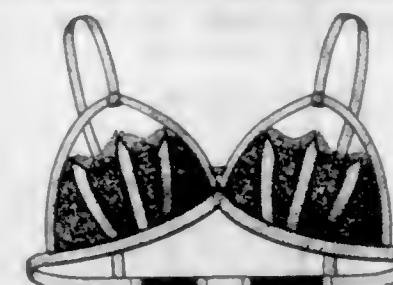
Charles S. Gehrie, Montclair, N. J., assignor to Presto Lock Company, Garfield, N. J., a corporation of New Jersey  
Application September 27, 1954, Serial No. 32,451  
Term of patent 14 years  
(Cl. D10—9)



175,164

**BRASSIERE**

Irving Gerstein, Scarsdale, and Sam Gerstein, Kings Point, N. Y., assignors to Lady Marlene Brassiere Corp., New York, N. Y., a corporation of New York  
Application December 13, 1954, Serial No. 33,505  
Term of patent 14 years  
(Cl. D20—4)



175,165

**BOOTJACK**

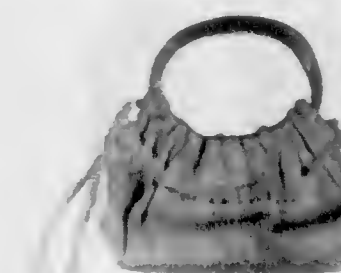
Robert L. Greer, Salem, Oreg.  
Application November 1, 1954, Serial No. 32,880  
Term of patent 14 years  
(Cl. D7—2)



175,166

**HANDBAG**

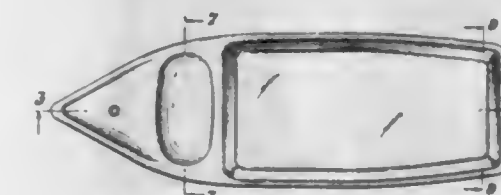
Lorris Vester Hagewood, Gatlinburg, Tenn.  
Application January 14, 1953, Serial No. 23,136  
Term of patent 7 years  
(Cl. D87—3)



175,167

**DINNER PLATE OR THE LIKE**

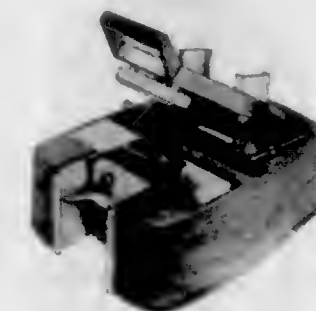
Leighton D. Hubbard, San Francisco, Calif., assignor to Nicosia-Hubbard Corporation, San Francisco, Calif., a corporation of California  
Application July 21, 1954, Serial No. 31,522  
Term of patent 3½ years  
(Cl. D44—15)



175,168

**ADDRESSING MACHINE**

Carl J. Hueber, Euclid, and Arthur W. Oatess, Cleveland, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware  
Application April 20, 1954, Serial No. 30,102  
Term of patent 14 years  
(Cl. D64—11)





175,169

**GARMENT HANGER**

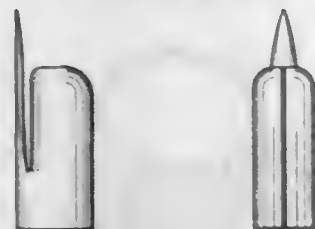
Dorothy Jacobson, Los Angeles, Calif.  
Application February 16, 1953, Serial No. 23,634  
Term of patent 14 years  
(Cl. D80—8)



175,170

**LETTER OPENER**

Eleanor W. Johnson, Two Harbors, Minn.  
Application March 10, 1954, Serial No. 29,450  
Term of patent 14 years  
(Cl. D74—1)



175,171

**COMBINATION BRASSIERE-GIRDLE**

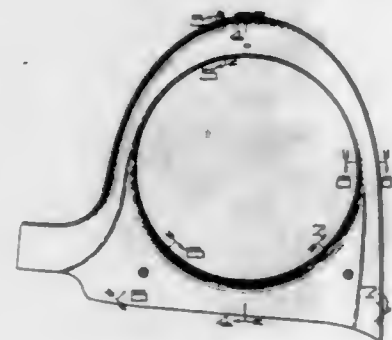
Ethel R. Kaupp, New York, N. Y.  
Application September 27, 1954, Serial No. 32,440  
Term of patent 7 years  
(Cl. D20—2)



175,172

**AUTOMOBILE LAMP LENS HOUSING**

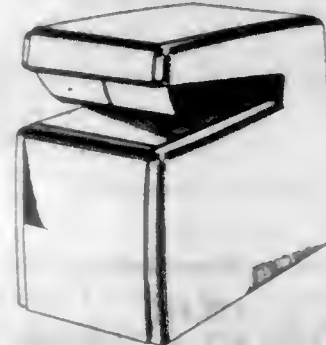
Henry T. King and Harold W. Pilkey, Detroit, Mich.,  
assignors to Chrysler Corporation, Highland Park,  
Mich., a corporation of Delaware  
Application February 4, 1955, Serial No. 34,360  
Term of patent 7 years  
(Cl. D48—32)



175,173

**DATING STAMP**

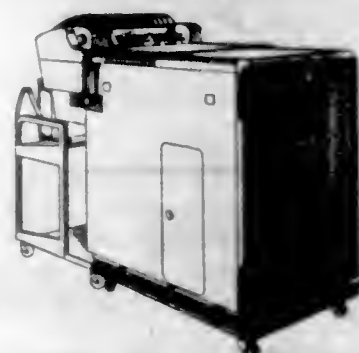
George H. Kress, Johnson City, and Myron F. Davis, Jr.,  
Binghamton, N. Y., assignors to International Business  
Machines Corporation, New York, N. Y., a corpora-  
tion of New York  
Application April 12, 1955, Serial No. 35,478  
Term of patent 14 years  
(Cl. D64—11)



175,174

**PRINTING MACHINE**

George H. Kress, Johnson City, and Myron F. Davis, Jr.,  
Binghamton, N. Y., assignors to International Business  
Machines Corporation, New York, N. Y., a corpora-  
tion of New York  
Application May 2, 1955, Serial No. 35,782  
Term of patent 14 years  
(Cl. D64—11)



175,175

**WHEEL COVER**

Homer C. La Gassey, Jr., Detroit, Mich., assignor to Gen-  
eral Motors Corporation, Detroit, Mich., a corporation  
of Delaware  
Application December 9, 1954, Serial No. 33,469  
Term of patent 7 years  
(Cl. D14—30)



175,176

**PITCHER**

Massimo Lagostina, Milan, Italy  
Application December 14, 1953, Serial No. 28,052  
Term of patent 3½ years  
(Cl. D44—21)



175,177

**COMBINED BAROMETER AND THERMOMETER**

Stephen E. Laszlo, Brooklyn, N. Y.  
Application November 24, 1954, Serial No. 33,235  
Term of patent 7 years  
(Cl. D52—7)



175,178

**BRASSIERE**

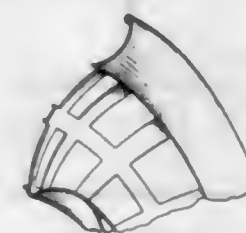
Jack J. Lo Cascio, Bayonne, N. J., assignor to Even-Pul  
Foundations, Inc., New York, N. Y., a corporation of  
New York  
Application January 18, 1955, Serial No. 34,047  
Term of patent 14 years  
(Cl. D20—4)



175,179

**WHEEL COVER OR SIMILAR ARTICLE**

George Albert Lyon, Detroit, Mich.  
Application October 11, 1954, Serial No. 32,621  
Term of patent 14 years  
(Cl. D14—30)



175,180

**WHEEL COVER OR SIMILAR ARTICLE**

George Albert Lyon, Detroit, Mich.  
Application October 11, 1954, Serial No. 32,622  
Term of patent 14 years  
(Cl. D14—30)



175,181

**WHEEL COVER OR SIMILAR ARTICLE**

George Albert Lyon, Detroit, Mich.  
Application October 11, 1954, Serial No. 32,624  
Term of patent 14 years  
(Cl. D14—30)



175,182

**BOTTLE**

Walter J. Meditz, Closter, N. J.  
Application October 27, 1954, Serial No. 32,832  
Term of patent 14 years  
(Cl. D58—6)



175,183

**EAR MUFF OR THE LIKE**

Bernard Millinger, Brooklyn, N. Y.  
Application October 11, 1954, Serial No. 32,612  
Term of patent 7 years  
(Cl. D3—2)



175,184

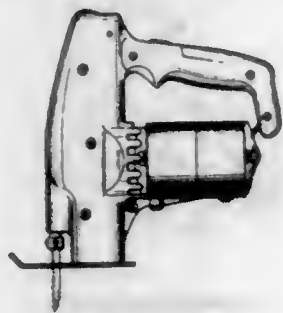
**OVEN FRONT OR THE LIKE**

Averd G. Nelson, Wisconsin Rapids, Wis., assignor to  
Preway Inc., a corporation of Wisconsin  
Application December 3, 1954, Serial No. 33,390  
Term of patent 14 years  
(Cl. D81—4)

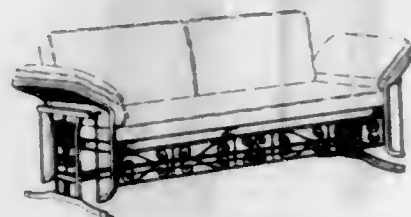




**175,185**  
ELECTRICAL JIG SAW  
Richard C. Oakley, St. Louis, Mo.  
Application April 12, 1954, Serial No. 29,968  
Term of patent 14 years  
(Cl. D93—3)



**175,186**  
GLIDER  
Morton Pearlstone, Cynwyd, Pa.  
Application November 17, 1953, Serial No. 27,640  
Term of patent 14 years  
(Cl. D15—11)



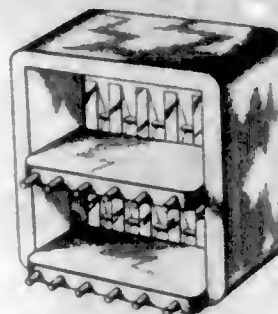
**175,187**  
THERMAL PIN FOR MEAT ROASTS  
William Perez, Mineola, N. Y.  
Application March 30, 1954, Serial No. 29,776  
Term of patent 14 years  
(Cl. D81—10)



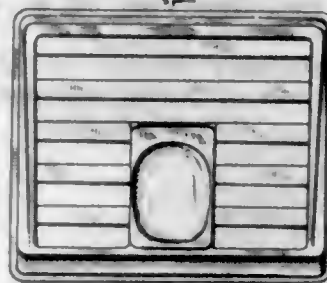
**175,188**  
AREA LIGHT FIXTURE  
Hyman Phillips, Cincinnati, Ohio, assignor to Oscar Phillips Co., Cincinnati, Ohio, a corporation of Ohio  
Application March 31, 1955, Serial No. 35,305  
Term of patent 7 years  
(Cl. D48—23)



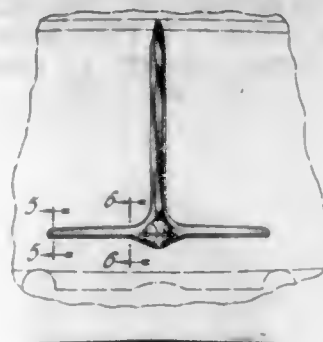
**175,189**  
SPICE RACK  
Walter Clifford Pierce, Jr., Inglewood, Calif.  
Application December 11, 1953, Serial No. 28,026  
Term of patent 7 years  
(Cl. D44—6)



**175,190**  
COMBINATION CHANGE TRAY AND  
MERCHANDISE DISPLAY UNIT  
Walter W. Reid III, Allenhurst, N. J., assignor to Charms Company, Asbury Park, N. J., a corporation of Delaware  
Application October 4, 1954, Serial No. 32,532  
Term of patent 3½ years  
(Cl. D52—4)



**175,191**  
AUTOMOBILE REAR DECK MOLDING  
Arthur Ross, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application October 20, 1954, Serial No. 32,733  
Term of patent 7 years  
(Cl. D14—6)



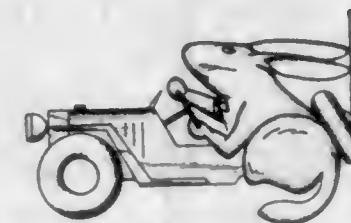
**175,192**  
CURTAIN FABRIC OR SIMILAR ARTICLE  
Max Sadinoff, New York, N. Y.  
Application June 4, 1954, Serial No. 30,816  
Term of patent 3½ years  
(Cl. D47—6)



**175,193**  
ELECTRIC TOOL FOR APPLYING CONDUCTORS  
TO TERMINALS  
Robert B. Shulters and John R. Bos, Grand Haven, Mich., assignors, by mesne assignments, to Gardner-Denver Company, a corporation of Delaware  
Application October 29, 1953, Serial No. 27,378  
Term of patent 14 years  
(Cl. D54—14)



**175,194**  
TOY HOP-MOBILE  
Bonnie Smith, Jr., Philadelphia, Pa.  
Application May 28, 1954, Serial No. 30,742  
Term of patent 14 years  
(Cl. D34—15)



**175,195**  
TABLE  
Jan Streng, Ridgefield, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware  
Application June 28, 1952, Serial No. 20,391  
Term of patent 14 years  
(Cl. D33—14)



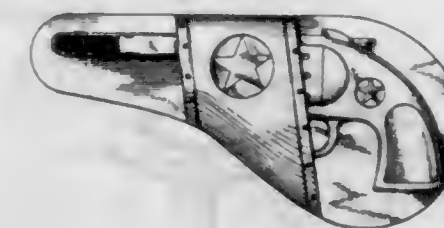
**175,196**  
DECANTER  
Robert S. Suttle, Los Angeles, Calif., assignor to Arrowhead and Puritas Waters Inc., Los Angeles, Calif., a corporation of California  
Application December 16, 1954, Serial No. 33,582  
Term of patent 14 years  
(Cl. D58—6)



**175,197**  
CLASP KNIFE  
Emile H. Talmon, Scarsdale, N. Y., and Maurice S. Share, Providence, R. I., assignors to Imperial Knife Company, Inc., Providence, R. I., a corporation of Rhode Island  
Application June 24, 1954, Serial No. 31,145  
Term of patent 14 years  
(Cl. D22—3)



**175,198**  
COMBINED TOOTHBRUSH AND HOLDER  
THEREFOR  
Fred P. Tasner and Herman D. Lembeck, Chicago, Ill.  
Application February 20, 1953, Serial No. 23,704  
Term of patent 14 years  
(Cl. D9—2)



**175,199**  
COMBINED ASH TRAY, CIGARETTE REST, AND  
EXTINGUISHER  
Ewald W. Terney, Mineola, N. Y.  
Application November 2, 1954, Serial No. 32,920  
Term of patent 14 years  
(Cl. D85—2)



**175,200**  
COMBINED ASH TRAY, CIGARETTE REST, AND  
EXTINGUISHER  
Ewald W. Terney, Mineola, N. Y.  
Application November 2, 1954, Serial No. 32,930  
Term of patent 14 years  
(Cl. D85—2)

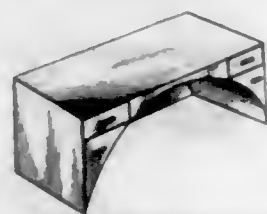




175,201

## DESK OR SIMILAR ARTICLE

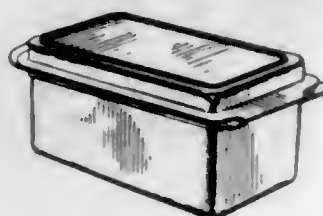
Ralph B. Thompson, Chevy Chase, Md., assignor of two-fifths to John Henry Mahan, Washington, D. C.  
Application June 4, 1953, Serial No. 25,324  
Term of patent 14 years  
(Cl. D33—7)



175,202

## FOOD STORAGE CONTAINER

Earl S. Tupper, Upton, Mass.  
Application March 23, 1954, Serial No. 29,653  
Term of patent 14 years  
(Cl. D44—1)



175,203

## SHOE

James E. Wall, North Adams, Mass., assignor to Wall-Streeter Shoe Co., North Adams, Mass., a corporation of Massachusetts  
Application October 2, 1953, Serial No. 27,056  
Term of patent 3½ years  
(Cl. D7—7)



175,204

## SPOON OR SIMILAR ARTICLE

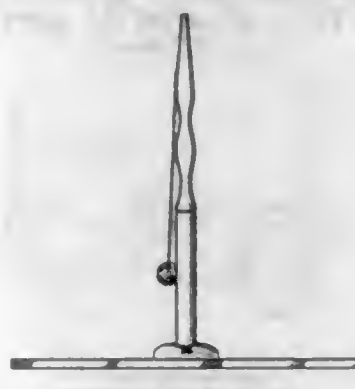
William S. Warren, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut  
Application January 10, 1955, Serial No. 33,910  
Term of patent 14 years  
(Cl. D54—12)



175,205

## TETHERED BALL GAME APPARATUS

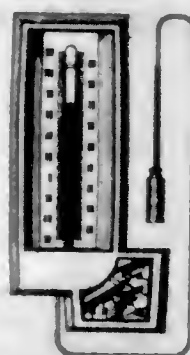
Robert C. Wilson, Chula Vista, Calif.  
Application September 7, 1954, Serial No. 32,184  
Term of patent 14 years  
(Cl. D34—15)



175,206

## INDOOR-OUTDOOR THERMOMETER

Francis A. Zagara, Irondequoit, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York  
Application September 16, 1954, Serial No. 32,322  
Term of patent 7 years  
(Cl. D52—7)



## LIST OF REISSUE PATENTEEES

TO WHOM

PATENTS WERE ISSUED ON THE 19TH DAY OF JULY, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ammco Tools, Inc.: See—  
Billeter, Henry R. Re. 24,039.  
Arnold, Philip M., to Phillips Petroleum Co. Re. 24,038, Cl. 260—666.  
Billeter, Henry R., to Ammco Tools, Inc. Re. 24,039, Cl. 77—2.  
Haltenberger, Jules. Re. 24,040, Cl. 62—136.  
Hondeville, August I., to W. A. Hondeville. Re. 24,041, Cl. 299—47.  
Hondeville, Walter A.: See—  
Hondeville, August I. Re. 24,041.  
Marchant Calculators, Inc.: See—  
Reynolds, Eugene E. Re. 24,042.  
Phillips Petroleum Co.: See—  
Arnold, Philip M. Re. 24,038.  
Reynolds, Eugene E., to Marchant Calculators, Inc. Re. 24,042, Cl. 340—318.

## LIST OF PLANT PATENTEEES

Coddington, Frank R. 1,406, Cl. 47—62.

## LIST OF DESIGN PATENTEEES

Addressograph-Multigraph Corp.: See—  
Hueber, Carl J., and Oates. 175,168.  
Allen, R. S. 175,139, Cl. D33—8.  
Ammon, Roscoe A. 175,140, Cl. D61—1.  
Andis Clipper Co.: See—  
Andis, Mathew. 175,141.  
Andis, Mathew, to Andis Clipper Co. 175,141, Cl. D22—5.  
Appel, Wolfgang, and H. Krust, to Deutsche Grammophon Gesellschaft mit beschränkter Haftung. 175,142, Cl. D9—2.  
Arbib, Richard H., and R. S. Quandt, to Independent Lock Co. 175,143, Cl. D50—8.  
Arrowhead and Puritas Waters Inc.: See—  
Suttle, Robert S. 175,196.  
Audette, Benjamin J. 175,144, Cl. D14—6.  
Barbiers, Ferdinand S., to The New England Vinegar Works, Inc. 175,145, Cl. D58—8.  
Beer, Leo. 175,146, Cl. D92—1.  
Beer, Leo. 175,147, Cl. D92—1.  
Beer, Leo. 175,148, Cl. D92—1.  
Beer, Leo. 175,149, Cl. D92—1.  
Beer, Leo. 175,150, Cl. D92—1.  
Borowitz, David. 175,151, Cl. D48—20.  
Borowitz, David. 175,152, Cl. D48—20.  
Bos, John R.: See—  
Shulters, Robert B., and Bos. 175,193.  
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8: 2,713,187	50: 2,713,273	107: 2,713,346	122: 2,713,412	34: 2,713,483	219: 2,713,514
106: 2,713,188	190.6: 2,713,274	115: 2,713,347	182: 2,713,413	36: 2,713,484	220: 2,713,515
131: 2,713,189	472: 2,713,275	136—111: 2,713,348	203: 2,713,414	43: 2,713,485	221: 2,713,516
26—51.3: 2,713,190	760: 2,713,276	170: 2,713,349	220: 2,713,415	72: 2,713,486	222: 2,713,517
44: 2,713,191	76: 2,713,277	137—83: 2,713,348	230: 2,713,416	89: 2,713,487	223: 2,713,518
76: 2,713,192	112: 2,713,278	331: 2,713,349	231—81.18: 2,713,417	113: 2,713,488	224: 2,713,519
20—155.55: 2,713,193	77—3: Re.24,039	630.19: 2,713,350	89: 2,713,418	138: 2,713,489	225: 2,713,520
167: 2,713,194	78—45: 2,713,279	139—99: 2,713,351	139: 2,713,419	201—63: 2,713,490	226: 2,713,521
196: 2,713,195	81—3: 2,713,280	139—13: 2,713,352	201—63: 2,713,491	203—159: 2,713,492	227: 2,713,522
432: 2,713,197	99: 2,713,281	39: 2,713,353	203—159: 2,713,493	204—79: 2,713,494	228: 2,713,523
4: 2,713,198	15: 2,713,279	41: 2,713,355	204—79: 2,713,495	43.5: 2,713,496	229: 2,713,524
32: 2,713,200	99: 2,713,280	41: 2,713,356	105: 2,713,496	45: 2,713,497	230: 2,713,525
50: 2,713,201	177: 2,713,281	186: 2,713,357	206—9: 2,713,497	47: 2,713,498	231: 2,713,526
32—19: 2,713,202	1: 2,713,282	379: 2,713,358	207—9: 2,713,498	58: 2,713,499	232: 2,713,527
33—1: 2,713,203	21: 2,713,283	353: 2,713,359	209—72: 2,713,499	60: 2,713,500	233: 2,713,528
16: 2,713,204	85: 5: 2,713,284	426: 2,713,360	209—72: 2,713,499	62: 2,713,501	234: 2,713,529
104: 2,713,205	88—16.8: 2,713,285	426: 2,713,361	166: 2,713,499	64: 2,713,502	235: 2,713,530
115: 2,713,206	82: 2,713,286	140—71: 2,713,362	169: 2,713,499	67: 2,713,501	236: 2,713,531
147: 2,713,207	80—1.5: 2,713,287	143—43: 2,713,363	210—24: 2,713,501	79.5: 2,713,503	237: 2,713,532
170: 2,713,208	33: 2,713,288	144—28: 2,713,364	122.5: 2,713,502	85.5: 2,713,504	238: 2,713,533
172: 2,713,209	90—13.1: 2,713,289	208: 2,713,365	145: 2,713,503	112: 2,713,504	239: 2,713,534
174: 2,713,210	92—3: 2,713,290	146—16: 2,713,366	211—27: 2,713,504	117: 2,713,505	240: 2,713,535
216: 2,713,211	6: 2,713,291	91: 2,713,367	213—32: 2,713,505	192: 2,713,506	241: 2,713,536
66: 2,713,212	20: 2,713,292	150—5: 2,713,368	214—1: 2,713,506	211.5: 2,713,507	242: 2,713,537
82: 2,713,213	7: 2,713,293	11: 2,713,369	5.6: 2,713,507	240.1: 2,713,508	243: 2,713,538
64: 2,713,214	32: 2,713,294	152—341: 2,713,370	16: 2,713,508	290: 2,713,510	244: 2,713,539
68: 2,713,215	76: 2,713,295	342: 2,713,371	53: 2,713,509	308: 2,713,511	245: 2,713,540
117.5: 2,713,216	47.51: 2,713,296	384: 2,713,372	306: 2,713,512	309.6: 2,713,512	246: 2,713,541
140: 2,713,217	47.54: 2,713,297	412: 2,713,373	215: 2,713,513	314: 2,713,513	247: 2,713,542
155: 2,713,218	200: 2,713,298	412: 2,713,374	658: 2,713,514	329: 2,713,514	248: 2,713,543
77: 2,713,219	40: 2,713,299	40: 2,713,375	711: 2,713,515	348.5: 2,713,515	249: 2,713,544
2: 713,220	46: 2,713,300	1: 2,713,376	215—13: 2,713,516	367.45: 2,713,516	250: 2,713,545
79: 2,713,221	80: 2,713,301	1.6: 2,713,377	216—20: 2,713,517	499: 2,713,517	251: 2,713,546
2: 713,222	171: 2,713,302	8: 2,713,378	218—47: 2,713,518	449.6: 2,713,518	252: 2,713,547
2: 713,223	238.5: 2,713,303	9: 2,713,379	219—4: 2,713,519	453: 2,713,519	253: 2,713,548
99: 2,713,224	4: 2,713,304	41: 2,713,380	39: 2,713,520	527: 2,713,520	254: 2,713,549
42—25: 2,713,225	100—4: 2,713,305	43.6: 2,713,381	40: 2,713,521	535: 2,713,521	255: 2,713,550
43—25: 2,713,226	101—117: 2,713,306	52: 2,713,382	220—20.5: 2,713,522	558: 2,713,522	256: 2,713,551
103: 2,713,227	140.1: 2,713,307	14: 2,713,383	221—39: 2,713,523	561: 2,713,523	257: 2,713,552
42: 2,713,228	248: 2,713,308	140: 2,713,384	222—238: 2,713,524	563: 2,713,524	258: 2,713,553
107: 2,713,229	416: 2,713,309	196: 2,713,385	223—12: 2,713,525	565: 2,713,525	259: 2,713,554
58: 2,713,230	102—70.2: 2,713,310	158—91: 2,713,386	224—4: 2,713,526	567: 2,713,526	260: 2,713,555
62: P.P.1,406	103—4: 2,713,311	160—374: 2,713,387	226—2: 2,713,527	569: Re.24,038	261: 2,713,556
55: 2,713,231	41: 2,713,312	164—114: 2,713,388	14: 2,713,528	671: 2,713,556	262: 2,713,557
73: 2,713,232	87: 2,713,313	169—6: 2,713,389	78: 2,713,529	679: 2,713,557	263: 2,713,558
128: 2,713,233	106—148: 2,713,314	170—1.5: 2,713,390	229—40: 2,713,530	683: 2,713,558	264: 2,713,559
193.7: 2,713,234	176: 2,713,315	160.11: 2,713,391	223—12: 2,713,531	685: 2,713,559	265: 2,713,560
214: 2,713,235	14: 2,713,316	178—5.4: 2,713,392	224—4: 2,713,532	687: 2,713,560	266: 2,713,561
60: 2,713,236	44: 2,713,317	2: 713,393	226—2: 2,713,533	689: 2,713,561	267: 2,713,562
400: 2,713,237	110: 2,713,318	2: 713,394	230—51: 2,713,534	691: 2,713,562	268: 2,713,563
98: 2,713,238	116—124.4: 2,713,319	6: 2,713,395	233—117: 2,713,535	693: 2,713,563	269: 2,713,564
400: 2,713,239	148: 2,713,320	2: 713,396	235—61: 2,713,536	695: 2,713,564	270: 2,713,565
98: 2,713,240	117—4: 2,713,321	2: 713,397	236—20: 2,713,537	697: 2,713,565	271: 2,713,566
57—12: 2,713,241	94: 2,713,322	2: 713,398	238—20: 2,713,538	699: 2,713,566	272: 2,713,567
60—35.6: 2,713,242	413: 2,713,323	16: 2,713,399	240: 2,713,539	701: 2,713,567	273: 2,713,568
39.28: 2,713,243	1: 2,713,324	18: 2,713,400	11.3: 2,713,540	703: 2,713,568	274: 2,713,569
39.51: 2,713,244	10: 2,713,325	16: 2,713,401	51.11: 2,713,541	705: 2,713,569	275: 2,713,570
97: 2,713,245	17: 2,713,326	2: 713,402	106: 2,713,542	707: 2,713,570	276: 2,713,571
62—3: 2,713,246			241—8: 2,713,632	277: 2,713,571	



## CLASSIFICATION OF DESIGNS

D 3— 2: Des. 175,183	D14—30: Des. 175,180	D34—15: Des. 175,194	D46—23: Des. 175,188	D61— 1: Des. 175,140	D86—10: Des. 175,183
D 7— 2: Des. 175,185	Des. 175,181	Des. 175,206	32: Des. 175,172	Des. 175,156	D87— 3: Des. 175,166
7: Des. 175,203	D15— 1: Des. 175,167	D44— 1: Des. 175,202	D50— 6: Des. 175,143	D64—11: Des. 175,168	D92— 1: Des. 175,146
D 9— 2: Des. 175,142	11: Des. 175,186	6: Des. 175,189	D52— 4: Des. 175,190	Des. 175,173	Des. 175,147
Des. 175,198	D20— 2: Des. 175,171	18: Des. 175,167	7: Des. 175,177	Des. 175,174	Des. 175,148
D10— 9: Des. 175,163	4: Des. 175,164	21: Des. 175,176	Des. 175,206	D74— 1: Des. 175,170	Des. 175,149
D12— 2: Des. 175,158	Des. 175,178	29: Des. 175,161	D54—12: Des. 175,204	D80— 8: Des. 175,169	Des. 175,150
D14— 6: Des. 175,144	D22— 3: Des. 175,197	D47— 8: Des. 175,192	14: Des. 175,193	D93— 3: Des. 175,185	
Des. 175,191	5: Des. 175,141	D48—20: Des. 175,181	D68— 6: Des. 175,182	D81— 4: Des. 175,184	
18: Des. 175,162	D33— 7: Des. 175,201	Des. 175,183	Des. 175,196	10: Des. 175,187	
30: Des. 175,175	8: Des. 175,139	Des. 175,184	8: Des. 175,145	D85— 2: Des. 175,199	
Des. 175,179	14: Des. 175,195	Des. 175,185	26: Des. 175,169	Des. 175,200	



TRADEMARKS  
NOTICES

Service by Publication  
(Cancellation 6453)

THE 7 SEAS, its assigns or legal representatives, take notice: A petition having been filed in this Office by Roberts Pacific, Ltd. to effect the cancellation of trademark registration of The 7 Seas, 6441 S. Main Street, Houston, Texas, No. 568,186, dated December 23, 1952, and this Office having been unable to obtain service of notice upon said registrant, notice is hereby given that unless The 7 Seas, its assigns or legal representatives, shall enter an appearance within thirty days from the date of this publication, the cancellation will be proceeded with as in the case of default.

DAPHNE LEEDS,  
Assistant Commissioner of Patents.

Patent Office Coupons

The Patent Office now has available 25¢ coupons in pads of 100 without stubs.

Pads of 25¢ coupons with stubs will continue to be sold. However, persons not using stubs for record purposes will find the pads without stubs more convenient to use. Persons desiring pads without stubs are requested to so specify on their orders, otherwise pads with stubs will be furnished.

T. B. MORROW,  
Executive Officer.

Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

TM 36,340, TM 112,799 (Representation of American Indian Bust); TM 112,800 ("Chippewa Salt" and design), The Ohio Salt Co. (Republished by Morton Salt Co.), Salt, filed Feb. 10, 1955, D. C., N. D. N. Y. (Utica), Doc. 5539, Morton Salt Co. v. Cayuga Rock Salt Co., Inc. Consent judgment favor plaintiff May 14, 1955.

TM 47,094 (Winchester), Olin Industries, Inc., Shot-shells and cartridges; TM 53,994, same, Shotguns and rifles, filed May 18, 1955, D. C., S. D. N. Y., Doc. 100/359, Olin Mathieson Chemical Corp. v. Ideal Toy Corp.

TM 53,994. (See TM 47,094.)

TM 112,799. (See TM 36,340.)

TM 112,800. (See TM 36,340.)

TM 327,461 ("Koin-Pack" and design), Koin-Pack Sales Corp., Prophylactic rubber articles, filed Mar. 24, 1954, D. C., S. D. N. Y., Doc. 92/90, L. E. Shunk Latex Products, Inc. v. Allied Latex Corp. Stipulation and order of discontinuance (notice May 10, 1955).

TM 419,561 ("Bonomo's Turkish Chewing Taffy," etc. and design), Gold Medal Candy Corp., Candy, filed May 12, 1955, D. C., E. D. Pa. (Philadelphia), Doc. 18992, Gold Medal Candy Corp. v. Philadelphia Chewing Gum Corp.

TM 506,398 (all), Detergents, Inc., Detergents for use as a laundry powder; TM 528,159 ("all" and design), same,

CONDITION OF TRADEMARK APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding renewals and republications) 28, 112  
Total number of applications awaiting action (excluding renewals and republications) 11, 808  
Date of oldest new application Nov. 3, 1954  
Date of oldest amended application Nov. 15, 1954

MERCHANT, JOHN, Executive Examiner		Oldest Application	
TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION		New	Amended
I. STERBA, J. R., Classes 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 52	11-16-54	12-2-54	
Renewals (All Classes)	4-13-55	5-5-55	
Republications (All Classes)	3-31-55	4-25-55	
II. KEYS, O. M., Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	11-3-54	11-15-54	
III. RACKNOR, M., Classes 1, 3, 4, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50	12-1-54	12-1-54	

Applications Filed During Week Ended June 24, 1955—442

Registrations Issued 424—No. 608,920 to No. 609,343  
Renewals Issued 95

For the quarter April 1, 1955 to June 30, 1955

Applications filed 5,886  
Registrations issued 4,091  
Renewals issued 1,329  
Cancellations, Sec. 8 1,582



Laundry powder, filed May 13, 1955, D. C. N. J. (Newark),  
Doc. 444/53, *Monsanto Chemical Co. v. Stanson Chemicals*  
*et al.*

TM 528,159. (See TM 506,398.)

TM 592,888 ("Pellon" and design), Pellon Corp., Sheet or  
roll made of coated and bonded staples for use as lamination,

etc.; TM 594,573, TM 599,211 (Pellon), same, Non-woven  
fabric for use as an interlining for clothing, etc., filed May  
10, 1955, D. C., S. D. N. Y., Doc. 100/298, *Pellon Corp. v.*  
*Tette Fabrics.*

TM 594,573. (See TM 592,888.)

TM 599,211. (See TM 592,888.)

## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.  
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 660,310. Anchor Plastics Company, Inc., Long Island  
City, N. Y. Filed Jan. 29, 1954.

*Aerotuf*

For Extruded Tubing, Rods, and Shapes Made From Stiff,  
Resilient Plastics.  
Use since Jan. 15, 1954.

SN 664,553. Plymouth Industrial Products, Inc., Plymouth,  
Wis. Filed Apr. 14, 1954.

*BARTALON*

For Thermoplastic Molding Composition Composed Prin-  
cipally of Asphalt and Resin.  
Use since Mar. 23, 1954.

SN 665,413. The Georgia Marble Company, Tate, Ga. Filed  
Apr. 29, 1954.

*Kalmar*

For Calcium Products—Namely, Ground High Calcium  
Limestone.  
Use since Mar. 30, 1954.

SN 668,260. Kleen-Kole Inc., New York, N. Y. Filed June  
15, 1954.

*GRIL-LETS*

For Artificial Fuel of Compressed Sawdust.  
Use since Jan. 26, 1954.

SN 670,114. Luminous Resins Incorporated, Chicago, Ill.  
Filed July 16, 1954.

*DERBYLITE*

For Luminescent Synthetic Plastic Molding Powders and  
Molded Luminescent Synthetic Plastic Parts Including Strips,  
Sheets, Laminated Sheets, Knobs, Rods, Blocks, and Christ-  
mas Tree Ornaments.  
Use since Apr. 10, 1954.

SN 670,246. C. J. Speelman & Zonen N. V., Saassenheim,  
Netherlands. Filed July 19, 1954.

*LUCKY*

For Bulbs.  
Use since Aug. 22, 1953.

SN 671,900. J. A. H. Junker, Inc., Pittsburgh, Pa. Filed  
Aug. 18, 1954.

*GOLD BOND*

Applicant claims ownership of Reg. No. 156,437, expired.  
For Leather in the Piece, Sole Leather, Side Leather, Strips,  
and the Like.  
Use since Apr. 5, 1913.

SN 671,993. Earl W. Garrison, Bridgetown, N. J. Filed  
Aug. 20, 1954.

*NorCross*

For Baby Chicks.  
Use since Dec. 4, 1952.

SN 672,473. Fred Whitaker Company, Philadelphia, Pa.  
Filed Aug. 30, 1954.

*3 W*

For Shrink-Resistant Wool in Fiber Form.  
Use since Aug. 11, 1954.

SN 674,812. The Goodyear Tire & Rubber Company, Akron,  
Ohio. Filed Oct. 14, 1954.

*Airfoam S.L.*

Applicant claims ownership of Reg. No. 385,656.  
For Synthetic Foam Rubber.  
Use since July 17, 1954.

SN 676,318. Thomas B. Harvey Leather Company, Philadel-  
phia, Pa. Filed Nov. 9, 1954.

*VELVELOPE*

For Leather.  
Use since Sept. 20, 1954.



SN 677,301. Cornell Seed Company, St. Louis, Mo. Filed Nov. 26, 1954.

## GOLD RUSH

Applicant claims ownership of Reg. No. 391,378. For Sweet Corn Seed.  
Use since on or about June 1, 1941.

SN 677,821. Steinberg Brothers, New York, N. Y. Filed Dec. 6, 1954.

## NYLOTAN

For Leather Used for the Manufacture of Hand Bags and Shoes.  
Use since Mar. 4, 1954.

SN 677,822. Steinberg Brothers, New York, N. Y. Filed Dec. 6, 1954.

## KRUSHYDE

For Leather, Used for the Manufacture of Wearing Apparel for Men and Women—Namely, Coats, Skirts, Jackets, Shoes, and Handbags.  
Use since Sept. 1, 1954.

SN 682,155. Kimberly-Clark Corporation, Neenah, Wis. Filed Feb. 23, 1955.



For Fiber Products in the Form of Sheets, Creped Wadding, and Fluff, Used Principally as Padding, Packaging, and Wiping Material, and for a Variety of Associated and Non-Associated Uses.  
Use since Oct. 11, 1954, on packaging material.

### CLASS 2

SN 662,632. Wilbert W. Haase Co., Broadview, Ill. Filed Mar. 15, 1954.

## CONTINENTAL

The drawing is lined for blue and gold. Applicant claims ownership of Reg. No. 434,078. For Burial Vaults.  
Use since in or about the month of September 1940.

SN 665,171. Anro Products Company, Inc., Chicago, Ill. Filed Apr. 26, 1954.

*Squeeze  
'n Wash*

For Dispensing Containers—Namely, Refillable Plastic Bottles Fitted Each With a Removable Detergent Dispensing

Cover, Embodying a Brush for Applying Detergent Upon Articles To Be Cleaned While Simultaneously Scrubbing the Same, the Cover, Brush and Bottle Comprising a Merchandising Unit.  
Use since about Oct. 1, 1951.

SN 666,475. Bill Y. James, Miami, Okla. Filed May 17, 1954.

## ROYAL STANDARDS

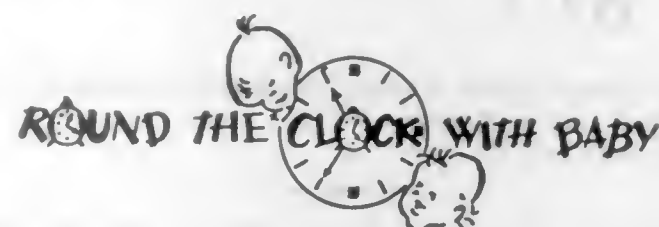
For Package Displaying Support in the Nature of a Receptacle.  
Use since May 6, 1954.

SN 671,585. Racine Hydraulics & Machinery, Inc., Racine, Wis. Filed Aug. 12, 1954. Sec. 2(f).

## RACINE

For Oil Reservoirs for Use in Hydraulic Circuits.  
Use since 1936 on the goods specified; and since 1909 as to "Racine."

SN 675,980. Glasco Products Company, Chicago, Ill. Filed Nov. 3, 1954.



Applicant claims ownership of Reg. No. 428,145. For Drinking Cups Which Are Formed of Plastic Material.  
Use since on or about Jan. 1, 1947.

SN 681,098. New York Shipbuilding Corporation, d. b. a. Nesco, division of New York Shipbuilding Corporation, Milwaukee, Wis. Filed Feb. 4, 1955.

## DECORRYTE

For Household Waste Baskets and Hamper Baskets.  
Use since July 5, 1954.

SN 681,864. Marathon Corporation, Menasha, Wis. Filed Feb. 17, 1955.

## DINE / OUT

For Cartons for Packaging Cooked Foods.  
Use since Jan. 14, 1955.

SN 682,613. Armstrong Cork Company, Lancaster, Pa. Filed Mar. 2, 1955.

## OPALITE

For Coated Ointment Jars.  
Use since Feb. 16, 1955.

SN 683,310. The Powell Pressed Steel Company, Hubbard, Ohio. Filed Mar. 11, 1955.

## FLOW - MATION

For Material Handling Boxes and Stands for Supporting the Same and Receiving Contents Therefrom.  
Use since Nov. 1, 1954.

SN 683,652. Armstrong Bros. Tool Co., Chicago, Ill. Filed Mar. 17, 1955.



Applicant claims ownership of Reg. Nos. 34,326, 247,009, and 95,975.

For Tool Containers in the Form of Tool Boxes, and Tool Cabinets, Folders and Rolls of Flexible Material.  
Use since June 1895 on tool boxes.

SN 683,729. Tension Envelope Corporation of Kansas City, Kansas City, Mo. Filed Mar. 17, 1955.



For Packaging Envelopes.  
Use since Jan. 12, 1955.

### CLASS 3

SN 675,488. Kopf Manufacturing Co., Inc., New York, N. Y. Filed Oct. 26, 1954. Sec. 2(f).

## VERMONT

For Hoppie for Pacing Horses.  
Use since January 1931.

### CLASS 4

SN 673,382. James Reichenback, d. b. a. Porta-Pot Co., Port Arthur, Tex. Filed Sept. 17, 1954.



For Cleaning and Polishing Preparation for Appliances.  
Use since May 3, 1954.



Applicant claims ownership of Reg. No. 435,176. For Silver and Metal Polish and Window Cleaner and Polish.  
Use since April 1936 on window cleaner and polish.

### CLASS 5

SN 670,889. American Cyanamid Company, New York, N. Y. Filed Aug. 2, 1954.

## ACCOFORM

For Glaze Bonding Agent.  
Use since July 8, 1954.

SN 678,113. John A. Herrmann, d. b. a. The Tape Mark Company, St. Paul, Minn. Filed Dec. 10, 1954.

## TapeMark

For Labeling Strips Having Pressure-Sensitive Adhesive Coating.  
Use since Jan. 2, 1951.

SN 680,601. Holden Patent Book Cover Co., Springfield, Mass. Filed Jan. 27, 1955.



For Plastic Liquid Adhesive for Repairing Books and the Leaves Thereof and the Like.  
Use since Jan. 3, 1955.

SN 682,061. Quaker Chemical Products Corporation, Conshohocken, Pa. Filed Feb. 21, 1955.

## QUABOND

For Bonding Agents for Fibrous Materials, Pigments, Cements, Paper, Leather, Textiles, and Metals.  
Use since Dec. 29, 1954.

### CLASS 6

SN 649,419. Geigy Company, Inc., New York, N. Y., now by merger and change of name Geigy Chemical Corporation. Filed June 26, 1953.

## CHLOROBENZILATE

For Acaricides and Miticides.  
Use since Apr. 17, 1953.



SN 652,400. L. H. Kellogg Chemical Co., Minneapolis, Minn. Filed Aug. 27, 1953.

# KB-500

For Bactericide Used in Embalming.  
Use since June 3, 1953.

SN 663,866. Aries Laboratories, Inc., New York, N. Y. Filed Apr. 5, 1954.

# ARITEMP

For Synthetic Chemical Resins and Resin Compositions for Use in the Industrial Arts.  
Use since Feb. 2, 1953.

SN 663,888. Dust-A-Way, Incorporated, Memphis, Tenn. Filed Apr. 5, 1954.

# DUST-A-WAY

For Liquid Chemical for Application to Dust Mops and Dust Cloths for Causing Dust To Adhere and Preventing Dust From Scattering During Cleaning of Furniture and Floors.  
Use since Oct. 14, 1952.

SN 665,972. United States Movidyn Corporation, Chicago, Ill. Filed May 7, 1954.

# SLIMODYN

For Activated Colloidal Silver Compound for the Control and Destruction of Slime in the Stock System of Paper Mills.  
Use since Feb. 4, 1954.

SN 669,220. United States Movidyn Corporation, Chicago, Ill. Filed June 30, 1954.

# MICRODYN

For Compound for the Control and Destruction of Slime in the Stock System of Paper Mills.  
Use since Apr. 7, 1954.

SN 669,223. Veterinary Specialty Co. Inc., Miami, Fla. Filed June 30, 1954.

# TICK-em

For Insecticidal Spray.  
Use since on or about May 1, 1953.

SN 669,247. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed July 1, 1954.

# HYLENE

Applicant claims ownership of Reg. No. 532,789.  
For Organic Isocyanates for Use in Reactions With Active Hydrogen of Any Substance Where Chain Extending or Cross Linking Are Desired.  
Use since May 4, 1954.

SN 670,565. Geigy Chemical Corporation, New York, N. Y. Filed July 26, 1954.

# GY-TRETE

Applicant claims ownership of Reg. No. 500,519.  
For Fungicides.  
Use since Mar. 25, 1953.

SN 670,738. Geigy Chemical Corporation, New York, N. Y. Filed July 28, 1954.

# LO-V

For Herbicides.  
Use since June 12, 1951.

SN 670,799. The Pemble Laboratories, River Falls, Wis. Filed July 29, 1954.

# OTAB

For Oxygen Composition Packaged in a Moisture-Proof Container, Adapted, When Open, To Be Placed in Waters Containing Live Bait for Maintaining the Oxygen Concentration of Such Waters.  
Use since July 1, 1940.

SN 673,306. Sluys Rockford, Inc., d. b. a. Sluys, Rockford, Mich. Filed Sept. 16, 1954.

# SNOW WHITE 900

For Essential Oils, Synthetic Odoriferous Substances, Isolated Odoriferous Substances, and/or Mixtures Thereof.  
Use since Jan. 1, 1951.

SN 675,342. Consortium de Produits Chimiques et de Synthèse, Bezons, Seine-et-Oise, France. Filed Oct. 19, 1954.

# RHÉON-V

Applicant claims ownership of French Reg. No. 6,029, dated Jan. 6, 1954.  
For Synthetic Resins and Solutions Thereof; Synthetic Resinous Compositions; Synthetic Plastics; Plastic Material Solutions; Plasticizers; Emulsifiers; Esters; Chemicals Used in the Industry of Synthetic Plastics.

SN 675,988. Hercules Powder, Company, Wilmington, Del. Filed Nov. 3, 1954.

# DELRAD

For Amine Derivative Used as an Algicide or Water Treating Agent.  
Use since June 25, 1954.

SN 676,214. C. C. McMillan, Portland, Ore. Filed Nov. 8, 1954.

# kemaloid

For Chemical Preparation Used as a Water Purifying Composition and a Scale and Corrosion Inhibitor.  
Use since Aug. 8, 1954.

SN 676,437. Quick Chemical Corporation, Chicago, Ill. Filed Nov. 1, 1954.

# Quickway

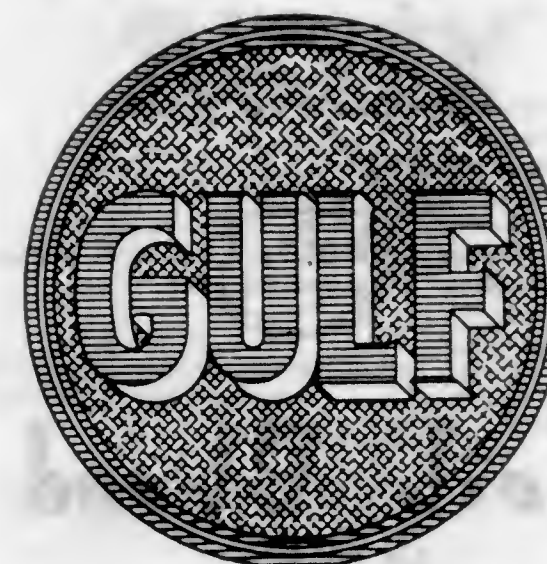
For Pesticides, Rodenticides, and Insecticides.  
Use since Aug. 25, 1952.

SN 676,961. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.

# GULF

Applicant claims ownership of Reg. Nos. 344,601 and 374,936.  
For Insecticides.  
Use since on or about July 1925.

SN 676,962. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 344,601 and 374,936.  
For Insecticides.  
Use since on or about July 1925.

SN 677,105. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Nov. 22, 1954.

# PUF

For Rinse Used as a Textile Softener.  
Use since Nov. 17, 1954.

# WELTONE

For Chemical Compositions Used in Restoring the Production of Underground Wells.  
Use since Aug. 20, 1954.

SN 677,451. Ernest Scherer, d. b. a. Scherer's Rolup Ink Co., Grosse Pointe Farms, Mich. Filed Nov. 29, 1954.

# ROLUP

Applicant claims ownership of Reg. No. 324,605.  
For Acid Resistant Preparation for Etching Half Tone Plates.  
Use since Dec. 1, 1934.

SN 678,010. Will Corporation, Rochester, N. Y. Filed Dec. 8, 1954.

# DIAPHANE

For Mounting Medium for Microscopic and Biological Specimens and Solvents for Such a Mounting Medium.  
Use since Apr. 20, 1924.

SN 678,579. A. & T. Chemical Co., Richmond Hill, Ga. Filed Dec. 20, 1954.

# GEECHEE



For Bleach.  
Use since Dec. 9, 1954.

SN 679,666. Charles J. Lindgren, d. b. a. The Tricosal Company, San Francisco, Calif. Filed Jan. 10, 1955.

# TRICOSAL

For Cement Additive Sold in Liquid and Dry Form.  
Use since on or about Nov. 1, 1937.

SN 680,312. Tyleno Plastics, Inc., Lakeland, Ind. Filed Jan. 21, 1955.

# Tylene

For Synthetic Resins and Plastics Used in Tooling.  
Use since Dec. 15, 1954.

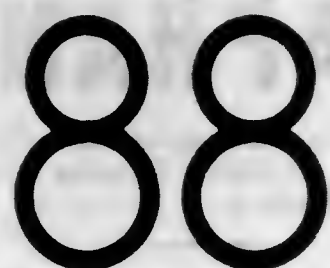


SN 680,313. Tylene Plastics, Inc., Lakeland, Ind. Filed Jan. 21, 1955.



The drawing is lined for rust or brown, but no claim is made to a color per se.  
For Synthetic Resins and Plastics Used in Tooling.  
Use since Dec. 15, 1954.

SN 680,318. Universal Oil Products Company, Des Plaines, Ill. Filed Jan. 21, 1955.



For Additives to Organic Substrates.  
Use since Oct. 28, 1954.

## CLASS 7

SN 666,963. Nathaniel H. Kolmes, d. b. a. Louis Kolmes & Son, New York, N. Y. Filed May 24, 1954.



The word "Brand" and the word "Cordage" are disclaimed apart from the mark as shown.  
For Cord and Twine.  
Use since Nov. 1, 1953.

SN 677,884. Le Tourneau-Westinghouse Company, Peoria, Ill. Filed Dec. 7, 1954.

# TOURNAROEPE

For Wire Rope.  
Use since Aug. 28, 1941.

## CLASS 9

SN 668,929. Red Line Commercial Company, Inc., New York, N. Y. Filed June 25, 1954.



## THE TWINS BRAND

For Safety Matches.  
Use since on about Oct. 1, 1952.

## CLASS 10

SN 658,439. The Davison Chemical Corporation, Baltimore, Md., now by merger W. R. Grace & Co. Filed Dec. 23, 1953.

# BULL DOG

Applicant claims ownership of Reg. No. 73,337.  
For Fertilizers.  
Use since on or about 1927.

SN 659,263. Stanley A. Humphrey, d. b. a. U. S. Nitrate Co., Minneapolis, Minn. Filed Jan. 11, 1954.

# Soil Blood

For Mineral Soil Fertilizer Material.  
Use since Dec. 22, 1953.

SN 671,138. Chemco, Audubon, Iowa. Filed Aug. 5, 1954.



The drawing is lined for green.  
For Anhydrous Ammonia.  
Use since about Mar. 1, 1953.

SN 673,758. National Fertilizer Co., Kansas City, Mo. Filed Sept. 24, 1954.



The drawing is lined for blue.  
For Fertilizer.  
Use since Sept. 1, 1954.

SN 676,116. International Minerals & Chemical Corporation, Chicago, Ill. Filed Nov. 5, 1954.

# CRACKERJACK

For Fertilizers.  
Use since in the year 1925.

SN 677,542. Bactex Co., Inc., San Antonio, Tex. Filed Dec. 1, 1954.



For Organic and Mineral Fertilizer.  
Use since in the year 1950.

SN 677,827. Tennessee Corporation, New York, N. Y. Filed Dec. 6, 1954.



For Nutritional Manganese Compound Used as Fertilizer.  
Use since Oct. 4, 1954.

SN 678,271. Spencer Chemical Company, Kansas City, Mo. Filed Dec. 13, 1954. Sec. 2(f).

# SPENCER

Applicant claims ownership of Reg. Nos. 504,920, 506,126, and others.  
For Ammonium Nitrate Fertilizer.  
Use since June 30, 1946.

TM 696 O. G.—12

## CLASS 12

SN 652,166. Canadian Western Lumber Company, Limited, Vancouver, British Columbia, Canada. Filed Aug. 24, 1953.



The lines indicate red. Applicant claims ownership of Canadian Register 56, Folio 13765, dated June 18, 1909, and Register 67, Folio 16410, dated Nov. 8, 1911; and U. S. Reg. No. 283,628, expired.

For Lumber and Lumber Products of Douglas Fir, Hemlock, Spruce, and Cedar—Namely, Red Cedar Shingles, Douglas Fir Doors, Douglas Fir Plywood, Mouldings, Flooring, Sheathing, and Window Frames.

SN 656,804. Kaiser Gypsum Company, Inc., Oakland, Calif. Filed Nov. 23, 1953.



For Lath and Wallboard.  
Use since Oct. 1, 1952.

SN 663,919. The Jaye Corporation, Watertown, Wis. Filed Apr. 5, 1954.



For Toilet Tank Liners and Pipe Covering Made of Cellular Material.  
Use since Apr. 15, 1953.

SN 667,484. Weyerhaeuser Sales Company, St. Paul, Minn. Filed June 1, 1954.

# WEYERHAEUSER DRIFTWOOD PANELING

No claim is made to the word "Paneling" apart from the mark as shown.  
For Decorative Wood Paneling Manufactured From Defective Fir.  
Use since Mar. 12, 1948.



SN 669,153. Steel Corner Tape Corporation, Jamaica, N. Y. Filed June 29, 1954. SN 674,336. Keasbey & Mattison Company, Ambler, Pa. Filed Oct. 5, 1954.

## FLEX-CORNER

For Reinforcing Edging for Inside and Outside Corners of Walls, Comprising Metal Strips Mounted on Paper Tape. Use since Apr. 1, 1954.

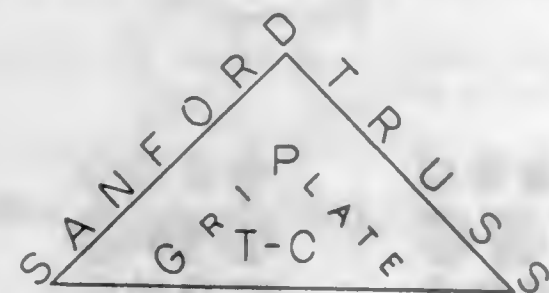
SN 669,815. Sidall Industries, Inc., Detroit, Mich. Filed July 12, 1954.

## MURAL STONE

The word "Stone" is disclaimed apart from the mark as shown.

For Individually Cast Artificial Stone Used in Interior and Exterior Building Construction. Use since Feb. 10, 1954.

SN 671,123. A. Carol Sanford, d. b. a. Sanford Associates, Fort Lauderdale, Fla. Filed Aug. 4, 1954. Sec. 2(f).



For Structural Joint Reinforcing Plates. Use since on or about May 8, 1954.

SN 671,867. Rubbercrete Limited, Toronto, Ontario, Canada. Filed Aug. 17, 1954.

## VINYLCRETE

Applicant claims ownership of Canadian Reg. No. NS 47,536, Register 187, dated Mar. 5, 1954.

For Fire Retardant Plastic Composition Adapted To Be Trowelled on Exterior and Interior Surfaces in Thicknesses of From One-Eighth Inch Up.

Subj. to Intf. with SN 676,562.

SN 672,090. Masonite Corporation, Chicago, Ill. Filed Aug. 23, 1954.

## RIDGEWOOD

For Fiber Board, Insulating Board, Composite Board, Construction Board, Hardboard, and Synthetic Lumber or Artificial Lumber Used for Various Construction Purposes. Use since July 15, 1954.

SN 672,929. Crane Packing Company, Chicago, Ill. Filed Sept. 9, 1954.



For Plastic Sealing Compounds Designed for Application to Mating Threaded Parts To Prevent Binding Thereof. Use since on or about Apr. 5, 1954.

## "NU-WRAP"

For Insulating Jackets and Coverings, Particularly Adapted for Applications to Pipes.

Use since on or about Aug. 2, 1954.

SN 676,658. Pittsburgh Corning Corporation, Pittsburgh, Pa. Filed Nov. 15, 1954.

## Suntrol

For Glass Blocks and Shapes for Architectural Uses. Use since Aug. 23, 1954.

SN 676,875. Crow Lumber Company, Vermillion, Ohio. Filed Nov. 18, 1954.



The word "Homes" is disclaimed apart from the mark as shown.

For Pre-Cut, Pre-Framed, and Prefabricated Homes. Use since Aug. 4, 1954.

SN 677,606. Republic Powdered Metals, Inc., Cleveland, Ohio. Filed Dec. 1, 1954.

## ALUMAGLAS

For Roofing and Insulating Membrane. Use since Oct. 18, 1954.

SN 677,764. Casco, Inc., d. b. a. Sunlight Steel Corporation, Denver, Colo. Filed Dec. 6, 1954.

## "PLASTER-LOK"

For Metal Door Frames. Use since July 21, 1954.

SN 677,970. Midwest Industrial Products Corp., Chicago, Ill. Filed Dec. 8, 1954.

## CHEM-O-CRETE

For Oxychloride Cement Floor Resurfacer. Use since June 12, 1950.

SN 678,283. United States Gypsum Company, Chicago, Ill. Filed Dec. 13, 1954.

## TRUS-LOK

For Metallic Clips for Attaching Building Boards. Use since May 27, 1954.

SN 678,541. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 17, 1954. SN 681,123. Flash-Stone Company, Inc., Philadelphia, Pa. Filed Jan. 26, 1955.

## CORKTONE

For Asphalt Floor and Wall Tile. Use since Nov. 22, 1954.

SN 680,514. Capitol Products Corporation, Mechanicsburg, Pa. Filed Jan. 26, 1955.

## CUSTOM CRAFT

For Storm Doors, Storm Windows, and Storm Door and Screen Door Combinations. Use since Aug. 16, 1954.

SN 680,515. Charmador Corporation, Mechanicsburg, Pa. Filed Jan. 26, 1955.

## CHARMADOR

For Storm Doors, Storm Windows, and Storm Door and Screen Door Combinations. Use since Sept. 11, 1954.

SN 680,734. Dant & Russell, Inc., Vancouver, Wash. Filed Jan. 31, 1955.



For Building Materials—Namely, Lumber, Acoustical Tile, Insulating Boards, Hardboard, and Window and Door Frames. Use since on or about Sept. 1, 1953.

SN 680,762. George W. Landreth, d. b. a. Perma-Sta Window & Awning Manufacturers, Blue Mound, Ill. Filed Jan. 31, 1955.

## PERMA-STA

For Aluminum Combination Windows and Doors, and Plastic Glass Awnings. Use since Jan. 1, 1954.

SN 680,763. Louisiana Concrete Products, Inc., Baton Rouge, La. Filed Jan. 31, 1955.

## LACRETE

For Concrete Building Blocks. Use since Sept. 11, 1947.

## ANCOR

For Floor Surfacing Plates. Use since Apr. 15, 1954.

SN 681,452. Roxseal Company, Inc., Long Island City, N. Y. Filed Feb. 10, 1955.

## ROXSEAL

Applicant claims ownership of Reg. No. 354,748. For Mastic for Use as a Surfacing Material or as a Patching Material for Floors, Stair Treads, Decks, Driveways; Grout, and Binder Therefor; Floor Underlayment for Application by Means of a Trowel; and a Membrane for Waterproofing Floors, Walls, and Roofs. Use since Jan. 29, 1937.

SN 681,487. A. Bruene & Co., East Rutherford, N. J. Filed Feb. 11, 1955.

## JALOWALL

For Combination Wall Panel With Jalousie Window Insert. Use since in or about August 1954.

SN 681,494. Craft Metal Products, Inc., Hoboken, N. J. Filed Feb. 11, 1955.

## Sunalite

For Aluminum Awnings. Use since Jan. 7, 1955.

SN 681,721. Syn-Ston, Inc., Kenton, Ohio. Filed Feb. 15, 1955.

## Syn-Ston

For Decorative Building Tiles. Use since June 1, 1954.

SN 681,983. Bellevue Metal Products, Los Angeles, Calif. Filed Feb. 21, 1955.

## "BELLEVUE"

For Sliding Glass Doors. Use since Feb. 3, 1955.



SN 682,015. Interstate Brick Company, Salt Lake City, Utah. Filed Feb. 21, 1955.



The drawing is shaded to indicate color as follows: The hat of the brick man light greenish tan; the face and neck light buff; the waistband and feet dark purplish; the trunk of the body, arms and legs light reddish; waistband-mortar black, other mortar buff color, in accordance with the specimens. Applicant claims ownership of Reg. No. 201,726.

For Bricks of All Kinds Employed in Building and for Like Purposes, Comprising Glazed Brick, Mantel Brick, Face Brick, Common Brick, Fire Brick; Also for Sewer Pipe, Drain Tile, Flue Lining, Hollow Building Tile, and Partition Tile. Use since Dec. 15, 1924.

SN 682,051. Pabco Products Inc., San Francisco, Calif. Filed Feb. 21, 1955.

# PRASCO

For Thermal Insulating Material Composed Primarily of Calcareous Siliceous Materials Containing Asbestos Fibers. Use since about 1930.

SN 682,137. Emco Cement Products, Inc., Paxinos, Pa. Filed Feb. 23, 1955.

# EMCO-ROK

For Artificial Building Stone. Use since Oct. 1, 1954.

SN 682,268. Johns-Manville Corporation, New York, N. Y. Filed Feb. 24, 1955.

# QLF

For Powder and Emulsion Sold for Mixing Together To Form Floor Underlayment Material, Especially for Railway Passenger Cars. Use since Dec. 23, 1954.

SN 682,486. Rock-Tred Corporation, Skokie, Ill. Filed Feb. 28, 1955.

# ANKOR-SET

For Powdered Cementitious Compound for Filling Bolt Holes and Small Holes and Cracks in Cement. Use since Nov. 2, 1953.

## CLASS 13

SN 654,010. Stahl-Armaturen G. m. b. H., Beleck (Möhne), Germany. Filed Sept. 30, 1953.



Applicant claims ownership or German Reg. No. 605,581, dated Mar. 7, 1951.

For Finished Valves and Slides for Use in Pipe Lines of Industrial Installations.

SN 659,289. Mardigan Corporation, Detroit, Mich. Filed Jan. 11, 1954.

# finger-band

For Mixing Bowls. Use since Nov. 18, 1953.

SN 666,155. Gebrüder Filtbaut, Bospelde, Westphalia, Germany. Filed May 10, 1954.



Applicant claims ownership of German Reg. No. 495,262, dated July 22, 1937. For Curtain Hardware.

SN 666,546. Spraying Systems Co., Bellwood, Ill. Filed May 17, 1954. Sec. 2(f).

# BOOMJET

For Nozzles for Spraying Herbicides, Insecticides, and Other Liquids. Use since on or about Jan. 1, 1949.

SN 675,945. M. P. White Co., Boston, Mass. Filed Oct. 27, 1954.

# DRAINMASTER

For Syphon Fitting for Attachment to a Water Faucet and Hose Line for Drawing Water From Flooded Basements or Other Areas or Containers. Use since May 11, 1952.

SN 679,219. Draproll Company, Inc., Nashville, Tenn. Filed Dec. 31, 1954.

# "DRAPROLL"

For Roller Bearing Drapery Tracks. Use since on or about May 21, 1954.

SN 679,536. Softee-Seat Toilet Seat Company, Philadelphia, Pa. Filed Jan. 6, 1955.

# SOFTEE-SEAT

For Cushioned Toilet Seat. Use since Sept. 20, 1954.

SN 680,075. Gyro Brass Manufacturing Corporation, Westbury, N. Y. Filed Jan. 18, 1955.

# GYRO

For Mixing Valves, Faucets, Sprays, and Soap Trays. Use since May 8, 1954.

SN 680,107. Edmund A. Spieldenner, d. b. a. Eddie A. Spieldenner, Fostoria, Ohio. Filed Jan. 18, 1955.



For Drapery or Curtain Support Adjuster. Use since Dec. 17, 1954.

SN 680,119. R. D. Werner Co. Inc., New York, N. Y. Filed Jan. 18, 1955.

# ARDEE

For Metal Sink Frames. Use since Sept. 21, 1950.

SN 680,414. Ravenna Metal Products Corporation, Seattle, Wash. Filed Jan. 24, 1955. Sec. 2(f).

# MOEN

For Fluid Valves—Namely, Faucets. Use since May 1946.

## CLASS 14

SN 624,919. American Electro Metal Corporation, Yonkers, N. Y. Filed Feb. 14, 1952.

# BOROLITE

For Refractory Powder Material Such as a Metal Boride With or Without Added Bonding Material, and Particularly Refractory Metal Boride Powder and Shapes or Bodies Made Therefrom for Forming Into Rods, Nozzles, Blades, Crucibles, Flame Holders, Ducts, Cylinders, Tubes. Use since Nov. 27, 1951.

SN 663,782. Grayline Specialties Co., New York, N. Y. Filed Apr. 2, 1954.



For Metal Tape, Comprising an Alloy of 98 Percent Lead, Balance Tin and Antimony. Use since Dec. 31, 1953.

SN 664,496. Aluminum Industries, Inc., Cincinnati, Ohio. Filed Apr. 14, 1954.



For Aluminum, Alloy Castings, Consisting Principally of Aluminum and Copper, Aluminum and Silicon, Aluminum and Zinc. Use since on or about Jan. 1, 1931.

SN 675,406. Latrobe Steel Company, Latrobe, Pa. Filed Oct. 25, 1954.

# ELECTRITE CORSAIR

Applicant claims ownership of Reg. Nos. 119,089 and 553,951. For Shock Resisting and High Speed Steels. Use since July 16, 1954.

SN 675,407. Latrobe Steel Company, Latrobe, Pa. Filed Oct. 25, 1954.

# ELECTRITE ULTRA-VAN

Applicant claims ownership of Reg. Nos. 119,089 and 553,951. For Shock Resisting and High Speed Steels. Use since July 22, 1954.



## CLASS 15

SN 643,714. The Pure Oil Company, Chicago, Ill. Filed Mar. 16, 1953. Sec. 2(f).

# Sensitized

For Gasoline and Other Motor Fuel Oils.  
Use since on or about Feb. 25, 1953.

SN 661,223. Perfect Power Corporation, Chicago, Ill. Filed Feb. 17, 1954.

# Perfect Flame

For Furnace Oil.  
Use since on or about Jan. 1, 1950.

SN 663,530. Strauss Stores Corporation, Maspeth, N. Y. Filed Mar. 29, 1954.

# Big Town

For Motor Oil and Lubricating Greases.  
Use since Oct. 14, 1952.

SN 676,964. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 342,770 and 379,158.  
For Motor Fuel Additive for Conditioning the Fuel System of an Internal Combustion Engine.  
Use since on or about June 1, 1952.

SN 676,965. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.

# GULF

Applicant claims ownership of Reg. Nos. 342,770 and 379,158.  
For Motor Fuel Additive for Conditioning the Fuel System of an Internal Combustion Engine.  
Use since on or about June 1, 1952.

SN 676,967. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 342,770 and 379,158.  
For Corrosion Inhibiting Chemical Composition for Home Fuel Oil Tanks.  
Use since on or about Oct. 22, 1953.

SN 676,968. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.

# GULF

Applicant claims ownership of Reg. Nos. 342,770 and 379,158.  
For Corrosion Inhibiting Chemical Composition for Home Fuel Oil Tanks.  
Use since on or about Oct. 22, 1953.

SN 676,973. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 342,770 and 379,158.  
For Foam Suppressing Additive for Lubricating Oils.  
Use since on or about June 15, 1944.

## CLASS 16

SN 676,562. Vinylcrete, Inc., Chicago, Ill. Filed Nov. 12, 1954.

# VINYLCRETE

For Surface Coating Compound Applied as by Brushing, Spraying, or Troweling.  
Use since on or about June 1, 1954.  
Subj. to Intf. with SN 671,867.

SN 678,003. The Tremco Manufacturing Company, Cleveland, Ohio. Filed Dec. 8, 1954. SN 674,413. Noramex Company, Inc., New York, N. Y. Filed Oct. 6, 1954.

# TREMSHIELD

For Asphaltic Emulsion Roof Coating.  
Use since Sept. 29, 1954.

## CLASS 18

SN 663,716. D. V. Bell, d. b. a. The Belpoint Company, Seattle, Wash. Filed Apr. 1, 1954.

# OROSTAT

For Medical Preparation for Use as a Dental Hemostat.  
Use since on or about Dec. 1, 1953.

SN 665,160. H. W. Woods Proprietary Limited, Melbourne, Victoria, Australia. Filed Apr. 23, 1954.

# RELAXA-TABS

Applicant claims ownership of Australian Reg. No. 105,171, dated Jan. 18, 1951.  
For Medicinal Preparation in Tablet Form for Calming the Central Nervous System.

SN 666,768. S. Maw, Son & Sons Limited, Aldersgate House, Barnet, England. Filed May 20, 1954.

# ARTHIGON

Applicant claims ownership of British Reg. No. 346,384, dated Oct. 18, 1912.  
For Medical Preparation Designed To Relieve Rheumatic Pains.

SN 667,237. G. C. Hanford Mfg. Company, Syracuse, N. Y. Filed May 27, 1954.

# Masti-Treat

For Preparation for the Treatment of Mastitis in Dairy Cows.  
Use since Mar. 10, 1954.

SN 668,558. Green's A. N. R. Ltd., Victoria, British Columbia, Canada. Filed June 21, 1954.

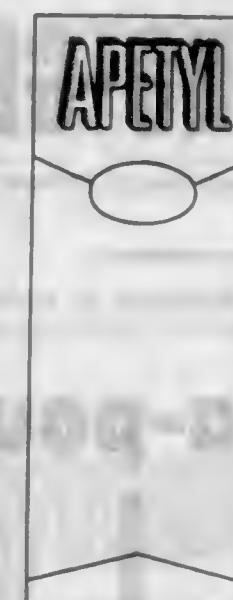


For Digestive Tonic in Liquid Form for the Assistance of Relief of Pain of Arthritis, Nurtis, and Rheumatism.  
Use since Nov. 5, 1953.

SN 671,759. Eli Lilly and Company, Indianapolis, Ind. Filed Aug. 16, 1954.

# SANDRIL

For Medicinal Preparation of Reserpine Used in the Treatment of Essential Hypertension.  
Use since June 25, 1954.



For Medicinal Preparation Combining the Active Principles of the Vitamin B Complex, With Mineral Glycerophosphates. Having Tonic Properties, and Indicated as a Stimulant to the Appetite and in Conditions of General Debility.  
Use since in or about July 1947.

SN 675,806. Edwin Lee Leisenring, d. b. a. U. S. Drug Laboratories, Denver, Colo. Filed Nov. 1, 1954.

# ALKAMINT

Applicant claims ownership of the mark shown in expired Reg. No. 314,653.  
For Medicinal Mixture of Alkaline Powders Operative to Overcome Acidity in the Human Digestive System.  
Use since Aug. 7, 1931.

SN 676,065. S. J. Tutag & Company, Detroit, Mich. Filed Nov. 4, 1954.

# TUTAG

For Sanitizing Solutions, Sedative Tablets, Skin Protective Cream, Vaginal Inserts, Hormone Compounds, Compounds for the Relief of Hyper-Tension, Piperazine Citrate Syrup, Anti-Histamine Injection Solutions, Perparin Compound, Injectable Analgesic Salicylate Compound for Osteo-Arthritis, Compound for the Relief of Asthma, Pain Relieving Tablets and Suspensions, Tablets for the Control of Obesity, Tablets for the Treatment of Rheumatism, Injection Compounds for the Treatment of Anemia, Vitamin Capsules, Time Disintegration Capsules, Tablets for the Relief of Hyper-Tension, Dietary Supplement Tablets, Anti-Bacterial Tablets.  
Use since January 1944.

SN 676,182. Norman Dartell, d. b. a. Dartell Laboratories, Los Angeles, Calif. Filed Nov. 8, 1954.

# LIPOTRATE

For Dietary Food Supplement Composed of Vitamins and Minerals.  
Use since June 10, 1954.



SN 676,324. Live Food Products Co., d. b. a. U. S. Nutritional Service, Burbank, Calif. Filed Nov. 9, 1954.

## EMBRO-GEN

For Multiple Vitamin and Mineral Preparation.  
Use since Oct. 23, 1954.

SN 676,325. John H. Mathis, d. b. a. Add-A-Pound Company, Chicago, Ill. Filed Nov. 9, 1954.

## add-a-pound

For Edible Wafers Containing Milk Solids, Dextrose, Oils, Minerals, and Vitamins for Use as Dietary Supplement for Increasing Caloric Intake.

Use since on or about Sept. 24, 1954.

SN 676,353. American Cyanamid Company, New York, N. Y. Filed Nov. 10, 1954.

## PENACAIN

For Penicillin Preparation.  
Use since Oct. 28, 1954.

SN 676,505. Robert Lee Lang, d. b. a. Lang Brothers, Paducah, Ky. Filed Nov. 12, 1954.

## BULKETTE

For Adjunct in the Treatment of and Indicated for Use With Restricted Diets Prescribed by the Physician for the Control of Overweight.  
Use since June 11, 1953.

SN 676,546. Harold Smetana, d. b. a. Smetana Laboratories, Hopkins, Minn. Filed Nov. 12, 1954.

## Wonderlan

For Medicated Skin Cream.  
Use since February 1953.

SN 676,692. The Wander Company, d. b. a. Smith-Dorsey, Chicago, Ill. Filed Nov. 15, 1954.

## Guia-Camph

Applicant claims ownership of Reg. No. 423,837.  
For Product for Use as an Inhalant or for Chest Application.  
Use since Oct. 26, 1954.

SN 676,711. Chicago Pharmacal Company, Chicago, Ill. Filed Nov. 16, 1954.

## TROBITAL

For Medicinal Preparation Adapted for Use in Treatment of Gastric Ulcers, in Treatment in Spastic Colon, and in Treatment of Tension States Where Digestion and Assimilation Are Impaired.

Use since Dec. 4, 1951.

SN 676,789. Creomulsion Company, Atlanta, Ga. Filed Nov. 17, 1954.

## CREOZETS

Applicant claims ownership of Reg. No. 144,186.  
For Cough and Throat Lozenges.  
Use since Nov. 1, 1954.

SN 676,976. International Minerals & Chemical Corporation, Chicago, Ill. Filed Nov. 19, 1954.



Applicant claims ownership of Reg. No. 503,786.  
For Dicalcium Phosphate, Principally Used as an Animal and Plant Food Supplement.  
Use since Apr. 21, 1954.

SN 676,998. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 19, 1954.

## KIDZ

For Vitamin-Mineral Preparation.  
Use since Oct. 16, 1954.

SN 676,999. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 19, 1954.

## Comterra

For Vitamin-Mineral Preparation.  
Use since Jan. 9, 1950.

SN 677,163. Lewis E. Miller, d. b. a. Milderm Research Laboratories, Philadelphia, Pa. Filed Nov. 23, 1954.

## ORAL IVY

For Liquid Preparation for Use Orally as a Prophylactic and in the Treatment of the Symptoms Due to Ivy Poisoning.  
Use since Sept. 9, 1953.

SN 677,168. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 23, 1954.

## TERRAMIX

For Antibiotic Feed Supplement.  
Use since Nov. 4, 1954.

SN 677,170. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 23, 1954.

## ROEBOLIC

For Combination of Hormones, Vitamins, and Minerals.  
Use since Sept. 22, 1954.

SN 677,171. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 23, 1954.

## ROEDERM

For Combination of Hormones, Vitamins, and Minerals.  
Use since Sept. 22, 1954.

SN 677,193. American Cyanamid Company, New York, N. Y. Filed Nov. 24, 1954.

## PROSULFAS

For Sulfonamide Preparation for Veterinary Use.  
Use since Oct. 29, 1954.

SN 677,586. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Dec. 1, 1954.

## COMPONEF

For Cortical Steroid Preparation.  
Use since Nov. 18, 1954.

SN 677,590. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Dec. 1, 1954.

## COTRANUL

For Anticholinergic Preparation.  
Use since Sept. 24, 1954.

SN 678,384. Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Filed Dec. 15, 1954.

## RESOCHIN

Applicant claims ownership of German Reg. No. 602,220, dated Nov. 2, 1950.  
For Anti-Malarial Preparation.

SN 679,009. Dr. Salsbury's Laboratories, Charles City, Iowa. Filed Dec. 27, 1954.

## WAVAC

For Newcastle Disease Vaccine for Use in Drinking Water for Chickens, Turkeys, and Other Poultry.  
Use since on or about Aug. 5, 1954.

SN 679,507. Armour and Company, Chicago, Ill. Filed Jan. 6, 1955.

## INFILTRASE

For Hyaluronidase.  
Use since Mar. 23, 1953.

SN 679,523. Fort Dodge Laboratories, Inc., Fort Dodge, Iowa. Filed Jan. 6, 1955.

## DISTOHEP

For Canine Distemper Vaccine and Infectious Canine Hepatitis Vaccine in Bronchisepticus-Streptococcustyphimurium Bacterin, for Veterinary Use.  
Use since Aug. 25, 1954.

SN 679,691. Vylactos Laboratories, Inc., Des Moines, Iowa. Filed Jan. 10, 1955.

## Dynasol

The drawing is lined for red and yellow.  
For Livestock and Poultry Feed Supplement.  
Use since Oct. 28, 1953.

SN 679,754. H. H. Barsky, d. b. a. I D N Products Co., Santa Monica, Calif. Filed Jan. 12, 1955.

## OCEAN-TONE

For Gentle-Acting Laxative for Use in Promoting Regularity and as an Aid in the Relief of Constipation.  
Use since Dec. 4, 1954.

SN 679,986. C. E. Fulford Limited, Carlton Hill, Leeds, England. Filed Jan. 17, 1955.

## CHOCSEN

Applicant claims ownership of British Reg. No. 714,168, dated Jan. 21, 1953.  
For Laxative.

SN 680,159. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 19, 1955.

## AMOEBIOTIC

For Antibiotic Preparation.  
Use since Sept. 22, 1954.

SN 680,160. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 19, 1955.

## UROCILLIN

For Antibiotic Preparation.  
Use since Sept. 29, 1954.

SN 680,161. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 19, 1955.

## AMOEBOMYCIN

For Antibiotic Preparation.  
Use since Sept. 22, 1954.



SN 680,162. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 10, 1955.

## AMOEBOCIDIN

For Antibiotic Preparation.  
Use since Sept. 30, 1954.

SN 680,319. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## Bio F-Cortef

For Preparation for the Treatment of Inflammatory Conditions.  
Use since Oct. 15, 1954.

SN 680,321. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## F-Cortef

For Preparation for the Treatment of Inflammatory Conditions.  
Use since Sept. 22, 1954.

SN 680,322. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## Gerizyme

Applicant claims ownership of Reg. No. 563,430.  
For Vitamin and Mineral Dietary Supplement.  
Use since Oct. 13, 1954.

SN 680,323. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## Neo F-Cortef

For Preparation for the Treatment of Inflammatory Conditions.  
Use since Oct. 15, 1954.

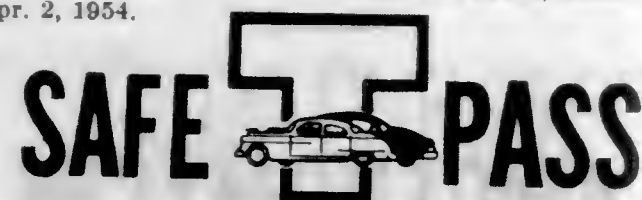
SN 680,324. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## Portamycin

For Antibiotic Preparation.  
Use since Oct. 12, 1954.

### CLASS 19

SN 663,853. Robert L. Warne, Sault Ste. Marie, Mich. Filed Apr. 2, 1954.



For Automobile Safety Device—Namely, Metal Plate Covered With Reflecting Agent To Be Attached to the Fender of an Automobile.  
Use since Jan. 15, 1954.

SN 664,144. Friddell Manufacturing Company, Galveston, Tex. Filed Apr. 8, 1954.

## Baby's FLYING SAUCER

For Combination Baby Stroller and Walker for Aiding Movement of Small Children.  
Use since Dec. 7, 1953.

SN 667,668. Anthony F. Billard, d. b. a. Auto Precision Parts Co., Mansfield, Pa. Filed June 4, 1954.

## APPCO

For Automobile and Truck Spring Shackles.  
Use since Sept. 20, 1953.

SN 667,840. Seat Cover Center, Fresno, Calif. Filed June 7, 1954.



Applicant disclaims the term "Sew It Yourself."  
For Package Containing Seat Cover Material, Cut to Pattern for the Various Makes and Models of Vehicles, Directions for Sewing, and Staples or Wire Hooks To Attach the Seat Covers to the Vehicle Seats.  
Use since Apr. 12, 1954.

SN 667,875. The Gabriel Company, Cleveland, Ohio. Filed June 8, 1954.

## AJUSTOMATIC

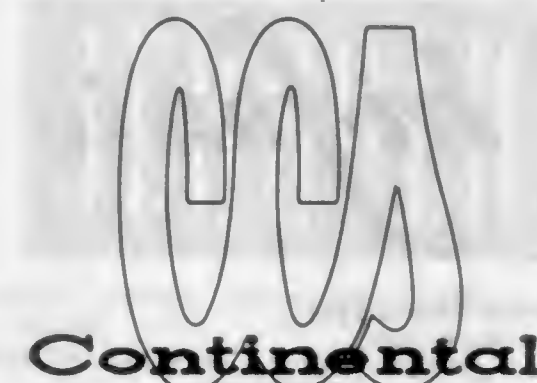
For Shock Absorbers for Motor Vehicles, Such as Automobiles and Trucks.  
Use since Mar. 30, 1954.

SN 668,032. Houdaille-Hershey Corporation, Detroit, Mich. Filed June 10, 1954.



For Automotive Shock Absorbers.  
Use since Mar. 12, 1954.

SN 668,154. Continental Copper & Steel Industries, Inc., New York, N. Y. Filed June 14, 1954.



For Motor Boats, Car Propelled Lifeboats, Hand Propelled Lifeboats, Motor Lifeboards, Inner-Hull Lifeboats, Life Floats, Buoyancy Floats, Life Rafts, Surf Boats, Work Boats, and Skiffs.  
Use since July 1, 1948.

SN 679,189. Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Fribourg, Switzerland. Filed Dec. 30, 1954.

## MINISTOP

Priority under Sec. 44(d). Swiss application filed Aug. 17, 1954, Reg. No. 152,652, dated Aug. 17, 1954.

For Automatic Brake Apparatus or Mechanisms for All Air or Land Vehicles, as Well as Their Spare Parts and Constituting Elements.

SN 685,075. Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Filed Mar. 7, 1955.

## TU-FLO

For Air Compressors for Automotive Vehicle Compressed Air Braking Systems.  
Use since November 1953.

SN 685,184. Glostex Products, Inc., Chicago, Ill. Filed Apr. 8, 1955.

## LUCKY

For Fabric Seat Covers for Use on Automobile Seats.  
Use since Sept. 24, 1953.

### CLASS 21

SN 622,886. Electrobloc Limited, Tamworth, England. Filed Dec. 27, 1951.



Applicant claims ownership of British Reg. No. B. 673,461, dated Oct. 11, 1948.

For Apparatus of the Type in Which Steam for Sterilizing or Other Industrial Purposes Is Generated by Contact of Water With a Metal Heat Storage Block.

SN 627,004. Orkin Exterminating Company, Inc., Atlanta, Ga. Filed Mar. 25, 1952. Sec. 2(f).

## ORKIN

Applicant claims ownership of Reg. Nos. 289,510, 568,410, and others.

For Electrical Vaporizers for Vaporizing Insecticides.  
Use since January 1926; and since on or about Jan. 25, 1952, on the goods herein named.

SN 653,369. The Gray Manufacturing Company, Hartford, Conn. Filed Sept. 18, 1953.



Applicant claims ownership of Reg. Nos. 376,890 and 517,216.

For Electrically Operated Remotely Controlled Sound Recording and Reproducing Machines and Controls Therefor.  
Use since September 1952.

SN 653,672. Champion Implement Corp., New York, N. Y. Filed Sept. 24, 1953.



For Hand Operated, Portable Electric Spraying Outfits.  
Use since June 15, 1953.

SN 657,174. Phoenix Products Company, Milwaukee, Wis. Filed Nov. 30, 1953.



For Industrial Electric Oven.  
Use since Oct. 3, 1951.

SN 659,500. The Scott & Fetzer Company, Cleveland, Ohio. Filed Jan. 14, 1954. Sec. 2(f) as to "Kirby."



Applicant claims ownership of Reg. Nos. 324,636 and 389,065.

For Electric Vacuum Cleaners and Parts and Attachments Therefor, Including Grinding and Buffing Attachments for Electric Vacuum Cleaners, and Power Polishing Attachments for Electric Vacuum Cleaners.

Use since Feb. 15, 1953.



SN 639,501. The Scott & Fetzer Company, Cleveland, Ohio. Filed Jan. 14, 1954. Sec. 2(f) as to "Kirby."



SN 664,597. Decca Records, Inc., New York, N. Y. Filed Apr. 15, 1954.

*hi-fonic*

For Electric Phonograph.  
Use since March 1954.

SN 664,954. The Lincoln Electric Company, Cleveland, Ohio. Filed Apr. 21, 1954.

**WELDANPOWER**

For Internal-Combustion, Engine-Driven Electric Generator Unit.  
Use since on or before Mar. 25, 1954.

SN 666,122. Nihon Misha Seizo Kabushiki Kaisha, Mizuho-Ku, Nagoya, Japan. Filed May 11, 1954.

**BROTHER**

Applicant claims ownership of Japanese Reg. No. 364,893, dated June 13, 1946; and U. S. Reg. No. 578,481.  
For Electric Motors, Electric Lamps, Electric Plugs, and Switches.

SN 666,343. Foster & Davies, Inc., Cleveland, Ohio. Filed May 14, 1954. CERTIFICATION MARK. Sec. 2(f).

*Beauty-plus*

For Electric Table, Floor, Bridge, Bed, and Other Lamps.  
Use since Apr. 9, 1954.

SN 666,828. Compagnie Generale de Telegraphie Sans Fil, Paris, France. Filed May 21, 1954.

**STABILIDYNE**

Priority under Sec. 44(d). French application filed Feb. 16, 1954, Reg. No. 439,037, dated Feb. 16, 1954.  
For High Precision Receiving Apparatus for Radio, Telegraphy (Morse Code or Teletype), and Radio Telephony.

SN 667,843. Siemens-Planawerke A. G. für Kohlefabrikate, Meltingen, Germany. Filed June 7, 1954.

**PLANIA**

Applicant claims ownership of German Reg. No. 63,374, dated Oct. 8, 1903.  
For Carbons for Electrical Purposes Including Carbons for Electric Lamps and Carbon Electrodes for Smelting Purposes.

Applicant claims ownership of Reg. Nos. 324,636 and 399,065.

For Electric Suction Cleaner Bags.  
Use since Feb. 20, 1953.

SN 664,413. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

**THERMATROL**

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

SN 664,414. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

**RIPFLEX**

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cables, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1952.

SN 664,415. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

**BARNFLEX**

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

SN 664,416. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

**FLEXACON**

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

SN 668,256. Jerrold Electronics Corporation, Philadelphia, Pa. Filed June 15, 1954.

**JERROLD**

For Master Antenna Systems for Television and Components Thereof.  
Use since Mar. 28, 1948.

SN 675,295. Luminaire Manufacturing Company, New York, N. Y. Filed Oct. 22, 1954.

*Porcelaine*

For Electric Lamp Bases and Electric Lamps.  
Use since Sept. 30, 1954.

SN 675,720. Phillips Petroleum Company, Bartlesville, Okla. Filed Oct. 29, 1954.

*Trop-Artic*

Applicant claims ownership of Reg. No. 270,378.  
For Storage Batteries.  
Use since Sept. 30, 1954; and since Nov. 12, 1912, as to "Trop-Artic."

SN 675,877. The Chase-Shawmut Company, Newburyport, Mass. Filed Nov. 2, 1954.

**TRIGGER**

For Indicating and Tripping Fuses.  
Use since Sept. 29, 1954.

SN 676,693. The Ward Products Corporation, Cleveland, Ohio. Filed Nov. 15, 1954.

**PHANTOM**

For Antennas.  
Use on or about Feb. 1, 1947.  
Subj. to Intf. with Reg. No. 603,550.

SN 678,207. Du-Wal Inc., River Grove, Ill. Filed Dec. 13, 1954.

*Fryall*

For Electric Fryer.  
Use since October 1954.

*Du-Wal*

For Electric Fryer.  
Use since October 1954.

# CLASS 22

SN 645,651. Willis B. Korff, d. b. a. Will's Tackle, Seattle, Wash. Filed Apr. 21, 1953.

**CHERRY BOBBER**

For Artificial Fishing Lures.  
Use since on or about Dec. 1, 1952.

SN 655,912. La Spirotechnique, S. A., Paris, France. Filed Nov. 5, 1953.

**AQUA-LUNG**

Priority under Sec. 44(d). French application filed May 6, 1953, Reg. No. 427,957, dated May 6, 1953.  
For Sporting Goods—Namely, Nautical Spear Guns and Cross Bows for Underwater Hunting.

SN 658,195. Langley Corporation, San Diego, Calif. Filed Dec. 18, 1953.

**SPINLITE**

For Fishing Reels.  
Use since July 7, 1953.

SN 658,881. Blake Industries, Inc., Boston, Mass. Filed Jan. 4, 1954.

**Joy Toy**

For Hollow Toys Characterized as Fanciful Representations of Persons and Animals and Made of Flexible Material.  
Use since on or about Feb. 10, 1953.

SN 663,251. Milton Bradley Company, Springfield, Mass. Filed Mar. 25, 1954.

**SPOTS**

For Board Game Consisting of Playing Cards, Markers, and a Playing Board.  
Use since Jan. 1, 1953.

SN 665,621. Don Dee McDonald, d. b. a. McDonald Manufacturers and Lill-Lik Lure Co., Lee's Summit, Mo. Filed May 3, 1954.

**MERRY INNOW**

For Artificial Fishing Lures.  
Use since Mar. 30, 1951.



SN 666,667. International Harvester Company, Chicago, Ill. Filed May 19, 1954.

# INTERNATIONAL

For Toy Tractors and Toy Trucks.  
Use since Mar. 4, 1948.

SN 675,443. Sunset Line & Twine Co., Petaluma, Calif.  
Filed Oct. 25, 1954.

# "TX-50"

For Fishing Lines.  
Use since Aug. 9, 1954.

SN 676,262. True Temper Corporation, Cleveland, Ohio.  
Filed Nov. 8, 1954.

# Lagoon

For Fishing Reels.  
Use since August 1954.

SN 678,522. Deco, Inc., Union, N. J. Filed Dec. 17, 1954.

# DECO

For Coin-Controlled Amusement Devices—Namely, a Coin-Operated Children's Ride in the Nature of a Carousel; and a Coin-Operated Card Ejecting Fortune-Telling Machine.  
Use since July 6, 1953, on carousels.

SN 678,663. Norwich Line Company, Inc., Norwich, N. Y.  
Filed Dec. 20, 1954.

# Nor-Surf

For Salt Water Trolling Line.  
Use since Feb. 25, 1949.

SN 678,804. National Latex Products Co., Ashland, Ohio.  
Filed Dec. 22, 1954.

# "Blue Bird"

For Balloons and Balls.  
Use since Mar. 26, 1940.

SN 679,062. The Steele Co., Hopkins, Minn. Filed Dec. 28, 1954.

# CANNON BALL

For Spherical Steel Marbles.  
Use since Nov. 22, 1954.

## CLASS 23

SN 627,532. Société Anonyme Dite: Messier, Paris, France.  
Filed Apr. 3, 1952.



Applicant claims ownership of French Reg. No. 395,966, dated Aug. 8, 1949.

For Hydraulically Actuated, Self-Contained Control Devices and Servo-Mechanisms Consisting of Hand-Actuated Transmitters and Receivers Connected by One or More Tubes, Both Reversible and Non-Reversible, for Manual or Automatic Positioning, Controlling and Duplicating Movements of Brakes, Clutches, Throttles, Governors, Valves, Rheostats, Pumps, Reverse Gears, Engine Spark Adjustments, Engine Mixture Setting, Transmissions, Fire Extinguishers, Feed Mechanisms, Grinder Spindles, Trippers, Releases, Transmitters, Receivers, Accumulators, Control and Actuating Levers, Hydraulic Lines, Connectors, Drainage Plugs, Adjustable and Fixed Pressure Controls, Proportion Pressure and Sequence Operation Controls.

SN 635,236. Raytheon Manufacturing Company, Newton, Mass. Filed Sept. 13, 1952.

# RAYTHEON

Applicant claims ownership of Reg. No. 529,164.  
For Stationary Machine Tools—Namely, Electric Duplicating Apparatus, for Following the Contour of an Object and/or Automatically Duplicating the Same or Shaping a Workpiece in Accordance Therewith, and Electric Vibratory Drilling and/or Abading Tools, in Part Operated by Hand, for Applying Mechanical Vibration to a Local Region of a Solid Object To Remove Portions of Said Object or Another Object Therefrom, and Parts and Components of Any of Them and Accessories Therefor.  
Use since May 6, 1948.

SN 649,079. The Dayton Rubber Company, Dayton, Ohio.  
Filed June 19, 1953.

# DAYCO

Applicant claims ownership of Reg. Nos. 315,408, 532,243, and others.  
For Grinders for Rollers or Roll Covers Such as Cots Employed in the Textile Industry.  
Use since Dec. 1, 1947.

SN 656,127. Tiger Tractor Corporation, Keyser, W. Va. Filed Nov. 9, 1953.



No claim is made to the word "Tractor" apart from the mark as shown.

For Farm Tractors and Attachments Therefor—Namely, Cultivators, Plows, Rolling Coulters, Disc Harrows, Cutter Bars, Lawn Mowers, Spreaders, Rakes, Hoe, Snow Plows, Seeders and Planters, Sprayers, Lawn Rollers, Lawn Sweepers, Aerators, Saws, Cushion Seats, Power Take-Offs, Cast Iron Front Wheels.  
Use since on or about Nov. 1, 1948.

SN 657,947. A. Reynolds Morse, d. b. a. Injection Molders Supply Company, Cleveland, Ohio. Filed Dec. 14, 1953.

# IMS

For Plastic Injection Molding Machinery and Parts Thereof—Namely, Plastic Tumblers and Plastic Granulators; Thermostatically Controlled Heating Elements, Heating Cylinders, and Injection Nozzles, All Being Component Parts of Injection Molding Machinery.  
Use since on about Sept. 10, 1953.

SN 660,545. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Feb. 3, 1954.

# SPRAZIT

For Manually-Operated Sprayers for Spraying Liquids.  
Use since on or about Jan. 1, 1950.

SN 660,915. The Baker-Lull Corporation, Minneapolis, Minn., now by change of name The B-L Liquidating Corporation, to The Baker-Raulang Company, Cleveland, Ohio. Filed Feb. 11, 1954.

# Yardloader

For Vehicle Mounted Material Loader.  
Use since October 1953.

# MODERN

For Special Machinery—Namely, Drilling Machines Exclusive of Drill Chucks, Gear Chamfering Machines, Porosity Testing Machines for Testing Work Pieces or Parts by Application of Pressure or Vacuum Thereto, and Impregnating Equipment for Impregnating Castings and the Like to Seal Porosity Therein.  
Use since July 31, 1947.

SN 664,932. Firma Ferdinand Bernhard Schmets, Herzogenrath, near Aachen, Germany. Filed Apr. 21, 1954.

# LOOP GUIDER

Priority under Sec. 44(d). German application filed Oct. 22, 1953, Reg. No. 650,301, dated Dec. 18, 1953.  
For Sewing Machine Needles.

SN 665,638. Production Tool Corporation, Schiller Park, Ill. Filed May 3, 1954.



No claim is made to the Greek words apart from the mark as shown. The Greek words mean "Give me a place to stand and I will move the earth."

For Steel Pivot Blocks, Being Supporting Members for a Vise or Other Machine Tool.  
Use since Jan. 2, 1954.

SN 666,235. Visirecord, Inc., New York, N. Y. Filed May 12, 1954.



Applicant claims ownership of Reg. No. 530,995.  
For Non-Computing Recording Machines Used for Making Multiple Hand-Posted Business and Accounting Records.  
Use since on or about Feb. 26, 1954.



SN 666,539. Soderhamn Machine Manufacturing Co., Talladega, Ala. Filed May 17, 1954.



For Sawmill Machinery and Sawmill Waste Recovery Machinery—Namely, Veneer Lathes and Presses, Gang Saws, Edgers, Slab and Board Separators, Log and Board Conveyors, Resaws, Cross Cut Saws, Chippers, Hogs, Bark Chipping Machines, Slab Chippers and Hoggers, Rechipppers, Chip Screens, Wet Board Machines, Rossing Machines of the Pneumatic, Mechanical, and Fluid Jet Type, Wood Room Machines, Conveyor Machines, Band Saws, Log Carriages, Planers and Matchers, Veneer Chippers, Veneer Rechipppers, Chip Feeders, Trimmers and Cut-Off Saws, and Pulpwood Barkers and Wet Forming Machinery.

Use since Feb. 25, 1953.

SN 667,803. H & L Tooth Company, Montebello, Calif. Filed June 7, 1954.

# H&L

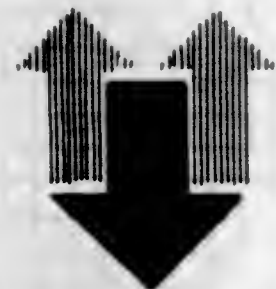
For Excavating Bucket Digging Teeth.  
Use since Jan. 20, 1932.

SN 668,036. King-Wyse Inc., Archbold, Ohio. Filed June 10, 1954.

# KW

For Agricultural Machines and Tools—Namely, Prime Movers, Balers, Elevators, Row Harvesters, Forage Pickups, Grain Blowers, Tractors, Transmissions, and Plows.  
Use since September 1947.

SN 668,922. Pest Control Limited, Bourn, England. Filed June 25, 1954.



Applicant claims ownership of British Reg. Nos. 710,651 and 710,652, dated Sept. 17, 1952, and 715,212, dated Sept. 25, 1953.

For Hand or Power Operated Machines for Producing Aerosols, Sprays, Fogs, or Mists, or for Dusting With Powders, Fumigators, Fertilizer Spreaders, and Devices for Injecting Pest Control or Growth Regulating Substances into the Soil or Trees.

SN 669,709. United Specialty Corporation, El Dorado, Ark. Filed July 9, 1954.



No claim is made to the representation of a reel apart from the entire mark presented.

For Automatic Self-Winding Welding Hose Holder and Reel With or Without Hose.  
Use since July 1953.

SN 671,097. William Gegenheimer Co., Inc., Brooklyn, N. Y. Filed Aug. 4, 1954. Sec. 2(f).

# BALDWIN

For Ink Fountain Agitators, Constant Level Liquid Feeders for Printing Press Fountains, and Press Washers for Printing Presses.

Use since 1929.

SN 671,718. Brown & Bigelow, St. Paul, Minn. Filed Aug. 16, 1954.

# BUSINESS BUILDERS

Applicant claims ownership of Reg. Nos. 92,944 and 249,433.

For Sleet Scrapers, Bottle Openers, Spoons and Bottle Openers, and Gripping Spoons.  
Use since on or about March 1906.

SN 671,794. E. P. Waggener, Columbia, Ky. Filed Aug. 16, 1954. Sec. 2(f).

# CLAMPER TYPE WHITE POINT

For Tobacco Spears.  
Use since July 19, 1949.

SN 671,875. All-Fields Products Company, Chicago, Ill. Filed Aug. 18, 1954.

# TITENS

For Tools for Restoring Snap Fasteners.  
Use since June 25, 1954.

SN 671,954. Oilock Corporation, Muskegon, Mich. Filed Aug. 19, 1954.

# Oilock

For Crankshaft Conditioning Tools Used in Conditioning Connecting Rod Bearings, Connecting Rods, Shims.  
Use since Mar. 3, 1947.

SN 673,698. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# CARETAKER

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,699. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# FIREBIRD

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,700. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# LAWN MARKSMAN

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,701. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# LAWN TRAVELER

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,702. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# MUSKETEER

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,703. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# PRESIDENT

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,704. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# ROBOT

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,705. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# SNOW MULE

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 673,706. Western Tool & Stamping Co., Des Moines, Iowa. Filed Sept. 23, 1954.

# WORK HORSE

For Lawn Mowers, Lawn Sweepers, and Hand Electric Trimmers, Snow Plows, Trimmer Edgers, Riding Mowers, Utility Carts, Mowers, Sweeper Hitch, Seeders, and Spreaders.  
Use since Aug. 1, 1954.

SN 675,267. Donaldson Company, Inc., St. Paul, Minn. Filed Oct. 22, 1954.

# SPRAYER KANE

Applicant claims ownership of Reg. No. 561,303.  
For Spray Gun Type Applicators for Plant Treating Substances Including Weed Destroying and Fertilizing Liquids.  
Use since Oct. 10, 1954.

SN 676,159. American Safety Razor Corporation, New York, N. Y. Filed Nov. 8, 1954.

# A·S·R

Applicant claims ownership of Reg. No. 321,603.  
For Pile Wire Blades.  
Use since on or about Apr. 30, 1954.

SN 676,338. Rock Island Millwork Company, Rock Island, Ill. Filed Nov. 9, 1954.

# Craf-Top

For Composite Panels for Use as Work-Bench Tops Having a Solid Core of Wood Pieces Faced on Both Sides With More Dense Panels of Synthetic Lumber Formed of Resin-Bound Granulated Wood.  
Use since Mar. 30, 1954.



SN 676,339. Rock Island Millwork Company, Rock Island, Ill. Filed Nov. 9, 1954.

SN 679,143. Dana Corporation, Toledo, Ohio. Filed Dec. 30, 1954.

# Shop Top

For Composite Panels for Use as Work-Bench Tops Having a Solid Core of Wood Pieces Faced on Both Sides With More Dense Panels of Synthetic Lumber Formed of Resin-Bound Granulated Wood.

Use since Mar. 30, 1954.

SN 676,748. National Ring Traveler Company, Pawtucket, R. I. Filed Nov. 16, 1954. Sec. 2(f).

# THE PIERCE E

Applicant claims ownership of Reg. No. 565,142.

For Ring Travelers.

Use since Jan. 13, 1949.

SN 676,826. The F. E. Myers & Bro. Company, Ashland, Ohio. Filed Nov. 17, 1954. Sec. 2(f).

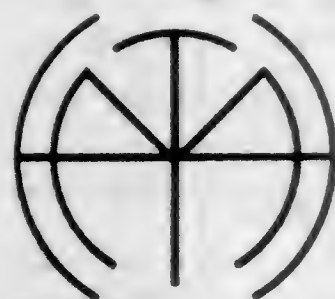
# Myers

Applicant claims ownership of Reg. Nos. 527,640 and 541,631.

For All Types of Pumps and Watering Apparatus for Home, Farm, Industrial and Marine Use; Pump Jacks; All Types of Sprayers, Carriers or Unloaders for Handling Hay and Similar Materials; Harpoon or Grapple Forks; Parts for All the Foregoing Items.

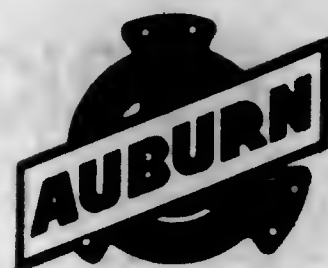
Use since Aug. 1, 1954.

SN 678,216. Heisler Machine and Tool Co., Clifton, N. J. Filed Dec. 13, 1954.



For Forming Dies, Blanking Dies, Drawing Dies, Molds for Making Rubber Articles, Sheet Grippers for Cylinder Presses, Gripper Fingers Therefor, Gripper Pads or Blocks for Mounting on Cylinders for Engagement by Gripper Fingers, and Pliers.

Use since on or about Sept. 8, 1944, on dies.



For Power Transmission Mechanisms—Namely, Clutches and Parts Thereof.

Use since on or about June 16, 1948.

SN 679,269. Campbell Equipment Company, Chicago, Ill. Filed Jan. 3, 1955.

# LAD-E-VATOR

For Hoists.

Use since May 1948.

SN 679,508. Astra Trading Corporation, New York, N. Y. Filed Jan. 6, 1955.



For Cutlery, Hand Tools, Scissors, Pocket Knives, Carpenter's Tools, Shears.

Use since May 1, 1952.

SN 679,613. Steelman, Inc., Hallock, Minn. Filed Jan. 7, 1955.



For Tire Changing Mechanism, Tire Bead Breakers, Tire Spread Mechanism, Safety Tube Removers, Hub Cap Removers, and Hydraulic Tire Removers.

Use since on or about Apr. 10, 1954.

SN 679,638. The Bullard Clark Company, Danielson, Conn. Filed Jan. 10, 1955.

# PAKSTIK

Applicant claims ownership of Reg. No. 531,797.

For Loom Supplies—Namely, Picker Sticks, Power Sticks, Sweep-Sticks, Jack Sticks, Cloth Roll Blocks, Parallel Plugs, Lug Straps, Connectors, Crank Arms, Lease Rods, Swells, and Binders.

Use since July 1952.

SN 679,639. The Bullard Clark Company, Danielson, Conn. Filed Jan. 10, 1955.

SN 679,990. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Jan. 17, 1955.

# PLYSTIK

Applicant claims ownership of Reg. No. 435,445.

For Loom Supplies—Namely, Picker Sticks, Power Sticks, Sweep-Sticks, Jack Sticks, Cloth Roll Blocks, Parallel Plugs, Lug Straps, Connectors, Crank Arms, Lease Rods, Swells, and Binders.

Use since July 1952.

SN 679,732. Harris-Seybold Company, Cleveland, Ohio. Filed Jan. 11, 1955.

# Dynaclamp

For Machines for Cutting Paper and Other Non-Metallic Materials.

Use since June 2, 1949.

SN 679,914. Klekhaefer Corporation, Cedarburg, Wis. Filed Jan. 14, 1955.

# "DYNA-FLOAT"

For Outboard Engine Suspension System.

Use since Dec. 29, 1954.

SN 679,948. Utica Cutlery Company, Utica, N. Y. Filed Jan. 14, 1955.

# Autumn Leaf

For Table Knives, Forks, and Spoons and Pie Knives, All of Base Metal.

Use since Dec. 21, 1953.

SN 679,953. R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Filed Jan. 14, 1955.

# EUROPA

For Stainless Steel Flatware, i. e., Knives, Forks, and Spoons.

Use since Jan. 7, 1955.

SN 679,980. Clipper Manufacturing Company, Kansas City, Mo. Filed Jan. 17, 1955.

# POLK-A-DOT

For Cutting Blades for Masonry Saws.

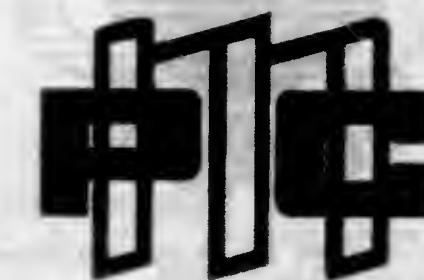
Use since Dec. 17, 1954.

# Hydra-Gun

For Hand-Operated Sprayers for Spraying Liquids.

Use since on or about Nov. 5, 1954.

SN 680,029. Progressive Machine Company, Hackensack, N. J. Filed Jan. 17, 1955.



For Automatic Container Loading Machinery, Automatic Capping Machinery, Parts Hoppering Devices, Automatic Packaging Machinery, Material Handling and Material Processing Machinery, and Parts Therefor.

Use since Oct. 15, 1954, on automatic container loading machinery.

SN 680,070. Edmilton Laboratories, Ridgefield, Conn. Filed Jan. 18, 1955.

# DUET

For Electric Shavers.

Use since Jan. 4, 1955.

SN 680,080. Janome Sewing Machine Co., Ltd., Nihonbashi-dori Chuo-ku, Tokyo, Japan. Filed Jan. 18, 1955.

# JANOME

Applicant claims ownership of Japanese Reg. Nos. 283,186 and 405,174, dated Nov. 4, 1936, and Nov. 21, 1951, respectively.

For Sewing Machines (Hand, Foot, and Electrically Operated) and Parts Thereof.

SN 680,101. Fred B. Seeberger and Harry H. Kennedy, New York, N. Y. Filed Jan. 18, 1955.

# \*FREEZ-Sav\*

For Trituration Severing Blade for Frozen Foods.

Use since Dec. 8, 1954.

680,102. Fred B. Seeberger and Harry H. Kennedy, New York, N. Y. Filed Jan. 18, 1955.

# KEN-SEE FREEZ cul

The word "Cut" is disclaimed apart from the mark as shown.

For Trituration Severing Blade for Frozen Foods.

Use since Dec. 8, 1954.



SN 676,339. Rock Island Millwork Company, Rock Island, Ill. Filed Nov. 9, 1954.

# Shop Top

For Composite Panels for Use as Work-Bench Tops Having a Solid Core of Wood Pieces Faced on Both Sides With More Dense Panels of Synthetic Lumber Formed of Resin-Bound Granulated Wood.

Use since Mar. 30, 1954.

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Use since Aug. 1, 1954.

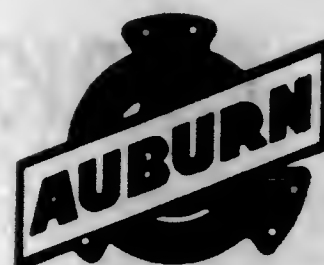
SN 678,216. Helsler Machine and Tool Co., Clifton, N. J. Filed Dec. 13, 1954.



For Forming Dies, Blanking Dies, Drawing Dies, Molds for Making Rubber Articles, Sheet Grippers for Cylinder Presses, Gripper Fingers Therefor, Gripper Pads or Blocks for Mounting on Cylinders for Engagement by Gripper Fingers, and Pliers.

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For Hoists.  
Use since May 1948.

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SN 679,613. Steelman, Inc., Hallock, Minn. Filed Jan. 7, 1955.



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Use since July 1952.

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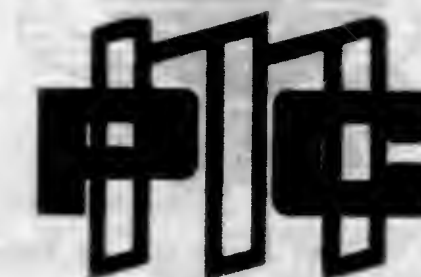
For Cutting Blades for Masonry Saws.  
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SN 679,990. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Jan. 17, 1955.

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For Trituration Severing Blade for Frozen Foods.  
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# KEN-SEE FREEZ cul

The word "Cut" is disclaimed apart from the mark as shown.

For Trituration Severing Blade for Frozen Foods.  
Use since Dec. 8, 1954.



SN 680,130. Dixie Crane and Shovel Co., Inc., Harrisburg, Pa. Filed Jan. 19, 1955.



For Gasoline or Diesel Engine Powered Shovel or Crane.  
Use since on or about Aug. 15, 1954.

SN 680,265. Thomas J. Fitzgerald, trustee in bankruptcy of Western States Equipment Company, Littleton, Colo. Filed Jan. 21, 1955.

# WESTATE

For Tractor Carried Agricultural Machinery Including Bulldozer Blades, Land Levelers, Tractor Implement Hitching Devices, Plows, Ditching Machines, and Parts Therefor.  
Use since March 1948.

SN 680,396. The Liner Concrete Machinery Company Limited, Gateshead, England. Filed Jan. 24, 1955.

# cumFLOW

Applicant claims ownership of British Reg. No. 539,143, dated Feb. 16, 1933.  
For Concrete Mixing Machines.

SN 680,419. O. M. Scott and Sons Company, Marysville, Ohio. Filed Jan. 24, 1955.

# Scott's Wand

For Hand Applicator for a Dry Weed Control Compound.  
Use since Dec. 27, 1954.

SN 680,487. Radio Steel & Mfg. Co., Chicago, Ill. Filed Jan. 25, 1955.

# CONGO

For Bearings.  
Use since in the year 1937.

SN 680,504. Airboats, Inc., St. Louis, Mo. Filed Jan. 26, 1955.

# AIRBOY

For Outboard Air Drive Engines.  
Use since Sept. 13, 1954.

SN 680,511. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Jan. 26, 1955.

# Sparky

For Pressurized Fire Extinguisher.  
Use since Sept. 13, 1954.

SN 680,604. International Ferment Machinery Co., Inc., Rockland County, N. Y. Filed Jan. 27, 1955.



For Diesel Engine Driven Pumps and Compressors; Gasoline Engine Driven Pumps and Compressors and Engine Driven Locomotives.  
Use since Oct. 1, 1951.

SN 680,623. National Silver Company, New York, N. Y. Filed Jan. 27, 1955.

# NATIONAL STAINLESS

For the purposes of this registration exclusive right to use the word "Stainless" is disclaimed apart from the mark as shown.

For Tableware and Cutlery—Namely, Knives, Forks, and Spoons Made of Stainless Steel.  
Use since Dec. 1, 1928.

SN 680,680. Magnaflex Corporation, Chicago, Ill. Filed Jan. 28, 1955.

# Lodac

For Mechanical Transfer Devices for Feeding Work to Punch Presses and the Like.  
Use since Oct. 7, 1953.

## CLASS 24

SN 663,936. National Institute of Drycleaning, Inc., Silver Spring, Md. Filed Apr. 5, 1954. COLLECTIVE MARK.



The words "Your Cleaner Is Your Clothes' Best Friend" are disclaimed apart from the mark as shown.  
For Drycleaning Machinery.  
Use since Apr. 24, 1953.

## CLASS 25

SN 668,175. Kwikset Locks, Inc., Anaheim, Calif. Filed June 14, 1954.

# 400 LINE

For Latches, Lock Sets, and Component Parts Thereof.  
Use since Nov. 30, 1945.

SN 678,243. Master Lock Company, Milwaukee, Wis. Filed Dec. 13, 1954.

# Cub

For Padlocks.  
Use since Nov. 23, 1954.

## CLASS 26

SN 642,709. Taylor Machine Company, Baltimore, Md. Filed Feb. 24, 1953. Sec. 2(f).

# REGISTERSCOPE

For Machines for Registering Printing Forms by Ocular Comparison With Registering Detail.  
Use since February 1939.

SN 650,703. Fuji Photo Film Co., Ltd., Ashigara-kami-gun, Kanagawa Prefecture, Japan. Filed July 23, 1953.

# FUJI

Applicant claims ownership of Japanese Reg. No. 425,665, dated May 21, 1953.

For Photographic Apparatus, Supplies, and Accessories—Namely, Sensitized Photographic Film, Plates and Papers, Cameras, Lenses, Enlargers, Enlarging Paper Holders, Synchro-Flash Attachments for Cameras.

SN 655,814. Societe Civile Eca, Meudon-Bellevue, Seine, France. Filed Sept. 23, 1953.



Priority under Sec. 44(d). Originally filed under SN 623,016, Dec. 29, 1951. Applicant claims ownership of French Reg. No. 413,524, dated July 13, 1951.

For Measuring, Indicating, Recording and Controlling Devices for Use in Electrical, Mechanical and Aerodynamical Research Laboratories, To Evaluate Tests, Adjustment and Measuring of Benches, Movable Experimental Benches; Manual and Automatic Phasemeters for Research Purposes; Research Devices, Registering Apparatus, Simulators or Devices Reproducing in the Laboratory Normal and Modified Working Conditions of a Machine; Research and Experimental Models of Land, Sea and Air Vehicles for Wind Tunnels and Flight Tests; Gyroscopes, Gyroscopes, Swinging Cradles for Gyroscopes, Aerodynamic Piloting Devices for Aircraft; Manually, Automatically and Remotely Acting Devices for Regulating Normal Working Conditions of a Machine for Modifying Said Normal Working Conditions in Accordance With the Variations of a Parameter or Parameters Capable of Varying Said Normal Working Conditions; Devices Responsive to the Variations of Said Parameter or Parameters, and to Derivatives and Integrals of Said Variations; Detectors for the Variation of Rotary Speed, Flying Incidence, Navigation Direction; Detectors for the Deviations of an Aircraft Under Rolling, Pitch and Yaw Effect; Regulatory Instruments for Rotation Speed, Flying Incidence, Navigation Direction and Flying Track; Instruments for Phase Correction, Variation and Deviation Corrector, Servo-Corrector for Deviation, Deviation Speed and Phase Variation; Autopilot, and/or Deformable Aerofoil Automatically Controlling Incidence or Side-Slip for Aircraft, Lift Spoiler, Interceptor, Rolling, Pitch and Yaw Stabilizers for Aircraft; Working Condition Controllers in Accordance With Rotary Speed, Flying Incidence, Navigation Direction, Rolling, Pitch and Yaw of an Aircraft; Automatic Control, Telecontrol, Automatic Pilot, Computers for Modified Working Conditions, Evolution Computer for Aircraft; Devices for Ensuring the Constancy of a Parameter Related to the Working Conditions of a Machine During Normal Working Conditions and During Modifications of Said Normal Working Conditions, Detectors, Regulators and Correctors Therefor; All Said Devices Being Actuated by Gyroscopes, Gravitational Effect, Hydraulic Circuit, Electronic Circuit, Magnetic Circuit, Electrical and Pneumatic Circuits, Electronic Circuit, Capsules, Relays, Antiparasite Devices, Servo-Control, Follow-Up Devices, Impulse Emitting Devices.

SN 656,844. Radiant Manufacturing Corporation, Chicago, Ill. Filed Nov. 23, 1953. Sec. 2(f).

# RADIANT

Applicant claims ownership of Reg. Nos. 399,159 and 422,879.

For Projection Screens for the Display of Light-Projected Pictures.

Use since on or about Dec. 6, 1939.



SN 662,331. Arthur N. Nellen, Jr., Broomall, Pa. Filed Mar. 9, 1954.

**Copi-Counter**

For Instrument for Measuring the Character Count and Line Count of Printed and Typed Material.  
Use since Feb. 19, 1954.

SN 662,969. Witkowski New York Agency, Inc., New York, N. Y. Filed Mar. 19, 1954.

**VOTAR**

For Photographic Equipment and Supplies, Optical Goods, Cameras and Camera Components and Accessories, Including But Not Limited to, Photographic Viewers, Camera Lenses, Wide Angle Lenses, Telephoto Lenses, Lenscaps, Adapters, and Flashguns.  
Use since on or about Aug. 1, 1952.

SN 665,825. Kelton Corporation Limited, Toronto, Ontario, Canada. Filed May 6, 1954.

**MAGNAJECTOR**

Applicant claims ownership of Canadian Reg. N. S. 186/47263, dated Feb. 6, 1954.  
For Opaque Projectors.

SN 666,142. Svenska Aktiebolaget Gasaccumulator, Stockholm-Lidingo, Sweden. Filed May 11, 1954.

**GEODIMETER**

For Distance Measuring Instruments.  
Use since Nov. 24, 1948.

SN 668,435. Bell & Howell Company, Chicago, Ill. Filed June 18, 1954.

**TDC**

For Stereopticon Slide and Filmstrip Projectors, Slide Changers and Slide Mounts for Stereopticon Projectors, Stereo Viewers, and Carrying Cases.  
Use since January 1946.

SN 670,209. The Mercoid Corporation, Chicago, Ill. Filed July 19, 1954.

**MERCOID**

For Limiting, Signalling and Safety Devices—Namely, Light Actuated Flame Detectors and Mercury Contact Devices, Temperature Actuated Flame Detectors, Barometrically Operated Devices, Thermocouple Operated Devices, Timing Devices, Differential Pressure and Temperature Devices, Vacuum Actuated Controlling and Indicating Devices, and Float Actuated Controlling and Indicating Devices.  
Use since Sept. 20, 1921.

SN 673,194. North American Phillips Company, Inc., New York, N. Y. Filed Sept. 14, 1954.

**PORTAFLUX**

For Magnetic Particle Testers.  
Use since May 1954.

SN 675,333. Martin Thomasello, d. b. a. The MVT Specialty Co., Detroit, Mich. Filed Oct. 22, 1954.

**STIK-A-LENS**

For Ophthalmic Products—Namely, Sun Glasses, Frames, Lenses, and Parts Thereof.  
Use since June 1, 1954.

SN 676,499. Hewlett-Packard Company, Palo Alto, Calif. Filed Nov. 12, 1954.

**hp**

Applicant claims ownership of Reg. Nos. 399,314, 572,827, and others.

For Instruments Used for Measuring or Testing Purposes—Namely, Attenuators, Bolometer Mounts, Bridges, Crystal Detectors, Directional Couplers, Electronic Counters, Electronic Frequency Meters, Frequency and Modulation Monitors, Frequency Converters, Harmonic Wave Analyzers, Low Pass Filters, Microwave Detector Mounts, Microwave Power Meters, Microwave Probes, Microwave Slotted Sections, Microwave Terminations, Microwave Thermistor Mounts, Microwave Test Sets, Noise and Distortion Analyzers, Oscillators, Probe Carriages, Pulse Generators, Ratio Meters, Scales, Secondary Frequency Standards, Signal Generators, Square Wave Generators, Standing Wave Indicators, Tachometer Generators, Thermistor Mounts, Voltage Dividers, Voltmeters, Waveform Analyzers, Waveguide Adjustable Shorts, Waveguide Attenuators, Waveguide Moving Loads, Waveguide Phase Shifters, Waveguide Tees, and Waveguide Tuners.  
Use since January 1941.

SN 676,588. Beckman Instruments, Inc., Fullerton, Calif. Filed Nov. 15, 1954.

**DU**

For Spectrophotometers.  
Use since during 1942.

SN 676,775. Kenneth G. White, d. b. a. White's Electronics, Sweet Home, Ore. Filed Nov. 16, 1954.

**OREMASTER**

For Geiger Counters.  
Use since July 1, 1950.

SN 677,013. Trans-Sonics, Inc., Bedford, Mass. Filed Nov. 19, 1954.

**EQUIBAR**

For Pressure Measuring Device.  
Use since Mar. 16, 1954.

SN 677,024. Aremac Associates, Pasadena, Calif. Filed Nov. 22, 1954.

**RECORDOSCOPE**

For Photographic Equipment, Recording Equipment and Parts and Adapters Therefor—Namely, Cameras, Data Cameras, Oscilloscope Cameras, Adapters, and Components Therefor.  
Use since May 15, 1952, on cameras.

SN 677,276. Nelson Electric Manufacturing Company, Tulsa, Okla. Filed Nov. 24, 1954.

**NELEX**

For Thermometer Wells, Thermocouples, Pump-Off Recorders, Electronic Recorder Enclosures, Phillips System Analyzers, Pipe Line Samplers, Pipe Line Locators, Pipe Line Scraper Detectors, Electronic Indicators for Indicating Materials in a Flow System, Watthour Meter Test Sets, Meter Carriers, Electrolysis Survey Equipment for Underground Piping, Electronic Coating Inspectors, Voltmeters, Soil Resistance Meters, Power-Off Indicators, Pipe Line Coating Holiday Detectors, Induction and Contact Type Pipe Line Locators, Knife Balances, and Pump-Off Recorders (Recording Thermal Ammeters).  
Use since March 1954.

SN 677,429. Robert J. Mellis, San Diego, Calif. Filed Nov. 29, 1954.

**Control Device**

Exclusive rights to the use of the words "Control Device" are disclaimed apart from the mark as shown. The drawing is lined for green and silver but no claim is made as to color. For Time Controlled Multiple Switch for Lawn Sprinklers.  
Use since Aug. 11, 1954.

SN 677,481. Donald R. Brann, d. b. a. Easi-Blid Pattern Company, Pleasantville, N. Y. Filed Nov. 30, 1954.

**physculpture**

For Paper Patterns, Plans and Templates for Use as Guides in Making Wall Plaques, Wall Coverings, and Decorative Ornaments.  
Use since Nov. 3, 1954.

SN 677,498. General Motors Corporation, Detroit, Mich. Filed Nov. 30, 1954.

**DIAL - A - PART**

For Calculators in the Form of Cardboard Charts With Movable Parts Used for Estimating Automobile Collision Costs.  
Use since Oct. 11, 1954.

SN 677,568. Industrial Instruments, Inc., Cedar Grove, N. J. Filed Dec. 1, 1954.

**SOLU-BRIDGE**

For Electrical Instruments for Measuring Certain Characteristics of Liquids and Solutions.  
Use since November 1941.

SN 677,979. Paillard Products, Inc., New York, N. Y. Filed Dec. 8, 1954.

**"HI-FI"**

For Photographic Lenses.  
Use since Nov. 22, 1954.

SN 678,293. Van Dreser & Hawkins, Houston, Tex. Filed Dec. 13, 1954.

**GOLD MARK**

No claim is made to "Super Green" apart from the mark as shown. The drawing is lined for gold.  
For Welders Filter Lenses.  
Use since July 24, 1953.

SN 679,614. Morris Struhl, Inc., New York, N. Y. Filed Jan. 7, 1955.

**PRIVATE EYE**

For Reading and Magnifying Glasses.  
Use since Sept. 17, 1954.



SN 679,648. Counter and Control Corporation, Milwaukee, Wis. Filed Jan. 10, 1955.

## PROGRAMONITOR

Applicant claims ownership of Reg. No. 526,487.  
For Controls for Sequence Switching.  
Use since Dec. 15, 1954.

SN 679,781. Ipsen Industries, Inc., Rockford, Ill. Filed Jan. 12, 1955.

## DEWTECTOR

For Apparatus for Measuring Dewpoint.  
Use since Nov. 1, 1954.

SN 679,855. Metrawatt Aktiengesellschaft Fabrik Elektrischer Messgerate, Nurnberg-O, Germany. Filed Jan. 13, 1955.

## Horvex

Applicant claims ownership of German Reg. No. 649,831, dated Dec. 10, 1953.

For Electrical Measuring Instruments—Namely, Current, Voltage, Frequency, and Wattmeters, Recording Measuring Instruments, Insulation Measuring Instruments, Earth Testers, Photoelectrical Measuring Instruments, Photoelectrical Exposure Meters.

SN 679,970. Associated British-Pathe Limited, London, England. Filed Jan. 17, 1955.

## PAKOLOR

Applicant claims ownership of British Reg. No. 703,387, dated Dec. 13, 1951.

For Sensitized Film, Plates, and Paper.

SN 680,046. Trans-Weigh Company, Wayne, Pa. Filed Jan. 17, 1955.

## BELT~METER

For Scale for Weighing a Moving Load Carried by a Continuous Conveyor.

Use since February 1952.

SN 680,237. Victor Adding Machine Co., Chicago, Ill. Filed Jan. 20, 1955.

## VIC-DAR

For Data Reduction Apparatus.  
Use since Oct. 22, 1954.

SN 680,519. Coro, Inc., New York, N. Y. Filed Jan. 26, 1955.

## SUNSET

For Sunglasses.  
Use since Jan. 7, 1955.

CLASS 28  
SN 682,512. R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Filed Feb. 28, 1955.

## IMPROMPTU

For Silver Plated Hollow Ware.  
Use since Feb. 16, 1955.

CLASS 29  
SN 655,516. Cimex-Fraser Tuson Limited, Orpington, Kent, England. Filed Oct. 29, 1953.

## WAXICATOR

Applicant claims ownership of British Reg. No. 715,008, dated Feb. 18, 1953.

For Hand Operated Applicators for Applying Polish and Polishing Floor Surfaces.

SN 677,949. Easy Day Manufacturing Company, Brookline, Mass. Filed Dec. 8, 1954.

## LOLLY-MOP

The word "Mop" is disclaimed apart from the mark as shown.

For Dry Mops.  
Use since Nov. 15, 1951.

SN 677,950. Easy Day Manufacturing Company, Brookline, Mass. Filed Dec. 8, 1954.

## Magneteeen

For Dust Cloths.  
Use since July 7, 1954.

SN 678,081. Angus Mills, Inc., Vass, N. C. Filed Dec. 10, 1954.



For Cloths for General Cleaning.  
Use since Jan. 15, 1946.

CLASS 31  
SN 655,850. Constant G. Pettas, d. b. a. Pettas Aquarium Co., Montreal, Quebec, Canada. Filed Nov. 4, 1953.

## DUPLEX

For Plastic Siphon Filters for Aquariums.  
Use since Sept. 15, 1953.

SN 657,618. Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Filed Dec. 8, 1953.

## SPHERICONE

For Hot Process Softeners.  
Use since on or about Aug. 31, 1950.

SN 667,667. Barnstead Still and Sterilizer Co., Boston, Mass. Filed June 4, 1954.



For Air Filters.  
Use since May 24, 1954.

SN 676,586. The Barnebey-Cheney Company, Columbus, Ohio. Filed Nov. 15, 1954.

## dacor

For Air Conditioning Filters Containing Activated Carbon for Use in Removing Noxious Gases From the Atmosphere.  
Use since Mar. 1, 1954.

CLASS 32  
SN 677,945. Diamond Bros. Company, Trenton, N. J. Filed Dec. 8, 1954.



For Living Room Furniture—Namely, Upholstered Chairs, Chair Beds, Bed Davenport, Sofas, Sofa Beds, and Ottomans.  
Use since November 1951.

SN 678,090. Chief Industries, Dowagiac, Mich. Filed Dec. 10, 1954.

## Pandora

For Metal Picture Frames.  
Use since May 25, 1954.

SN 678,417. Nylow Sit-Rite Corp., New York, N. Y. Filed Dec. 15, 1954.

## NYLOW

For Portable Seats and Back Supports of Rigid Material.  
Use since Apr. 15, 1954.

TM 696 O. G.—13

### CLASS 34

SN 642,542. W. H. Buntin Company, Inc., d. b. a. General Heating Products Co., Philadelphia, Pa. Filed Feb. 20, 1953.

## Thrift-Master

For Heating Boilers, Steam and Hot Water, Oil, Gas, Coal and Stoker Fired; Finned Tube Convector Radiation Devices; Finned Tube Baseboard Radiation Devices; Winter Air Conditioners, Both High-Boy and Low-Boy; Package Unit Blowers for Converting Gravity Warm Air Furnaces to Forced Warm Air Furnaces; Oil Burners for Heating Purposes; and Gas Burners for Heating Purposes.  
Use since Sept. 12, 1950.

SN 648,458. York-Shipley, Inc., York, Pa. Filed June 8, 1953. Sec. 2(f).



For Complete Air Conditioning Units.  
Use since July 26, 1948.

SN 661,395. Appliance Building Company, Inc., Seattle, Wash. Filed Feb. 23, 1954.



For Gas Water Heaters, Gas and Oil Fired Boilers: Baseboard, Convector and Radiator Heating Systems.  
Use since on or about July 1, 1946.

SN 678,002. Syneromatic Corporation, Watertown, Wis. Filed Dec. 8, 1954.

## HI-CAP

No registration rights are claimed for the words "High Capacity" except in association with the other features of the mark.

For Oil-Fired, Gas-Fired, Stoker-Fired, and Hand-Fired Warm Air Furnaces.  
Use since Jan. 12, 1950.

SN 678,515. The Coleman Company, Inc., Wichita, Kans. Filed Dec. 17, 1954.

## AIR-MIST

For Evaporative Condensers.  
Use since Oct. 12, 1954.



SN 678,536. Hy-Lo Burner Company, Inc., Eddington, Pa. Filed Dec. 17, 1954.

## COOL COMFORT

For Air-Conditioning Units, Cooling Units, Dehumidifiers, Blowers, and Fans.  
Use since Oct. 15, 1954.

SN 678,963. Colorado Iron Works Company, Denver, Colo. Filed Dec. 27, 1954. Sec. 2(f).

## SKINNER

For Vertical, Rotary Ore Roasting Ovens.  
Use since on or about Dec. 15, 1919.

### CLASS 35

SN 676,360. John A. Christie, Akron, Ohio. Filed Nov. 10, 1954.

## L. C. P. M.

For Camelback for Pneumatic Tires.  
Use since Sept. 20, 1954.

### CLASS 36

SN 668,795. Robert S. Sylvester, d. b. a. Unicorn Records, Boston, Mass. Filed June 23, 1954.



The lining on the drawing has no color significance.  
For Mechanically Grooved Phonograph Records.  
Use since Jan. 14, 1954.

SN 672,563. Philip J. Cartwright, Maplewood, N. J. Filed Sept. 1, 1954.



For Mechanically Grooved Phonograph Records.  
Use since July 27, 1954.

SN 672,800. Clarendon House Limited, Toronto, Ontario, Canada. Filed Sept. 7, 1954.



For Mechanically Grooved Phonograph Records.  
Use since Apr. 19, 1954.

SN 673,331. Bandland, Inc., Detroit, Mich. Filed Sept. 17, 1954.



For Mechanically Grooved Phonograph Records.  
Use since Sept. 21, 1951.

SN 676,045. Ed-U-Cards Mfg. Corp., New York, N. Y. Filed Nov. 4, 1954.

## Ed-U-RECORD

For Grooved Phonograph Records.  
Use since Aug. 2, 1954.

SN 677,913. Winter & Company, Inc., New York, N. Y. Filed Dec. 7, 1954.



Applicant claims ownership of Reg. Nos. 332,518, 548,108, and others.  
For Pianos.  
Use since on or about July 1, 1954.

SN 679,047. M. Hohner, Inc., New York, N. Y. Filed Dec. 28, 1954.

## CLARINA

For Musical Instruments in the Nature of Blow Harmonicas.  
Use since Oct. 1, 1954.

### CLASS 37

SN 636,712. Wilson Jones Company, Chicago, Ill. Filed Oct. 16, 1952. Sec. 2(f).

## TWIN LOCK

For Loose Leaf Binders, Loose Leaf Binder Metals—Namely, Back Members, Posts and Screws, and Loose Leaf Sheets for the Same.  
Use since Apr. 1, 1905.

SN 650,207. The Northwest Paper Company, Cloquet, Minn. Filed July 13, 1953.



The drawing is lined for red. No claim is made to the words "Paper Makers Since 1898" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 560,805 and 215,318.

For Paper—Namely, Book, Text, Offset, Mimeograph, Bond, Ledger, Duplicator, Postcard, and Index Bristol.  
Use since July 13, 1951.

SN 657,297. Riegel Paper Corporation, New York, N. Y. Filed Dec. 2, 1953. Sec. 2(f) as to "Riegel."

## RIEGEL-PAK

Applicant claims ownership of Reg. No. 278,802.  
For Treated Kraft and Glassine Paper.  
Use since June 3, 1953, and since 1862 as to "Riegel."

SN 658,942. Stuart Hall Company, Inc., Kansas City, Mo. Filed Jan. 4, 1954.



For Stationery in the Nature of Writing Paper and Envelopes Therefor.  
Use since Jan. 10, 1953.

SN 659,921. Drug Package, Incorporated, St. Louis, Mo. Filed Jan. 22, 1954.

## DRUG-PAK

For Wrapping Paper, Desk Cases for Memorandum Paper, Non-Mechanical Label Moisteners, Mailing Envelopes and Partially Printed and Blank Bottle Labels.  
Use since on or about Jan. 1, 1934.

SN 660,180. George C. Austin, d. b. a. Finance System Agency, Canton, Ohio. Filed Jan. 27, 1954.



The words "Service," "Co-Operation," and "Protection" are disclaimed apart from the mark as shown.  
For Form Letters for Collection Purposes and the Binders and Envelopes Therefor.  
Use since Sept. 12, 1947.

## FOLD-O-HINGE

The word "Hinge" is disclaimed apart from the mark as shown.  
For Stamp Hinges.  
Use since Feb. 14, 1941.

SN 665,791. William H. Spencer, d. b. a. Alliance Rubber Company, Alliance, Ohio. Filed May 5, 1954. Sec. 2(f).

## OPEN-RING

For Rubber Bands.  
Use since on or about June 1, 1941.

SN 668,531. The Crystal Tissue Company, Middletown, Ohio. Filed June 21, 1954. Sec. 2(f).

## CRYSTEX

Applicant claims ownership of Reg. Nos. 147,765 and 578,192.  
For Tissue Paper.  
Use since May 25, 1942.

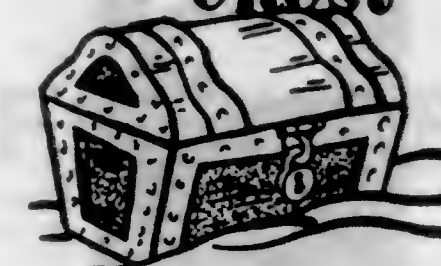
SN 670,432. Marathon Corporation, Menasha, Wis. Filed July 22, 1954.

## KOLOR-PAK

For Paper Napkins.  
Use since July 25, 1953.

SN 670,626. Cye Tankersley, d. b. a. Treasure Stamp Co., Lubbock, Tex. Filed July 26, 1954.

## Treasure Chest



For Partially Printed Blank Booklets for Mounting Trading Stamps.  
Use since May 19, 1954.

SN 676,069. Olmsted-Kirk Company, Dallas, Tex. Filed Nov. 4, 1954. Sec. 2(f).

## FORT WORTH BOND

The word "Bond" is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 550,303.  
For Bond Paper.  
Use since Oct. 8, 1949.



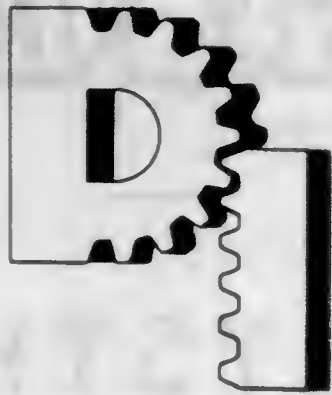
SN 677,832. Warner-Grafmueller Industries, New York, N. Y. Filed Dec. 6, 1954.

# Novel Craft

For Writing Paper and Envelopes Therefor.  
Use since Sept. 20, 1954.

## CLASS 38

SN 668,163. Dresser Industries, Inc., Dallas, Tex. Filed June 14, 1954.



For Circulars, Newsletters, and Other Publications Issued From Time to Time.  
Use since Jan. 31, 1946.

SN 671,853. Theta Sigma Phi, Austin, Tex. Filed Aug. 17, 1954.

# the matrix

Applicant claims ownership of Reg. No. 402,022.  
For Magazine for All Women Who Write, a Publication for Sale to the Public, Schools, Libraries, and Individuals.  
Use since March 1915.

SN 672,946. General Sales Company, Inc., Omaha, Nebr. Filed Sept. 9, 1954.



For Trading Stamps, Premium Coupons.  
Use since Jan. 1, 1949.

SN 677,014. United Press Associations, New York, N. Y. Filed Nov. 19, 1954.

# UNIPIXFAX

Applicant claims ownership of Reg. Nos. 603,654 and 565,992.  
For Wire Photo Pictorial News Releases.  
Use since Oct. 15, 1954.

SN 678,936. Ruth W. Walbridge, d. b. a. Jane Matthews, New Canaan, Conn. Filed Dec. 24, 1954.



For Advertising Column.  
Use since March 1953; and February 1949 as to "Shopping With Jane."

## CLASS 39

SN 643,189. Philip Schneider & Co., New York, N. Y. Filed Mar. 5, 1953.

# Mr. Master

For Boys' Suits.  
Use since Jan. 25, 1953.

SN 652,044. Advance Glove Manufacturing Co., Detroit, Mich. Filed Aug. 20, 1953.



Applicant claims ownership of Reg. No. 414,016.  
For Asbestos Gloves.  
Use since July 30, 1952.

SN 662,639. Stephen Jay Company, New York, N. Y. Filed Mar. 15, 1954.

# Slim-Thi

For Girdles.  
Use since Aug. 29, 1953.

SN 670,475. Fairmoor Coat & Suit Corp., New York, N. Y. Filed July 23, 1954.

# BEAVANA

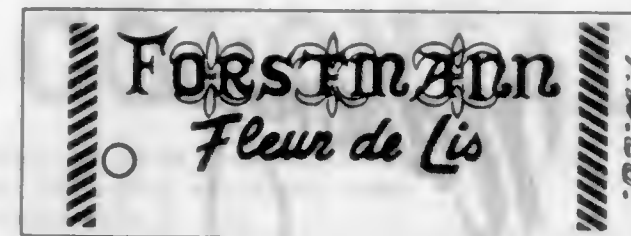
For Ladies' and Misses' Coats and Suits.  
Use since Apr. 21, 1954.

SN 672,419. Hayward-Schuster Woolen Mills, Inc., East Douglas, Mass. Filed Aug. 30, 1954.

# Germania

For Women's and Children's Coats, Jackets, and Mackinaws.  
Use since Aug. 2, 1954.

SN 676,310. Forstmann Woolen Co., Passaic, N. J. Filed Nov. 9, 1954. Sec. 2(f) as to "Forstmann."



Applicant claims ownership of Reg. Nos. 580,698 and 580,939.  
For Apparel—Namely, Women's Sweaters.  
Use since Oct. 21, 1954.

SN 677,580. La Jolla Sportswear Company, Los Angeles, Calif. Filed Dec. 1, 1954.

# Masculini

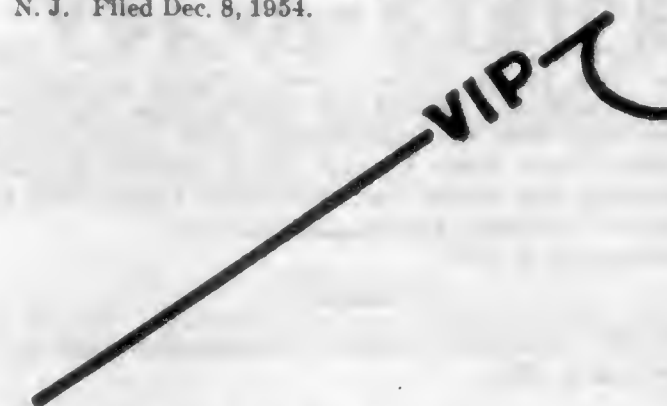
For Men's Slacks and Sport Shirts.  
Use since Mar. 1, 1954.  
Subj. to Intf. with SN 674,828.

SN 677,878. P. H. Hanes Knitting Company, Winston-Salem, N. C. Filed Dec. 7, 1954.

# SURE SHAPE

For Knitted Underwear—Namely, T-Shirts.  
Use since Dec. 2, 1954.

SN 678,001. Sweeney Lithograph Company, Inc., Belleville, N. J. Filed Dec. 8, 1954.



For Neckties.  
Use since on or about Aug. 25, 1954.

SN 678,110. Harwood Manufacturing Corporation, New York, N. Y. Filed Dec. 10, 1954.

# AMERICAN DREAM

For Men's, Women's, and Children's Pajamas.  
Use since Nov. 15, 1954.

SN 678,111. Harwood Manufacturing Corporation, New York, N. Y. Filed Dec. 10, 1954.

# DREAM THEME

For Men's, Women's, and Children's Pajamas.  
Use since Nov. 15, 1954.

# DREAM JAMA

For Men's, Women's, and Children's Pajamas.  
Use since Nov. 15, 1954.

SN 678,164. John B. Stetson Company, Philadelphia, Pa. Filed Dec. 10, 1954. Sec. 2(f).

# MITY-LITE

Applicant claims ownership of Reg. No. 319,971.  
For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.  
Use since Oct. 1, 1933.

SN 678,204. Corbin, Ltd., New York, N. Y. Filed Dec. 13, 1954.

# NATURAL SHOULDER

For Men's Trousers, Slacks, Walking Shorts, and Bermuda Shorts.  
Use since Sept. 23, 1954.

SN 678,796. Mavest, Inc., New York, N. Y. Filed Dec. 22, 1954.

# THE Lead-Off

For Men's Clothing—Namely, Sport Coats.  
Use since Nov. 26, 1954.

SN 678,809. Pollak Industrial Corp., New York, N. Y. Filed Dec. 22, 1954.

# FAWNTRA

For Women's and Children's Felt Hats, Untrimmed.  
Use since July 26, 1932.

SN 678,811. Pollak Industrial Corp., New York, N. Y. Filed Dec. 22, 1954.

# FOULARD

For Women's Felt Hats, Untrimmed.  
Use since Aug. 11, 1930.

## CLASS 40

SN 665,121. William L. Kriech, d. b. a. F & W Novelty Company, Philadelphia, Pa. Filed Apr. 23, 1954.

# "Joe = ger = Ed"

For Woman's Costume Accessory Made of Non-Precious Metal and Attachable to the Hair, the Wrist, the Neck, and to Wearing Apparel.  
Use since Apr. 21, 1954.



SN 671,677. E. C. Scherrer, Inc., New York, N. Y. Filed Aug. 13, 1954.

# MESHÉLAN

For Braids Used in the Manufacture of Hat Bodies.  
Use since Oct. 15, 1953.

## CLASS 42

SN 656,335. Riverdale Manufacturing Company, Inc., New York, N. Y., now by merger A. D. Juilliard & Co., Inc. Filed Nov. 13, 1953.

# DUPLEX PRINTS BY RIVERDALE

Applicant disclaims the wording "Duplex Prints" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 560,087 and 580,206.

For Draperies—Namely, Window and Shower Curtains, Curtains for Doorways.  
Use since July 15, 1953.

SN 668,986. D. B. Fuller & Co., Inc., New York, N. Y. Filed June 28, 1954.

# BEACHLAND

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres, and Mixtures Thereof.  
Use since Apr. 28, 1953.

SN 669,658. Eugene T. Barwick, d. b. a. E. T. Barwick Mills, Chamblee, Ga. Filed July 9, 1954.

# Clearfield

For Textile Rugs.  
Use since on or about May 6, 1954.

SN 669,661. Eugene T. Barwick, d. b. a. E. T. Barwick Mills, Chamblee, Ga. Filed July 9, 1954.

# Kirkwood

For Textile Rugs.  
Use since on or about May 6, 1954.

SN 670,003. The O'Neill Rug & Carpet Company, Inc., New Rochelle, N. Y. Filed July 14, 1954.

# RUGMATE

For Textile, Wool, and Other Fibrous Carpets and Rugs.  
Use since June 3, 1954.

SN 670,059. William Nathans & Son Inc., New York, N. Y. Filed July 15, 1954.

# "Nasonized"

For Spot and Stain Resistant and Water Repellent Fabrics in the Piece of Cotton, Rayon, Silk, Synthetic Fibres, and Mixtures Thereof.  
Use since Mar. 20, 1951.

SN 670,219. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Filed July 19, 1954.

# NELON

Applicant claims ownership of Reg. No. 548,249.  
For Textile Face Rugs and Carpets of Wool and of Nylon.  
Use since June 16, 1954.

SN 671,111. The Olen Company, Mobile, Ala. Filed Aug. 4, 1954.

# Royal Choice

For Sheets, Pillow Cases, Towels, Wash Cloths, Dish Towels, Dish Cloths, Pillow Covers (Plastic or Textile), Blankets, Comforters, Bedspreads, Textile Rugs, Bath Mats and Lid Cover Sets, Curtains, Drapes, Table Cloths (Plastic or Textile), Place Mats, Napkins, Vanity Scarves, Runners, and Sheeting and Muslin, and Waterproof Plastic Film for Making Into Curtains, Aprons, and the Like.  
Use since Mar. 5, 1951.

SN 671,236. American Cyanamid Company, New York, N. Y. Filed Aug. 6, 1954.

# X-54

Applicant claims ownership of Reg. Nos. 566,382, 580,226, and others.  
For Fabrics Woven of and Knitted of Synthetic Acrylic Fiber.  
Use since July 19, 1954.

SN 671,496. Einiger Mills, Inc., New York, N. Y. Filed Aug. 11, 1954.

# CASHEEN

For Woolen Piece Goods.  
Use since Aug. 4, 1954.

SN 675,541. Chicopee Manufacturing Corporation, Chicopee Falls, Mass. Filed Oct. 27, 1954.

# COLONIAL

Applicant claims ownership of Reg. No. 319,258.  
For Cheesecloths and Utility Cloths.  
Use since Mar. 9, 1934.

SN 678,886. Shirley Fabrics Corp., New York, N. Y. Filed Dec. 23, 1954.

# BALLINA

For Textile Fabrics in the Piece of Cotton, Rayon, Wool, and Combinations Thereof.  
Use since July 20, 1953.

SN 678,943. Cotonificio Valle di Susa, Milan, Italy, to Susa Corporation, New York, N. Y. Filed Dec. 17, 1954.

# susa

For Cloths of Cotton, Hemp, Linen, Rayon, Wool, Hair Silk, Jute, and Other Fibers.  
Use since May 1, 1939.

SN 679,468. A. D. Juilliard & Co., Inc., New York, N. Y. Filed Jan. 5, 1955.

# VELVA-STRIPE

Applicant claims ownership of Reg. No. 155,199.  
For Piece Goods Made From or Containing Natural or Synthetic Fibers, or Both.  
Use since on or about Dec. 14, 1954.

## CLASS 43

SN 671,237. American Cyanamid Company, New York, N. Y. Filed Aug. 6, 1954.

# X-54

Applicant claims ownership of Reg. Nos. 566,382, 580,226, and others.  
For Thread and Yarn Containing Synthetic Fiber.  
Use since July 19, 1954.

SN 678,892. United Elastic Corporation, Easthampton, Mass. Filed Dec. 23, 1954.

# Pluralastic

For Rubber Thread.  
Use since June 14, 1934.

## CLASS 44

SN 647,334. The W. E. Bassett Company, Derby, Conn. Filed May 20, 1953.

# TRIM

Applicant claims ownership of Reg. Nos. 433,832 and 530,527.  
For Nail Files.  
Use since Nov. 7, 1952.

SN 662,141. Pulmosan Safety Equipment Corporation, Brooklyn, N. Y. Filed Mar. 5, 1954.

# CHEMOCART

For Chemical Respirators and Cartridge Refills for Chemical Respirators.  
Use since Sept. 1, 1953.

SN 662,143. Pulmosan Safety Equipment Corporation, Brooklyn, N. Y. Filed Mar. 5, 1954.

# PULMOSAN STOPS Accidents

The exclusive use to the words "Stops Accidents" is disclaimed apart from the mark shown without, however, waiving any common law right thereto. Applicant claims ownership of Reg. No. 217,429.  
For Safety Equipment—Namely, Gas Masks; Canister Refills of Gas-Absorbent Material; and Respirators.  
Use since January 1945.

SN 664,973. Premier Dental Products Company, Philadelphia, Pa. Filed Apr. 21, 1954.

# ALLSPEEDS

For Dental Instruments—Namely, Contra-Angles and Hand-Pieces.  
Use since February 1954.

SN 675,623. Connecticut Bandage Mills, Inc., Bridgeport, Conn. Filed Oct. 28, 1954.

# FOAMTRAC

For Bandages.  
Use since Aug. 17, 1954.

SN 675,732. Telex, Inc., St. Paul, Minn. Filed Oct. 29, 1954.

# TELA-EAR

For Hearing Aid.  
Use since Sept. 18, 1954.



SN 676,450. Androl Industries, Inc., New York, N. Y. Filed Nov. 12, 1954. SN 629,941. H. Bahlsens Keksfabrik K. G., Hannover, Germany. Filed May 20, 1952.

## "BETTY'S"

For Therapeutic Facial Mask Adapted To Contain Ice or Hot Water.

Use since September 1954.

### CLASS 45

SN 663,778. Frostop Products, Inc., Rochester, N. Y. Filed Apr. 2, 1954.



Applicant claims ownership of Reg. No. 266,931. For Root Beer and Syrup Used in Making Root Beer. Use since Apr. 1, 1926.

### CLASS 46

SN 582,345. Churchill Meat Company, Pittsburgh, Pa. Filed July 22, 1949.



The words "Wafer-Steaks" and the representation of the particular food shown are disclaimed apart from the mark as shown. The drawing is lined for red.

For Frozen Fresh Beef Patties. Use since July 13, 1949.

SN 619,648. Louis Rosenberg, d. b. a. The Thrivo Company, Philadelphia, Pa. Filed Oct. 5, 1951.

## DOGALOGUE



Applicant claims ownership of Reg. No. 561,258. For Dog and Cat Food. Use since on or about Aug. 14, 1951.

## PATIENCE

Priority under Sec. 44(d). German application filed Dec. 17, 1951, Reg. No. 639,636, dated June 11, 1953.

For Baking Chocolate, Candy, Pastries, Crackers, Wafers, Biscuits, Waffles, Sugar-Containing Filling Masses for Pastries, Cookies, Wafers, and Waffles; Cocoa, Zwiebacks, Yeasts, Baking Powder, Pudding Powder, Ice Cream, Sherbet, Cocoa-Butter for Food Purposes.

SN 633,833. Colonial Molasses Co. of La., Inc., New Orleans, La. Filed Aug. 13, 1952. Sec. 2(f).

## CANE BRAKE SYRUP

No claim is made to use of word "Syrup" apart from mark as shown.

For Sugar Cane Syrup.

Use since on or about Nov. 1, 1933.

SN 638,446. Societe Fromageries Bel, Paris, Seine, France. Filed Nov. 21, 1952.



THE MERRY COW  
LA VACA ALEGRE  
A VACA ALEGRE  
LA MUCCA ALLEGRA  
DIE FROEHLICHE KUH

### LA VACHE JOYEUSE

Priority under Sec. 44(d). French application filed Aug. 12, 1952, Reg. No. 421,923, dated Aug. 12, 1952.

For Butter, Cheese, Edible Animal and Vegetable Grease, Edible Animal and Vegetable Oil, Vinegar, Salt, Pickles, Yeast, and Water Ice.

SN 643,077. Clemente Jacques y Cia, S. A., Mexico City, Mexico. Filed Mar. 4, 1953.



The legend "Fabrika de Conservas Alimenticias" is the Spanish for "Can Goods Factory" and said legend is hereby disclaimed apart from other features of the mark shown. Applicant claims ownership of U. S. Reg. No. 262,684 (expired).

For Canned Dry Chili in Daube Sauce. Use since May 30, 1924.

SN 646,621. Lily Lake Cheese Co., Inc., New York, N. Y. Filed May 7, 1953.



For Canned Cooked Ham. Use since July 16, 1952.

SN 646,764. H. & M. Packing Company, Inc., Brooklyn, N. Y. Filed May 11, 1953. SN 649,703. Grand Food Products, Inc., Chicago, Ill. Filed July 2, 1953.



The words "Brand" and "Prune Juice" and the representation of a glass of prune juice are disclaimed apart from the mark as shown.

For Prune Juice.

Use since June 10, 1947.

SN 647,366. Thomas B. R. Peters, d. b. a. The Peters Agency, Kansas City, Kans. Filed May 20, 1953.

## "BREAK"

For Coffee.

Use since Apr. 15, 1953.

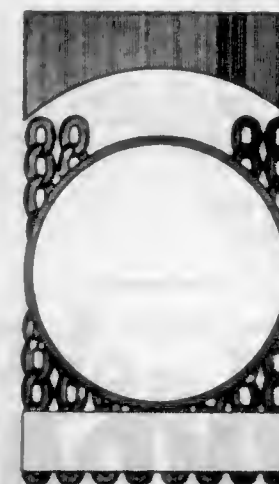
SN 647,710. The T. J. Paisley Company, Medina, Ohio. Filed May 26, 1953.



For Strawberry Jam, Sweet Gherkins, Pickle Chips, Orange Honey, Mixed Pickles, Blackberry Jam, Clover Honey, Sage Honey, Midget Pickles, Grape Jelly, Comb Honey, Sweet Cucumber Relish, Apple Butter, and French Dressing.

Use since Nov. 18, 1951.

SN 648,146. Universal Mills, Fort Worth, Tex. Filed June 2, 1953.



The drawing is lined for red and blue. Applicant claims ownership of Reg. Nos. 571,281 and 592,493.

For Feed for Poultry and Livestock.

Use since July 15, 1948.

TM 696 O. G.—14

## Isle of Snow

For Bottled Fruit Juices and Flavoring Extracts for Food Purposes.

Use since November 1946.

SN 650,465. United States Department of Agriculture, Production and Marketing Administration, Washington, D. C. Filed July 17, 1953. CERTIFICATION MARK.



Applicant claims ownership of Reg. No. 559,448. For Butter, Dry Milk Solids, and Cottage Cheese. Use since not later than July 12, 1951.

SN 651,574. Foremost Dairies, Inc., Jacksonville, Fla. Filed Aug. 10, 1953.



Applicant claims ownership of the mark shown in expired Reg. No. 270,540.

For Ice Cream and Sherbet.

Use since Apr. 18, 1929.

SN 657,065. Paramount Citrus Association, Inc., San Fernando, Calif. Filed Nov. 27, 1953.

## HIGHMOST

For Fresh Citrus Fruits. Use since 1940.

SN 659,740. Salerno-Megowen Biscuit Company, Chicago, Ill. Filed Jan. 19, 1954.

## Jingles

For Cookies. Use since Nov. 26, 1952.



SN 660,849. Beech-Nut Packing Company, Canajoharie, N. Y. Filed Feb. 10, 1954.  
 SN 664,065. The Cooperative Creamery Association, State College, Miss. Filed Apr. 7, 1954.



The drawing is lined for red. Applicant claims ownership of Reg. Nos. 382,238, 123,604, and others.  
 For Coffee.  
 Use since Nov. 9, 1953.

SN 661,945. Antonio Luis Grosso, Buenos Aires, Argentina. Filed Mar. 3, 1954.



No claim is made to the exclusive use of any of the wording with the exception of the word "Casanto."  
 For Sbrinz Type of Cheese.  
 Use since July 31, 1953.

SN 662,107. House of Huston, Inc., Coral Gables, Fla. Filed Mar. 5, 1954.

**WHAT A TREAT**

For Bird Food.  
 Use since Mar. 3, 1953.

SN 662,518. Crown Packing Company, Salinas, Calif. Filed Mar. 12, 1954.

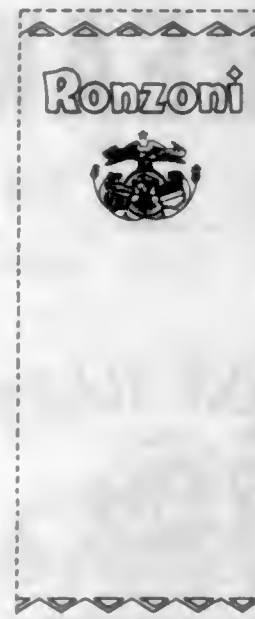
**HEFTY**

For Fresh Vegetables and Melons.  
 Use since Feb. 2, 1945.



Applicant disclaims all wording except "A & M" apart from the mark as shown.  
 For Butter, Dried Milk, Sweet Cream, Fluid Milk, Ice Cream, and Cottage Cheese.  
 Use since Jan. 1, 1914.

SN 665,441. Ronzoni Macaroni Co., Inc., Long Island City, N. Y. Filed Apr. 29, 1954. Sec. 2(f) as to "Ronzoni."



Applicant claims ownership of Reg. Nos. 518,709, 270,229 (not renewed), and 306,691 (not renewed).  
 For Allimentary Pastes.  
 Use since June 1, 1921.

SN 665,462. American Bean & Pea Growers, Inc., Denver, Colo. Filed Apr. 30, 1954.

**Casserole**

For Dried Beans and Peas.  
 Use since Apr. 21, 1954.

SN 666,022. Hollywood Brands, Inc., Centralia, Ill. Filed May 10, 1954.

**SUNDAE**

Applicant claims ownership of Reg. No. 274,579.  
 For Candy Bars.  
 Use since October 1929.

SN 666,493. Joe Lowe Corporation, New York, N. Y. Filed May 17, 1954.  
 SN 671,736. Half Moon Fruit and Produce Co., San Francisco, Calif. Filed Aug. 16, 1954.

**Screen Star Bar**

Applicant disclaims exclusive right to the use of the word "Bar" separate and apart from the mark as shown.  
 For Frozen Confections on Sticks and Chocolate Coatings for the Same.  
 Use since Apr. 21, 1954, on frozen confections on sticks.

SN 666,494. Joe Lowe Corporation, New York, N. Y. Filed May 17, 1954.

**Picture Pop**

Applicant disclaims exclusive right to the use of the word "Pop" separate and apart from the mark as shown.  
 For Frozen Confections on Sticks and Chocolate Coatings for the Same.  
 Use since Apr. 21, 1954, on frozen confections on sticks.

SN 667,810. James J. Matthews, Incorporated, Arlington, Va. Filed June 7, 1954.

The  
**SIR LOINER**

For Sandwiches.  
 Use since June 15, 1953.

SN 668,018. Claymore Corporation, New York, N. Y. Filed June 10, 1954.

**Claymore**

For Canned Fish.  
 Use since June 2, 1953.

SN 669,802. Rice Growers Association of California, Sacramento, Calif. Filed July 12, 1954. Sec. 2(f).

**Golden Pearl**

Applicant claims ownership of Reg. No. 423,401.  
 For Rice.  
 Use since June 11, 1945.



The drawing is lined for red and blue; however, no claim is made to color.  
 For Melons.  
 Use since July 1, 1954.

SN 671,946. Københavnske Bagermestres Nye Rugbrødsfabrik A/S, Copenhagen, Denmark. Filed Aug. 19, 1954.



For Breads.  
 Use since Oct. 11, 1952.

SN 672,083. Kendall Foods, Inc., Los Angeles, Calif. Filed Aug. 23, 1954.

**fives**

Applicant claims ownership of Reg. No. 369,525.  
 For Kibbled Dog Food and Dog Biscuits.  
 Use since Jan. 28, 1939.

SN 674,703. Robert Sealfon, d. b. a. Crandall Pettie Co., Brooklyn, N. Y. Filed Oct. 12, 1954.

**DIPPIT**

For Chocolate Coating for Ice Cream.  
 Use since Aug. 19, 1954.



SN 675,117. Allen Canning Company, Siloam Springs, Ark. Filed Oct. 20, 1954.

*Linda Lee*

For Canned Vegetables and Canned Fruits.  
Use since June 1952.

SN 675,679. N. V. R. Buisman's Koninklijke Fabriek van Gebrande Suikerpoeder, Kerkstraat, Zwartsluis, Netherlands. Filed Oct. 28, 1954.

**BUISMAN'S**

Applicant claims ownership of U. S. Reg. No. 533,829.  
For Flavoring Preparation To Be Mixed With Ground Coffee.  
Use since in the year 1908.

SN 676,665. Sadolan Brothers, Dinuba, Calif. Filed Nov. 15, 1954.

**3 Sons**

For Fresh Grapes.  
Use since Sept. 11, 1954.  
Subj. to Intf. with SN 678,368.

SN 676,803. Haelan Laboratories, Inc., Philadelphia, Pa. Filed Nov. 17, 1954.

**POWER  
FOR PEACE**

For Chewing Gum.  
Use since Oct. 13, 1954.

SN 676,937. The Caffeinette Corporation, San Turce, Puerto Rico. Filed Nov. 19, 1954.



The drawing is lined for brown.  
For Imitation Coffee in Soluble Form.  
Use since Oct. 15, 1953.

SN 676,938. The Caffeinette Corporation, San Turce, Puerto Rico. Filed Nov. 19, 1954.



The drawing is lined for brown.  
For Imitation Coffee in Soluble Form.  
Use since Oct. 27, 1954.

SN 677,097. Roberts Dairy Company, Omaha, Nebr. Filed Nov. 22, 1954.

**CALF'S MOM**

For Calf Feed.  
Use since Oct. 21, 1954.

SN 677,146. Georgia Milk Producers' Confederation, Inc., Atlanta, Ga. Filed Nov. 23, 1954.



For Fluid Milk, Buttermilk, Chocolate Milk Drink, Ice Cream, Sherbet, Fresh Cream, Fresh Eggs, Eggnog Mix, Butter, Cheese, and Fluid Skim Milk.  
Use since June 15, 1954.

SN 677,147. Georgia Milk Producers' Confederation, Inc., Atlanta, Ga. Filed Nov. 23, 1954.



For Fluid Milk, Buttermilk, Chocolate Milk Drink, Ice Cream, Sherbet, Fresh Cream, Fresh Eggs, Eggnog Mix, Butter, Cheese, and Fluid Skim Milk.  
Use since Feb. 1, 1945.

SN 677,148. Georgia Milk Producers' Confederation, Inc., Atlanta, Ga. Filed Nov. 23, 1954.

*Miss Georgia*

For Fluid Milk, Buttermilk, Chocolate Milk Drink, Ice Cream, Sherbet, Fresh Cream, Fresh Eggs, Eggnog Mix, Butter, Cheese, and Fluid Skim Milk.  
Use since Feb. 1, 1945.

SN 677,296. Bruce & Jack's, Barre, Vt. Filed Nov. 26, 1954. SN 678,617. Ferrara Candy Co., Inc., Chicago, Ill. Filed Dec. 20, 1954.

*Bruce and Jack's*

For Salad Dressing.  
Use since June 15, 1953.

SN 677,805. A. E. Ogan, Inc., Boston, Mass. Filed Dec. 6, 1954. SN 678,673. W. B. Roddenberry Co., Inc., d. b. a. Roddenberry Bros., Cairo, Ga. Filed Dec. 20, 1954.



For Food Flavors, Food Flavoring Extracts, Food Colors, Jams, Jellies, Icing Bases, Powdered Toppings for Desserts and Icings, Prepared Doughnut Mixes, Prepared Muffin Mixes, Prepared Cake Mixes, Cake and Pie Fillings.  
Use since on or about June 1953.

SN 678,349. Superior Biscuit Company, Seattle, Wash. Filed Dec. 14, 1954.

**SAILOR BOY**

For Pilot Bread.  
Use since during October 1919.

SN 678,368. Edwin S. Brock, Norfolk, Va. Filed Dec. 15, 1954.



For Fresh Vegetables and Strawberries.  
Use since Oct. 1, 1954.  
Subj. to Intf. with SN 676,665.

SN 678,492. Vitamin Food Company, Inc., Newark, N. J. Filed Dec. 16, 1954.

**VITA-FOOD**

Applicant claims ownership of Reg. No. 162,403.  
For Dried Brewers' Yeast.  
Use since Aug. 13, 1927.

**ATOMIC FIRE BALL**



For Candy—Namely, Jaw Breakers.  
Use since July 22, 1954.

**DEWKIST**

Applicant claims ownership of Reg. No. 216,404.  
For Peanut Butter.  
Use since June 28, 1938.

SN 678,842. Continental Nut Company, Chico, Calif. Filed Dec. 23, 1954.



For Nuts Sold for Human Consumption, Shelled or Unshelled.  
Use since October 1952.

SN 679,389. Hales & Hunter Co., Chicago, Ill. Filed Jan. 4, 1955.

**Pioneer Sup-Pel**

Applicant claims ownership of Reg. Nos. 533,308 and 332,867.  
For Hog and Cattle Feed.  
Use since Dec. 30, 1942.

SN 680,061. Bay State Milling Co., Winona, Minn., d. b. a. Bay State Milling Co., Leavenworth, Kans. Filed Jan. 18, 1955.

**OVEN-BLOOM**

For Wheat Flour.  
Use since Jan. 7, 1955.

SN 680,181. Comet Rice Mills, Houston, Tex. Filed Jan. 20, 1955.

**CASH  
SAVER**

For Rice.  
Use since Jan. 1, 1932.



SN 680,338. Wedgworth Produce, Inc., Belle Glade, Fla. Filed Jan. 21, 1955. Sec. 2(f).  
 SN 678,159. Sheridan Brewing Company, Sheridan, Wyo. Filed Dec. 10, 1954. Sec. 2(f) as to "Sheridan."

# WEDGORTH'S

For Fresh Vegetables.  
 Use since Feb. 1, 1934.

SN 682,068. W. B. Roddenberry Co., Inc., d. b. a. Roddenberry Bros., Cairo, Ga. Filed Feb. 21, 1955.

# Dewkist

Applicant claims ownership of Reg. No. 216,404.  
 For Table Syrups.  
 Use since Nov. 4, 1925.

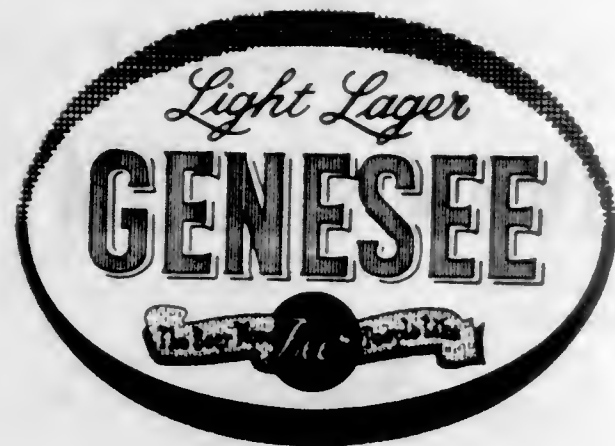
## CLASS 48

SN 653,195. Gabriel Sedlmayr Spaten-Franziskaner-Bräu Aktiengesellschaft München, Munich, Germany. Filed Aug. 17, 1953.

# Schwabinger Bräu

The word "Bräu" shown on the drawing is disclaimed apart from the mark as a whole. Applicant claims ownership of German Reg. No. 355,403, dated Aug. 7, 1926; and the mark shown in U. S. Reg. No. 304,333.  
 For Beer.

SN 667,113. The Genesee Brewing Co., Inc., Rochester, N. Y. Filed May 26, 1954. Sec. 2(f) as to "Genesee."



The drawing is lined for the colors red and yellow, and the lining appearing as a border of the oval design does not represent color. Without waiving any of its common law rights, applicant hereby disclaims "Light Lager," "Beer," and the slogan, "The Beer More People Like," apart from the mark as shown. Applicant claims ownership of Reg. Nos. 314,280, 540,339, and others.  
 For Beer.  
 Use since May 6, 1954.



Applicant claims ownership of Reg. No. 517,818.  
 For Beer.  
 Use since Apr. 1, 1954; and since Jan. 1, 1907, as to "Sheridan."

SN 678,320. Fuhrmann & Schmidt Brewing Company, Shamokin, Pa. Filed Dec. 14, 1954.



For Beer, Ale, Porter, Bock Beer.  
 Use since 1906.

## CLASS 49

SN 652,992. Chivas Brothers Ltd., Glasgow, Scotland. Filed Sept. 10, 1953.

# ROYAL SALUTE

For Whiskey.  
 Use since Mar. 30, 1953.

SN 674,256. L. E. Jung & Wulff Co., Inc., New York, N. Y. Filed Oct. 4, 1954. Sec. 2(f).

# SAN REMO

Applicant claims ownership of the mark shown in Reg. No. 317,797.  
 For Brandy.  
 Use since 1904.

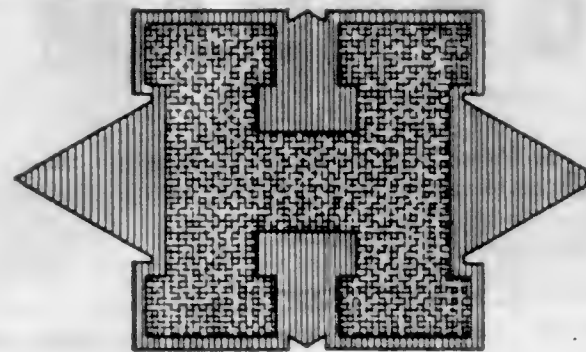
SN 676,313. W. & A. Gilbey Limited, Regent's Park, London, England. Filed Nov. 9, 1954.

# Crock o' Gold

For Irish Whiskey.  
 Use since on or about Oct. 1, 1953.

## CLASS 50

SN 657,162. Mount Hope Machinery Company, Taunton, Mass. Filed Nov. 30, 1953.  
 SN 642,650. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Feb. 24, 1953.



Although the drawing is lined to show red and yellow, no specific color is claimed as a feature of the mark.

For Pig and Lamb Brooders, Hog Feeders, Unplumbed Livestock and Poultry Equipment—Namely, Metal Pans, Metal Waterers and Attachments, Poultry Brooders, Metal Fountains and Feeders, and Attachments, Poultry Nests and Traps, Metal Stock Water Bowls, Troughs, Pans, and Cups.  
 Use since 1925.

SN 645,493. William V. McClure, Jr., d. b. a. Bill McClure, Smithfield, Tex. Filed Apr. 17, 1953.

# MASTER-SAVER

For Feeders for Livestock.  
 Use since July 1, 1950.

SN 652,556. Standard Oil Company of California, Wilmington, Del. Filed Aug. 31, 1953.

# CHEVRON-MATIC

Applicant claims ownership of Reg. Nos. 521,271 and 440,691.  
 For Mounted Embossed Printing Plates.  
 Use since June 1, 1953.

SN 656,328. James M. Ness, d. b. a. Narva Products, Metuchen, N. J., to Narva Products, Inc., New York, N. Y. Filed Nov. 13, 1953.

# STEP N' FETCH

For Ladder Especially Designed for Permanent Affixation to Walls To Permit Access to Shelves and the Like.  
 Use since Aug. 17, 1953.

SN 656,599. Spring Packing Corporation, Chicago, Ill. Filed Nov. 18, 1953.

# Spring Felt

No claim is made by the applicant to the exclusive use of the word "Felt" alone.  
 For Felt Sold by the Piece or Roll.  
 Use since June 27, 1952.

# WEARSAVER

For Tape Which Is To Be Wound Around Sheet-Engaging Rolls To Provide Wearing Surfaces for the Rolls, the Tape Being Adhered to the Rolls by Cement Which Is Applied to the Rolls, or to the Tape, or to Both, During the Procedure of Winding the Tape on the Rolls.  
 Use since Sept. 24, 1953.

SN 662,184. Atlas Manufacturing Company, St. Paul, Minn. Filed Mar. 8, 1954.

# Garden Art

For Trellises for Supporting and Protecting Plants and Shrubs.  
 Use since Jan. 15, 1954.

SN 665,991. Aster Flower Co., New York, N. Y. Filed May 10, 1954.

# SANTA LITE

For Christmas Ornament in the Nature of a Boutonnieres With Pin for Affixing the Same to the Lapel.  
 Use since October 1953.

SN 669,764. Edward G. Hencke, Denver, Colo. Filed July 12, 1954.

# Pla-Paks

For Miniature Figurines.  
 Use since on or about Oct. 2, 1953.

SN 670,377. Plastic Lock Cork Co., Inc., d. b. a. "Lokork" Co., Rochester, N. Y. Filed July 21, 1954.

# "Lokork"

For Bottle Stoppers.  
 Use since June 14, 1954.

SN 670,709. U. S. Packaging Corporation, d. b. a. Bilz Products, Bridgeport, Conn. Filed July 27, 1954.

# BLIZ

For Composition for Decorative Purposes in the Nature of Artificial Snow Flakes Applied by Spraying.  
 Use since September 1951.



SN 672,588. Moriarty Outdoor Advertising Co., Inc., Baton Rouge, La. Filed Sept. 1, 1954.



For Advertising Sign Boards.  
Use since July 30, 1954.

SN 674,087. National Credi-Plate Inc., Atlanta, Ga. Filed Sept. 30, 1954.

# Loan-a-Plate

For Combined Identification Cards and Address Plates.  
Use since Sept. 17, 1954.

SN 674,798. Daniel E. Cardinal, Jr., d. b. a. Cardinal Wood Products, Evanston, Ill. Filed Oct. 14, 1954.

# HOME BOARD

For Perforated Fibreboard for Display and Utility Purposes.  
Use since Sept. 15, 1953.

SN 674,810. The Felters Company, Boston, Mass. Filed Oct. 14, 1954.

# ALLFAB

For Resin-Bonded Felt in the Piece or in Cut Form.  
Use since Oct. 1, 1954.

SN 675,289. King-Lindstrom Co., Paterson, N. J. Filed Oct. 22, 1954.

# sto-a-way

For Folding Ladder.  
Use since Mar. 5, 1954.

SN 675,486. Kingsport Finance Corporation, Kingsport, Tenn. Filed Oct. 26, 1954.

# Market Plan

For Charging Plates.  
Use since Nov. 13, 1953.

SN 675,561. Gotham Industries, Inc., New York, N. Y. Filed Oct. 27, 1954.

# GOTHAM

For Picnic Sets Consisting of a Reusable Plastic Bag, Pitchers, Tumblers, Salad Server Set, Plates, Knives, Forks, and Spoons Made of Plastic.  
Use since January 1946.

SN 676,200. Jomac Inc., Philadelphia, Pa. Filed Nov. 8, 1954.

# BILD-UP

For Knit Tubing Used on the Water Ductor and Water Form Rollers of an Offset Press.  
Use since Sept. 29, 1954.

SN 676,331. Precision Plate Grainers, Inc., College Park, Md. Filed Nov. 9, 1954.

# PRECO

For Printing Plates.  
Use since July 30, 1954.

SN 676,554. Studner-Blumenthal Co., New York, N. Y. Filed Nov. 12, 1954.

# Flintex

For Artificial Leather for Covering Luggage.  
Use since June 1953.

SN 677,161. R. J. Mealey Corporation, San Francisco, Calif. Filed Nov. 23, 1954.

# HAPPY HUCKSTER

For Advertising Displays in the Form of Animated, Mechanical Figures Provided With Electronic Sound Reproducing System To Broadcast Advertising Messages.  
Use since Apr. 15, 1953.

SN 677,162. R. J. Mealey Corporation, San Francisco, Calif. Filed Nov. 23, 1954.

# POINT-O-SALESMAN

For Advertising Displays in the Form of Animated, Mechanical Figures Provided With Electronic Sound Reproducing System To Broadcast Advertising Messages.  
Use since Apr. 15, 1953.

## CLASS 51

SN 646,744. Desert Springs Mineral Baths, Inc., New York, N. Y. Filed May 11, 1953.



For Mineral Bath Salts.  
Use since December 1952.

SN 650,935. Revlon Products Corporation, New York, N. Y. Filed July 27, 1953.

# 'CRAZY PINK'

For Glowing Nail Enamel and Lipstick.  
Use since June 29, 1953.

SN 661,866. P. Beiersdorf & Co. A. G., Hamburg, Germany. Filed Mar. 2, 1954.

# SOLEA

Applicant claims ownership of German Reg. No. 605,588, dated Mar. 7, 1951.

For Toilet Cream for the Care and Protection of the Skin. Recommended Also for the Prevention and Relief of Sunburn and Windburn.

SN 662,191. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed Mar. 8, 1954.

# OLIVIN

Applicant claims ownership of German Reg. No. 640,664, dated June 29, 1953.

For Cosmetic Skin Creams and Lotions.

SN 670,476. Fontaine Perfume Corporation, New York, N. Y. Filed July 23, 1954.

# KISMET

For Perfume, Toilet Water, and Eau de Cologne.  
Use since July 13, 1954.

SN 673,780. Sheslin Products, Incorporated, Idaville, Ind. Filed Sept. 24, 1954.

# SHESLIN

For Liquid Preparation Used as a Hair and Scalp Conditioner.  
Use since June 25, 1954.

SN 675,384. Graid, Inc., New York, N. Y. Filed Oct. 25, 1954.

# GRAID

For Liquid Hair Tonic and Darkener.  
Use since Oct. 5, 1954.

SN 675,555. J. A. Fisher, d. b. a. Alpha Laboratories, Hollywood, Calif. Filed Oct. 27, 1954.

# Moisture Balance

For Liquid Cosmetic Preparation Used as a Skin Conditioner and Suitable as a Powder Base.  
Use since Feb. 25, 1954.

SN 675,626. Etna Chemical Company, Inc., New York, N. Y. Filed Oct. 28, 1954.

# BESTOL

For Hygienic Preparation Indicated for Use as a Mouth Wash and Gargle.  
Use since in or about October 1903.

SN 676,173. Samuel Bonat & Bro., Inc., d. b. a. S. Bonat & Bro., Paterson, N. J. Filed Nov. 8, 1954.

# Forette

For Hair Waving Lotion.  
Use since Aug. 18, 1954.

SN 676,701. Yardley of London, Inc., Union City, N. J. Filed Nov. 15, 1954.

# Vitarvyn

For Cosmetic Facial and Body Creams.  
Use since Nov. 3, 1954.

SN 677,479. Bes-Tone, Ltd., New York, N. Y. Filed Nov. 30, 1954.

# SUPREWAVE

For Permanent Hair Waving Lotions.  
Use since November 1949.



SN 677,493. Doller Corporation, New York, N. Y. Filed Nov. 30, 1954.

# DOLIER

For Toilet Preparations, Perfumery and Cosmetics—Namely, Perfume, Cologne, Toilet Waters, Toilet Creams, Face Powder, Lipsticks, and Rouge.  
Use since Nov. 5, 1954.

SN 678,195. John H. Breck, Inc., Springfield, Mass. Filed Dec. 13, 1954.

## GOLDEN WAVE

For Cold Permanent Wave Preparations—Namely, Waving Lotion, Neutralizer, and Curl Conditioner.  
Use since Nov. 15, 1954.

SN 678,545. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Dec. 17, 1954.

## budding beauty

For Toilet Preparations—Namely, Toilet Water, Hand Lotion, Dusting Powder, After Bath Powder, a Bubbling Bath Preparation, and Lipstick.  
Use since about Aug. 18, 1954.

SN 678,949. Alberto-Culver Company, Hollywood, Calif., to Lobco, Inc., Chicago, Ill. Filed Dec. 27, 1954.

*Alberto*

Applicant claims ownership of Reg. No. 335,421.  
For Brilliantine; Wave-Set; Hair Oil; Cuticle Lotion; Fingernail Polish Remover; Permanent Wave Solutions; Hair Bleaching Preparation; Fingernail Conditioner; Hair Conditioning Preparation; Combined Hair and Scalp Conditioner and Hair Dressing; Hair Pomade and Facial Pack.  
Use since July 1, 1935.

### CLASS 52

SN 642,464. Economics Laboratory, Inc., St. Paul, Minn. Filed Feb. 19, 1953.

## SPEED-WASH

For Car Washing Powder.  
Use since Aug. 15, 1952.

SN 642,682. Neilson Chemical Company, Detroit, Mich. Filed Feb. 24, 1953.

## EMULSOPREP

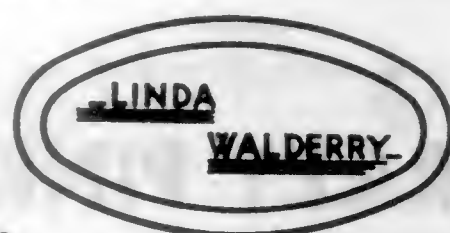
For Metal Cleaners for Use in the Metal Fabricating Industry for the Purpose of Removing Surface Soils, Oils, Greases and Like Compounds From the Surface of Metal.  
Use since Jan. 1, 1950.

SN 658,083. The Savogran Company, Boston, Mass. Filed Dec. 16, 1953.

# Savol

For Liquid Used in the Removing and Cleaning of Wet Oil Base Paints (Flat, Semi-Gloss, Enamel) and Varnish From Paint Rollers, Paint Brushes, Paint Trays.  
Use since July 15, 1953.

SN 659,331. Linda Walderry S. R. L., Buenos Aires, Argentina. Filed Jan. 11, 1954.



For Soaps.  
Use since Mar. 20, 1953.

SN 660,505. Packard Motor Car Company, Detroit, Mich., now by change of name Studebaker-Packard Corporation. Filed Feb. 2, 1954.

## auto-guard

For Cleaners for Automobile Finishes.  
Use since on or about Oct. 15, 1953.

SN 660,816. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Feb. 9, 1954.

## Energex

For Detergent Compositions Incapable of Dry Cleaning Alone but Sold for the Purpose of Adding to Organic Solvent Cleaners for Dry Cleaning Purposes.  
Use since Mar. 22, 1949.

SN 661,564. Globe Products of Florida, Inc., Clearwater, Fla. Filed Feb. 24, 1954.

## FANTASTIC

For Cleaner Concentrate for Rugs, Upholstery, Draperies, Leather, Automobile Interiors, Walls, Woodwork, Floors, Windows, Tiles, Clothing, and the Like.  
Use since Jan. 12, 1954.

SN 667,517. William A. Frangos, Bellerose, N. Y. Filed June 2, 1954.

## STATIC CONTROL

For Cleaning Compound and Static Preventative for Printing Presses, Chromium and Glass.  
Use since Nov. 15, 1952.

SN 669,197. Samuel E. Marshall, d. b. a. The Sam Son Company, Dallas, Tex. Filed June 30, 1954.

## SCALERODE

For Preparation for Removing Scales, Wax, and Oils From Sterilizers, Autoclaves, Stills, and the Like.  
Use since June 21, 1954.

SN 669,693. Milner Products Company, Jackson, Miss. Filed July 9, 1954.



Applicant claims ownership of Reg. No. 341,017.  
For Detergent in Powdered Form for General Household Use.  
Use since Nov. 20, 1935.



For Treated Silicone Cloth Capable for Use for Cleaning Glass—Namely, Eyeglass Lenses and Other Glass Lenses.  
Use since November 1953.

### SERVICE MARKS

#### CLASS 100

SN 605,603. National Cutting Horse Association, Fort Worth, Tex. Filed Oct. 30, 1950.



For Promoting the Development of, and Public Interest in, Livestock and Ranching Through the Promotion and Sponsorship of Public Cutting Horse Contests, Public Exhibition of Cutting Horses in Conjunction With Cattle and Livestock and the Presentation and Participation of Cutting Horse Events in Other General Livestock Exhibitions, Shows, and Expositions; Setting Up Standard Rules for Cutting Horse Contests; Standardizing the Election and Appointment of Judges and Directors or Spokesmen for Such Contests, Exhibitions, and Expositions; and Encouraging the Development and Breeding of Finer Cutting Horses.  
Use since Mar. 1, 1946.

SN 645,220. The American Society of X-Ray Technicians, Fond du Lac, Wis. Filed Apr. 14, 1953.



For Encouraging the Study of and Promoting the Science and Art of Radiology; Planning and Promoting Refresher Courses for Technicians To Improve Their Learning; Fur-

nishing Lists to Physicians of X-Ray Technicians Who Have Been Certified by Applicant's National Examining Board; and Disseminating Information to Its Members Relating to the Latest Developments in the Field of Radiology.  
Use since May 23, 1934.

SN 649,707. Marjory Hendricks, d. b. a. Water Gate Inn, Washington, D. C. Filed July 2, 1953.

## WATER GATE INN

For Restaurant Services.  
Use since Aug. 5, 1952.

SN 676,581. American Automobile Touring Alliance, Ltd., Philadelphia, Pa. Filed Nov. 15, 1954.



For Services Rendered to Motor Vehicle Owners, Motorists and Travelers Generally—Namely, Issuing International Documents, Known as Carnets de Passages and Triptyques, for Use in International Travel; Issuing International Drivers' Licenses and Motor Vehicle License Plates; Issuing Gasoline Coupons to Clients for Certain Foreign Countries; Advocating Legislation on an International Plane Favorable to Safe and Economical Motor Vehicle Travel, Operation and Maintenance.  
Use since on or about Feb. 26, 1932.



## CLASS 101

SN 642,661. Keystone Broadcasting System, Inc., Chicago, Ill. Filed Feb. 24, 1953.

## The Voice of Hometown and Rural America

For Selling Advertising Time on Radio Broadcasting Stations Affiliated With the Applicant, Preparing or Having Prepared for, and/or Distributing to Said Stations for Broadcast Therefrom Programs in Behalf of Advertisers or for Sustaining Purposes, Preparing or Having Prepared for, and/or Distributing to Said Stations Transcriptions and/or Scripts for Use by Said Stations as Part of Said Programs.  
Use since Feb. 13, 1953.

## CLASS 102

SN 675,302. Mid-Continent Insurance Company, Shreveport, La. Filed Oct. 22, 1954.



For Underwriting Hospitalization and Medical Insurance.  
Use since Aug. 16, 1954.

## CLASS 103

SN 635,874. Doane Agricultural Service, Inc., St. Louis, Mo. Filed Sept. 27, 1952. Sec. 2(f).

## POLE FRAME

For Constructing Farm Buildings.  
Use since Aug. 2, 1926.

SN 675,230. Pride Washroom Service, Los Angeles, Calif. Filed Oct. 21, 1954.

**Pride**

For Washroom Sanitation and Maintenance Services.  
Use since May 6, 1954.

## CLASS 105

SN 630,305. Warren E. Avis, Detroit, Mich., to Avis Rent-A-Car System, Inc. Filed May 27, 1952. Sec. 2(f).



For Leasing of Automobiles and Trucks.  
Use since Aug. 30, 1945.

SN 675,567. M & M Transportation Company, Somerville, Mass. Filed Oct. 27, 1954.

**M & M**

The drawing is lined for red, green, and yellow.  
For Transportation of Freight by Truck.  
Use since Jan. 10, 1921.

SN 679,772. Gray Line Sight-Seeing Companies, Associated (Inc.), Chicago, Ill. Filed Jan. 12, 1955. COLLECTIVE MARK.



For Sight-Seeing Services Conducted by Bus, Boat, and Airplane, and Limousine Service.  
Use since Nov. 1, 1915.

SN 679,773. Gray Line Sight-Seeing Companies, Associated (Inc.), Chicago, Ill. Filed Jan. 12, 1955. COLLECTIVE MARK.



For Sight-Seeing Services Conducted by Bus, Boat, and Airplane, and Limousine Service.  
Use since Nov. 1, 1915.

SN 679,774. Gray Line Sight-Seeing Companies, Associated (Inc.), Chicago, Ill. Filed Jan. 12, 1955. COLLECTIVE MARK.

**The  
GRAY LINE**

For Sight-Seeing Services Conducted by Bus, Boat, and Airplane, and Limousine Service.  
Use since Nov. 1, 1915.

## CLASS 106

SN 634,355. Volveray Corporation, New York, N. Y. Filed Aug. 22, 1952.

## MIROTONE

For Decorating and Printing Woven and Knitted Fabrics of Cotton, Silk, Rayon, Nylon, Wool, Acetate, and Linen Belonging to Others.  
Use since Jan. 1, 1942.

SN 666,799. Volveray Corporation, New York, N. Y. Filed May 20, 1954.

**FELTEX**

Applicant claims ownership of Reg. Nos. 393,772 and 361,032.

For Decorating and Printing Woven and Knitted Fabrics of Cotton, Silk, Rayon, Nylon, Acetate, and Linen Belonging to Others.

Use since Jan. 1, 1938.

SN 671,784. Societe Pour le Traitement et l'Amelioration des Tissus, Paris, France. Filed Aug. 16, 1954.

**TRAITE  
Texylon**

Priority under Sec. 44(d). French application filed July 28, 1954, Reg. No. 445,134, dated July 28, 1954.

For Chemically Treating Fibrous Material—Namely, Fabric, Paper, Cardboard, Leather and the Like To Give Better Wearing Properties and Resistance to Chemical Agents.

## CLASS 107

SN 674,830. McClatchy Broadcasting Company, Sacramento, Calif. Filed Oct. 14, 1954. Sec. 2(f).

## Katherine Kitchen

For Entertainment Service Rendered Through the Medium of a Radio Broadcast Program Consisting of Topics of Interest to Women.

Use since Jan. 10, 1934.



# TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

## CLASS 2

- 608,920. THERM-O-BOWL. George W. Emmert. SN 654,654. Pub. 4-19-55. Filed 10-13-53.  
608,921. "BIG-N-THIK" ETC. AND DESIGN. Ice Cream Merchandising Institute, Inc. SN 658,458. Pub. 4-19-55. Filed 12-23-53.  
608,922. PLASTICLEAR. Sander's Supply Corporation. SN 672,105. Pub. 4-19-55. Filed 8-23-54.

## CLASS 4

- 608,923. ROBOT-RESIN. Action Diamond Tool Company. SN 661,248. Pub. 4-19-55. Filed 2-18-54.  
608,924. FUL-LIFE. Fuld Brothers, Inc. SN 663,899. Pub. 3-1-55. Filed 4-5-54.  
608,925. TEMP-O-HONE. Anthony Spano. SN 669,409. Pub. 4-26-55. Filed 7-6-54.  
608,926. DESIGN OF TWO OVALS. Arnold Sampson, d. b. a. E-Z-Est Products Co. SN 670,858. Pub. 4-12-55. Filed 7-30-54.

## CLASS 5

- 608,927. RUB'R-CORK. Van Cleef Bros., Inc. SN 639,253. Pub. 4-5-55. Filed 12-9-52.  
608,928. RE BE WELD. B. B. Chemical Co. SN 649,275. Pub. 4-5-55. Filed 6-24-53.  
608,929. ARMOWELD. Armour and Company. SN 655,819. Pub. 4-19-55. Filed 11-4-53.  
608,930. GORDON'S, EVER FAST AND DESIGN (REPRESENTATION OF A STRONG HUMAN MALE). Eldo Leo Reed, d. b. a. Buck Distributing Service. SN 668,465. Pub. 4-19-55. Filed 6-18-54.  
608,931. ADHEZO. Milton Bradley Company. SN 670,160. Pub. 4-19-55. Filed 7-19-54.  
608,932. IDEAL. Ideal Roller and Manufacturing Company. SN 670,288. Pub. 4-19-55. Filed 7-20-54.  
608,933. SUPERSEAL. Stein, Hall & Company, Inc. SN 671,212. Pub. 4-5-55. Filed 8-5-54.  
608,934. ROLOX. H. V. Hardman Co. Incorporated. SN 671,505. Pub. 4-5-55. Filed 8-11-54.  
608,935. TIP-TOP. Tip-Top Products Company. SN 671,791. Pub. 4-5-55. Filed 8-16-54.  
608,936. TIP-TOP. Tip-Top Products Company. SN 671,792. Pub. 4-12-55. Filed 8-16-54.  
608,937. ACOUSTIMAT. Permacel Tape Corporation. SN 672,011. Pub. 4-5-55. Filed 8-20-54.  
608,938. LT-30. Armstrong Cork Company. SN 672,371. Pub. 4-19-55. Filed 8-30-54.  
608,939. WESTERN. Crown Zellerbach Corporation. SN 672,384. Pub. 4-19-55. Filed 8-30-54.  
608,940. ARCTIC-SEAL AND DESIGN (REPRESENTATION OF A SHIELD). Edmund T. Delaney, d. b. a. Sunshine Tape Company. SN 672,498. Pub. 4-19-55. Filed 8-31-54.  
608,941. TEMP-R-TAPE. The Connecticut Hard Rubber Company. SN 673,576. Pub. 4-26-55. Filed 9-22-54.  
608,942. PIXIE GLUE AND DESIGN. U. S. Adhesives Co. SN 673,696. Pub. 4-26-55. Filed 9-23-54.

## CLASS 6

- 608,943. ESPESOL. Eastern States Chemical Corporation. SN 669,413. Pub. 4-26-55. Filed 7-6-54.

## CLASS 8

- 608,944. OROMESIL. Whiting & Davis Company. SN 665,157. Pub. 4-19-55. Filed 4-23-54.

## CLASS 11

- 608,945. G. B. W. Gaetjens, Berger & Wirth, Inc. SN 655,900. Pub. 4-26-55. Filed 11-5-53.

- 608,946. EARLY AMERICAN LINE. Allied Carbon & Ribbon Mfg. Corp. SN 673,155. Pub. 4-19-55. Filed 9-14-54.  
608,947. N-U-N. Lawrence A. Warzon, d. b. a. N-U-N Chemical Company. SN 678,066. Pub. 4-19-55. Filed 12-9-54.  
608,948. HILTON. Sterling Drug Inc. SN 679,120. Pub. 4-26-55. Filed 12-29-54.  
608,949. TEXDYE. Colonial Process Supply Co. SN 680,516. Pub. 4-19-55. Filed 1-26-55.

## CLASS 12

- 608,950. QUICK PLUG. The Reardon Company. SN 633,588. Pub. 4-26-55. Filed 8-7-52.  
608,951. GRIDSTEEL. Irving Subway Grating Co., Inc. SN 647,500. Pub. 4-26-55. Filed 5-22-53.  
608,952. AMERICAN TRANSLUCENT STRUCTURAL PANAL. American Window Glass Company. SN 652,449. Pub. 4-19-55. Filed 8-28-53.  
608,953. HPI. Hardwood Plywood Institute. SN 653,684. CERTIFICATION MARK. Pub. 4-19-55. Filed 9-24-53.  
608,954. VICTORY. Loxit Systems, Inc. SN 656,428. Pub. 4-26-55. Filed 11-16-53.  
608,955. BARTREV. Bartrev Limited. SN 656,876. Pub. 4-19-55. Filed 11-24-53.  
608,956. IT HAS STOOD THROUGH THE AGES AND DESIGN (PYRAMID). Lunday-Thagard Oil Company. SN 657,152. Pub. 4-26-55. Filed 11-30-53.  
608,957. RRR IN OVAL. Colonial Refining & Chemical Company. SN 662,200. Pub. 4-26-55. Filed 3-8-54.  
608,958. DEANSTEEL AND DESIGN. Albert Dean, Jr., d. b. a. Deansteel Products. SN 662,206. Pub. 4-19-55. Filed 3-8-54.  
608,959. GREEN ARCH AND DESIGN (ARCH). Charles T. Takahashi, d. b. a. C. T. Takahashi & Co. SN 663,400. Pub. 4-19-55. Filed 3-26-54.  
608,960. SUNSET RED. Texas Granite Corporation. SN 664,190. Pub. 4-19-55. Filed 4-8-54.  
608,961. POLLMAN HOMES AND DESIGN (GEOM.). Pollman-Palmquist, Inc. SN 664,348. Pub. 4-19-55. Filed 4-12-54.  
608,962. DEKALUX. United States Plywood Corporation. SN 665,321. Pub. 4-19-55. Filed 4-27-54.  
608,963. TRUMUL. The Babcock & Wilcox Company. SN 665,683. Pub. 4-26-55. Filed 5-4-54.  
608,964. CASH-WAY. The Wickes Corporation. SN 668,421. Pub. 4-26-55. Filed 6-17-54.  
608,965. VENTDOME. Wasco Flashing Co. SN 672,125. Pub. 4-19-55. Filed 8-23-54.  
608,966. PYRODOME. Wasco Flashing Company. SN 672,127. Pub. 4-19-55. Filed 8-23-54.  
608,967. HATCHWAY. Wasco Flashing Company. SN 672,128. Pub. 4-19-55. Filed 8-23-54.  
608,968. TRANSLUSITE. Precision-Made Products, Inc. SN 672,535. Pub. 4-26-55. Filed 8-31-54.  
608,969. HORTON. Chicago Bridge & Iron Company. SN 672,568. Pub. 4-19-55. Filed 9-1-54.  
608,970. LAB-BLOCK. Central Scientific Company. SN 672,927. Pub. 4-26-55. Filed 9-9-54.  
608,971. A. P. GREEN. A. P. Green Fire Brick Company. SN 673,094. Pub. 4-26-55. Filed 9-13-54.  
608,972. WEWACO. Western Waterproofing Company. SN 673,148. Pub. 4-19-55. Filed 9-13-54.  
608,973. STORMMASTER. Storm Sash, Inc. SN 673,253. Pub. 4-19-55. Filed 9-15-54.  
608,974. TUFF-WELD. Goodloe E. Moore, Incorporated. SN 673,468. Pub. 4-26-55. Filed 9-20-54.

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- 608,975. EAGLE. The Eagle-Picher Company. SN 673,972. Pub. 4-19-55. Filed 9-29-54.  
608,976. EAGLE PITCHER. The Eagle-Picher Company. SN 673,973. Pub. 4-19-55. Filed 9-29-54.  
608,977. TACONIZED. Taylor-Colquitt Co. SN 674,913. Pub. 4-26-55. Filed 10-15-54.  
608,978. TACO-WOOD. Taylor-Colquitt Co. SN 674,914. Pub. 4-26-55. Filed 10-15-54.  
608,979. K & M BEST IN ASBESTOS AND DESIGN (REPRESENTATION OF A CAT). Keasbey & Mattison Company. SN 674,977. Pub. 4-19-55. Filed 10-18-54.  
608,980. ALUMA ROLL AND DESIGN. Orchard Brothers Incorporated. SN 675,159. Pub. 4-19-55. Filed 10-20-54.  
608,981. ISAACSON—I IN A CIRCLE. Isaacson Iron Works. SN 675,284. Pub. 4-19-55. Filed 10-22-54.  
608,982. "REMOVE-A-MATIC." Huttig Sash & Door Co. SN 675,393. Pub. 4-26-55. Filed 10-25-54.  
608,983. REPRESENTATION OF A HUMAN ARM IN A CIRCLE. Diamond Alkali Company. SN 675,549. Pub. 4-26-55. Filed 10-27-54.  
608,984. STANDARD MORTAR CEMENT AND DESIGN. Diamond Alkali Company. SN 675,550. Pub. 4-19-55. Filed 10-27-54.

## CLASS 13

- 608,985. PRO GOLF ACE. J. R. Bernstein. SN 620,188. Pub. 3-29-55. Filed 10-19-51.  
608,986. ADAPT-A-STRUT. Garden City Plating & Mfg. Co. SN 661,132. Pub. 3-29-55. Filed 2-16-54.  
608,987. READI-PAKT. Reading Tube Corporation. SN 663,307. Pub. 3-29-55. Filed 3-25-54.  
608,988. READING COPPER-BRASS TUBE AND DESIGN. Reading Tube Corporation. SN 663,308. Pub. 4-19-55. Filed 3-25-54.  
608,989. TOKHEIM. Tokheim Corporation. SN 666,994. Pub. 3-29-55. Filed 5-24-54.  
608,990. KEPOR. U. S. Flexible Metallic Tubing Co. SN 667,912. Pub. 4-19-55. Filed 6-8-54.  
608,991. UNIVERSAL AIR. Perfecting Service Company. SN 671,112. Pub. 4-19-55. Filed 8-4-54.  
608,992. WELDRAWN. Superior Tube Company. SN 672,759. Pub. 3-29-55. Filed 9-3-54.  
608,993. STREAMLINE. Mueller Brass Co. SN 672,835. Pub. 3-29-55. Filed 9-7-54.  
608,994. TOIDEYETTE. The Toldey Company. SN 673,064. Pub. 3-29-55. Filed 9-10-54.

## CLASS 15

- 608,995. INST-A-LUBE. Romolo Capolino, d. b. a. R C Chemical Company. SN 653,621. Pub. 4-26-55. Filed 9-23-53.  
608,996. SUPERTUNE. Douglas Holt (Estd. 1919) Limited. SN 653,634. Pub. 3-29-55. Filed 9-23-53.  
608,997. CALIFORNIA RESEARCH AND DESIGN. California Research Corporation. SN 653,958. Pub. 4-19-55. Filed 9-30-53.  
608,998. AIGLON. Raffinerie de Corps Gras "Aiglon" Société Anonyme. SN 659,809. Pub. 3-29-55. Filed 1-20-54.  
608,999. 530. Jet-Lube, Inc. SN 671,160. Pub. 4-5-55. Filed 8-5-54.  
609,000. MARATHON MILE-MAKER. The Ohio Oil Co. SN 672,527. Pub. 4-5-55. Filed 8-31-54.  
609,001. MACMILLAN. Macmillan Petroleum Corporation. SN 672,743. Pub. 4-5-55. Filed 9-3-54.  
609,002. JALO-LUBE. Jalo-Lube Co. SN 672,823. Pub. 4-5-55. Filed 9-7-54.  
609,003. ALLIED DEHYDRALL. The Allied Petroleum Co., Inc. SN 672,991. Pub. 4-5-55. Filed 9-10-54.  
609,004. AEROMARINE. Klekbaefer Corporation. SN 673,284. Pub. 4-5-55. Filed 9-16-54.  
609,005. HI-GOL. Bobbish Industrial Products Co. SN 673,424. Pub. 4-5-55. Filed 9-20-54.  
609,006. PUROSPIN. The Pure Oil Company. SN 673,767. Pub. 4-5-55. Filed 9-24-54.

- 609,007. PUROTWIST. The Pure Oil Company. SN 673,768. Pub. 4-5-55. Filed 9-24-54.  
609,008. NORTHERN AND DESIGN (REPRESENTATION OF A TREE). Lake Superior Refining Co. SN 673,839. Pub. 4-19-55. Filed 9-27-54.  
609,009. HO-CAR. House of Carras, Ltd. SN 674,514. Pub. 4-19-55. Filed 10-8-54.  
609,010. TMC. Packard Motor Car Company, now by change of name Studebaker-Packard Corporation. SN 674,921. Pub. 4-26-55. Filed 10-14-54.  
609,011. SUNTORK. Sun Oil Company. SN 675,846. Pub. 4-26-55. Filed 11-1-54.

## CLASS 16

- 609,012. PLASTYRENE. Airmarine Manufacturing Corporation. SN 644,378. Pub. 4-19-55. Filed 3-30-53.  
609,013. RUBRIZE AND DESIGN (HUMAN MALE). Rubber Magic, Inc. SN 656,457. Pub. 4-26-55. Filed 11-16-53.  
609,014. K-99. Armstrong Cork Company. SN 657,195. Pub. 4-26-55. Filed 12-1-53.  
609,015. STA-CLEAR. L. K. R. Chemical Products Corporation. SN 657,280. Pub. 4-26-55. Filed 12-2-53.  
609,016. Z. R. C. AND DESIGN. The Sealube Company. SN 661,155. Pub. 4-26-55. Filed 2-16-54.  
609,017. RUST RAIDER. Colonial Refining and Chemical Company. SN 661,779. Pub. 4-26-55. Filed 3-1-54.  
609,018. SEA PROOF. Oliver Reeder & Son, Incorporated. SN 661,907. Pub. 4-26-55. Filed 3-2-54.  
609,019. BRAYCOTE. Bray Oil Company. SN 662,068. Pub. 4-19-55. Filed 3-5-54.  
609,020. GLID-TONE. The Glidden Company. SN 664,306. Pub. 4-19-55. Filed 4-12-54.  
609,021. GALV-KRÖM. Steel City Electric Company. SN 665,150. Pub. 4-19-55. Filed 4-23-54.  
609,022. PITT CHEM HOTLINE. Pittsburgh Coke & Chemical Company. SN 669,570. Pub. 4-26-55. Filed 7-7-54.  
609,023. HULLTEK. Pittsburgh Plate Glass Company. SN 671,198. Pub. 4-26-55. Filed 8-5-54.  
609,024. OMNI BOND. Modern Structures Company, Inc. SN 673,242. Pub. 4-19-55. Filed 9-15-54.  
609,025. Z-7. Burbank Chemical Co. SN 674,560. Pub. 4-19-55. Filed 10-11-54.  
609,026. BURFLEX. Burbank Chemical Co. SN 674,562. Pub. 4-19-55. Filed 10-11-54.  
609,027. INSOTHERM. Standard Industrial Products, Inc. SN 675,730. Pub. 4-19-55. Filed 10-29-54.

## CLASS 17

- 609,028. PRELUNGFILTRD. Robert MacCormack. SN 673,187. Pub. 4-26-55. Filed 9-14-54.  
609,029. COLONY. Larus & Brother Company. SN 673,238. Pub. 4-26-55. Filed 9-15-54.  
609,030. EDGEWORTH. Larus & Brother Company. SN 674,079. Pub. 4-26-55. Filed 9-30-54.

## CLASS 18

- 609,031. LISERGAN. Société des Usines Chimiques Rhone-Poulenc. SN 663,221. Pub. 4-26-55. Filed 3-24-54.  
609,032. SPRINKLETS. Chas. Pfizer & Co., Inc. SN 664,033. Pub. 4-26-55. Filed 4-6-54.  
609,033. RUTAMINAL-RS. Schenley Laboratories, Inc. SN 665,235. Pub. 4-26-55. Filed 4-26-54.  
609,034. PENETRENE. Plough, Inc. SN 666,685. Pub. 4-26-55. Filed 5-19-54.  
609,035. STA-A-VAIL. Wilbur-Ellis Company, d. b. a. Marine By-Products Co. SN 669,845. Pub. 4-26-55. Filed 7-12-54.  
609,036. SUPER ULEX. Physicians and Hospitals Supply Company, Inc., d. b. a. Ulmer Pharmaceutical Company. SN 670,305. Pub. 4-26-55. Filed 7-20-54.  
609,037. RELAMPAGO. Imperial Relampago Corp. SN 670,684. Pub. 4-12-55. Filed 7-27-54.  
609,038. P. L. H. Armour and Company. SN 671,549. Pub. 4-12-55. Filed 8-12-54.



- 609,039. DURA-PROLUTON. Schering Corporation. SN 671,600. Pub. 4-12-55. Filed 8-12-54.  
 609,040. ANSTADONE. Organon Inc. SN 671,662. Pub. 4-12-55. Filed 8-13-54.  
 609,041. PARLITE. American Cyanamid Company. SN 671,703. Pub. 4-12-55. Filed 8-16-54.  
 609,042. CYESICAPS. American Cyanamid Company. SN 671,704. Pub. 4-12-55. Filed 8-16-54.  
 609,043. GESTATABS. White Laboratories, Inc. SN 671,872. Pub. 4-12-55. Filed 8-17-54.  
 609,044. "LUCKY ME" AND DESIGN. Lucky Me Compounding Corporation. SN 671,949. Pub. 4-12-55. Filed 8-19-54.  
 609,045. H-G-R AND DESIGN. Henry Greenfield. SN 673,589. Pub. 4-26-55. Filed 9-22-54.  
 609,046. ARNS. Arnot S. Rogers, d. b. a. Arns Products. SN 673,611. Pub. 4-26-55. Filed 9-22-54.  
 609,047. AMBETA. White Laboratories, Inc. SN 673,956. Pub. 4-26-55. Filed 9-28-54.

## CLASS 20

- 609,048. TWINKLERS AND DESIGN. Bonafide Mills, Inc. SN 668,012. Pub. 4-26-55. Filed 6-10-54.

## CLASS 21

- 609,049. TELEBET. Automatic Remote Systems, to Automatic Remote Systems, Inc. SN 662,506. Pub. 4-26-55. Filed 3-12-54.  
 609,050. ESICO. Electric Soldering Iron Co., Inc. SN 674,504. Pub. 4-19-55. Filed 10-8-54.  
 609,051. EFCON AND DESIGN. Electronic Fabricators, Inc. SN 675,879. Pub. 4-19-55. Filed 11-2-54.  
 609,052. REBAT LIFE-LINE HC. Reading Batteries, Inc. SN 675,909. Pub. 4-19-55. Filed 11-2-54.

## CLASS 22

- 609,053. RESQPAK. Superior Plastics, Inc. SN 657,983. Pub. 4-12-55. Filed 12-14-53.  
 609,054. BIG CHIEF. J. & E. Stevens Company. SN 671,786. Pub. 4-12-55. Filed 8-16-54.  
 609,055. FLI-TOSSR. Thommen, Inc. SN 672,605. Pub. 4-19-55. Filed 9-1-54.  
 609,056. PAUL BUNYAN. The Paul Bunyan Bait Company. SN 672,629. Pub. 4-19-55. Filed 9-2-54.  
 609,057. DESIGN OF MAN. The Paul Bunyan Bait Company. SN 672,717. Pub. 4-19-55. Filed 9-3-54.

## CLASS 23

- 609,058. MAKO AND DESIGN. Maskinaktiebolaget Karlebo. SN 636,897. Pub. 4-26-55. Filed 10-20-52.  
 609,059. REGAL BUILT BY LE BLOND AND DESIGN. The R. K. Le Blond Machine Tool Company. SN 653,264. Pub. 4-26-55. Filed 9-16-53.  
 609,060. REGAL BUILT BY LE BLOND AND DESIGN. The R. K. Le Blond Machine Tool Company. SN 653,265. Pub. 4-26-55. Filed 9-16-53.  
 609,061. DISINSECTOR. Breco Manufacturing Company, Inc. SN 658,513. Pub. 4-19-55. Filed 12-24-53.  
 609,062. THRIFTY. Thrifty Tractor Parts & Equipment Co. SN 662,033. Pub. 4-26-55. Filed 3-4-54.  
 609,063. RONDO AND DESIGN. Gustav August Seewer. SN 662,180. Pub. 4-26-55. Filed 3-2-54.  
 609,064. SPIROID. Illinois Tool Works. SN 663,105. Pub. 4-26-55. Filed 3-23-54.  
 609,065. THE ROAST RESSLER. Kenneth G. Niblack. SN 663,497. Pub. 4-19-55. Filed 3-29-54.  
 609,066. SEA-MASTER MARINE GEAR AND DESIGN. Western Gear Works. SN 663,983. Pub. 11-9-54. Filed 4-5-54.  
 609,067. A. B. DICK. A. B. Dick Company. SN 667,790. Pub. 4-26-55. Filed 6-7-54.  
 609,068. "DYNO-MITE" AND DESIGN. Millers Falls Company. SN 668,407. Pub. 4-26-55. Filed 6-17-54.  
 609,069. HAN-D. Cherry-Burrell Corporation. SN 669,669. Pub. 4-26-55. Filed 7-9-54.  
 609,070. KNIGHT MFG. CO. AND DESIGN. Knight Mfg. Co. SN 669,775. Pub. 4-26-55. Filed 7-12-54.

- 609,071. ACE AND DESIGN. A. W. Rasmussen & Son. SN 669,801. Pub. 4-26-55. Filed 7-12-54.  
 609,072. GRAND. Grand Sheet Metal Products Co. SN 671,998. Pub. 4-26-55. Filed 8-20-54.  
 609,073. SAFGARD. Grand Sheet Metal Products Co. SN 671,999. Pub. 4-26-55. Filed 8-20-54.  
 609,074. GRAND TONE AND DESIGN. Grand Sheet Metal Products Co. SN 672,000. Pub. 4-26-55. Filed 8-20-54.  
 609,075. EEC AND DESIGN. Earth Equipment Corp. SN 672,062. Pub. 4-26-55. Filed 8-23-54.  
 609,076. ROCKETTE. The Singer Manufacturing Company. SN 672,108. Pub. 4-26-55. Filed 8-23-54.  
 609,077. HYDRA-CREEPER. International Harvester Company. SN 672,153. Pub. 4-26-55. Filed 8-24-54.  
 609,078. GMC. General Motors Corporation. SN 672,280. Pub. 4-26-55. Filed 8-26-54.  
 609,079. VORVAC AND DESIGN. Nichols Engineering & Research Corporation. SN 672,311. Pub. 4-26-55. Filed 8-26-54.  
 609,080. JETOMATIC. The Jetomatic Co., Inc. SN 672,339. Pub. 4-26-55. Filed 8-27-54.  
 609,081. HI-D HEAT EXCHANGERS AND OVAL DESIGN. United Aircraft Products, Inc. SN 673,695. Pub. 4-26-55. Filed 9-23-54.

## CLASS 26

- 609,082. FLOTOMETER. Podbleiniak, Inc. SN 628,552. Pub. 11-25-52. Filed 4-23-52.  
 609,083. GRADOSOL. Metal Lux. SN 643,917. Pub. 4-26-55. Filed 3-19-53.  
 609,084. FOTOSETTER. Intertype Corporation. SN 650,182. Pub. 4-26-55. Filed 7-13-53.  
 609,085. PHOTRIX. Wilhelm Witt, d. b. a. Iloca Camera. SN 656,282. Pub. 4-26-55. Filed 11-12-53.  
 609,086. HANSA AND DESIGN. Omiya Shashin Yohin Kabushiki-Kaisha. SN 659,645. Pub. 4-26-55. Filed 1-18-54.  
 609,087. LITHAGON. Geiss-America. SN 662,000. Pub. 11-2-54. Filed 3-4-54.  
 609,088. ASL IN OVAL. Aircraft Specialty Lines. SN 671,972. Pub. 4-26-55. Filed 8-20-54.  
 609,089. SCR LINEHOLDER. Structural Clay Products Research Foundation. SN 672,320. Pub. 4-26-55. Filed 8-26-54.

## CLASS 27

- 609,090. EYE OPENER. Saxony Watch Co. SN 662,816. Pub. 4-26-55. Filed 3-17-54.

## CLASS 28

- 609,091. TIE TACKS. Hickok Manufacturing Co. Inc. SN 648,995. Pub. 4-26-55. Filed 6-18-53.  
 609,092. REPRESENTATION OF A GIRL. Perc Oreck. SN 650,830. Pub. 4-26-55. Filed 7-24-53.  
 609,093. LEDO. Leading Jewelry Manufacturing Company. SN 655,913. Pub. 4-26-55. Filed 11-5-53.  
 609,094. RIST-LETTE BY LEDO. Leading Jewelry Manufacturing Company. SN 655,914. Pub. 4-26-55. Filed 11-5-53.

## CLASS 29

- 609,095. BETTER BRUSHES AND DESIGN. Better Brushes, Incorporated. SN 639,409. Pub. 4-26-55. Filed 12-13-52.  
 609,096. VELVET TUFT. Sears, Roebuck and Co. SN 660,822. Pub. 4-19-55. Filed 2-9-54.  
 609,097. COTTON QUEEN. Carolina Mop Manufacturing Co. SN 666,723. Pub. 4-19-55. Filed 5-20-54.  
 609,098. BULLDOZER. American Products Company, to Arco American, Inc. SN 671,622. Pub. 4-19-55. Filed 8-13-54.

## CLASS 32

- 609,099. NYLO-GLIDE. Record Files, Inc. SN 670,309. Pub. 4-19-55. Filed 7-20-54.  
 609,100. FLOATIES. Ric-Tur Plastics Co. SN 670,856. Pub. 4-26-55. Filed 7-30-54.

- 609,101. ABOVE ALL STAR STEEL AND DESIGN. Star Steel Equipment Company, Inc. SN 672,187. Pub. 4-19-55. Filed 8-24-54.  
 609,102. BERKELEY. Berkeley Industries. SN 672,485. Pub. 4-19-55. Filed 8-31-54.  
 609,103. GENERALAIRE. The General Fireproofing Company. SN 672,813. Pub. 4-19-55. Filed 9-7-54.  
 609,104. STORKLINE. Storkline Furniture Corporation. SN 672,846. Pub. 4-19-55. Filed 9-7-54.  
 609,105. DESIGN OF STORK. Storkline Furniture Corporation. SN 672,847. Pub. 4-19-55. Filed 9-7-54.  
 609,106. "TOTE-BAR." Edward A. Hecht, d. b. a. Hecht-Turner Manufacturers. SN 672,955. Pub. 4-19-55. Filed 9-9-54.  
 609,107. ECON-O-FLEX. Reflector-Hardware Corporation. SN 673,129. Pub. 4-19-55. Filed 9-13-54.  
 609,108. VERSA-FLEX. Reflector-Hardware Corporation. SN 673,132. Pub. 4-19-55. Filed 9-13-54.  
 609,109. DUAL COMFORT. Simmons Company. SN 673,138. Pub. 4-19-55. Filed 9-13-54.

## CLASS 33

- 609,110. PEACH LUSTRE. Anchor Hocking Glass Corporation. SN 656,036. Pub. 4-26-55. Filed 11-9-53.

## CLASS 34

- 609,111. OSCILLAIR AND DESIGN. Kron-Kirk Manufacturing Co. SN 671,041. Pub. 4-12-55. Filed 8-3-54.  
 609,112. INFINITROL. Borg-Warner Corporation. SN 672,043. Pub. 4-5-55. Filed 8-23-54.

## CLASS 36

- 609,113. NORGRAN. Jazz at the Philharmonic, Inc., to Norgran Sales Corporation. SN 669,556. Pub. 4-5-55. Filed 7-7-54.

## CLASS 38

- 609,114. VOICE OF THE ROCKY MOUNTAIN EMPIRE. The Post Printing and Publishing Company, to The Denver Post, Inc. SN 646,425. Pub. 4-26-55. Filed 5-4-53.  
 609,115. ATLANTIC CITY PRESS. Press Union Publishing Company, now by change of name Press Publishing Company. SN 652,369. Pub. 4-26-55. Filed 8-18-53.  
 609,116. THREE MONKEYS DESIGN. Johnson & Johnson. SN 654,663. Pub. 4-19-55. Filed 10-13-53.  
 609,117. THE HOUSE OUT BACK. H. S. Crocker Company, Inc. SN 656,385. Pub. 4-26-55. Filed 11-16-53.  
 609,118. THE BUDGIE BEACON AND DESIGN. Carol Ann Centofanti. SN 657,109. Pub. 4-19-55. Filed 11-30-53.  
 609,119. THE FLORIDIAN. The Times Publishing Company. SN 670,629. Pub. 4-12-55. Filed 7-26-54.  
 609,120. PARAMOUNT. Paramount Paper Products Company. SN 671,773. Pub. 4-19-55. Filed 8-16-54.  
 609,121. HVS THERACORD SERIES. Musicians Emergency Fund, Inc. SN 673,930. Pub. 4-26-55. Filed 9-28-54.  
 609,122. SCHOOL HOUSE NOTES. Stanley Home Products, Inc. SN 674,016. Pub. 4-19-55. Filed 9-29-54.  
 609,123. SIGNET KEY BOOKS K AND DESIGN (REPRESENTATION OF A KEY). The New American Library of World Literature, Inc. SN 675,497. Pub. 4-19-55. Filed 10-26-54.  
 609,124. ONE. American Lutheran Church. SN 675,615. Pub. 4-19-55. Filed 10-28-54.  
 609,125. AT THE OFFICE. New York Herald Tribune Inc. SN 675,713. Pub. 4-19-55. Filed 10-29-54.  
 609,126. THE FLIBBERTYS. Chicago Tribune-New York News Syndicate, Inc. SN 675,764. Pub. 4-26-55. Filed 11-1-54.  
 609,127. CAPITOL STUFF. News Syndicate Co. Inc. SN 675,817. Pub. 4-26-55. Filed 11-1-54.  
 609,128. DREAM STREET. News Syndicate Co. Inc. SN 675,818. Pub. 4-26-55. Filed 11-1-54.  
 609,129. D. C. WASH. News Syndicate Co. Inc. SN 675,819. Pub. 4-26-55. Filed 11-1-54.

- 609,130. CAMERA COLLEGE. News Syndicate Co. Inc. SN 675,820. Pub. 4-26-55. Filed 11-1-54.  
 609,131. THE POWERHOUSE. News Syndicate Co. Inc. SN 675,821. Pub. 4-26-55. Filed 11-1-54.  
 609,132. BEHIND THE CAMERA. Tribune Company. SN 675,851. Pub. 4-26-55. Filed 11-1-54.  
 609,133. PLATTER CHATTER. Tribune Company. SN 675,852. Pub. 4-26-55. Filed 11-1-54.  
 609,134. THEY WERE THERE. Tribune Company. SN 675,853. Pub. 4-26-55. Filed 11-1-54.  
 609,135. TOPS AMONG TEENS. Tribune Company. SN 675,854. Pub. 4-19-55. Filed 11-1-55.  
 609,136. WHAT'S YOUR QUESTION? Tribune Company. SN 675,855. Pub. 4-26-55. Filed 11-1-54.  
 609,137. YOU AND YOUR CHILD. Tribune Company. SN 675,856. Pub. 4-26-55. Filed 11-1-54.

## CLASS 39

- 609,138. LADY BETTY. Marcus & Wiesen, Inc. SN 649,799. Pub. 4-26-55. Filed 7-3-53.  
 609,139. CORSELASTIC. Abel-Textilwerke G. m. b. H. SN 650,612. Pub. 4-5-55. Filed 7-22-53.  
 609,140. TROPICRISP. Glenhaven Ltd. SN 651,332. Pub. 4-26-55. Filed 8-4-53.  
 609,141. FAIRETTE. Corette, Inc. SN 653,212. Pub. 4-26-55. Filed 9-15-53.  
 609,142. MIRACON. The Joseph & Feiss Company. SN 654,664. Pub. 4-19-55. Filed 10-13-53.  
 609,143. CHAMOLET. Weinberg Corporation. SN 655,500. Pub. 4-12-55. Filed 10-28-53.  
 609,144. D'PUCCINI AND DESIGN. Jack Robbins Clothing Co., Inc. SN 659,812. Pub. 4-12-55. Filed 1-20-54.  
 609,145. EN-DEARING. Super-Form Brassiere Inc. SN 660,676. Pub. 4-19-55. Filed 2-5-54.  
 609,146. NU-VU. Hollywood-Maxwell Co. SN 662,867. Pub. 4-19-55. Filed 3-18-54.  
 609,147. DICKIES AND DESIGN. Williamson-Dickie Manufacturing Company. SN 664,114. Pub. 4-12-55. Filed 4-7-54.  
 609,148. WEARANTEED. Truval Manufacturers, Inc. SN 665,075. Pub. 4-12-55. Filed 4-22-54.  
 609,149. COMFY AND DESIGN. Seattle Quilt Manufacturing Co., Inc. SN 665,237. Pub. 4-19-55. Filed 4-26-54.  
 609,150. BEROLINA. Opal Strumpfwerke G. m. b. H. SN 665,734. Pub. 4-12-55. Filed 5-4-54.  
 609,151. LUSTRA POINT. Patricia Scott Inc., also d. b. a. Scott Enterprises. SN 668,785. Pub. 4-19-55. Filed 6-23-54.  
 609,152. SKINNER-SAFE. William Skinner & Sons. SN 668,935. Pub. 4-19-55. Filed 6-25-54.  
 609,153. MACSHORE CLASSICS. Kessler & Burg, Inc. SN 669,773. Pub. 4-19-55. Filed 7-12-54.  
 609,154. TRU-VAL COLBY. Truval Manufacturers, Inc. SN 670,865. Pub. 4-12-55. Filed 7-30-54.  
 609,155. TRU-VAL DERRY. Truval Manufacturers, Inc. SN 670,866. Pub. 4-12-55. Filed 7-30-54.  
 609,156. TRU-VAL GREGG. Truval Manufacturers, Inc. SN 670,867. Pub. 4-12-55. Filed 7-30-54.  
 609,157. TRU-VAL KEITH. Truval Manufacturers, Inc. SN 670,868. Pub. 4-12-55. Filed 7-30-54.  
 609,158. TRIAD. Wings Boyswear Inc. SN 671,284. Pub. 4-19-55. Filed 8-6-54.  
 609,159. BEVERA. Clyde Fashions, Ltd. SN 671,534. Pub. 4-19-55. Filed 8-12-54.  
 609,160. PERMALINED. Joseph W. Henschel, d. b. a. Henschel Manufacturing Company. SN 671,738. Pub. 4-19-55. Filed 8-16-54.  
 609,161. DRIB-AWAY. Anne Koket. SN 672,231. Pub. 4-12-55. Filed 8-25-54.  
 609,162. SIGNET. Signet Club Plan. SN 672,266. Pub. 4-26-55. Filed 8-25-54.  
 609,163. BRETHA-STRAP. Sally Ann Siegel, d. b. a. Sally Ann Youngline Salon. SN 672,842. Pub. 4-19-55. Filed 9-7-54.



- 609,164. CREW CUT. Haspel Brothers, Inc. SN 672,894. Pub. 4-12-55. Filed 9-8-54.
- 609,165. KEYS. J. J. Newberry Co. SN 672,907. Pub. 4-12-55. Filed 9-8-54.
- 609,166. SUPERWEVE. B. Altman & Co. SN 672,919. Pub. 4-12-55. Filed 9-9-54.
- 609,167. MODERN MANNER. Modern Manner, Inc. SN 673,115. Pub. 4-19-55. Filed 9-13-54.
- 609,168. KAY JUNIORS. Kay Juniors, Incorporated. SN 673,181. Pub. 4-26-55. Filed 9-14-54.
- 609,169. GARLAND PETITE. Garland Knitting Mills, Inc. SN 673,229. Pub. 4-12-55. Filed 9-15-54.
- 609,170. RANCH-MAID AND DESIGN. Hibb Manufacturing Co., Inc. SN 673,662. Pub. 4-19-55. Filed 9-23-54.
- 609,171. LIVELY LAD. Washington Manufacturing Company, Incorporated. SN 673,710. Pub. 4-19-55. Filed 9-15-54.
- 609,172. DUETS LITTLE CRAFT DUETS, ETC. AND DESIGN. Little Craft Inc. SN 673,841. Pub. 4-19-55. Filed 9-27-54.
- 609,173. SUPRALON. Old Colony Knitting Mills, Inc. SN 674,417. Pub. 4-12-55. Filed 10-6-54.
- 609,174. STROLL-EEZE. Super-Form Brassiere Inc. SN 674,480. Pub. 4-12-55. Filed 10-7-54.
- 609,175. NEAT-EES. Neat-Ees Products, Inc. SN 674,525. Pub. 4-12-55. Filed 10-8-54.
- 609,176. PINT-SIZE. The Strouse, Adler Company. SN 674,633. Pub. 4-12-55. Filed 10-11-54.
- 609,177. RIVERTON. Saks & Company. SN 674,698. Pub. 4-19-55. Filed 10-12-54.
- 609,178. SAKSCHESTER. Saks & Company. SN 674,699. Pub. 4-19-55. Filed 10-12-54.
- 609,179. SAKSLAN. Saks & Company. SN 674,700. Pub. 4-19-55. Filed 10-12-54.
- 609,180. NEAR-N DEAR. Peter Pan Foundations, Inc. SN 674,840. Pub. 4-19-55. Filed 10-14-54.
- 609,181. LITTLE MISS MORT. Mortimer D. Goldman. SN 675,078. Pub. 4-19-55. Filed 10-19-54.
- 609,182. LITTLE MR. MORT. Mortimer D. Goldman. SN 675,079. Pub. 4-19-55. Filed 10-19-54.
- 609,183. BEAU-SET. Boepple Sportswear Mills, Inc. SN 675,359. Pub. 4-26-55. Filed 10-25-54.
- 609,184. LANOLENE. Lanolized, Incorporated. SN 675,405. Pub. 4-26-55. Filed 10-25-54.
- 609,185. TALL TEENZ. Tall Togs, Inc. SN 675,668. Pub. 4-26-55. Filed 10-28-54.
- 609,186. TALL TOGS. Tall Togs, Inc. SN 675,669. Pub. 4-26-55. Filed 10-28-54.
- 609,187. "SUPERMARK." M. K. M. Hosiery Mills, Inc. SN 675,707. Pub. 4-26-55. Filed 10-29-54.
- 609,188. "IT'S A FAMILY AFFAIR" AND DESIGN (FAMILY GROUP). Normandin Bros. Co. SN 675,714. Pub. 4-26-55. Filed 10-29-54.
- 609,189. REPRESENTATION OF A PARROT. William Prym. SN 652,792. Pub. 4-12-55. Filed 9-4-53.
- 609,190. LOKWEB. Bigelow-Sanford Carpet Company, Inc. SN 667,290. Pub. 4-19-55. Filed 5-28-54.
- 609,191. LUXOUT. Cavour L. Truesdale, d. b. a. Plastic Products Company. SN 648,211. Pub. 4-26-55. Filed 6-3-53.
- 609,192. LETH-R-FLEX. Moore Fabrics, to Moore Fabrics, Inc. SN 660,499. Pub. 4-26-55. Filed 2-2-54.
- 609,193. OXFORDEN AND DESIGN. Myron M. Fuerstman. SN 669,322. Pub. 4-26-55. Filed 7-2-54.
- 609,194. MIRACLE TOP. Para Manufacturing Co., Inc. SN 670,849. Pub. 4-26-55. Filed 7-30-54.
- 609,195. TERGAL. Societe Rhodiaceta. SN 671,681. Pub. 4-26-55. Filed 8-13-54.
- 609,196. DYLAN. Stevensons Dyers, Limited. SN 672,845. Pub. 4-12-55. Filed 9-7-54.
- 609,197. MARTHA WHITE'S FANCI-FAB. Martha White Mills, Inc. SN 673,072. Pub. 4-19-55. Filed 9-10-54.
- 609,198. BOUNCE KNOT AND DESIGN. Oregon Worsted Company. SN 673,119. Pub. 4-19-55. Filed 9-13-54.
- 609,199. KYBEK. Chicopee Manufacturing Corporation. SN 681,661. Pub. 4-26-55. Filed 2-23-55.
- 609,200. KEYBAK. Chicopee Manufacturing Corporation. SN 681,663. Pub. 4-26-55. Filed 2-23-55.

## CLASS 43

- 609,201. TERGAL. Societe Rhodiaceta. SN 671,680. Pub. 4-26-55. Filed 8-13-54.
- 609,202. ARNEL. Celanese Corporation of America. SN 672,564. Pub. 2-8-55. Filed 9-1-54.

## CLASS 44

- 609,203. SUPERTEX. Opelika Manufacturing Corporation. SN 629,507. Pub. 4-26-55. Filed 5-10-52.
- 609,204. "BABY'S OWN." Propper Manufacturing Company, Inc. SN 656,840. Pub. 4-26-55. Filed 11-23-53.
- 609,205. THE MYO-PLASTEX AND DESIGN (HUMAN MALE FIGURE). Doreen Wensley Regent, d. b. a. Myo-Plastex Appliance Company. SN 666,387. Pub. 4-26-55. Filed 5-14-54.

## CLASS 45

- 609,206. ALLAN'S AND FIGURE OF BOY. Herman Willman, d. b. a. Poppers Supply Co. SN 639,911. Pub. 4-26-55. Filed 12-22-52.
- 609,207. DIETONIC. White Rock Bottlers Company. SN 650,958. Pub. 4-26-55. Filed 7-27-53.
- 609,208. MATTONI WATER. Centrokornise, Podnik Zahranicniho Obchodu pro Dovozy a Vvoz Potravin. SN 669,239. Pub. 4-12-55. Filed 7-1-54.
- 609,209. C & C AND DESIGN. Cantrell & Cochrane Corporation. SN 669,740. Pub. 4-26-55. Filed 7-12-54.
- 609,210. S AND REPRESENTATION OF A DROP OF WATER. Sparkletts Drinking Water Corporation. SN 671,389. Pub. 4-12-55. Filed 8-9-54.

## CLASS 46

- 609,211. MANDLEN AND DESIGN. M. Manischewitz & Co. Inc. SN 605,167. Pub. 4-26-55. Filed 10-19-50.
- 609,212. 21. Twinkle Products Co. SN 626,124. Pub. 4-19-55. Filed 3-7-52.
- 609,213. RIMROCK MARLEY'S. Marley Orchards, Inc. SN 641,560. Pub. 4-26-55. Filed 1-30-53.
- 609,214. BON AND DESIGN. Bonoli Packing Corporation. SN 641,905. Pub. 4-26-55. Filed 2-9-53.
- 609,215. FARM FRESH. A. Arena & Co., Ltd. SN 652,591. Pub. 4-26-55. Filed 9-1-53.
- 609,216. HIGH LIFE. Jewett & Sherman Co., d. b. a. Holsum Products. SN 653,049. Pub. 4-26-55. Filed 9-9-53.
- 609,217. SUNNYSIDE FARMS. Penn Maid Dairy Products, also d. b. a. Sunnyside Farms. SN 656,105. Pub. 4-26-55. Filed 11-9-53.
- 609,218. SPISORAMA. Dodge & Olcott, Inc. SN 659,044. Pub. 4-12-55. Filed 1-6-54.
- 609,219. CREAM WIPT. Cream Wipt Food Products Co. SN 659,392. Pub. 4-26-55. Filed 1-13-54.
- 609,220. WILLCREST. Will Poultry Co. SN 659,906. Pub. 4-26-55. Filed 1-21-54.
- 609,221. MONTFORT. Otto Roth Co., Inc., to Benjamin O. Villa, d. b. a. Goodland Dairy Co. SN 660,819. Pub. 4-12-55. Filed 2-9-54.
- 609,222. REPRESENTATION OF MEXICAN GIRL'S HEAD. Walker's Austex Chilli Company. SN 662,698. Pub. 4-26-55. Filed 3-15-54.
- 609,223. JENNIE LEE. Walter Williams Candy Co., Inc. SN 662,701. Pub. 4-26-55. Filed 3-15-54.
- 609,224. PA-PY-IT. Pa-Pa-Ya Products, Inc. SN 663,824. Pub. 4-12-55. Filed 4-2-54.
- 609,225. QUICKIES. New England Grain Products Co. SN 665,366. Pub. 4-26-55. Filed 4-28-54.

- 609,226. DATE CRYSTALS. Ernest F. Shields, d. b. a. Shields Date Gardens. SN 665,527. Pub. 4-26-55. Filed 4-30-54.
- 609,227. COFFEE BIRD. J. A. Folger & Company. SN 666,010. Pub. 4-26-55. Filed 5-10-54.
- 609,228. MRS. WEISS'. Weiss Noodle Company. SN 669,380. Pub. 4-12-55. Filed 7-2-54.
- 609,229. MONEY MAKER AND DESIGN. Don C. Weaver, d. b. a. Don C. Weaver Co. SN 669,841. Pub. 4-12-55. Filed 7-12-54.
- 609,230. MONEY MAKER AND DESIGN. Don C. Weaver, d. b. a. Don C. Weaver Co. SN 669,842. Pub. 4-12-55. Filed 7-12-54.
- 609,231. SPINNER AND REPRESENTATION OF WOMAN. Don C. Weaver, d. b. a. Don C. Weaver Co. SN 669,843. Pub. 4-12-55. Filed 7-12-54.
- 609,232. OLE RELIABLE. P. E. Harris Company, Inc. SN 671,338. Pub. 4-12-55. Filed 8-9-54.
- 609,233. 'MORNIN JUDGE' AND CHICKEN DESIGN. Donna Citrus Association. SN 671,559. Pub. 4-12-55. Filed 8-12-54.
- 609,234. GOODLEIGH. Fred W. Amend Co. SN 671,801. Pub. 4-12-55. Filed 8-17-54.
- 609,235. LONG CHEW. Clark Brothers Chewing Gum Company. SN 671,806. Pub. 4-12-55. Filed 8-17-54.
- 609,236. CLARK'S LONG CHEW AND DESIGN. Clark Brothers Chewing Gum Company. SN 671,812. Pub. 4-26-55. Filed 8-17-54.
- 609,237. REPRESENTATION OF A CALF HOLDING A BASKET OF MILK BOTTLES. Alderney Dairy Company. SN 672,267. Pub. 4-26-55. Filed 8-28-54.
- 609,238. HM "A GEM" AND DESIGN. H. M. Young. SN 672,713. Pub. 4-26-55. Filed 9-2-54.
- 609,239. BUCKBOARD. Ever-Fresh Lettuce Distributors, Inc., to J. A. Wood, d. b. a. J. A. Wood Company and Ever-Fresh Lettuce Distributors. SN 672,729. Pub. 4-26-55. Filed 9-3-54.
- 609,240. SPICEES. Good Foods, Inc. SN 672,732. Pub. 4-26-55. Filed 9-3-54.
- 609,241. "PIGNIPS." Evergreen Mills, Inc. SN 672,811. Pub. 4-26-55. Filed 9-7-54.
- 609,242. WHISTLE. Marnat Packing Company. SN 672,830. Pub. 4-26-55. Filed 9-7-54.
- 609,243. LAYERATION. Pillsbury Mills, Inc. SN 672,838. Pub. 4-26-55. Filed 9-7-54.
- 609,244. GROWERATION. Pillsbury Mills, Inc. SN 672,839. Pub. 4-26-55. Filed 9-7-54.
- 609,245. VINEYARD MAID. Vineyard Island Products, Inc. SN 672,988. Pub. 4-26-55. Filed 9-9-54.
- 609,246. KANDY. A. Arena & Co., Ltd. SN 672,998. Pub. 4-26-55. Filed 9-10-54.
- 609,247. VERIGOOD. Christensen Bros. SN 673,008. Pub. 4-26-55. Filed 9-10-54.
- 609,248. TRI-SIGN. Tri-Counties Packing Corporation. SN 673,066. Pub. 4-26-55. Filed 9-10-54.
- 609,249. FC AND DESIGN (REPRESENTATION OF CHEF). Eshelman Grain, Incorporated. SN 673,089. Pub. 4-26-55. Filed 9-13-54.
- 609,250. BLOSSOM ACRES. California Almond Orchards, Inc. SN 673,164. Pub. 4-26-55. Filed 9-14-54.
- 609,251. PATRIOT AND DESIGN. Woodward & Lothrop. SN 674,117. Pub. 4-19-55. Filed 9-30-54.
- 609,252. JTB (MONOGRAM). Jack T. Baillie, d. b. a. Jack T. Baillie Co. SN 674,128. Pub. 4-26-55. Filed 10-1-54.
- 609,253. GLACIER CLUB. The Borden Company. SN 674,315. Pub. 4-26-55. Filed 10-5-54.
- 609,254. PENN MAID DAIRY PRODUCTS AND DESIGN. Penn Maid Dairy Products. SN 677,441. Pub. 4-12-55. Filed 11-29-54.
- 609,255. MONUMENT. Julian & Trower Limited. SN 647,191. Pub. 4-26-55. Filed 5-18-53.
- 609,256. LA VIE EN ROSE. A. & R. Barriere Freres, S. A. R. L. SN 651,561. Pub. 4-26-55. Filed 8-10-53.
- 609,257. TRINQUEROSE. A. & R. Barriere Freres, S. A. R. L. SN 651,562. Pub. 4-26-55. Filed 8-10-53.

## CLASS 48

- 609,258. READIFLAKES. J. R. Short Milling Company, d. b. a. Mt. Vernon Milling Company. SN 672,018. Pub. 4-26-55. Filed 8-20-54.

## CLASS 49

- 609,259. MONUMENT. Julian & Trower Limited. SN 647,193. Pub. 4-26-55. Filed 5-18-53.
- 609,260. SGA VERY FINE, ETC. AND DESIGN. Irving Berlin and Company, d. b. a. S. G. A. Distilling Company. SN 665,883. Pub. 4-19-55. Filed 5-7-54.
- 609,261. OXFORD CLUB. Schenley Import Corporation. SN 669,920. Pub. 4-26-55. Filed 7-13-54.

## CLASS 51

- 609,262. SOUVENIR. Renee Lacoste (now Renee Lacoste Reaume by marriage). SN 616,856. Pub. 4-26-55. Filed 7-24-51.
- 609,263. PINK DOMINO. Pink Domino Co. SN 648,791. Pub. 4-19-55. Filed 6-15-53.
- 609,264. MOISTREAT. Harry G. Daumit. SN 651,160. Pub. 4-26-55. Filed 7-31-53.
- 609,265. BOLD VENTURE. Clare R. Milloy, d. b. a. Clare Rumball. SN 652,875. Pub. 4-19-55. Filed 9-8-53.
- 609,266. PINK-N-BLUE WITHIN DESIGN. Duke and Benedict. SN 661,938. Pub. 4-26-55. Filed 3-3-54.
- 609,267. RICOCHET. Parfums Ciro, Inc. SN 662,332. Pub. 4-19-55. Filed 3-9-54.
- 609,268. CREME PAFF. Max Factor & Co. SN 662,357. Pub. 4-19-55. Filed 3-10-54.
- 609,269. OTHINE. The Othine Corporation. SN 664,089. Pub. 4-12-55. Filed 4-7-54.
- 609,270. JEWELGLO. Pronto-Seal, Inc. SN 664,792. Pub. 4-26-55. Filed 4-19-54.
- 609,271. SMART FINISH. The J. R. Watkins Company. SN 664,818. Pub. 4-26-55. Filed 4-19-54.
- 609,272. SUBVEIL. Puritan Cosmetics Company, d. b. a. Helen Ayars Cosmetics. SN 665,376. Pub. 4-19-55. Filed 4-28-54.
- 609,273. BARRIER. Colgate-Palmolive Company. SN 668,081. Pub. 4-19-55. Filed 6-11-54.
- 609,274. MARINELLO. Sales Affiliates, Inc. SN 668,200. Pub. 4-19-55. Filed 6-14-54.
- 609,275. BEAUTY-TINT. Industrial Research Engineering. SN 668,252. Pub. 4-19-55. Filed 6-15-54.
- 609,276. LANO-SET. Oglivie Sisters Laboratories, Inc. SN 669,135. Pub. 4-26-55. Filed 6-29-54.
- 609,277. PRISCILLA DOWNS. Priscilla Downs, Inc. SN 669,141. Pub. 4-26-55. Filed 6-29-54.
- 609,278. SKY CHARM AND DESIGN. Skycharm Cosmetic Co. SN 670,622. Pub. 4-26-55. Filed 7-26-54.
- 609,279. MINIT DRI AND DESIGN (REPRESENTATION OF A HUMAN FINGERNAIL). Mil-Hi Laboratories, Inc., d. b. a. Minit Dri. SN 671,105. Pub. 4-26-55. Filed 8-4-54.
- 609,280. IN THE MOOD. The J. R. Watkins Company. SN 671,127. Pub. 4-19-55. Filed 8-4-54.
- 609,281. PICTURE BOOK TOILETRIES. Fay Wood Corporation. SN 671,148. Pub. 4-26-55. Filed 8-5-54.
- 609,282. CHARLES ANTELL AND DESIGN. Charles Antell, Inc. SN 671,407. Pub. 4-26-55. Filed 8-10-54.
- 609,283. 9 x 9. Paquin Limited, d. b. a. Paquin. SN 671,861. Pub. 4-26-55. Filed 8-17-54.
- 609,284. GUYS AND DOLLS. Richard Hudnut. SN 672,578. Pub. 4-26-55. Filed 9-1-54.

## CLASS 52

- 609,285. PAX HYSPEED. G. H. Packwood Manufacturing Co. SN 645,066. Pub. 4-19-55. Filed 4-10-53.
- 609,286. ATMOSCLEER. Haas Miller Corporation. SN 666,844. Pub. 4-26-55. Filed 5-21-54.
- 609,287. EC-51. The Pennsylvania Salt Manufacturing Company. SN 669,283. Pub. 4-19-55. Filed 7-1-54.



- 609,288. RG 10 AND DESIGN. Roger & Gallet. SN 671,527. Pub. 4-19-55. Filed 8-11-54.  
 609,289. FASEL. Dash Company. SN 672,644. Pub. 4-19-55. Filed 9-2-54.  
 609,290. CYANATEX. American Cyanamid Company. SN 673,257. Pub. 4-26-55. Filed 9-16-54.

## Service Marks

## CLASS 100

- 609,291. YOUTH FOR CHRIST. Youth for Christ International, Inc. SN 644,483. Pub. 4-26-55. Filed 3-30-53.  
 609,292. MOON AND STARS DESIGN. The Procter & Gamble Company. SN 646,683. Pub. 4-26-55. Filed 5-8-53.  
 609,293. GREEK LETTERS AND DIAMOND-SHAPED DESIGN. Chi Sigma Sorority, Inc. SN 647,475. COLLECTIVE MARK. Pub. 4-26-55. Filed 5-22-53.  
 609,294. PHI KAPPA SIGMA. Phi Kappa Sigma Fraternity. SN 654,689. COLLECTIVE MARK. Pub. 4-26-55. Filed 10-13-53.  
 609,295. SGA ETC. AND DESIGN. Norman Anderson, d. b. a. Sacred Gardens Association. SN 662,181. Pub. 4-26-55. Filed 3-8-54.

- 609,296. C & I AND DESIGN. The Chemical and Industrial Corp. SN 662,713. Pub. 4-26-55. Filed 3-16-54.  
 609,297. IASA. Insurance Accounting and Statistical Association. SN 671,348. Pub. 4-26-55. Filed 8-9-54.

## CLASS 101

- 609,298. DUO PLAN AND DESIGN. Leonard M. Lilly, d. b. a. Duo-Plan Company. SN 590,817. Pub. 4-26-55. Filed 1-13-50.  
 609,299. ADEAS (FANCIFUL). Ken Reynolds. SN 670,506. Pub. 4-26-55. Filed 7-23-54.

## CLASS 103

- 609,300. INDUSTRIAL SAFETY THRU CLEANLINESS. National Industrial Laundries. SN 642,486. Pub. 4-26-55. Filed 2-19-53.

## CLASS 106

- 609,301. CPR, ETC. AND DESIGN. Harry B. Schwartz, Inc., d. b. a. Co-Operative Dental Laboratories. SN 660,752. Pub. 4-26-55. Filed 2-8-54.

## CLASS 107

- 609,302. LABANOTATION. Dance Notation Bureau, Inc. SN 646,995. Pub. 4-26-55. Filed 5-14-53.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 12

- 609,303. National Gypsum Company, Buffalo, N. Y. SN 638,431. Filed P. R. 11-21-52. Am. S. R. 8-11-54.

## FIRE SHIELD

For Gypsum Wallboard Having a One Hour Fire-Resistive Rating.  
 Use since July 3, 1952.

- 609,304. National Gypsum Company, Buffalo, N. Y. SN 638,432. Filed P. R. 11-21-52. Am. S. R. 4-25-55.

## Morocco-Mat

For Hardboard Having a Spanish Leather Design.  
 Use since July 20, 1948.

- 609,305. American Bldrok Company, Chicago, Ill. SN 640,030. Filed P. R. 12-26-52. Am. S. R. 11-20-53.

Cellular Glass  
FILL

The letters "Cellular Glass Fill" are in blue and a thin red line borders those letters.  
 For Bulk, Loose, Fill-Type Granular Insulation Material.  
 Use since Nov. 20, 1952.

- 609,306. Lexington Lumber Company, Chadds Ford, Pa. SN 654,740. Filed 10-14-53.

## Lexington

For Lumber and Insulation.  
 Use since Feb. 1, 1947.



No claim is made of the representation of the goods or the notation "E-Z-Kleen" apart from the mark as shown.  
 For Complete Wood Window Units.  
 Use since on or about Apr. 13, 1954.

## CLASS 14

- 609,308. Titan Metal Manufacturing Company, Bellefonte, Pa. SN 651,787. Filed 8-13-53.

## Quality Alloys by Brass Specialists

For Brass and Bronze Rod, Forgings, Die Castings, Welding Rods, Wire.  
 Use since August 1934.

## CLASS 15

- 609,309. A. Ajello & Bros., Mamaroneck, N. Y. SN 632,408. Filed P. R. 7-11-52. Am. S. R. 2-23-54.

## CHLORO-PINE

For Candies.  
 Use since Apr. 15, 1952.

## CLASS 18

- 609,310. Nepera Chemical Co., Inc., Yonkers, N. Y. SN 660,057. Filed 1-25-54.

## H A F G R A M S

For Pharmaceutical Dosage for Use in Urinary Tract Germ Infections and as an Antiseptic.  
 Use since Jan. 18, 1954.

## CLASS 23

- 609,311. Physicians and Hospitals Supply Company, Inc., d. b. a. Ulmer Pharmacal Company, Minneapolis, Minn. SN 665,943. Filed P. R. 5-7-54. Am. S. R. 5-16-55.

- 609,315. Neapco Products Inc., Pottstown, Pa. SN 591,338. Filed P. R. 1-20-50. Am. S. R. 4-12-55.



For Pharmaceuticals—Namely, a Body Rub Lotion, an Injectable Dipyrone Solution for Treatment of Pain and an Injectable Ethavrine Solution for Treatment of Muscle Spasm.

Use since Apr. 7, 1954.

## CLASS 19

- 609,312. Murray H. Nekris, New York, N. Y. SN 664,247. Filed P. R. 4-9-54. Am. S. R. 12-10-54.

## CHROMETAL

For Automobile Accessories—Namely, Chrome Wire Wheel Covers, and Chrome Wheel Rims.  
 Use since April 1953.

- 609,313. The Buckeye Steel Castings Company, Columbus, Ohio. SN 685,248. Filed 4-11-55.

## CUSHION-RIDE

For Railway Car Trucks and the Component Parts of Such Trucks.  
 Use since in June 1953.

## CLASS 22

- 609,314. Karin Brift Ranhoff, Smestad, near Oslo, Norway. SN 656,456. Filed P. R. 11-16-53. Am. S. R. 12-13-54.

ORIGINAL  
Free-arms-A

The Norwegian word "uten" means "without" and the Norwegian word "med" means "with."  
 For Sleeping Bags Used as Sporting Equipment.



The mark comprises a unitary design including three rectangular panels intersecting at a common corner to form top, side and end panels, all of said panels being orange, the end panel being bounded on three edges by black marginal areas, the side panel being bounded at two opposed edges by black marginal areas, a plurality of parallel black lines extending across the top and side panels, and a black rectangular area disposed on each of the panels and bearing the mark NEAPCO.

For Universal Joints and Parts Thereof, and Joints and Component Parts Used for Repair and Replacement of Universal Joints for Automotive and Other Applications.  
 Use since during March 1948.

- 609,316. C-O-Two Fire Equipment Company, Newark, N. J. SN 602,247. Filed P. R. 8-16-50. Am. S. R. 7-21-53.



For Fire Extinguishers.  
 Use since June 1, 1949.

- 609,317. Lifetime Cutlery Corp., Brooklyn, N. Y. SN 660,336. Filed 1-29-54.



The words "Lifetime Cutlery" are disclaimed apart from the mark as shown.

For Kitchen and Table Knives, Forks and Spoons; Ladles; Carving Sets; Table, Carving and Pocket Shears; Tongs; Pie Servers; Meat Choppers, and Cleavers.  
 Use since Nov. 1, 1945.



609,318. Herbert F. Cox, Jr., Syracuse, N. Y. SN 661,784. Filed P. R. 3-1-54. Am. S. R. 11-9-54.

# COX

For Milk Handling Equipment Including Milk Carton Filling Apparatus and Milk Coolers.  
Use since July 11, 1953.

## CLASS 26

609,319. International Register Company, Chicago, Ill. SN 665,703. Filed P. R. 5-4-54. Am. S. R. 5-16-55.

# AUTO-TIMER

For Time Operated Electric Switch for Automobile Engine Heaters.  
Use since Dec. 8, 1953.

## CLASS 28

609,320. Walter S. Shirey, Los Angeles, Calif. SN 651,622. Filed P. R. 8-10-53. Am. S. R. 6-28-54.

# NUGGET GEMS

For Mineralogical Materials Used in the Manufacture of Gems and/or Collector's Items—Namely, Mineral Nodules, Geodes, Various Crystals and Fragments Thereof, Mineral Chips, Jasper, Turquoise, Amethyst, Moonstones, Pebbles and Gravel, Agates, Copper Ore Specimens, Quartz, Turmaline, Jade, Tiger Eye, Petrified Wood, Citrine, Beryl, Topaz, Mineral Blocks and Slabs, Stone Slices Rough and Finished, and Mineralogical Specimens.  
Use since February 1952.

## CLASS 32

609,321. Whitehall Cabinets, Inc., Hewlett, N. Y. SN 642,334. Filed P. R. 2-16-53. Am. S. R. 10-29-53.



The drawing is lined for blue and silver but no claim is made to color.

For Kitchen Cabinets, Stools, Chairs, Tables, and Snack Bars.

Use since Nov. 1, 1945.

609,322. Murphy Door Bed Company, Inc., New York, N. Y. SN 657,165. Filed P. R. 11-30-53. Am. S. R. 4-25-55.



For Combination Sofas and Beds.  
Use since Nov. 2, 1953.

## CLASS 38

609,323. The Industrial Laboratories Publishing Company, Chicago, Ill. SN 654,054. Filed P. R. 10-1-53. Am. S. R. 4-29-55.

*industrial science  
and engineering*

For Magazine Published Periodically.  
Use since Sept. 21, 1953.

## CLASS 39

609,324. Chadbourne Hosiery Mills, Incorporated, Charlotte, N. C. SN 632,290. Filed P. R. 7-9-52. Am. S. R. 4-14-55.

# ULTRA QUALITY

For Ladies' Hosiery.  
Use since June 10, 1952.

609,325. Jack Nachman, d. b. a. The Cobbler Company, Easley, S. C. SN 665,510. Filed P. R. 4-30-54. Am. S. R. 4-18-55.

# COBBLER SHIRT

For Women's and Misses' Aprons.  
Use since Apr. 6, 1953.

609,326. United States Hosiery Corp., New York, N. Y. SN 665,738. Filed P. R. 5-4-54. Am. S. R. 3-28-55.

*J. N. Bogoff*

The mark "J. N. Bogoff" is the name of the president of the applicant corporation, who signed the application papers.  
For Ladies' Hosiery.  
Use since Mar. 15, 1954.

609,327. Glen Modes, Inc., New York, N. Y. SN 667,030. Filed 5-25-54.

# glen.fur

For Ladies' and Misses' Outerwear Made in Substantial Part of a Fabric Simulating Fur—Namely, Jackets, Clutch Capes, Shrugs, Stole Scarfs, and Wraps.  
Use since Mar. 2, 1953.

## CLASS 40

609,328. Benjamin Liebowitz, New York, N. Y. SN 649,949. Filed P. R. 7-7-53. Am. S. R. 11-16-54.

# endsdown

For Anticurling Strips for Use on Collars and Other Types of Apparel.  
Use since June 12, 1953.

## CLASS 42

609,329. George C. Moore Company, Westerly, R. I. SN 658,070. Filed P. R. 12-16-53. Am. S. R. 3-30-55.

# MOREWEAR

For Elastic Fabrics.  
Use since Dec. 7, 1925.

609,330. Fieldcrest Mills, Inc., Spray, N. C. SN 660,862. Filed P. R. 2-10-54. Am. S. R. 3-2-55.

# Nouveau

For Woven Rugs.  
Use since on or about Jan. 1, 1954.

# VIRGINIAN

For Blankets and Blanket Cloth.  
Use since Mar. 31, 1954.

## CLASS 46

609,332. I. C. Parker, Fort Worth, Tex. SN 632,129. Filed P. R. 7-3-52. Am. S. R. 5-20-53.

# Dairy Cone

For Frozen Confection on a Cone.  
Use since May 15, 1952.

609,333. Grenache Inc., St. Damien de Brandon, Quebec, Canada. SN 658,447. Filed P. R. 12-23-53. Am. S. R. 12-17-54.

# GRENACHE

For Confectionery—Namely, Caramel Spread, Maple Sugar Spread, Chocolate Fudge Spread, Toffees, Caramel Candles and Table Syrup.

609,334. Valley City Milling Company, Portland, Mich. SN 659,102. Filed P. R. 1-6-54. Am. S. R. 12-16-54.

*"the flour the best cooks use"*

For Wheat Flour.  
Use since Aug. 16, 1896.

609,335. Cherven's Industries, Inc., Ebenezer, N. Y. SN 674,319. Filed P. R. 10-5-54. Am. S. R. 5-17-55.



The drawing is lined for red.  
For Canned and Frozen Dog and Cat Food.  
Use since Apr. 21, 1954.

609,336. J. William Horsey Corporation, Plant City, Fla. SN 674,464. Filed P. R. 10-7-54. Am. S. R. 5-19-55.

# DORSEY'S

For Canned Citrus Fruits and Canned Citrus Fruit Juices.  
Use since May 12, 1954.



## CLASS 49

609,337. Societe Anonyme de la Benedictine Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp, Fecamp (Seine Inferieure), France. SN 606,055. Filed P. R. 11-7-50. Am. S. R. 7-29-54.



The mark consists of the combination of labels and bottle. No claim is made to the bottle itself apart from the mark as shown.

For Alcoholic Cordials.  
Use since 1863.

609,338. Schenley Distillers, Inc., d. b. a. Many, Blanc & Co., New York, N. Y. SN 662,820. Filed P. R. 3-17-54. Am. S. R. 3-10-55.

# INSTANT

For Alcoholic Cocktail.  
Use since Feb. 17, 1954.

609,339. Commercial Solvents Corporation, New York, N. Y. SN 663,170. Filed 3-24-54.

# ALGRAIN

For Grain Alcohol for Beverage Purposes.  
Use since Nov. 15, 1920.

## CLASS 52

609,340. Clifford W. Butler, d. b. a. Chaparral Chinchilla Ranch, Ogden, Utah. SN 656,881. Filed P. R. 11-24-53. Am. S. R. 10-19-54.

# LUSTER BATH

For Bathing Compound of Fine Dust for Cleaning Chinchillas and Absorbing Excess Fur Oil.  
Use since May 15, 1953.

609,341. The Donhar Co., Inc., Bradford, Pa. SN 659,184. Filed P. R. 1-8-54. Am. S. R. 10-26-54.



For Oil Soap.  
Use since on or about Apr. 24, 1951.

Service Marks  
CLASS 100

609,342. Wood Office Furniture Institute, Washington, D. C. SN 668,613. Filed P. R. 6-21-54. Am. S. R. 5-23-55.



For Advising Retail Office Furniture Dealers and Furnishing Them With Material To Aid Them and Improve Their Standards in Planning, Decorating, and Furnishing Offices for Their Customers.

Use since on or about Mar. 21, 1953.

## CLASS 101

609,343. Market Research Corporation of America, Chicago, Ill. SN 640,798. Filed P. R. 1-15-53. Am. S. R. 4-28-55.

# NATIONAL RETAIL FOOD AUDIT

For Market Research—Namely, Surveying and Analyzing Stocks of Merchandise, Displays, and Advertisements in Retail and Consumer Outlets, and Rendering Periodical Reports to Its Subscribers Showing the Extent of Availability of Brands and Products, the Inventory Level of Brands and Products, and Their Effective Display.  
Use since April 1952.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                                   |                                                                       |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| 102,067. DERMA VIVA AND DESIGN. Cl. 51. 1-26-15.                  | 325,782. SALUTARIS SALUTATIONS LIQUORE GAL-                           |
| 103,053. ELGIN AMERICAN MFG. CO. Cl. 28. 3-16-15.                 | LIANO AND DESIGN. Cl. 49. 7-2-35.                                     |
| 103,857. SUNBEAM. Cl. 19. 4-20-15.                                | 325,871. SANFORD. Cl. 11. 7-9-35.                                     |
| 104,017. NATIONAL. Cl. 21. 4-27-15.                               | 325,949. SCOTTY AND DESIGN. Cl. 4. 7-9-35.                            |
| 104,073. VERACOLATE. Cl. 18. 4-27-15.                             | 325,966. STELLAR. Cl. 29. 7-9-35.                                     |
| 104,098. NATHAN. Cl. 26. 4-27-15.                                 | 326,089. VASCO. Cl. 21. 7-16-35.                                      |
| 104,119. SEAKIST. Cl. 46. 5-4-15.                                 | 326,125. LA PIERRE. Cl. 28. 7-16-35.                                  |
| 104,146. EAGLE BRAND AND DESIGN. Cl. 36. 5-4-15.                  | 326,384. CHARMANTE. Cl. 3. 7-23-35.                                   |
| 104,251. IRON-GARD. Cl. 16. 5-11-15.                              | 326,513. NEW WEST. Cl. 46. 7-23-35.                                   |
| 104,804. MEXIKE. Cl. 42. 6-15-15.                                 | 326,577. PHOS-CAL ETC. Cl. 18. 7-30-35.                               |
| 105,019. DRINKET. Cl. 45. 6-29-15.                                | 326,600. SAN-O-GEN. Cl. 18. 7-30-35.                                  |
| 105,264. GOODRICH. Cl. 35. 7-13-15.                               | 326,915. ROVAN. Cl. 46. 8-13-35.                                      |
| 105,285. TWIN MINT. Cl. 46. 7-13-15.                              | 327,065. ENTRETISSEE. Cl. 39. 8-13-35.                                |
| 105,322. RED BRAND AND DESIGN OF HEART. Cl. 46. 7-20-15.          | 327,136. POS O TIV AND DESIGN. Cl. 18. 8-20-35.                       |
| 105,404. RO-TAP. Cl. 23. 7-20-15.                                 | 327,162. HUMIDUCT. Cl. 34. 8-20-35.                                   |
| 105,859. DAKOTANA. Cl. 46. 8-24-15.                               | 327,234. PLANTERS JUMBO BLOCK AND DESIGN. Cl. 46. 8-20-35.            |
| 105,872. CYANOGRAN. Cl. 6. 8-24-15.                               | 327,375. CORONET AND DESIGN. Cl. 39. 8-27-35.                         |
| 106,112. CORONA. Cl. 23. 10-12-15.                                | 327,555. MINT SPRINGS. Cl. 49. 8-27-35.                               |
| 106,144. CLICQUOT CLUB. Cl. 45. 10-12-15.                         | 327,729. HEALTH-LASTIC. Cl. 39. 9-3-35.                               |
| 106,623. THE SWEETHEART OF THE CORN AND DESIGN. Cl. 46. 10-26-15. | 327,730. FLEUR DE JOUR. Cl. 39. 9-3-35.                               |
| 311,162. "THE STOCKING WITH THE MAGIC STRIP." Cl. 39. 3-13-34.    | 327,777. PHILO ETC. AND DESIGN. Cl. 14. 9-3-35.                       |
| 320,732. MACFERGUS. Cl. 39. 1-8-35.                               | 327,980. PREMIUM. Cl. 11. 9-10-35.                                    |
| 321,305. GLO-SATIN AND DESIGN. Cl. 39. 1-29-35.                   | 328,007. REX AND DESIGN. Cl. 46. 9-10-35.                             |
| 321,397. SUPERAY AND DESIGN. Cl. 39. 1-29-35.                     | 328,069. TRU-TONE. Cl. 46. 9-17-35.                                   |
| 321,858. MAYCO. Cl. 1. 2-19-35.                                   | 328,120. GOLDEN GARDEN. Cl. 46. 9-17-35.                              |
| 322,300. LADY MAY. Cl. 42. 3-5-35.                                | 328,264. MIRAKLE. Cl. 31. 9-24-35.                                    |
| 322,494. URBAN. Cl. 39. 3-12-35.                                  | 328,368. HY-BAR. Cl. 23. 9-24-35.                                     |
| 322,917. SHADO-LOOM. Cl. 39. 3-26-35.                             | 328,380. CURVETTE. Cl. 27. 9-24-35.                                   |
| 323,444. S & B. Cl. 46. 4-16-35.                                  | 328,399. DESIGN LOCK WASHER AND SCREW. Cl. 13. 9-24-35.               |
| 323,472. LONJE RAYONS. Cl. 39. 4-16-35.                           | 328,412. SIR ROBERT BURNETT AND CO. Cl. 49. 9-24-35.                  |
| 323,731. GRASSTEX. Cl. 12. 4-30-35.                               | 328,413. VICKERS' AND DESIGN. Cl. 49. 9-24-35.                        |
| 323,896. ROCKET. Cl. 22. 5-7-35.                                  | 328,543. EVERFIT. Cl. 42. 10-1-35.                                    |
| 324,151. TENNIS CORD. Cl. 42. 5-14-35.                            | 328,619. AMERICAN JEWEL. Cl. 39. 10-1-35.                             |
| 324,229. BALSTRAW. Cl. 39. 5-14-35.                               | 328,652. DESIGN OF STOCKING WITH TOE COLORED ORANGE. Cl. 39. 10-1-35. |
| 324,262. REVILLON. Cl. 39. 5-14-35.                               | 328,688. CHEVY CROSS. Cl. 39. 10-1-35.                                |
| 324,267. SNOOTY. Cl. 39. 5-14-35.                                 | 328,798. JUAITS. Cl. 18. 10-8-35.                                     |
| 324,309. PREMIER CERTIFIED SWEDEN AND DESIGN. Cl. 1. 5-14-35.     | 328,828. MATTINGLY AND MOORE. Cl. 49. 10-8-35.                        |
| 324,416. DESIGN OF A KNIGHT. Cl. 23. 5-21-35.                     | 328,854. FRAPPÉ. Cl. 61. 10-8-35.                                     |
| 324,466. LIX ETC. AND DESIGN. Cl. 6. 5-21-35.                     | 328,860. HARLECO. Cl. 6. 10-8-35.                                     |
| 324,597. ASPICO. Cl. 18. 5-21-35.                                 | 328,873. MANSO. Cl. 39. 10-8-35.                                      |
| 324,693. VINCE AND DESIGN. Cl. 18. 5-28-35.                       | 328,898. STYLECREST CLOTHES AND DESIGN. Cl. 39. 10-8-35.              |
| 324,748. OFFICIAL DETECTIVE STORIES. Cl. 38. 5-28-35.             | 328,932. UNI-FLOW. Cl. 23. 10-8-35.                                   |
| 325,116. MUREX. Cl. 14. 6-11-35.                                  | 328,942. HOME-CRAFT. Cl. 43. 10-8-35.                                 |
| 325,261. FLEXO GRID. Cl. 31. 6-18-35.                             | 328,969. 612. Cl. 51. 10-8-35.                                        |
| 325,265. SUNPAKT. Cl. 46. 6-18-35.                                | 328,970. SIX TWELVE. Cl. 51. 10-8-35.                                 |
| 325,466. NORTH COUNTRY. Cl. 46. 6-25-35.                          | 328,980. PRIZE WINNER. Cl. 46. 10-15-35.                              |
| 325,519. GAMUZA AND DESIGN. Cl. 1. 6-25-35.                       | 329,005. PARADISE AND DESIGN. Cl. 39. 10-15-35.                       |
| 325,777. CRUISE AND DESIGN. Cl. 39. 7-2-35.                       | 329,088. HOUSE OF COMMONS. Cl. 49. 10-15-35.                          |

## TRADEMARK REGISTRATIONS CANCELED

## Section 7

- |                                              |                                                   |
|----------------------------------------------|---------------------------------------------------|
| 88,286. VACUUM. Cl. 23. 9-10-12.             | 292,436. TITROSALA. Cl. 46. 3-15-32.              |
| 88,288. MAXIMUM. Cl. 23. 9-10-12.            | 299,709. TITRO ETC. AND DESIGN. Cl. 45. 12-20-32. |
| 89,257. TORPEDO AND DESIGN. Cl. 23. 12-3-12. | 299,779. NORDMARK AND DESIGN. Cl. 1. 12-20-32.    |
| 284,560. ISOVANAT. Cl. 18. 7-7-31.           | 300,187. HEPATPAT. Cl. 18. 1-10-33.               |

TM 696 O. G.—15

TM 205



300,355. NORDMARK AND DESIGN. Cl. 46. 1-17-33.  
 300,935. NORDMARK AND DESIGN. Cl. 18. 2-14-33.  
 301,052. KATIONORMA. Cl. 18. 2-14-33.  
 301,053. „PHOTADYNA“. Cl. 18. 2-14-33.  
 536,055. TOMMY BOY. Cl. 46. 1-9-51.

## Section 8

67,233. HAZARD. Cl. 9. 1-28-08.  
 68,487. SAGER SPECIAL CHEMICAL PROCESS AXE, MONOGRAMS C P ETC. Cl. 23. 4-14-08.  
 69,554. CRONOLITE. Cl. 12. 6-23-08.  
 70,885. REPRESENTATION OF HANDKERCHIEF AND BACKGROUND DESIGN. Cl. 39. 10-13-08.  
 70,886. SEALPACKERCHIEF ETC. AND DESIGN. Cl. 39. 10-13-08.  
 110,022. SUPER-SIX. Cl. 19. 5-2-16.  
 111,915. BLUE FLASH. Cl. 22. 8-8-16.  
 112,146. DOWN STAIRS STORE. Cl. 42. 8-22-16.  
 121,938. EDUCATOR. Cl. 37. 6-11-18.  
 130,804. STAR-BRIGHTS. Cl. 46. 5-4-20.  
 144,967. KNICKERBOCKER. Cl. 4. 7-19-21.  
 147,958. FAULKNER. Cl. 42. 10-25-21.  
 155,199. VELVOLAIN. Cl. 42. 5-23-22.  
 166,137. GOLDEN AND REPRESENTATION OF THE SUN. Cl. 37. 3-27-23.  
 176,535. KINGFRUIT AND DRAWING. Cl. 46. 11-27-23.  
 187,321. QUEEN VICTORIA. Cl. 39. 7-29-24.  
 196,278. KILGORE. Cl. 9. 3-17-25.  
 206,946. FUMENAMEL. Cl. 16. 12-15-25.  
 214,277. AN ARBITRARILY COLORED BLUE CORE. Cl. 37. 6-15-26.  
 221,327. SUNNINGDALE. Cl. 42. 11-30-26.  
 227,181. LOTUS BLOSSOM. Cl. 28. 5-3-27.  
 228,555. BELMAISON. Cl. 32. 6-7-27.  
 228,756. AU QUATRIEME JOHN WANAMAKER AND RECTANGULAR DESIGN. Cl. 32. 6-7-27.  
 230,297. KELSWORTH AND DESIGN. Cl. 23. 7-19-27.  
 230,531. KELSWORTH AND OVAL DESIGN. Cl. 24. 7-26-27.  
 231,001. KELSWORTH AND DESIGN. Cl. 21. 8-9-27.  
 232,606. GREEN SEAL. Cl. 48. 9-13-27.  
 233,550. ANITA. Cl. 6. 10-4-27.  
 234,129. THE TRAMP. Cl. 39. 10-18-27.  
 234,666. „SPEE-D“ AND DESIGN. Cl. 23. 11-1-27.  
 235,728. SAFEWAY FOLDED TOWELS AND DESIGN. Cl. 37. 11-22-27.  
 236,475. KEYHOLD. Cl. 12. 12-13-27.  
 237,527. LAVEL. Cl. 6. 1-10-28.  
 237,980. ROCKLYN TWISTS AND DESIGN. Cl. 39. 1-24-28.  
 238,224. VEGOL-STRIPS. Cl. 44. 1-31-28.  
 238,225. PADOL-STEAM PADS. Cl. 44. 1-31-28.  
 238,278. A AND EAGLE DESIGN. Cl. 22. 1-31-28.  
 238,733. CROWN OF SAVOY. Cl. 46. 2-14-28.  
 239,305. ROPETEX. Cl. 37. 2-28-28.  
 239,572. ROSEMONT. Cl. 39. 3-6-28.  
 240,712. CHAMPA. Cl. 12. 4-3-28.  
 240,953. LISTERINE. Cl. 17. 4-10-28.  
 242,765. ARISTEX AND DESIGN. Cl. 42. 6-5-28.  
 244,413. RED SNAPPER. Cl. 23. 7-17-28.  
 244,967. „COUNTRY CLUB“ SPECIAL. Cl. 48. 7-31-28.  
 248,015. SILKEN SNARE. Cl. 39. 10-16-28.  
 250,624. TONTO. Cl. 46. 12-11-28.  
 251,441. „STOUTFELLA“. Cl. 39. 1-8-29.  
 256,304. UNIVERSAL. Cl. 34. 5-14-29.  
 261,821. SHAM Y GLO. Cl. 42. 9-24-29.  
 267,747. HARLEIGH. Cl. 39. 2-25-30.  
 281,232. MELLO CREPE. Cl. 42. 3-10-31.

297,281. ULTRA SUPER A S F AND TULIP LABEL. Cl. 10. 9-6-32.  
 298,355. DEL MONTE AND DESIGN. Cl. 39. 10-25-32.  
 316,569. AURINITE. Cl. 44. 8-28-34.  
 327,608. GRENADE AND HERALDIC DESIGN. Cl. 39. 9-3-35.  
 328,707. GRILIVER. Cl. 46. 10-1-35.  
 328,708. PATIWURST. Cl. 46. 10-1-35.  
 331,781. BASCO AND DESIGN. Cl. 38. 1-21-36.  
 337,930. SNO-LIN. Cl. 37. 8-25-36.  
 338,734. SNOWKIST. Cl. 37. 9-15-36.  
 342,603. NORTHERN TISSUE AND DESIGN. Cl. 37. 1-19-37.  
 343,701. KOASTER ETC. AND DRAWING LINED FOR THE COLORS RED AND BLACK. Cl. 45. 3-2-37.  
 344,662. STERILIN. Cl. 37. 3-30-37.  
 345,717. NORTHERN BANQUET. Cl. 37. 5-4-37.  
 347,347. FLUSH. Cl. 37. 6-22-37.  
 347,483. SUPER-TAILORED. Cl. 39. 6-29-37.  
 347,901. BUFFALO FIRE APPLIANCE CORP. AND REPRESENTATION OF A BUFFALO. Cl. 23. 7-13-37.  
 348,168. NORTHERN HOMETOWNS. Cl. 37. 7-20-37.  
 351,285. BORKONTROL. Cl. 21. 10-26-37.  
 352,547. RED, WHITE AND BLUE PANEL DESIGN. Cl. 22. 12-7-37.  
 356,821. KROMTITE. Cl. 12. 5-10-38.  
 360,086. EDENBORO. Cl. 39. 9-6-38.  
 360,457. TRIANGULAR DESIGN. Cl. 19. 9-20-38.  
 366,320. LOOMCRAFT AND DESIGN. Cl. 39. 4-11-39.  
 367,495. LINWORTH. Cl. 37. 5-16-39.  
 367,647. SHAMRAY. Cl. 37. 5-23-39.  
 367,787. MORSMORA. Cl. 39. 5-30-39.  
 368,000. KASHMORA. Cl. 39. 6-6-39.  
 368,238. SCOT'S LORE. Cl. 49. 6-13-39.  
 368,893. VESPER. Cl. 37. 7-4-39.  
 372,811. LIFE LINE. Cl. 12. 11-14-39.  
 374,783. CUSCO AND DESIGN. Cl. 32. 1-23-40.  
 375,122. FLIGHTLETTER. Cl. 37. 2-6-40.  
 375,661. THERMO-JACKET. Cl. 34. 2-27-40.  
 377,495. LADY SMARTWEAR. Cl. 39. 5-7-40.  
 378,134. BURNING STAR COAL AND DESIGN. Cl. 1. 5-28-40.  
 378,666. HONEY. Cl. 31. 6-11-40.  
 381,733. VISE GRIP AND DESIGN. Cl. 23. 10-1-40.  
 386,725. DR. JEKYLL AND MR. HYDE. Cl. 39. 4-22-41.  
 389,049. GARDETTE. Cl. 40. 7-22-41.  
 392,553. RIVERSIDE KING. Cl. 46. 12-30-41.  
 394,463. PACIFIC AND DESIGN. Cl. 23. 4-7-42.  
 394,959. PINNEX. Cl. 6. 5-5-42.  
 401,986. WINDBLOCK. Cl. 39. 6-22-43.  
 406,114. REPRESENTATION OF A SCROLL AND THREE SEALS. Cl. 12. 3-14-44.  
 409,021. B-Z-B ETC. AND DESIGN. Cl. 46. 9-12-44.  
 415,848. ENSIGN „KERNELS OF SUNSHINE“. Cl. 46. 8-21-45.  
 416,764. —NEO— KERAZOLE. Cl. 6. 9-25-45.  
 417,341. WORLD. Cl. 35. 10-23-45.  
 418,991. RIVERSIDE PRINCE. Cl. 46. 1-15-46.  
 419,650. RIVERSIDE QUEEN. Cl. 46. 2-26-46.  
 419,962. CELO-SIDING. Cl. 12. 3-19-46.  
 425,756. HI-SIGN. Cl. 46. 12-3-46.  
 432,645. TETFOAM-20. Cl. 4. 9-9-47.  
 433,386. THE PINCERS. Cl. 39. 10-14-47.  
 434,564. PLASTIPAK. Cl. 37. 11-25-47.  
 435,280. PARISPEED PRINT AND DESIGN. Cl. 42. 12-16-47.  
 435,647. LOCKED IN. Cl. 37. 1-6-48.  
 435,987. SPORTSPACER. Cl. 22. 1-20-48.

506,388. TRIGON. Cl. 22. 2-8-49.  
 506,391. SOUDERS. Cl. 6. 2-8-49.  
 506,397. PERFUMA SALTZ. Cl. 6. 2-8-49.  
 506,402. GDC AND REPRESENTATION OF AN EAGLE. Cl. 4. 2-8-49.  
 506,410. ERMOGRAF. Cl. 27. 2-8-49.  
 506,414. POLARMOBILE. Cl. 19. 2-8-49.  
 506,422. CRUSADER. Cl. 19. 2-8-49.  
 506,423. PREMIER. Cl. 19. 2-8-49.  
 506,425. ENCAUSTIC. Cl. 16. 2-8-49.  
 506,428. TROY. Cl. 32. 2-8-49.  
 506,437. TOP-N-BOTTOM. Cl. 22. 2-8-49.  
 506,441. BEAM ETC. AND DESIGN. Cl. 19. 2-8-49.  
 506,442. EXAVON. Cl. 6. 2-8-49.  
 506,443. SEA JOY. Cl. 6. 2-8-49.  
 506,444. NIBBLE-NABBER. Cl. 22. 2-8-49.  
 506,447. ARVIN. Cl. 19. 2-8-49.  
 506,453. GLOBE. Cl. 21. 2-8-49.  
 506,471. PEDZOL. Cl. 6. 2-8-49.  
 506,473. INVISICORD. Cl. 44. 2-8-49.  
 506,474. FUN-O. Cl. 22. 2-8-49.  
 506,475. CHICK-BED. Cl. 1. 2-8-49.  
 506,480. HOLYOKE. Cl. 35. 2-8-49.  
 506,486. CHILDREN'S AIDE. Cl. 6. 2-8-49.  
 506,488. GEOMETRICAL DESIGN. Cl. 16. 2-8-49.  
 506,489. PEACOCK'S BROMIDES. Cl. 6. 2-8-49.  
 506,495. CASHAY SANITARY PUFFS. Cl. 44. 2-8-49.  
 506,497. LI-LO. Cl. 44. 2-8-49.  
 506,498. SATTAY. Cl. 6. 2-8-49.  
 506,499. LUCILLE. Cl. 46. 2-8-49.  
 506,501. CANDYTUFT AND DESIGN. Cl. 46. 2-8-49.  
 506,502. REST-ALL. Cl. 32. 2-8-49.  
 506,503. „VENETA“. Cl. 32. 2-8-49.  
 506,504. DISLO. Cl. 46. 2-8-49.  
 506,509. COLLURE. Cl. 16. 2-8-49.  
 506,512. MERCOLITE. Cl. 16. 2-8-49.  
 506,516. STA-WARM. Cl. 21. 2-8-49.  
 506,518. BEE-AR. Cl. 16. 2-8-49.  
 506,520. PRIME. Cl. 44. 2-8-49.  
 506,522. NAPIER. Cl. 6. 2-8-49.  
 506,532. BROT. Cl. 46. 2-8-49.

506,534. EMBLEM. Cl. 42. 2-8-49.  
 506,538. DESIGNER. Cl. 6. 2-8-49.  
 506,546. VIBRO-MASSAGER. Cl. 44. 2-8-49.  
 506,550. GREEK LETTERS PHI-PSI. Cl. 28. 2-8-49.  
 506,551. GREEK LETTERS PHI THETA PI. Cl. 28. 2-8-49.  
 506,552. HINJ. Cl. 6. 2-8-49.  
 506,555. PURIPROIDS. Cl. 6. 2-8-49.  
 506,558. NU-BORDO. Cl. 6. 2-8-49.  
 506,563. RADOR AND DESIGN. Cl. 21. 2-8-49.  
 506,565. COMMANDO. Cl. 6. 2-8-49.  
 506,566. MOM AND DAD BRAND AND DESIGN. Cl. 6. 2-8-49.  
 506,567. SANTISEPTIC. Cl. 6. 2-8-49.  
 506,571. FLORANGE GUM. Cl. 6. 2-8-49.  
 506,573. AR-NE-SA. Cl. 6. 2-8-49.  
 506,575. PERMA-TECTOR. Cl. 42. 2-8-49.  
 506,577. WERK'S HYTEXAL. Cl. 4. 2-8-49.  
 506,578. WERK'S LT 60. Cl. 4. 2-8-49.  
 506,582. ALCOZYME. Cl. 6. 2-8-49.  
 506,583. PANDA. Cl. 4. 2-8-49.  
 506,586. BARNES STREAMLUXE LINE. Cl. 13. 1-18-49.  
 506,587. BARNES AND DESIGN. Cl. 13. 1-18-49.  
 506,588. FRISCO. Cl. 19. 2-8-49.  
 506,589. WESTERFIELD. Cl. 44. 2-8-49.  
 506,594. „KEY-LOK“. Cl. 35. 2-8-49.  
 506,595. ROCKWELL R AND DESIGN. Cl. 4. 2-8-49.  
 506,596. REMOTELEVISION. Cl. 21. 2-8-49.  
 506,597. HOTELEVISION. Cl. 21. 2-8-49.  
 506,599. EVEREADY. Cl. 44. 2-8-49.  
 506,603. HEAR-SAY. Cl. 21. 2-8-49.  
 506,605. SERVING THE HEART OF AMERICA. Cl. 55. 2-8-49.

## Section 18

118,319. CASSEROLE. Cl. 46. 8-28-17. Canc. 6407.  
 363,615. GUITARE. Cl. 51 (formerly Cl. 6). 1-3-39. Canc. 6360.  
 367,574. „ARCANIL“. Cl. 51 (formerly Cl. 6). 5-23-39. Canc. 6360.  
 381,302. THE ANGEL. Cl. 38. 9-17-40. Canc. 6416.  
 575,996. ARCTIC WRAP. Cl. 37. 6-16-53. Canc. 6308.  
 597,761. DOLAN. Cl. 42. 11-2-54. Canc. 6424.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

400,109. RIVERSIDE. Cl. 35. 2-16-43. Montgomery Ward & Co., Incorporated, Chicago, Ill. Amended: In the statement, line 9, after „nonmetallic tires,“ and for no other goods presently included in Class 35, is inserted.

594,999. CLASS A BRAND. Cl. 46. 9-7-54. Vincennes Packing Corporation, Vincennes, Ind. Amended: In the description of goods the items „tomato catsup“, „chili sauce“, „seafood cocktail sauce“ and „barbecue sauce“ are deleted.

599,514. MEMOX. Cl. 1. 12-21-54. W. W. Chamberlain & Sons Limited, Higham Ferrers, Northamptonshire, England. Corrected: In the statement, column 2, line 1, for „LIQUID WAX FOR USE ON AUTOMOBILES“ read OX LEATHER, OX SKINS AND OX HIDES.

607,235. MADE BY GABRIEL AND DESIGN. Cl. 22. 6-14-55. Saml. Gabriel Sons & Company, New York, N. Y. Corrected: In the certificate, line 3, State of incorporation, for „a corporation of Pennsylvania“ read a corporation of New York; in the statement, column 1, lines 1 and 2, State of incorporation, for „Pennsylvania corporation“ read New York corporation.

## TRADEMARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trademark Act of 1946 for the unexpired term of the original registrations.

508,283. PHARMACY INTERNATIONAL. Cl. 38. McGraw-Hill International Corporation, by change of name from Business Publishers International Corporation. 4-6-49.

New Cert. Sec. 7(c), to Johnston Export Publishing Co., New York, N. Y., 7-19-55.



## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 1

326,771. Aug. 6, 1935. Herbert Royston, d. b. a. California Bulb & Seed Company, Santa Monica, Calif. Pub. by Davids and Royston Bulb Company, Los Angeles, Calif.

**"Califlora"**

For Bulbs and Garden Seed.

### CLASS 13

325,543. June 25, 1935. Crown Fastener Corporation, Wilmington, Del., and New York, N. Y. Pub. by Coats & Clark Inc., New York, N. Y.

**CROWN**

For Slide Fasteners.

### CLASS 14

325,366. June 18, 1935. Magnaflux Corporation, New York, N. Y. Pub. by Magnaflux Corporation, Chicago, Ill.

**MAGNAFLUX**

For Metallic Comminuted Paramagnetic Material for Use in Locating Defects in Magnetic Bodies.

### CLASS 18

323,986. May 7, 1935. Parke, Davis & Company, Detroit, Mich. Pub. by registrant.

**NAFERON**

For Iron Sodium Citrate Compound To Be Used in the Treatment of Anemia or Other Conditions Where Iron is Indicated.

324,592. May 21, 1935. Parke, Davis & Company, Detroit, Mich. Pub. by registrant.

**D.C.P.**

For Preparation for Use in the Treatment of Conditions Involving Deficient Utilization in the Body of Calcium and Phosphorus, as, for Example, in the Treatment of Rickets.

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### CLASS 23

325,436. June 25, 1935. Cen-Tennial Cotton Gin Co., Columbus, Ga. Pub. by registrant.

**CEN-TENNIAL**

For Cotton Gins, Feeders, Condensers, Presses, Lint Flues, Cleaners, Separators, Pneumatic Elevators, Screw Conveyors, Belt Distributors, Burr Machinery and Other Cotton Ginning Equipment.

326,028. July 9, 1935. Cen-Tennial Cotton Gin Co., Columbus, Ga. Pub. by registrant.



For Cotton Gins, Feeders, Condensers, Presses, Lint Flues, Cleaners, Separators, Pneumatic Elevators, Screw Conveyors, Belt Distributors, Burr Machinery and Other Cotton Ginning Equipment.

### CLASS 37

102,940. Mar. 2, 1915. The A. S. Gilman Printing Company, Cleveland, Ohio. Pub. by Moore Business Forms, Inc., Niagara Falls, N. Y.



For Printed Forms--Namely, Letterforms, Order-Blanks, Receipts, Expense-Bills, Freight-Bills, Arrival-Notices, Way-bills, Memoranda, Freight-Notices, Shop-Orders, Delivery-Blanks, Express-Receipts, Bills of Lading, Invoices.

### CLASS 39

325,437. June 25, 1935. Van Raalte Company, Inc., New York, N. Y. Pub. by registrant.

**Picnit**

For Fabric Gloves.

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U. S. PATENT OFFICE

TM 209

325,803. July 2, 1935. Van Raalte Company, Inc., New York, N. Y. Pub. by registrant.

**ROYALACE**

For Women's, Misses', and Children's Hosiery.

326,111. July 16, 1935. Polrette Corsets, Inc., New York, N. Y. Pub. by registrant.



For Foundation Garments, Corsets, Brassieres, and Combinations of the Same.

380,090. Aug. 6, 1940. Timely Clothes, Incorporated, Rochester, N. Y. Pub. by Vancross Clothes, Inc., Rochester, N. Y.



For Men's Clothing--Namely, Suits, Topcoats, Overcoats, and Trousers.

### CLASS 40

324,123. May 14, 1935. Chatham Manufacturing Company, Eikin, N. C. Pub. by registrant.

**DURALOOM**

For Blanket Bindings.

### CLASS 46

315,055. July 17, 1934. Salvatore Viviano, d. b. a. S. Viviano Macaroni Manufacturing Company, Carnegie, Pa. Pub. by Vimco Macaroni Products Company, Carnegie, Pa.

**Mayfair Club**

For Spaghetti.



## LIST OF REGISTRANTS OF TRADEMARKS

- Abel-Textilwerke G. m. b. H., Gunzburg (Danube), Germany. 609,139, pub. 4-5-55. Cl. 39.  
 Action Diamond Tool Co., Chicago, Ill. 608,923, pub. 4-19-55. Cl. 4.  
 Adco, Inc., Sedalia, Mo. 506,397, can. Cl. 6.  
 Adelphi Shirt Co., to Royal Mfg. Co. Inc., Allentown, Pa. 325,777, ren. 7-2-55. Cl. 39.  
 Aircraft Specialty Lines, Phoenix, Ariz. 609,088, pub. 4-26-55. Cl. 26.  
 Almarine Mfg. Corp., Glendale, Calif. 609,012, pub. 4-19-55. Cl. 16.  
 Ajello, A., & Bros., Mamaroneck, N. Y. 609,309. Cl. 15.  
 Alderney Dairy Co., Newark, N. J. 609,237, pub. 4-26-55. Cl. 46.  
 Allied Carbon & Ribbon Mfg. Corp., New York, N. Y. 608,946, pub. 4-19-55. Cl. 11.  
 Allied Petroleum Co., Inc., The, Denver, Colo. 609,003, pub. 4-5-55. Cl. 13.  
 Altman, B., & Co., New York, N. Y. 609,166, pub. 4-12-55. Cl. 39.  
 Amend, Fred W., Co., Danville, Ill. 609,234, pub. 4-12-55. Cl. 46.  
 American Bildrok Co., Chicago, Ill. 609,305. Cl. 12.  
 American Bitumuls & Asphalt Co.: See—  
 American Bitumuls Co.  
 American Bitumuls Co., Wilmington, Del., and San Francisco, Calif., to American Bitumuls & Asphalt Co., San Francisco, Calif. 323,731, ren. 4-30-55. Cl. 12.  
 American Cyanamid Co., New York, N. Y. 609,041-2, pub. 4-12-55. Cl. 18.  
 American Cyanamid Co., New York, N. Y. 609,290, pub. 4-26-55. Cl. 52.  
 American Lutheran Church, Columbus, Ohio. 609,124, pub. 4-19-55. Cl. 38.  
 American Murex Corp., to Metal & Thermit Corp., New York, N. Y. 325,116, ren. 6-11-55. Cl. 14.  
 American Products Co., to Arasco American, Inc., New York, N. Y. 609,098, pub. 4-19-55. Cl. 29.  
 American Window Glass Co., Pittsburgh, Pa. 608,952, pub. 4-19-55. Cl. 12.  
 Amphac Laboratories, Inc., Everett, Wash. 506,571, can. Cl. 6.  
 Anchor Hocking Glass Corp., Lancaster, Ohio. 609,110, pub. 4-26-55. Cl. 33.  
 Anderson, Norman, d. b. a. Sacred Gardens Assn., El Paso, Tex. 609,295, pub. 4-26-55. Cl. 100.  
 Antell, Charles, Inc., Baltimore, Md. 609,282, pub. 4-26-55. Cl. 51.  
 Arena, A., & Co., Ltd., Los Angeles, Calif. 609,215, pub. 4-26-55. Cl. 46.  
 Arena, A., & Co., Ltd., Los Angeles, Calif. 609,246, pub. 4-26-55. Cl. 46.  
 Arizona Citrus Growers, Phoenix, Ariz. 250,624, can. Cl. 46.  
 Armour and Co., Chicago, Ill. 608,929, pub. 4-19-55. Cl. 5.  
 Armour and Co., Chicago, Ill. 609,038, pub. 4-12-55. Cl. 18.  
 Armstrong Cork Co., Lancaster, Pa. 608,938, pub. 4-19-55. Cl. 5.  
 Armstrong Cork Co., Lancaster, Pa. 609,014, pub. 4-26-55. Cl. 16.  
 Arns Products: See—  
 Rogers, Arnot S.  
 Arasco American, Inc.: See—  
 American Products Co.  
 Associated Merchandising Corp., New York, N. Y. 506,501, can. Cl. 46.  
 Atlantic Mills, Providence, R. I. 155,199, can. Cl. 42.  
 Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. 281,232, can. Cl. 42.  
 Atlas Powder Co., Wilmington, Del. 506,552, can. Cl. 6.  
 Automatic Remote Systems, to Automatic Remote Systems, Inc., Baltimore, Md. 609,049, pub. 4-26-55. Cl. 21.  
 Automatic Remote Systems, Inc.: See—  
 Automatic Remote Systems.  
 Averill, Floyd N., Jr., d. b. a. Santiseptic Co., Portland, Oreg. 506,567, can. Cl. 6.  
 Ayars, Helen, Cosmetics: See—  
 Puritan Cosmetics Co.  
 B. B. Chemical Co., Boston, Mass. 608,928, pub. 4-5-55. Cl. 5.  
 B-Z-B Honey Co.: See—  
 Schumacher, H. H.  
 Babcock & Wilcox Co., The, New York, N. Y. 608,963, pub. 4-26-55. Cl. 12.  
 Bahnsen Co., The, Winston-Salem, N. C. 327,162, ren. 8-20-55. Cl. 34.  
 Baillie, Jack T., d. b. a. Jack T. Baillie Co., Salinas, Calif. 609,252, pub. 4-26-55. Cl. 46.  
 Baillie, Jack T. Co.: See—  
 Baillie, Jack T.  
 Balfour, Guthrie & Co. Ltd., San Francisco, Calif. 325,265, ren. 6-18-55. Cl. 46.  
 Barnes Mfg. Co., Mansfield, Ohio. 506,586-7, can. Cl. 13.  
 Batriere, A. & R., Frères, S. A. R. L., Bordeaux, (Gironde), France. 609,256-7, pub. 4-26-55. Cl. 47.  
 Bartrey Ltd., Nassau, Bahamas. 608,955, pub. 4-19-55. Cl. 12.  
 Beam Mfg. Co.: See—  
 Solar Corp.  
 Berkeley Industries, Jersey City, N. J. 609,102, pub. 4-19-55. Cl. 32.  
 Berlin, Irving, and Co., d. b. a. S. G. A. Distilling Co., Chicago, Ill. 609,260, pub. 4-19-55. Cl. 49.  
 Bernstein, J. R., Chicago, Ill. 608,985, pub. 3-29-55. Cl. 13.  
 Better Brushes, Inc., Palmer, Mass. 609,095, pub. 4-26-55. Cl. 29.  
 Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. 609,190, pub. 4-19-55. Cl. 40.  
 Bissell Varnish Co., The, Bridgeport, Conn. 506,488, can. Cl. 16.  
 Block, Charles A., d. b. a. H & L Block, San Francisco, Calif. 401,986, can. Cl. 39.  
 Block, H & L: See—  
 Block, Charles A.  
 Block, H. & L., Ltd., San Francisco, Calif. 298,355, can. Cl. 39.  
 Block, H & L, Ltd., San Francisco, Calif. 386,725, can. Cl. 39.  
 Blue Ribbon Paint Co., Wheeling, W. Va. 506,518, can. Cl. 16.  
 Bobbish Industrial Products Co., Dearborn, Mich. 609,005, pub. 4-5-55. Cl. 15.  
 Boepple Sportswear Mills, Inc., New York, N. Y. 609,183, pub. 4-26-55. Cl. 39.  
 Bonafide Mills, Inc., New York, N. Y. 609,048, pub. 4-26-55. Cl. 20.  
 Bonat, Samuel, & Bro., New York, N. Y. 238,224-5, can. Cl. 44.  
 Bonoli Packing Corp., Brooklyn, N. Y. 609,214, pub. 4-26-55. Cl. 46.  
 Borden Co., The, New York, N. Y. 609,253, pub. 4-26-55. Cl. 46.  
 Borg-Warner Corp., Chicago, Ill. 609,112, pub. 4-5-55. Cl. 34.  
 Bradley, Milton, Co., Springfield, Mass. 608,931, pub. 4-19-55. Cl. 5.  
 Bray Oil Co., Los Angeles, Calif. 609,019, pub. 4-19-55. Cl. 16.  
 Breco Mfg. Co., Inc., Baltimore, Md. 609,061, pub. 4-19-55. Cl. 23.  
 Bridgeport Hardware Mfg. Corp., The, Bridgeport, Conn. 328,368, ren. 9-24-55. Cl. 23.  
 Briggs & Stratton Corp., Milwaukee, Wis. 331,781, can. Cl. 38.  
 Broquinda Corp., The, St. Petersburg, Fla. 506,414, can. Cl. 19.  
 Brotman Associates, Inc., San Francisco, Calif. 506,532, can. Cl. 46.  
 Buck Distributing Service: See—  
 Reed, Eldo L.  
 Buckeye Producing Co., The, Toledo, Ohio. 232,606, can. Cl. 48.  
 Buckeye Steel Castings Co., The, Columbus, Ohio. 609,313, Cl. 18.  
 Buffalo Fire Appliance Corp., Dayton, Ohio. 347,601, can. Cl. 23.  
 Bunyan, Paul, Bait Co., The, Minneapolis, Minn. 609,056-7, pub. 4-19-55. Cl. 22.  
 Burbank Chemical Co., Burbank, Calif. 609,025-6, pub. 4-19-55. Cl. 16.  
 Burdsal, A., Co., The, Indianapolis, Ind. 506,425, can. Cl. 16.  
 Burlington Industries, Inc.: See—  
 Migel, M. C., & Co.  
 Business Publishers International Corp.: See—  
 McGraw-Hill International Corp.  
 Butler, Clifford W., d. b. a. Chaparral Chinchilla Ranch, Ogden, Utah. 609,340. Cl. 52.  
 C-O-Two Fire Equipment Co., Newark, N. J. 609,316. Cl. 23.  
 California Almond Orchards, Inc., Paso Robles, Calif. 609,250, pub. 4-26-55. Cl. 46.  
 California Bulb & Seed Co.: See—  
 Royston, Herbert.  
 California Research Corp., Wilmington, Del. 608,997, pub. 4-19-55. Cl. 15.  
 Cantrell & Cochrane Corp., New York, N. Y. 609,209, pub. 4-26-55. Cl. 45.  
 Capolino, Romolo, d. b. a. R C Chemical Co., Clifton Heights, Pa. 608,995, pub. 4-26-55. Cl. 15.  
 Carity Hosiery Co., Philadelphia, Pa. 377,495, can. Cl. 39.  
 Carolina Mop Mfg. Co., Anderson, S. C. 609,097, pub. 4-19-55. Cl. 29.  
 Cashmere Fruit Growers Union, Cashmere, Wash. 176,535, can. Cl. 46.  
 Celanese Corp. of America, New York, N. Y. 609,202, pub. 2-8-55. Cl. 43.  
 Celotex Corp., The, Chicago, Ill. 406,114, can. Cl. 12.  
 Celotex Corp., The, Chicago, Ill. 419,962, can. Cl. 12.  
 Cenol Co., Inc.: See—  
 Central City Chemical Co.  
 Cen-Tennial Cotton Gin Co., Columbus, Ga. 325,436, 12(c) pub. 7-19-55. Cl. 23.  
 Cen-Tennial Cotton Gin Co., Columbus, Ga. 326,028, 12(c) pub. 7-19-55. Cl. 23.  
 Centofanti, Carol A., Detroit, Mich. 609,118, pub. 4-19-55. Cl. 38.  
 Central City Chemical Co., to Cenol Co., Inc., Chicago, Ill. 324,466, ren. 5-21-55. Cl. 6.  
 Central Scientific Co., Chicago, Ill. 608,970, pub. 4-26-55. Cl. 12.  
 Centrokornise, Podnik Zahranicniho Obchodu Pro Dovoze a Vyvoz Potravin, Prague, Czechoslovakia. 609,208, pub. 4-12-55. Cl. 45.



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Chadbourn Hosiery Mills, Inc., Charlotte, N. C. 609,324. Cl. 39.  
 Chamberlain, W. W., & Sons Ltd., Higham Ferrers, Northamptonshire, England. 599,514, corrected. Cl. 1.  
 Chaparral Chinchilla Ranch: See—  
 Butler, Clifford W.  
 Chatham Mfg. Co., Elkin, N. C. 324,123, 12(c) pub. 7-19-55. Cl. 40.  
 Chemical and Industrial Corp., The, Cincinnati, Ohio. 609,296. pub. 4-26-55. Cl. 100.  
 Cherry-Burrell Corp., Chicago, Ill. 609,069, pub. 4-26-55. Cl. 23.  
 Cherven's Industries, Inc., Ebenezer, N. Y. 609,335. Cl. 46.  
 Chi Sigma Sorority, Inc., Washington, D. C. 609,293, pub. 4-26-55. Cl. 100.  
 Chicago Bridge & Iron Co., Chicago, Ill. 608,969, pub. 4-19-55. Cl. 12.  
 Chicago Paints, Inc., Chicago, Ill. 506,509, can. Cl. 16.  
 Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. 609,126, pub. 4-26-55. Cl. 38.  
 Chicago Upholsterers Supply Co., Chicago, Ill. 374,783, can. Cl. 32.  
 Chick Bed Co., Cedar Rapids, Iowa. 506,475, can. Cl. 1.  
 Chicopee Mfg. Corp., New Brunswick, N. J. 609,199-200, pub. 4-26-55. Cl. 42.  
 Christensen Bros., Salinas, Calif. 609,247, pub. 4-26-55. Cl. 46.  
 Clark Brothers Chewing Gum Co., Pittsburgh, Pa. 609,235, pub. 4-12-55. Cl. 46.  
 Clark Brothers Chewing Gum Co., Pittsburgh, Pa. 609,236, pub. 4-26-55. Cl. 46.  
 Clicquot Club Co., Mills, Mass. 106,144, ren. 10-12-55. Cl. 45.  
 Clyde Fashions, Ltd., New York, N. Y. 609,159, pub. 4-19-55. Cl. 39.  
 Coats & Clark Inc.: See—  
 Crown Fastener Corp.  
 Cobbler Co., The: See—  
 Nachman, Jack.  
 Coleman, George D., Aberdeen, Miss. 506,573, can. Cl. 6.  
 Colgate-Palmolive Co., Jersey City, N. J. 609,273, pub. 4-19-55. Cl. 51.  
 Colonial Process Supply Co., New York, N. Y. 608,949, pub. 4-19-55. Cl. 11.  
 Colonial Refining & Chemical Co., Cleveland, Ohio. 608,957, pub. 4-26-55. Cl. 12.  
 Colonial Refining and Chemical Co., Cleveland, Ohio. 609,017, pub. 4-26-55. Cl. 16.  
 Colorado Chemical Co., Denver, Colo. 506,471, can. Cl. 6.  
 Colorado Milling & Elevator Co., The, Denver, Colo. 328,980, ren. 10-15-55. Cl. 46.  
 Commercial Solvents Corp., New York, N. Y. 609,339, Cl. 49.  
 Connecticut Hard Rubber Co., The, New Haven, Conn. 608,941, pub. 4-26-55. Cl. 5.  
 Consolidated Cosmetics, to Consolidated Cosmetics, Chicago, Ill. 506,538, can. Cl. 6.  
 Consolidated Millinery Co., Chicago, Ill. 239,572, can. Cl. 39.  
 Continental Products, Inc., Chicago, Ill. 417,341, can. Cl. 35.  
 Co-Operative Dental Laboratories: See—  
 Schwartz, Harry B., Inc.  
 Corette, Inc., New York, N. Y. 609,141, pub. 4-26-55. Cl. 39.  
 Cow, P. B., & Co. Ltd., London, England. 506,497, can. Cl. 44.  
 Cox, Herbert F., Jr., Syracuse, N. Y. 609,318. Cl. 23.  
 Cream Wip Food Products Co., Philadelphia, Pa. 609,219, pub. 4-26-55. Cl. 46.  
 Crocker, H. S., Co., Inc., San Bruno, Calif. 609,117, pub. 4-26-55. Cl. 38.  
 Crown Fastener Corp., Wilmington, Del., and New York, N. Y., by Coats & Clark Inc., New York, N. Y. 325,543, 12(c) pub. 7-19-55. Cl. 13.  
 Crown Zellerbach Corp., San Francisco, Calif. 608,939, pub. 4-19-55. Cl. 5.  
 Dance Notation Bureau, Inc., New York, N. Y. 609,302, pub. 4-26-55. Cl. 107.  
 Dash Co., Milwaukee, Wis. 609,289, pub. 4-19-55. Cl. 52.  
 Daumit, Harry G., Golden Beach, Fla. 609,264, pub. 4-26-55. Cl. 51.  
 Davids and Rovston Bulb Co.: See—  
 Royston, Herbert.  
 Davis, A., & Sons, Inc., New York, N. Y. 347,483, can. Cl. 39.  
 Dean, Albert, Jr., d. b. a. Deansteel Products, San Antonio, Tex. 608,958, pub. 4-19-55. Cl. 12.  
 Deansteel Products: See—  
 Dean, Albert, Jr.  
 De Bernardi, D. F., & Co., San Francisco, Calif. 238,733, can. Cl. 46.  
 Delaney, Edmund T., d. b. a. Sunshine Tape Co., Omaha, Nebr. 608,940, pub. 4-19-55. Cl. 5.  
 Denver Fire Clay Co., The, Denver, Colo. 240,712, can. Cl. 12.  
 Denver Fire Clay Co., The, Denver, Colo. 356,821, can. Cl. 12.  
 Denver Post, Inc., The: See—  
 Post Printing and Publishing Co., The.  
 Derma Viva Co., Park Ridge, Ill. 102,067, ren. 1-26-55. Cl. 51.  
 Detroit Graphite Co., Detroit, Mich., to The Valspar Corp., Ardmore, Pa. 104,251, ren. 5-11-55. Cl. 16.  
 Diamond Alkali Co., Cleveland, Ohio. 608,983, pub. 4-26-55. Cl. 12.  
 Diamond Alkali Co., Cleveland, Ohio. 608,984, pub. 4-19-55. Cl. 12.  
 Dick, A. B., Co., Niles, Ill. 609,067, pub. 4-26-55. Cl. 23.  
 Dickey Mfg. Co., The, Toledo, Ohio. 506,503, can. Cl. 32.

Diehl Research Laboratories, Ltd., Los Angeles, Calif. 328,600, ren. 7-30-55. Cl. 18.  
 Diehl Research Laboratories, Ltd., Los Angeles, Calif. 327,136, ren. 8-20-55. Cl. 18.  
 Disler, Mahlon M., d. b. a. The Disler Products Co., Canton, Ohio. 506,504, can. Cl. 46.  
 Disler Products Co., The: See—  
 Disler, Mahlon M.  
 Distillerie Riunite Di Liquori, Societa in Accomandita Semplificata: See—  
 Monteverde & Parodi, Inc.  
 Distillers Co., Ltd., The, Linden, N. J. 328,412-13, ren. 9-24-55. Cl. 49.  
 Dodge & Olcott, Inc., New York, N. Y. 609,218, pub. 4-12-55. Cl. 46.  
 Donbar Co., Inc., The, Bradford, Pa. 609,341. Cl. 52.  
 Donna Citrus Association, Donna, Tex. 609,233, pub. 4-12-55. Cl. 46.  
 Downs, Priscilla, Inc., Wantagh, N. Y. 609,277, pub. 4-26-55. Cl. 51.  
 Duke and Benedict, New York, N. Y. 609,266, pub. 4-26-55. Cl. 51.  
 Duo-Plan Co.: See—  
 Lilly, Leonard M.  
 Du Pont, E. I., de Nemours and Co.: See—  
 Roessler & Haaslaacher Chemical Co., The.  
 Dynamic Electronics-New York, Inc., New York, N. Y. 506,596, can. Cl. 21.  
 Dynamic Electronics-New York, Inc., to Hotelevision Inc., New York, N. Y. 506,597, can. Cl. 21.  
 E-Z-Est Products Co.: See—  
 Sampson, Arnold.  
 Eagle-Picher Co., The, Cincinnati, Ohio. 608,975-6, pub. 4-19-55. Cl. 12.  
 Earth Equipment Corp., Los Angeles, Calif. 609,075, pub. 4-26-55. Cl. 23.  
 Eastern States Chemical Corp., Houston, Tex. 608,943, pub. 4-26-55. Cl. 6.  
 Eaton Paper Corp., Pittsfield, Mass. 368,893, can. Cl. 37.  
 Eaton Paper Corp., Pittsfield, Mass. 375,122, can. Cl. 37.  
 Electric Soldering Iron Co., Inc., Deep River, Conn. 609,050, pub. 4-19-55. Cl. 21.  
 Electronic Fabricators, Inc., New York, N. Y. 609,051, pub. 4-19-55. Cl. 21.  
 Elgin American Mfg. Co., to Illinois Watch Case Co., Elgin, Ill. 103,053, ren. 3-16-55. Cl. 28.  
 Emmert, George W., Evanston, Ill. 608,920, pub. 4-19-55. Cl. 2.  
 Erlanger, N., Blumgart & Co., Inc., to Everfast Fabrics, Inc., New York, N. Y. 324,151, ren. 5-14-55. Cl. 42.  
 Erlanger, N., Blumgart & Co., Inc., to Everfast Fabrics, Inc., New York, N. Y. 328,543, ren. 10-1-55. Cl. 42.  
 Eshelman Grain, Inc., Columbus, Ohio. 609,249, pub. 4-26-55. Cl. 46.  
 Everfast Fabrics, Inc.: See—  
 Erlanger, N., Blumgart & Co., Inc.  
 Ever-Fresh Lettuce Distributors: See—  
 Ever-Fresh Lettuce Distributors, Inc.  
 Ever-Fresh Lettuce Distributors, Inc., to J. A. Wood, d. b. a. J. A. Wood Co., and Ever-Fresh Lettuce Distributors, Phoenix, Ariz. 609,239, pub. 4-26-55. Cl. 26.  
 Evergreen Mills, Inc., Ada, Okla. 609,241, pub. 4-26-55. Cl. 46.  
 Factor, Max, & Co., Los Angeles, Calif. 609,268, pub. 4-19-55. Cl. 51.  
 Falls City Knit-Wear Co., Louisville, Ky., to The Moordale Corp., Chicago, Ill. 322,494, ren. 3-12-55. Cl. 39.  
 Feasel, Elizabeth: See—  
 Feasel, Jesse L.  
 Feasel, Jesse L., d. b. a. Scotty Products, Philadelphia, Pa., to E. Feasel, Wilmington, Del. 325,949, ren. 7-9-55. Cl. 4.  
 Fiedler Mills, Inc., Spray, N. C. 609,330. Cl. 42.  
 Folger, J. A., & Co., Kansas City, Mo. 609,227, pub. 4-26-55. Cl. 46.  
 Frankfort Distilleries, Inc., Louisville, Ky., to Paul Jones & Co., Inc., Dover, Del. 328,828, ren. 10-8-55. Cl. 49.  
 Franklin Research Co., Philadelphia, Pa. 435,647, can. Cl. 37.  
 Friedman, J., & Co., Inc., New York, N. Y. 237,980, can. Cl. 39.  
 Friedman, J., & Co., Inc., New York, N. Y. 360,086, can. Cl. 39.  
 Fritzsche Tire & Reinner Co., Chicago, Ill. 506,588, can. Cl. 19.  
 Fuerstman, Myron M., New York, N. Y. 609,193, pub. 4-26-55. Cl. 42.  
 Fuld Brothers, Inc., Baltimore, Md. 608,924, pub. 3-1-55. Cl. 4.  
 Gabriel, Saml., Sons & Co., New York, N. Y. 607,235, cor. Cl. 22.  
 Gaetjens, Berger & Wirth, Inc., Brooklyn, N. Y. 608,945, pub. 4-26-55. Cl. 11.  
 Garden City Plating & Mfg. Co., Chicago, Ill. 608,986, pub. 3-29-55. Cl. 13.  
 Garland Knitting Mills, Inc., Jamaica Plain, Boston, Mass. 609,169, pub. 4-12-55. Cl. 39.  
 Geiss-America, Chicago, Ill. 609,087, pub. 11-2-54. Cl. 26.  
 Gem-Dandy Garter Co., to Gem-Dandy, Inc., Madison, N. C. 327,729, ren. 9-3-55. Cl. 39.  
 Gem-Dandy, Inc.: See—  
 Gem-Dandy Garter Co.  
 General Dyestuff Corp., New York, N. Y. 506,402, can. Cl. 4.  
 General Electric Co., Schenectady, N. Y. 104,017, ren. 4-27-55. Cl. 21.  
 General Fireproofing Co., The, Youngstown, Ohio. 609,103, pub. 4-19-55. Cl. 32.

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General Motors Corp.: See—  
 Inland Mfg. Co., The.  
 General Motors Corp., Detroit, Mich. 609,078, pub. 4-26-55. Cl. 23.  
 Gilman, A. S., Printing Co., The, Cleveland, Ohio, by Moore Business Forms, Inc., Niagara Falls, N. Y. 102,940, 12(c) pub. 7-19-55. Cl. 37.  
 Glenhaven Ltd., Baltimore, Md. 609,140, pub. 4-26-55. Cl. 39.  
 Glen Modes, Inc., New York, N. Y. 609,327. Cl. 39.  
 Glenmore Distilleries Co.: See—  
 Glenmore Distilleries Co., Inc.  
 Glenmore Distilleries Co., Inc., to Glenmore Distilleries Co., Louisville, Ky. 327,555, ren. 8-27-55. Cl. 49.  
 Glidden Co., The, Cleveland, Ohio. 609,020, pub. 4-19-55. Cl. 16.  
 Globe Tool & Engineering Co., The, Dayton, Ohio. 506,453, can. Cl. 21.  
 Goetz, M. K., Brewing Co., St. Joseph, Mo. 244,967, can. Cl. 48.  
 Goldman, Mortimer D., New York, N. Y. 609,181-2, pub. 4-19-55. Cl. 39.  
 Good Foods, Inc., Culver City, Calif. 609,240, pub. 4-26-55. Cl. 46.  
 Goodland Dairy Co.: See—  
 Roth, Otto, Co., Inc.  
 Goodrich, B. F., Co., The, New York, N. Y. 105,264, ren. 7-13-55. Cl. 35.  
 Grand Sheet Metal Products Co., Melrose Park, Ill. 609,072-4, pub. 4-26-55. Cl. 23.  
 Gray, Dorothy, to Lehn & Fink Products Corp., Bloomfield, N. J. 328,854, ren. 10-8-55. Cl. 51.  
 Great Lakes Furnace and Insulating Corp., Buffalo, N. Y. 375,661, can. Cl. 34.  
 Green, A. P., Fire Brick Co., Mexico, Mo. 608,971, pub. 4-26-55. Cl. 12.  
 Greenfield, Henry, Bronx, N. Y. 609,045, pub. 4-26-55. Cl. 18.  
 Greenspoon Clothing Co., Inc., to The Greenspoon Co., St. Louis, Mo. 328,898, ren. 10-8-55. Cl. 39.  
 Greenspoon Co., The: See—  
 Greenspoon Clothing Co., Inc.  
 Grenache, Inc., St. Damien de Brandon, Quebec, Canada. 609,333. Cl. 46.  
 Gretsche, Fred., Mfg. Co., The, Brooklyn, N. Y. 104,146, ren. 5-4-55. Cl. 36.  
 Gruen Watch Co., The, Cincinnati, Ohio. 328,380, ren. 9-24-55. Cl. 27.  
 Haas Miller Corp., Philadelphia, Pa. 609,286, pub. 4-26-55. Cl. 52.  
 Hardman, H. V., Co., Inc., Belleville, N. J. 608,934, pub. 4-5-55. Cl. 5.  
 Hardwood Plywood Institute, Chicago, Ill. 608,953, pub. 4-19-55. Cl. 12.  
 Harris, P. E., Co., Inc.: See—  
 Harris, P. E., Co., Inc., Seattle, Wash. 609,232, pub. 4-12-55. Cl. 46.  
 Hart-Carter Co., Minneapolis, Minn. 328,932, ren. 10-8-55. Cl. 23.  
 Hartman-Leddon Co., Inc., Philadelphia, Pa. 328,860, ren. 10-8-55. Cl. 6.  
 Harvey-Whipple, Inc., Springfield, Mass. 351,285, can. Cl. 21.  
 Haspel Brothers, Inc., New Orleans, La. 609,164, pub. 4-12-55. Cl. 39.  
 Hat Corp. of America, Norwalk, Conn. 324,229, ren. 5-14-55. Cl. 39.  
 Hattenhauer, Elzada M., d. b. a. Modern Educational Publishers, Chicago, Ill. 506,474, can. Cl. 22.  
 Hawk Fish Co., to P. E. Harris Co., Inc., Seattle, Wash. 104,119, ren. 5-4-55. Cl. 46.  
 Hazard Powder Co., The, Hazardville, Conn. 67,233, can. Cl. 9.  
 Health Products Corp., Newark, to White Laboratories, Inc., Kenilworth, N. J. 328,798, ren. 10-8-55. Cl. 18.  
 Hecht Co., The, also d. b. a. The Hub, Washington, D. C., and Baltimore, Md. 251,441, can. Cl. 39.  
 Hecht Co., The, d. b. a. The Hub, Washington, D. C., and Baltimore, Md. 267,747, can. Cl. 39.  
 Hecht, Edward A., d. b. a. Hecht-Turner Manufacturers, Noblesville, Ind. 609,106, pub. 4-19-55. Cl. 32.  
 Hecht-Turner Manufacturers: See—  
 Hecht, Edward A.  
 Helix Co., Inc., The, New York, N. Y. 327,375, ren. 8-27-55. Cl. 39.  
 Heller, Henry B., Corp., St. Louis, Mo. 432,645, can. Cl. 4.  
 Henkel-Clauss Co., The, Fremont, Ohio, and New York, N. Y. 244,413, can. Cl. 23.  
 Hennafoam Co., The, New York, N. Y. 506,498, can. Cl. 6.  
 Henschel, Joseph W., d. b. a. Henschel Mfg. Co., St. Louis, Mo. 609,160, pub. 4-19-55. Cl. 39.  
 Henschel Mfg. Co.: See—  
 Henschel, Joseph W.  
 Herrmann, A. S., Inc., New York, N. Y. 242,765, can. Cl. 42.  
 Hickok Mfg. Co., Inc., Rochester, N. Y. 609,091, pub. 4-26-55. Cl. 28.  
 Hibb Mfg. Co., Inc., Denver, Colo. 609,170, pub. 4-19-55. Cl. 39.  
 Hillside Citrus Co., Inc., Riverside, Calif. 392,553, can. Cl. 46.  
 Hollywood-Maxwell Co., Los Angeles, Calif. 609,146, pub. 4-19-55. Cl. 39.  
 Holsum Products: See—  
 Jewett & Sherman Co.  
 Holt, Douglas, (Estd. 1919) Ltd., London, England. 608,996, pub. 3-29-55. Cl. 15.  
 Holyoke Belting Co., Holyoke, Mass. 506,480, can. Cl. 35.  
 Horney, J. William, Corp., Plant City, Fla. 609,336. Cl. 46.

Hotelevision Inc.: See—  
 Dynamic Electronics-New York, Inc.  
 House of Carras, Ltd., New York, N. Y. 609,009, pub. 4-19-55. Cl. 15.  
 Hub, The: See—  
 Hecht Co., The.  
 Hudnut, Richard, New York, N. Y. 609,284, pub. 4-26-55. Cl. 51.  
 Hudson Motor Car Co., Detroit, Mich. 110,022, can. Cl. 19.  
 Hudson Motor Car Co., Detroit, Mich. 360,457, can. Cl. 19.  
 Hulman & Co., Terre Haute, Ind. 328,007, ren. 9-10-55. Cl. 46.  
 Humbert, Alfred, & Son, Philadelphia, Pa. 227,181, can. Cl. 28.  
 Hurtig Sash & Door Co., St. Louis, Mo. 608,982, pub. 4-26-55. Cl. 12.  
 Hygienic Productions Inc., Wilmington, Ohio. 506,566, can. Cl. 6.  
 Ice Cream Merchandising Institute, Inc., Washington, D. C. 608,921, pub. 4-19-55. Cl. 2.  
 Ideal Roller and Mfg. Co., Chicago, Ill. 608,932, pub. 4-19-55. Cl. 5.  
 Illinois Tool Works, Chicago, Ill. 328,399, ren. 9-24-55. Cl. 13.  
 Illinois Tool Works, Chicago, Ill. 609,064, pub. 4-26-55. Cl. 23.  
 Illinois Watch Case Co.: See—  
 Elgin American Mfg. Co.  
 Iloca Camera: See—  
 Witt, Wilhelm.  
 Imperial Relampago Corp., New York, N. Y. 609,037, pub. 4-12-55. Cl. 18.  
 Industrial Laboratories Publishing Co., The, Chicago, Ill. 609,323. Cl. 38.  
 Industrial Research Engineering, Chicago, Ill. 609,275, pub. 4-19-55. Cl. 51.  
 Inland Mfg. Co., The, Dayton, Ohio, to General Motors Corp., Detroit, Mich. 325,261, ren. 6-18-55. Cl. 31.  
 Insurance Accounting and Statistical Assn., Kansas City, Mo. 609,297, pub. 4-26-55. Cl. 100.  
 International Handkerchief Mfg. Co., The, New York, N. Y. 327,608, can. Cl. 39.  
 International Harvester Co., Chicago, Ill. 609,077, pub. 4-26-55. Cl. 23.  
 International Mfg. Co., The, New York, N. Y. 70,885-6, can. Cl. 39.  
 International Register Co., Chicago, Ill. 609,319. Cl. 26.  
 International Silver Co., to The International Silver Co., Meriden, Conn. 326,125, ren. 7-16-55. Cl. 28.  
 International Silver Co., The: See—  
 International Silver Co.  
 Intertype Corp., Brooklyn, N. Y. 609,084, pub. 4-26-55. Cl. 26.  
 Interwoven Stocking Co., New Brunswick, N. J. 327,065, ren. 8-13-55. Cl. 39.  
 Interwoven Stocking Co., New Brunswick, N. J. 328,652, ren. 10-1-55. Cl. 39.  
 Irving Subway Grating Co., Inc., Long Island City, N. Y. 608,951, pub. 4-26-55. Cl. 12.  
 Isaacson Iron Works, Seattle, Wash. 608,981, pub. 4-19-55. Cl. 12.  
 Jalo-Lube Co., Hollywood, Fla. 609,002, pub. 4-5-55. Cl. 15.  
 January and Wood Co., Maysville, Ky. 328,942, ren. 10-8-55. Cl. 43.  
 Jazz at the Philharmonic, Inc., to Norgren Sales Corp., New York, N. Y. 609,113, pub. 4-5-55. Cl. 36.  
 Jet-Lube, Inc., Los Angeles, Calif. 608,999, pub. 4-5-55. Cl. 15.  
 Jetomatic Co., Inc., The, Ansonia, Conn. 609,080, pub. 4-26-55. Cl. 23.  
 Jewett & Sherman Co., d. b. a. Holsum Products, Milwaukee, Wis. 609,216, pub. 4-26-55. Cl. 46.  
 Johnson & Johnson, New Brunswick, N. J. 609,116, pub. 4-19-55. Cl. 38.  
 Johnston Export Publishing Co.: See—  
 McGraw-Hill International Corp.  
 Jones, Paul, & Co., Inc.: See—  
 Frankfort Distilleries, Inc.  
 Joseph & Feiss Co., The, Cleveland, Ohio. 609,142, pub. 4-19-55. Cl. 39.  
 Julian & Trower Ltd., London, England. 609,255, pub. 4-26-55. Cl. 47.  
 Julian & Trower Ltd., London, England. 609,259, pub. 4-26-55. Cl. 49.  
 Kaufmann Department Stores, Inc., Pittsburgh, Pa. 230,297, can. Cl. 23.  
 Kaufmann Department Stores, Inc., Pittsburgh, Pa. 230,531, can. Cl. 24.  
 Kaufmann Department Stores, Inc., Pittsburgh, Pa. 231,001, can. Cl. 21.  
 Kay Juniors, Inc., Boston, Mass. 609,168, pub. 4-26-55. Cl. 39.  
 Keasbey & Mattison Co., Ambler, Pa. 608,979, pub. 4-19-55. Cl. 12.  
 Kellogg Co.: See—  
 Kellogg Toasted Corn Flake Co.  
 Kellogg Toasted Corn Flake Co., to Kellogg Co., Battle Creek, Mich. 105,019, ren. 6-29-55. Cl. 45.  
 Kellogg Toasted Corn Flake Co., to Kellogg Co., Battle Creek, Mich. 106,623, ren. 10-26-55. Cl. 46.  
 Kendall Co., The, Boston, Mass. 506,520, can. Cl. 44.  
 Kessler & Burg, Inc., Greenville, S. C. 609,153, pub. 4-19-55. Cl. 39.  
 Klekhaefer Corp., Cedarburg, Wis. 609,004, pub. 4-5-55. Cl. 15.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 196,278, can. Cl. 9.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 238,278, can. Cl. 22.



Kilgore Mfg. Co., The, Westerville, Ohio. 352,547, can. Cl. 22.  
 Knight Mfg. Co., Broadhead, Wis. 609,070, pub. 4-26-55. Cl. 23.  
 Komet, Anne, Brooklyn, N. Y. 609,161, pub. 4-12-55. Cl. 39.  
 Kron-Kirk Mfg. Co., Columbia, S. C. 609,111, pub. 4-12-55. Cl. 34.  
 L. K. R. Chemical Products Corp., Detroit, Mich. 609,015, pub. 4-26-55. Cl. 16.  
 Lacoste, Renee (now R. L. Reaume by marriage), Detroit, Mich. 609,262, pub. 4-26-55. Cl. 51.  
 Lake Superior Refining Co., Superior, Wis. 609,008, pub. 4-19-55. Cl. 15.  
 Lambert Pharmacal Co., St. Louis, Mo. 240,953, can. Cl. 17.  
 Landers, Frary & Clark, New Britain, Conn. 106,112, ren. 10-12-55. Cl. 23.  
 Lanolized, Inc., Dover, Del. 609,184, pub. 4-26-55. Cl. 39.  
 Larus & Brother Co., Richmond, Va. 609,029-30, pub. 4-26-55. Cl. 17.  
 La Societe Anonyme Revillon Freres, Paris, France. 324,262, ren. 5-14-55. Cl. 39.  
 Leading Jewelry Mfg. Co., Mamaroneck, N. Y. 609,093-4, pub. 4-26-55. Cl. 28.  
 Le Blond, R. K., Machine Tool Co., The, Cincinnati, Ohio. 609,059-60, pub. 4-26-55. Cl. 23.  
 Lee, Frank H., Co., The, Danbury, Conn. 433,386, can. Cl. 39.  
 Left, Abe J., Chicago, Ill. 328,619, ren. 10-1-55. Cl. 39.  
 Lehn & Fink Products Corp.: See—  
 Gray, Dorothy.  
 Lewis Bolt & Nut Co., Minneapolis, Minn. 372,811, can. Cl. 12.  
 Lexington Lumber Co., Chadds Ford, Pa. 609,306. Cl. 12.  
 Liebowitz, Benjamin, New York, N. Y. 609,328. Cl. 40.  
 Lifetime Cutlery Corp., Brooklyn, N. Y. 609,317. Cl. 23.  
 Lilly, Leonard M., d. b. a. Duo-Plan Co., St. Paul, Minn. 609,298, pub. 4-26-55. Cl. 101.  
 Lily of France Corset Co., Inc., to Lily of France, Inc., New York, N. Y. 327,730, ren. 9-3-55. Cl. 39.  
 Lily of France, Inc.: See—  
 Lily of France Corset Co., Inc.  
 Little Craft Inc., New York, N. Y. 609,172, pub. 4-19-55. Cl. 39.  
 Loeser, Julius, Co., Inc., Chicago, Ill. 368,238, can. Cl. 49.  
 Loewenstein, Hermann, to Hermann Loewenstein, Inc., New York, N. Y. 325,519, ren. 6-25-55. Cl. 1.  
 Loewenstein, Hermann, Inc.: See—  
 Loewenstein, Hermann.  
 Loxit Systems, Inc., Chicago, Ill. 608,954, pub. 4-26-55. Cl. 12.  
 Lucky Me Compounding Corp., Huntsville, Ark. 609,044, pub. 4-12-55. Cl. 18.  
 Lunday-Thagard Oil Co., South Gate, Calif. 608,956, pub. 4-26-55. Cl. 12.  
 M. K. M. Hosiery Mills, Inc., Boston, Mass. 609,187, pub. 4-26-55. Cl. 39.  
 MacCormack, Robert, Scotch Plains, N. J. 609,028, pub. 4-26-55. Cl. 17.  
 MacMillan Petroleum Corp., Los Angeles, Calif. 609,001, pub. 4-5-55. Cl. 15.  
 Magnaflex Corp., New York, N. Y., by Magnaflex Corp., Chicago, Ill. 325,366, 12(c) pub. 7-19-55. Cl. 14.  
 Malco Co., Inc., The, Minneapolis, Minn. 506,473, can. Cl. 44.  
 Manhattan Shirt Co., The, New York, N. Y. 328,873, ren. 10-8-55. Cl. 39.  
 Manischewitz, M. & Co., Inc., New York, N. Y. 609,211, pub. 4-26-55. Cl. 46.  
 Many, Blanc & Co.: See—  
 Schenley Distillers, Inc.  
 Marcus & Wiesen, Inc., New York, N. Y. 609,138, pub. 4-26-55. Cl. 39.  
 Marcy Co., The, Boston, Mass., to Standard Laboratories, Inc., New York, N. Y. 104,073, ren. 4-27-55. Cl. 18.  
 Marine Hy-Products Co.: See—  
 Wilbur-Ellys Co.  
 Market Research Corp. of America, Chicago, Ill. 609,343. Cl. 101.  
 Marley Orchards, Inc., Yakima, Wash. 609,231, pub. 4-26-55. Cl. 46.  
 Marnat Packing Co., Bennettsville, S. C. 609,242, pub. 4-26-55. Cl. 46.  
 Marshall, Calvin C., Hendersonville, N. C., to Plough, Inc., Memphis, Tenn. 324,597, ren. 5-21-55. Cl. 18.  
 Maskinaktiebolaget Karlebo, Stockholm, Sweden. 609,058, pub. 4-26-55. Cl. 23.  
 May Department Stores Co., New York, N. Y. 234,129, can. Cl. 39.  
 May Department Stores Co., The, New York, N. Y., and St. Louis, Mo. 233,550, can. Cl. 6.  
 May Department Stores Co., The, St. Louis, Mo. 320,732, ren. 1-8-55. Cl. 39.  
 May Department Stores Co., The, St. Louis, Mo. 321,858, ren. 2-19-55. Cl. 1.  
 May Department Stores Co., The, St. Louis, Mo. 322,300, ren. 3-5-55. Cl. 42.  
 May Department Stores Co., The, St. Louis, Mo. 322,267, ren. 5-14-55. Cl. 39.  
 May Department Stores Co., The, St. Louis, Mo. 326,384, ren. 7-23-55. Cl. 3.  
 Mayfair Industries, Inc., Chicago, Ill. 506,565, can. Cl. 6.  
 McDowell, Pyle & Co., Inc., Baltimore, Md. 130,804, can. Cl. 46.  
 McGraw-Hill International Corp., by change of name from Business Publishers International Corp., to Johnston Export Publishing Co., New York, N. Y. 508,283, new cert. Cl. 38.  
 McKesson & Robbins, Inc., New York, N. Y. 326,577, ren. 7-30-55. Cl. 18.  
 Mead Cycle Co., Chicago, Ill. 506,422-3, can. Cl. 19.  
 Medicine For Children, Inc., San Francisco, Calif. 506,486, can. Cl. 6.  
 Merkin, M. J., Paint Co., Inc., New York, N. Y. 506,512, can. Cl. 16.  
 Metal Lux, Milan, Italy. 609,083, pub. 4-26-55. Cl. 26.  
 Metal & Thermit Corp.: See—  
 American Murex Corp.  
 Mid-Continent Airlines, Inc., Kansas City, Mo. 506,605, can. Cl. 55.  
 Migel, M. C., & Co., New York, N. Y., to Burlington Industries, Inc., Greensboro, N. C. 104,804, ren. 6-15-55. Cl. 42.  
 Mil-Hi Laboratories, Inc., d. b. a. Minit Dri, New York, N. Y. 609,279, pub. 4-26-55. Cl. 51.  
 Millers Falls Co., Greenfield, Mass. 609,068, pub. 4-26-55. Cl. 23.  
 Milloy, Clare R., d. b. a. Clare Rumball, Erie, Pa. 609,265, pub. 4-19-55. Cl. 51.  
 Minit Dri: See—  
 Mil-Hi Laboratories, Inc.  
 Mitchell Industries, Inc.: See—  
 Persana, Ralph, Co.  
 Mock, Judson, Voehringer Co., Inc., to Mojud Co., Inc., Long Island City, N. Y. 311,162, ren. 3-13-54. Cl. 39.  
 Modern Educational Publishers: See—  
 Hattenhauer, Elzada M.  
 Modern Manner, Inc., Hanover, Pa. 609,167, pub. 4-19-55. Cl. 39.  
 Modern Structures Co., Inc., Washington, D. C. 609,024, pub. 4-19-55. Cl. 16.  
 Mojud Co., Inc.: See—  
 Mock, Judson, Voehringer Co., Inc.  
 Montana Flour Mills Co., Great Falls, Mont. 105,859, ren. 8-24-55. Cl. 46.  
 Monteverde & Parodi, Inc., San Francisco, Calif., to Distillerie Riunite Di Liquori, Societa In Accomandita Semplice, Milan, Italy. 325,782, ren. 7-2-55. Cl. 49.  
 Montgomery Ward & Co., Inc., Chicago, Ill. 400,109. Am. 7(d). Cl. 35.  
 Moordale Corp., The: See—  
 Falls City Knit-Wear Co.  
 Moore Business Forms, Inc.: See—  
 Gilman, A. S., Printing Co., The.  
 Moore Fabrics, to Moore Fabrics, Inc., Pawtucket, R. I. 609,192, pub. 4-26-55. Cl. 42.  
 Moore Fabrics, Inc.: See—  
 Moore Fabrics.  
 Moore, George C., Co., Westerly, R. I. 609,329. Cl. 42.  
 Moore, Goodloe E., Inc., Danville, Ill. 608,974, pub. 4-26-55. Cl. 12.  
 Morse, Leopold, Co., Boston, Mass. 367,787, can. Cl. 39.  
 Morse, Leopold, Co., Boston, Mass. 368,000, can. Cl. 39.  
 Mt. Vernon Milling Co.: See—  
 Short, J. R., Milling Co.  
 Movado Watch Agency, Inc., New York, N. Y. 506,410, can. Cl. 27.  
 Mueller Brass Co., Port Huron, Mich. 608,993, pub. 3-29-55. Cl. 13.  
 Murphy Door Bed Co., Inc., New York, N. Y. 609,322. Cl. 32.  
 Musicians Emergency Fund, Inc., New York, N. Y. 609,121, pub. 4-26-55. Cl. 38.  
 Mutchler, E. J., Sinton, Tex. 425,756, can. Cl. 46.  
 Myo-Plastex Appliance Co.: See—  
 Regent, Doreen W.  
 N-U-N Chemical Co.: See—  
 Warson, Lawrence A.  
 Naamloze Vennootschap Amsterdamsche Superfosfaat-fabriek, Utrecht, Netherlands. 297,281, can. Cl. 10.  
 Nachman, Jack, d. b. a. The Cobbler Co., Easley, S. C. 609,325. Cl. 39.  
 Napier Co., The, Meriden, Conn. 508,522, can. Cl. 6.  
 Nathan Mfg. Co., New York, to Nathan Mfg. Corp., Astoria, N. Y. 104,098, ren. 4-27-55. Cl. 26.  
 Nathan Mfg. Corp.: See—  
 Nathan Mfg. Co.  
 Nathanson, Joseph G., Natick, R. I. 506,442, can. Cl. 6.  
 National Gypsum Co., Buffalo, N. Y. 609,303-4. Cl. 12.  
 National Industrial Laundries, Elizabeth, N. J. 609,300, pub. 4-26-55. Cl. 103.  
 Neapco Products Inc., Pottstown, Pa. 609,315. Cl. 23.  
 Neat-ees Products, Inc., Atlanta, Ga. 609,175, pub. 4-12-55. Cl. 39.  
 Nedick's Stores, Inc., New York, N. Y. 328,707-8, can. Cl. 46.  
 Nekris, Murray H., New York, N. Y. 609,312. Cl. 19.  
 Nepera Chemical Co., Inc., Yonkers, N. Y. 609,310. Cl. 18.  
 Netsky, William, d. b. a. Susquehanna Walst Co., Philadelphia, Pa. 389,049, can. Cl. 40.  
 New American Library of World Literature, Inc., The, New York, N. Y. 609,123, pub. 4-19-55. Cl. 38.  
 Newberry, J. J., Co., New York, N. Y. 609,165, pub. 4-12-55. Cl. 39.  
 New England Grain Products Co., Yarmouth, Maine. 609,225, pub. 4-26-55. Cl. 46.  
 News Syndicate Co., Inc., New York, N. Y. 609,127-31, pub. 4-26-55. Cl. 38.  
 New York Herald Tribune Inc., New York, N. Y. 609,125, pub. 4-19-55. Cl. 38.  
 Niblack, Kenneth G., Buffalo, N. Y. 609,065, pub. 4-19-55. Cl. 23.  
 Nichols Engineering & Research Corp., New York, N. Y. 609,079, pub. 4-26-55. Cl. 23.  
 Noblitt-Sparks Industries, Inc., Columbus, Ind. 506,447, can. Cl. 19.  
 Norgran Sales Corp.: See—  
 Jazz at the Philharmonic, Inc.

Normandin Bros. Co., Los Angeles, Calif. 609,188, pub. 4-26-55. Cl. 39.  
 North Billerica Co., North Billerica, Mass. 147,658, can. Cl. 42.  
 Northern Paper Mills, Green Bay, Wis. 214,277, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 235,728, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 337,930, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 338,734, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 342,603, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 344,662, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 345,717, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 347,347, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 348,168, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 367,495, can. Cl. 37.  
 Northern Paper Mills, Green Bay, Wis. 367,647, can. Cl. 37.  
 Od Peacock Sultan Co., St. Louis, Mo. 506,489, can. Cl. 6.  
 Official Detective Stories, Inc., Chicago, Ill., to Triangle Publications, Inc., Philadelphia, Pa. 324,748, ren. 5-28-55. Cl. 38.  
 Ogilvie Sisters Laboratories, Inc., New York, N. Y. 609,276, pub. 4-26-55. Cl. 51.  
 O'Hearn Mfg. Co., Gardner, Mass. 506,502, can. Cl. 32.  
 Ohio Ferro-Alloys Corp., Canton, Ohio. 327,777, ren. 9-3-55. Cl. 14.  
 Ohio Oil Co., The, Findlay, Ohio. 609,000, pub. 4-5-55. Cl. 15.  
 Old Colony Knitting Mills, Inc., Newton Centre, Mass. 609,173, pub. 4-12-55. Cl. 39.  
 Olds Products Co., The, Chicago, Ill. 105,322, ren. 7-20-55. Cl. 46.  
 Omiya Shashin Yohin Kabushiki-Kaisha, Tokyo-to, Japan. 609,086, pub. 4-26-55. Cl. 26.  
 Opal Strumpfwerke G. m. b. H., Hamburg, Germany. 609,150, pub. 4-12-55. Cl. 39.  
 Opelika Mfg. Corp., Chicago, Ill. 609,203, pub. 4-26-55. Cl. 44.  
 Orchard Brothers Inc., Rutherford, N. J. 608,980, pub. 4-19-55. Cl. 12.  
 Oreck, Perc, San Francisco, Calif. 609,092, pub. 4-26-55. Cl. 28.  
 Oregon Worsted Co., Portland, Oreg. 609,198, pub. 4-19-55. Cl. 42.  
 Organon Inc., Orange, N. J. 609,040, pub. 4-12-55. Cl. 18.  
 Osborn Paper Co., Marion, Ind. 121,938, can. Cl. 37.  
 Osborn Paper Co., Marion, Ind. 166,137, can. Cl. 37.  
 Othline Corp., The, Buffalo, N. Y. 609,269, pub. 4-12-55. Cl. 51.  
 Packard Motor Car Co., Detroit, Mich., now by change of name Studebaker-Packard Corp. 609,010, pub. 4-26-55. Cl. 15.  
 Packwood, G. H., Mfg. Co., St. Louis, Mo. 609,285, pub. 4-19-55. Cl. 52.  
 Pa-Pa-Ya Products, Inc., Wooster, Ohio. 609,224, pub. 4-12-55. Cl. 46.  
 Paquin: See—  
 Paquin Ltd.  
 Paquin Ltd., d. b. a. Paquin, London, England. 609,283, pub. 4-26-55. Cl. 51.  
 Para Mfg. Co., Inc., Newark, N. J. 609,194, pub. 4-26-55. Cl. 42.  
 Paradise Packing Co., Inc., New York, N. Y. 329,005, ren. 10-15-55. Cl. 39.  
 Paraffine Companies, Inc., The, San Francisco, Calif. 206,946, can. Cl. 16.  
 Paraffine Paint Co., The, San Francisco, Calif. 69,554, can. Cl. 12.  
 Paramount Paper Products Co., Omaha, Nebr. 609,120, pub. 4-19-55. Cl. 38.  
 Parfums Ciro, Inc., New York, N. Y. 609,267, pub. 4-19-55. Cl. 51.  
 Parke, Davis & Co., Detroit, Mich. 323,986, 12(c) pub. 7-19-55. Cl. 18.  
 Parke, Davis & Co., Detroit, Mich. 324,592, 12(c) pub. 7-19-55. Cl. 18.  
 Parker, I. C., Fort Worth, Tex. 609,332. Cl. 46.  
 Parrish, Robert E., d. b. a. Worth Pharmacal Co., Fort Worth, Tex. 416,764, can. Cl. 6.  
 Peck & Peck, New York, N. Y. 187,321, can. Cl. 39.  
 Peck & Peck, New York, N. Y. 248,015, can. Cl. 39.  
 Penn Maid Dairy Products, also d. b. a. Sunnyside Farms, Philadelphia, Pa. 609,217, pub. 4-26-55. Cl. 46.  
 Penn Maid Dairy Products, Philadelphia, Pa. 609,254, pub. 4-12-55. Cl. 46.  
 Pennsylvania Salt Mfg. Co., The, Philadelphia, Pa. 609,287, pub. 4-19-55. Cl. 52.  
 Perfecting Service Co., Charlotte, N. C. 608,991, pub. 4-19-55. Cl. 13.  
 Permacel Tape Corp., North Brunswick Township, Middlesex County, N. J. 608,937, pub. 4-5-55. Cl. 5.  
 Persons, Ralph C., d. b. a. Vasco Electrical Mfg. Co., Los Angeles, Calif., to Mitchell Industries, Inc., Mineral Wells, Tex. 326,089, ren. 7-16-55. Cl. 21.  
 Peter Pan Foundations, Inc., New York, N. Y. 609,180, pub. 4-19-55. Cl. 39.  
 Petersen Mfg. Co.: See—  
 Petersen, William.  
 Petersen, William, d. b. a. Petersen Mfg. Co., Dewitt, Nebr. 381,733, can. Cl. 23.  
 Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 609,032, pub. 4-26-55. Cl. 18.  
 Phi Kappa Sigma Fraternity, Philadelphia, Pa. 609,294, pub. 4-26-55. Cl. 100.  
 Phi Psi Fraternity, Wolfboro, N. H. 506,550, can. Cl. 28.  
 Phi Theta Pi Fraternity, Des Moines, Iowa. 506,551, can. Cl. 28.  
 Physicians and Hospitals Supply Co., Inc., d. b. a. Ulmer Pharmacal Co., Minneapolis, Minn. 609,036, pub. 4-26-55. Cl. 18.  
 Physicians and Hospitals Supply Co., Inc., d. b. a. Ulmer Pharmacal Co., Minneapolis, Minn. 609,311. Cl. 18.  
 Pick Mfg. Co., West Bend, Wis. 378,666, can. Cl. 31.  
 Piggly Wiggly Corp., Jacksonville, Fla. 328,264, ren. 9-24-55. Cl. 31.  
 Pillsbury Mills, Inc., Minneapolis, Minn. 609,243-4, pub. 4-26-55. Cl. 46.  
 Pinaud, Ed., Inc.: See—  
 Pinaud Inc.  
 Pinaud Inc., to Ed. Pinaud, Inc., New York, N. Y. 328,969-70, ren. 10-8-55. Cl. 51.  
 Pinex Co., The, Fort Wayne, Ind. 394,959, can. Cl. 6.  
 Pink Domino Co., St. Paul, Minn. 609,263, pub. 4-19-55. Cl. 51.  
 Pittsburgh Coke & Chemical Co., Pittsburgh, Pa. 609,022, pub. 4-26-55. Cl. 16.  
 Pittsburgh Plate Glass Co., Pittsburgh, Pa. 609,023, pub. 4-26-55. Cl. 16.  
 Planters Nut & Chocolate Co., Suffolk, Va. 327,234, ren. 8-20-55. Cl. 46.  
 Plastic Products Co.: See—  
 Truesdale, Cavour L.  
 Plough, Inc.: See—  
 Marshall, Calvin C.  
 Plough, Inc., Memphis, Tenn. 609,034, pub. 4-26-55. Cl. 18.  
 Poddieniak, Inc., Chicago, Ill. 609,082, pub. 11-25-52. Cl. 26.  
 Polrette Corsets, Inc., New York, N. Y. 326,111, 12(c) pub. 7-19-55. Cl. 39.  
 Pollman-Palmquist, Inc., Detroit, Mich. 608,961, pub. 4-19-55. Cl. 12.  
 Poppers Supply Co.: See—  
 Willman, Herman.  
 Post Printing and Publishing Co., to The Denver Post, Inc., Denver, Colo. 609,114, pub. 4-26-55. Cl. 38.  
 Precision-Made Products, Inc., Worcester, Mass. 608,968, pub. 4-26-55. Cl. 12.  
 Premier Peat Moss Corp., New York, N. Y. 324,309, ren. 5-14-55. Cl. 1.  
 Press Publishing Co.: See—  
 Press Union Publishing Co.  
 Press Union Publishing Co., Atlantic City, N. J., now by change of name Press Publishing Co. 609,115, pub. 4-26-55. Cl. 38.  
 Procter & Gamble Co., The, Cincinnati, Ohio. 609,292, pub. 4-26-55. Cl. 100.  
 Pronto-Seal, Inc., Lynbrook, N. Y. 609,270, pub. 4-26-55. Cl. 51.  
 Pro-phy-lac-tic Brush Co., Northampton, Mass. 325,966, ren. 7-9-55. Cl. 29.  
 Proper Mfg. Co., Inc., Long Island City, N. Y. 609,204, pub. 4-26-55. Cl. 44.  
 Prym, William, Stolberg-Rhineland, Germany. 609,189, pub. 4-12-55. Cl. 40.  
 Pure Oil Co., The, Chicago, Ill. 609,006-7, pub. 4-5-55. Cl. 15.  
 Puritan Cosmetics Co., d. b. a. Helen Ayars Cosmetics, St. Louis, Mo. 609,272, pub. 4-19-55. Cl. 51.  
 R C Chemical Co.: See—  
 Capolino, Romolo.  
 Rabell, Miriam E., Waterbury, Conn. 506,495, can. Cl. 44.  
 Radior Co., Balboa, Calif. 506,563, can. Cl. 21.  
 Raffinerie de Corps Gras "Aiglon" Societe Anonyme, Aubervilliers, France. 608,998, pub. 3-29-55. Cl. 15.  
 Ranhoff, Karin B., Smeestad, near Oslo, Norway. 609,314. Cl. 22.  
 Rasmussen, A. W., & Son, Tekamah, Nebr. 609,071, pub. 4-26-55. Cl. 23.  
 Raybestos-Manhattan, Inc., Passaic, N. J. 506,594, can. Cl. 35.  
 Reading Batteries, Inc., Temple, Pa. 609,052, pub. 4-19-55. Cl. 21.  
 Reading Tube Corp., New York, N. Y. 608,987, pub. 3-29-55. Cl. 13.  
 Reading Tube Corp., New York, N. Y. 608,988, pub. 4-19-55. Cl. 13.  
 Reardon Co., The, St. Louis, Mo. 608,950, pub. 4-26-55. Cl. 12.  
 Reaume, Renee L.: See—  
 Lacoste, Renee.  
 Record Files, Inc., Wooster, Ohio. 609,099, pub. 4-19-55. Cl. 32.  
 Reed, Eldo L., d. b. a. Buck Distributing Service, Waterville, Minn. 608,930, pub. 4-19-55. Cl. 5.  
 Reeder, Oliver, & Son, Inc., Baltimore, Md. 609,018, pub. 4-26-55. Cl. 16.  
 Reflector-Hardware Corp., Chicago, Ill. 609,107-8, pub. 4-19-55. Cl. 32.  
 Regent, Doreen W., d. b. a. Myo-Plastex Appliance Co., Middlesbrough, Yorkshire, England. 609,205, pub. 4-26-55. Cl. 44.  
 Reliance Machine & Stamping Works, Inc., New Orleans, La. 234,686, can. Cl. 23.  
 Reynolds, Ken, Ionia, Mich. 609,299, pub. 4-26-55. Cl. 101.  
 Ric-Tur Plastics Co., Leominster, Mass. 609,100, pub. 4-26-55. Cl. 32.  
 Roach & Musser Co., Muscatine, Iowa. 609,307. Cl. 12.  
 Robbins, Jack, Clothing Co., Inc., Elmwood Park, Ill. 609,144, pub. 4-12-55. Cl. 39.  
 Rock Island Register Co., Rock Island, Ill. 256,304, can. Cl. 34.  
 Rockwell Mfg. Co., Pittsburgh, Pa. 506,595, can. Cl. 4.  
 Roe, Wm. G., & Sons: See—  
 Winterhaven Fruit Sales Corp.  
 Roessler & Haslach Chemical Co., The, New York, N. Y., to E. J. du Pont de Nemours and Co., Wilmington, Del. 105,872, ren. 8-24-55. Cl. 6.  
 Roger & Gallet, New York, N. Y. 609,288, pub. 4-19-55. Cl. 52.



Rogers, Arnot S., d. b. a. Arns Products, Horseheads, N. Y. 609,046, pub. 4-26-55. Cl. 18.  
 Ronuk, Ltd., Portlaid, England. 506,583, can. Cl. 4.  
 Rosenberg Bros. & Co., San Francisco, Calif. 415,848, can. Cl. 46.  
 Ross Packing Co.: See—  
 Ross Packing Co., Inc.  
 Ross Packing Co., Inc., to Ross Packing Co., Selah, Wash. 326,513, ren. 7-23-55. Cl. 46.  
 Ross Packing Co., Inc., to Ross Packing Co., Selah, Wash. 326,915, ren. 8-13-55. Cl. 46.  
 Roth, Otto, Co., Inc., to B. O. Villa, d. b. a. Goodland Dairy Co., New York, N. Y. 609,221, pub. 4-12-55. Cl. 46.  
 Royal Mfg. Co., Inc.: See—  
 Adelphi Shirt Co.  
 Royal Souders, Inc., Dayton, Ohio. 506,391, can. Cl. 6.  
 Royston, Herbert, d. b. a. California Bulb & Seed Co., Santa Monica, by Davids and Royston Bulb Co., Los Angeles, Calif. 326,771, 12(c) pub. 7-19-55. Cl. 1.  
 Rubber Magic, Inc., Brooklyn, N. Y. 609,013, pub. 4-26-55. Cl. 16.  
 Rumball, Clare: See—  
 Milloy, Clare R.  
 S. G. A. Distilling Co.: See—  
 Berlin, Irving, and Co.  
 Sacred Gardens Association: See—  
 Anderson, Norman.  
 Safeguard Corp.: See—  
 Safeguard, Inc.  
 Safeguard, Inc., New York, N. Y., to Safeguard Corp., Lansdale, Pa. 324,416, ren. 5-21-55. Cl. 23.  
 Saks & Co., New York, N. Y. 609,177-9, pub. 4-19-55. Cl. 39.  
 Sales Affiliates, Inc., New York, N. Y. 609,274, pub. 4-19-55. Cl. 51.  
 Sally Ann Youngline Salon: See—  
 Siegel, Sally A.  
 Salter Canning Co., North Rose, N. Y. 325,466, ren. 6-25-55. Cl. 46.  
 Sampson, Arnold, d. b. a. E-Z-Est Products Co., Oakland, Calif. 608,926, pub. 4-12-55. Cl. 4.  
 Sander's Supply Corp., New York, N. Y. 608,922, pub. 4-19-55. Cl. 2.  
 Sandhaus, Abe, New York, N. Y. 506,534, can. Cl. 42.  
 Sanford Ink Co.: See—  
 Sanford Mfg. Co.  
 Sanford Mfg. Co., Chicago, to Sanford Ink Co., Bellwood, Ill. 325,871, ren. 7-9-55. Cl. 11.  
 Sanford Mfg. Co., Chicago, to Sanford Ink Co., Bellwood, Ill. 327,980, ren. 9-10-55. Cl. 11.  
 Santiseptic Co.: See—  
 Averill, Floyd N., Jr.  
 Saxony Watch Co., New York, N. Y. 609,090, pub. 4-26-55. Cl. 27.  
 Scheifer & Barst, New York, N. Y. 323,444, ren. 4-16-55. Cl. 46.  
 Schenley Distillers, Inc., d. b. a. Many, Blanc & Co., New York, N. Y. 609,338. Cl. 49.  
 Schenley Import Corp., New York, N. Y. 609,261, pub. 4-26-55. Cl. 49.  
 Schenley Laboratories, Inc., New York, N. Y. 609,033, pub. 4-26-55. Cl. 18.  
 Schering Corp., Bloomfield, N. J. 609,039, pub. 4-12-55. Cl. 18.  
 Schnelerson, I., & Sons, Inc., New York, N. Y. 321,305, ren. 1-29-55. Cl. 39.  
 Schnelerson, I., & Sons, Inc., New York, N. Y. 321,397, ren. 1-29-55. Cl. 39.  
 Schnelerson, I., & Sons, Inc., New York, N. Y. 322,917, ren. 3-26-55. Cl. 39.  
 Schnelerson, I., & Sons, Inc., New York, N. Y. 323,472, ren. 4-16-55. Cl. 39.  
 Schnelerson, I., & Sons, Inc., New York, N. Y. 366,320, can. Cl. 39.  
 Schumacher, H. H., d. b. a. B-Z-B Honey Co., Alhambra, Calif. 409,021, can. Cl. 46.  
 Schumacher Wall Board Corp., Wilmington, Del., Seattle, Wash., and Los Angeles, Calif. 236,475, can. Cl. 12.  
 Schwartz, Harry B., Inc., d. b. a. Co-Operative Dental Laboratories, Baltimore, Md. 609,301, pub. 4-26-55. Cl. 106.  
 Schwarzwalder Co., Philadelphia, Pa. 261,821, can. Cl. 42.  
 Scott Enterprises: See—  
 Scott, Patricia, Inc.  
 Scott, Patricia, Inc., also d. b. a. Scott Enterprises, New York, N. Y. 609,151, pub. 4-19-55. Cl. 39.  
 Scotty Products: See—  
 Feasel, Jesse L.  
 Scovill Mfg. Co., Racine, Wis., and Waterbury, Conn. 506,546, can. Cl. 44.  
 Seajoy Co. Ltd., Putney, London, England. 506,443, can. Cl. 6.  
 Sealube Co., The, Wakefield, Mass. 609,016, pub. 4-26-55. Cl. 16.  
 Seamless Rubber Co., The, New Haven, Conn. 506,599, can. Cl. 44.  
 Sears, Roebuck and Co., Chicago, Ill. 609,096, pub. 4-19-55. Cl. 29.  
 Seattle Quilt Mfg. Co., Inc., Seattle, Wash. 609,149, pub. 4-19-55. Cl. 39.  
 Seeman Brothers, Inc., New York, N. Y. 506,499, can. Cl. 46.  
 Sewer, Gustav A., Burgdorf, Switzerland. 609,063, pub. 4-26-55. Cl. 23.  
 Serene & Reeves: See—  
 Trigon Corp., The.  
 Sharp & Dohme, Inc., Philadelphia, Pa. 506,555, can. Cl. 6.  
 Shaw & Co.: See—  
 Shaw, John E.  
 Shaw, John E., d. b. a. Shaw & Co., Los Angeles, Calif. 304,463, can. Cl. 23.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 506,558, can. Cl. 6.  
 Shields Date Gardens: See—  
 Shields, Ernest F.  
 Shields, Ernest F., d. b. a. Shields Date Gardens, Indio, Calif. 609,226, pub. 4-26-55. Cl. 46.  
 Shirey, Walter S., Los Angeles, Calif. 609,320. Cl. 28.  
 Short, J. R., Milling Co., d. b. a. Mt. Vernon Milling Co., Chicago, Ill. 609,258, pub. 4-26-55. Cl. 48.  
 Siegel, Sally A., d. b. a. Sally Ann Youngline Salon, Los Angeles, Calif. 609,163, pub. 4-19-55. Cl. 39.  
 Signet Club Plan, Cambridge, Mass. 609,162, pub. 4-26-55. Cl. 39.  
 Simmons Co., New York, N. Y. 609,109, pub. 4-19-55. Cl. 32.  
 Simons & French Co., Inc., Sacramento, Calif. 328,120, ren. 9-17-55. Cl. 46.  
 Singer Mfg. Co., The, Elizabeth, N. J. 609,076, pub. 4-26-55. Cl. 23.  
 Skinner, William, & Sons, New York, N. Y. 609,152, pub. 4-19-55. Cl. 39.  
 Skycharm Cosmetic Co., Kansas City, Mo. 609,278, pub. 4-26-55. Cl. 51.  
 Smithwick, Jack K., Shreveport, La. 506,437, can. Cl. 22.  
 Societe Anonyme de la Benedictine Distillerie de la Liqueur de l'Ancienne Abbaye de Fecamp, Fecamp (Seine Inferieure), France. 609,337. Cl. 49.  
 Societe des Usines Chimiques Rhone-Poulenc, Paris, France. 609,031, pub. 4-26-55. Cl. 18.  
 Societe Rhodiaceta, Paris, France. 609,195, pub. 4-26-55. Cl. 42.  
 Societe Rhodiaceta, Paris, France. 609,201, pub. 4-26-55. Cl. 43.  
 Solar Corp., d. b. a. Beam Mfg. Co., Milwaukee, Wis., and Webster City, Iowa. 506,441, can. Cl. 19.  
 Spano, Anthony, Rocky Point, N. Y. 608,925, pub. 4-26-55. Cl. 4.  
 Sparkletts Drinking Water Corp., Los Angeles, Calif. 609,210, pub. 4-12-55. Cl. 45.  
 Sportspace Corp., The, New York, N. Y. 435,987, can. Cl. 22.  
 Spyco Smelting and Refining Co., Minneapolis, Minn. 316,569, can. Cl. 44.  
 Stamford Tool & Die Corp., Stamford, Conn. 506,444, can. Cl. 22.  
 Standard Industrial Products, Inc., Evanston, Ind. 609,027, pub. 4-19-55. Cl. 16.  
 Standard Laboratories, Inc.: See—  
 Marcy Co., The.  
 Vince Laboratories, Inc.  
 Stanley Home Products, Inc., Westfield, Mass. 609,122, pub. 4-19-55. Cl. 38.  
 Stanley Mfg. Co., Inc., The, Denver, Colo. 506,575, can. Cl. 42.  
 Star Steel Equipment Co., Inc., College Point, N. Y. 609,101, pub. 4-19-55. Cl. 32.  
 Sta-Warm Electric Co., The, Ravenna, Ohio. 506,516, can. Cl. 21.  
 Steel City Electric Co., Pittsburgh, Pa. 609,021, pub. 4-19-55. Cl. 16.  
 Stein, Hall & Co., Inc., New York, N. Y. 608,933, pub. 4-5-55. Cl. 5.  
 Sterling Drug, Inc., New York, N. Y. 608,948, pub. 4-26-55. Cl. 11.  
 Stevens, J. & E., Co., Cromwell, Conn. 609,054, pub. 4-12-55. Cl. 22.  
 Stevensons Dyers, Ltd., Ambergate, England. 609,196, pub. 4-12-55. Cl. 42.  
 Storkline Furniture Corp., Chicago, Ill. 609,104-5, pub. 4-19-55. Cl. 32.  
 Storm Sash, Inc., Girard, Ohio. 608,973, pub. 4-19-55. Cl. 12.  
 Strouse, Adler Co., The, New Haven, Conn. 609,176, pub. 4-12-55. Cl. 39.  
 Structural Clay Products Research Foundation, Chicago, Ill. 609,089, pub. 4-26-55. Cl. 26.  
 Studebaker-Packard Corp.: See—  
 Packard Motor Car Co.  
 Style Art Clothes, Inc., New York, N. Y. 328,688, ren. 10-1-55. Cl. 39.  
 Sun Oil Co., Philadelphia, Pa. 609,011, pub. 4-26-55. Cl. 15.  
 Sunbeam Cycles Ltd., Birmingham, England. 103,857, ren. 4-20-55. Cl. 19.  
 Sunnyside Farms: See—  
 Penn Malt Dairy Products.  
 Sunshine Tape Co.: See—  
 Delaney, Edmund T.  
 Super-Form Brassiere Inc., New York, N. Y. 609,145, pub. 4-19-55. Cl. 39.  
 Super-Form Brassiere, Inc., New York, N. Y. 609,174, pub. 4-12-55. Cl. 39.  
 Superior Plastics, Inc., El Segundo, Calif. 609,053, pub. 4-12-55. Cl. 22.  
 Superior Tube Co., Norristown, Pa. 608,992, pub. 3-29-55. Cl. 13.  
 Susquehanna Waist Co.: See—  
 Netzy, William.  
 Takahashi, C. T. & Co.: See—  
 Takahashi, Charles T.  
 Takahashi, Charles T., d. b. a. C. T. Takahashi & Co., Seattle, Wash. 608,959, pub. 4-19-55. Cl. 12.  
 Tall Togs, Inc., Chicago, Ill. 609,185-6, pub. 4-26-55. Cl. 39.  
 Taylor-Colquitt Co., Spartanburg, S. C. 608,977-8, pub. 4-26-55. Cl. 12.  
 Texas Granite Corp., Marble Falls, Tex. 608,960, pub. 4-19-55. Cl. 12.

Thommen, Inc., New York, N. Y. 609,055, pub. 4-19-55. Cl. 22.  
 Thrifty Tractor Parts & Equipment Co., Los Angeles, Calif. 609,062, pub. 4-26-55. Cl. 23.  
 Timely Clothes, Inc., by Vancross Clothes, Inc., Rochester, N. Y. 380,090, 12(c) pub. 7-19-55. Cl. 39.  
 Times Publishing Co., The, St. Petersburg, Fla. 609,119, pub. 4-12-55. Cl. 38.  
 Tip-Top Products Co., Omaha, Nebr. 608,935, pub. 4-5-55. Cl. 5.  
 Tip-Top Products Co., Omaha, Nebr. 608,936, pub. 4-12-55. Cl. 5.  
 Titan Metal Mfg. Co., Bellefonte, Pa. 609,308. Cl. 14.  
 Toldey Co., The, Gertrude A. Muller, Inc., Fort Wayne, Ind. 608,994, pub. 3-29-55. Cl. 13.  
 Tokheim Corp., Fort Wayne, Ind. 608,989, pub. 3-29-55. Cl. 13.  
 Traux-Traer Coal Co., Chicago, Ill. 378,134, can. Cl. 1.  
 Triangle Publications, Inc.: See—  
 Official Detective Stories, Inc.  
 Tribune Co., Chicago, Ill. 609,132-4, pub. 4-26-55. Cl. 32.  
 Tribune Co., Chicago, Ill. 609,135, pub. 4-19-55. Cl. 32.  
 Tribune Co., Chicago, Ill. 609,136-7, pub. 4-26-55. Cl. 32.  
 Tri-Counties Packing Corp., Castroville, Calif. 609,248, pub. 4-26-55. Cl. 46.  
 Trigon Corp., The, Santa Monica, Calif., from Serene & Reeves. 506,388, can. Cl. 22.  
 Triner, Joseph, Corp., Chicago, Ill. 343,701, can. Cl. 45.  
 Troy Sunshade Co., The, Troy, Ohio. 506,428, can. Cl. 32.  
 Trueedale, Cavour L., d. b. a. Plastic Products Co., Richmond, Va. 609,191, pub. 4-26-55. Cl. 42.  
 Truval Manufacturers, Inc., New York, N. Y. 609,148, pub. 4-12-55. Cl. 39.  
 Truval Manufacturers, Inc., New York, N. Y. 609,154-7, pub. 4-12-55. Cl. 39.  
 Twinkle Products Co., Elmira, N. Y. 609,212, pub. 4-19-55. Cl. 46.  
 Tyler, W. S., Co., The, Cleveland, Ohio. 105,404, ren. 7-20-55. Cl. 23.  
 Ulmer Pharmaceutical Co.: See—  
 Physicians and Hospitals Supply Co., Inc.  
 United Aircraft Products, Inc., Dayton, Ohio. 609,081, pub. 4-26-55. Cl. 23.  
 U. S. Adhesives Co., Chicago, Ill. 608,942, pub. 4-26-55. Cl. 5.  
 United States Envelope Co., Springfield, Mass. 230,305, can. Cl. 37.  
 U. S. Flexible Metallic Tubing Co., San Francisco, Calif. 608,990, pub. 4-19-55. Cl. 13.  
 United States Hosiery Corp., New York, N. Y. 609,326. Cl. 39.  
 United States Plywood Corp., New York, N. Y. 608,962, pub. 4-19-55. Cl. 12.  
 Valley City Milling Co., Portland, Mich. 609,334. Cl. 46.  
 Valpar Corp., The: See—  
 Detroit Graphite Co.  
 Van Cleef Bros., Inc., Chicago, Ill. 608,927, pub. 4-5-55. Cl. 5.  
 Vancross Clothes, Inc.: See—  
 Timely Clothes, Inc.  
 Van Raalte Co., Inc., New York, N. Y. 325,437, 12(c) pub. 7-19-55. Cl. 39.  
 Van Raalte Co., Inc., New York, N. Y. 325,803, 12(c) pub. 7-19-55. Cl. 39.  
 Vasco Electrical Mfg. Co.: See—  
 Persons, Ralph C.  
 Villa, Benjamin O.: See—  
 Roth, Otto, Co., Inc.  
 Vimco Macaroni Products Co.: See—  
 Viviano, Salvatore.  
 Vince Laboratories, Inc., to Standard Laboratories, Inc., New York, N. Y. 324,693, ren. 5-28-55. Cl. 18.  
 Vincennes Packing Corp., Vincennes, Ind. 594,999. Am. 7(d). Cl. 46.  
 Vineyard Island Products, Inc., Martha's Vineyard, Mass. 609,245, pub. 4-26-55. Cl. 46.  
 Virginia Woolen Co., The, Winchester, Va. 609,331. Cl. 42.  
 Viviano, S., Macaroni Mfg. Co.: See—  
 Viviano, Salvatore.  
 Viviano, Salvatore, d. b. a. S. Viviano Macaroni Mfg. Co., by Vimco Macaroni Products Co., Carnegie, Pa. 315,055, 12(c) pub. 7-19-55. Cl. 46.  
 Walker's Austex Chili Co., Austin, Tex. 609,222, pub. 4-26-55. Cl. 46.  
 Wallace & Tiernan Co., Inc., Newark, N. J. 237,527, can. Cl. 6.  
 Wallerstein Co., Inc., New York, N. Y. 506,582, can. Cl. 6.  
 Wanamaker, John, New York, New York, N. Y. 111,915, can. Cl. 22.  
 Wanamaker, John, New York, New York, N. Y. 112,146, can. Classes 39 and 42.  
 Wanamaker, John, New York, New York, N. Y. 144,967, can. Cl. 4.  
 Wanamaker, John, New York, New York, N. Y. 221,327, can. Cl. 42.  
 Wanamaker, John, New York, New York, N. Y. 228,555, can. Cl. 32.  
 Wanamaker, John, New York, New York, N. Y. 228,756, can. Cl. 32.  
 Warren Axe and Tool Co., Warren, Pa. 68,487, can. Cl. 23.  
 Warren, S. D., Co., Boston, Mass. 434,564, can. Cl. 37.  
 Warzon, Lawrence A., d. b. a. N-U-N Chemical Co., Milwaukee, Wis. 608,947, pub. 4-19-55. Cl. 11.  
 Wasco, Flashing Co., Cambridge, Mass. 608,963-7, pub. 4-19-55. Cl. 12.  
 Washington Mfg. Co., Inc., Nashville, Tenn. 609,171, pub. 4-19-55. Cl. 39.  
 Watkins, J. R., Co., The, Winona, Minn. 609,271, pub. 4-26-55. Cl. 51.  
 Watkins, J. R., Co., The, Winona, Minn. 609,280, pub. 4-19-55. Cl. 51.  
 Weaver, Don C., d. b. a. Don C. Weaver Co., Salinas, Calif. 609,229-31, pub. 4-12-55. Cl. 46.  
 Weaver, Don C., Co.: See—  
 Weaver, Don C.  
 Weinberg Corp., Chicago, Ill. 609,143, pub. 4-12-55. Cl. 39.  
 Weiner, Martin, Corp., New York, N. Y. 435,280, can. Cl. 42.  
 Weiss Noodle Co., Cleveland, Ohio. 609,228, pub. 4-12-55. Cl. 46.  
 Werk, M., Co., The, St. Bernard, Ohio. 506,577-8, can. Cl. 4.  
 Westerfield Pharmacal Co., Inc., Dayton, Ohio. 506,589, can. Cl. 44.  
 Western Gear Works, Seattle, Wash. 609,066, pub. 11-9-54. Cl. 23.  
 Western Waterproofing Co., Detroit, Mich. 608,972, pub. 4-19-55. Cl. 12.  
 White Laboratories, Inc.: See—  
 Health Products Corp.  
 White Laboratories, Inc., Kenilworth, N. J. 609,043, pub. 4-12-55. Cl. 18.  
 White Laboratories, Inc., Kenilworth, N. J. 609,047, pub. 4-26-55. Cl. 18.  
 White, Martha, Mills, Inc., Nashville, Tenn. 609,197, pub. 4-19-55. Cl. 42.  
 White Rock Bottlers Co., Los Angeles, Calif. 609,207, pub. 4-26-55. Cl. 45.  
 Whitehall Cabinets, Inc., Hewlett, N. Y. 609,321. Cl. 32.  
 Whiteley, William, & Co., Inc., Newark, N. J. 329,088, ren. 10-15-55. Cl. 49.  
 Whiting & Davis Co., Plainville, Mass. 608,944, pub. 4-19-55. Cl. 8.  
 Wickes, Corp., The, Saginaw, Mich. 608,964, pub. 4-26-55. Cl. 12.  
 Wilbur-Ellis Co., d. b. a. Marine By-Products Co., Seattle, Wash. 609,035, pub. 4-26-55. Cl. 18.  
 Will Poultry Co., Buffalo, N. Y. 609,220, pub. 4-26-55. Cl. 46.  
 Williams, Walter, Candy Co., Inc., Oklahoma City, Okla. 609,223, pub. 4-26-55. Cl. 46.  
 Williamson-Dickie Mfg. Co., Fort Worth, Tex. 609,147, pub. 4-12-55. Cl. 39.  
 Willman, Herman, d. b. a. Poppers Supply Co., Portland, Oreg. 609,206, pub. 4-26-55. Cl. 45.  
 Wilser, Charles P., d. b. a. Wilser Mfg. Co., Kansas City, Mo. 506,603, can. Cl. 21.  
 Wilser Mfg. Co.: See—  
 Wilser, Charles P.  
 Wings Boyswear Inc., New York, N. Y. 609,158, pub. 4-19-55. Cl. 39.  
 Winterhaven Fruit Sales Corp., to Wm. G. Roe & Sons, Winter Haven, Fla. 328,069, ren. 9-17-55. Cl. 46.  
 Witt, Wilhelm, d. b. a. Iloca Camera, Hamburg, Germany. 609,085, pub. 4-26-55. Cl. 20.  
 Wood, Fay, Corp., New Rochelle, N. Y. 609,281, pub. 4-26-55. Cl. 51.  
 Wood, J. A.: See—  
 Ever-Fresh Lettuce Distributors, Inc.  
 Wood, J. A., Co.: See—  
 Ever-Fresh Lettuce Distributors, Inc.  
 Wood Office Furniture Institute, Washington, D. C. 609,342. Cl. 100.  
 Woodward & Lothrop, Washington, D. C. 609,251, pub. 4-19-55. Cl. 46.  
 Worth Pharmacal Co.: See—  
 Parrish, Robert E.  
 Worthington Ball Co., The, Elyria, Ohio. 323,896, ren. 5-7-55. Cl. 22.  
 Wrigley, Wm., Jr., Co., Chicago, Ill. 105,285, ren. 7-13-55. Cl. 46.  
 Young, H. M., Lodi, Calif. 609,238, pub. 4-26-55. Cl. 46.  
 Youth for Christ International, Inc., Chicago, Ill. 609,291, pub. 4-26-55. Cl. 100.  
 Zilen, Charles M., d. b. a. Zilen Citrus Co., Riverside, Calif. 418,991, can. Cl. 46.  
 Zilen, Charles M., d. b. a. Zilen Citrus Co., Riverside, Calif. 419,650, can. Cl. 46.  
 Zilen Citrus Co.: See—  
 Zilen, Charles M.

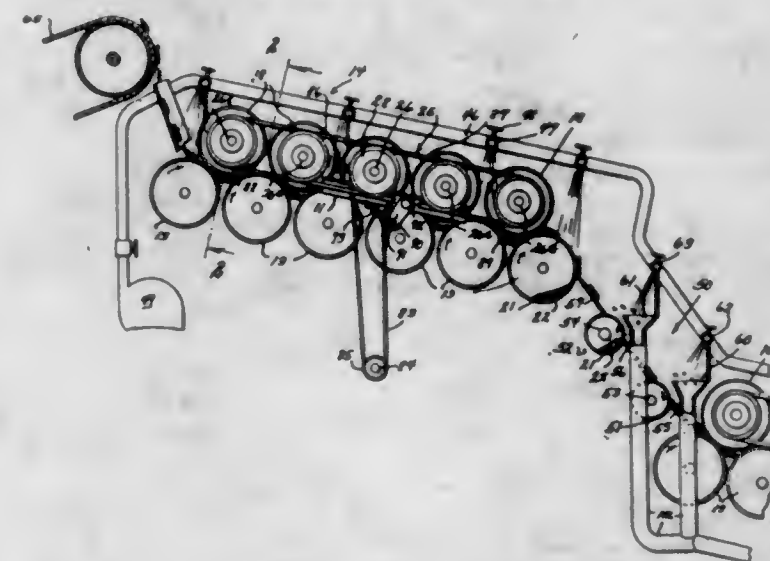


# PATENTS NOTICES

## Erratum

In the OFFICIAL GAZETTE, issue of July 5, 1955, bottom of page 1, lower right-hand portion thereof, for "Patents 517" read *Patents 518*; page 17, first column, above the patent number "2,712,153" insert the following, which comprises the heading, O. G. figure of drawing, and O. G. claim for Patent No. 2,712,152 1/2—

2,712,152 1/2  
**PROCESS FOR PEELING AND CLEANING SHRIMP**  
 Robert J. Samanie, Houma, La.  
 Original application July 21, 1952, Serial No. 299,995.  
 Divided and this application October 29, 1954, Serial No. 465,651  
 6 Claims. (Cl. 17—45)



1. The herein-described process for peeling shrimp which consists in subjecting the shrimp to localized pressure on opposite sides, rolling the shrimp while under pressure to subject substantially all portions of the body of the shrimp to said localized pressure to break the connecting membranes of the shell sections to free the meat, and pinching the hull of the shrimp to eject the freed meat from the hull.

page viii, first column, below "Samanie, Robert J. 2,712,152. Cl. 17—2", insert *Samanie, Robert J. 2,712,152 1/2. Cl. 17—45*; page xi, first column, Class 17, below "2: 2,712,152" insert *45: 2,712,152 1/2*.

## Foreign Patents Received in the Scientific Library as of June 30, 1955

Country	Date received	Highest number
Australia	June 24, 1955	161,108
Austria	June 24, 1955	182,150
Belgium	June 27, 1955	519,700
Canada	June 27, 1955	513,833
Czechoslovakia	June 26, 1952	81,300
Denmark	May 13, 1955	78,925
Egypt	June 8, 1955	392
Finland	June 9, 1955	27,171
France (Patents)	June 9, 1955	1,091,150
(Additions)	June 9, 1955	61,250
Germany	May 20, 1955	925,100
Great Britain	June 17, 1955	731,240
Hungary	Sept. 20, 1951	140,582
India	Mar. 28, 1955	51,096
Ireland	May 17, 1955	20,300
Italy	Mar. 7, 1955	482,700
Japan	June 20, 1955	3,450
Netherlands	June 6, 1955	78,103
Norway	Mar. 17, 1955	84,960
Philippines	Oct. 13, 1954	190
Poland	July 16, 1954	36,000
Russia	Apr. 10, 1928	2,496
Sweden	May 16, 1955	149,183
Switzerland	June 9, 1955	306,330
Yugoslavia	Feb. 17, 1955	16,461

Australia: First 2,000 incomplete  
 Belgium: First printed 493,079  
 Canada: First printed 453,746  
 Finland: First printed 19,428  
 First 500 incomplete  
 Hungary: First received 5,792  
 Ireland: Missing 1—10,000; also 16,250—16,300; 18,851—19,000  
 Italy: First 243,000 incomplete  
 Japan: "Publication number"  
 Russia: File incomplete  
 Yugoslavia: First received 10,001

## Classification Order No. 176

The following transfer is hereby ordered to take effect on Monday, July 11, 1955:

Class 313, Electric Lamp and Discharge Devices subclass 61, from Division 54 to Division 70.

July 7, 1955. M. C. ROSA,  
 Executive Examiner.

## New Applications Received During May 1955

Patents	7,253
Plants	7
Reissues	16
Designs	555
Total	7,831

## Issue

Patents	524—No. 2,713,683 to No. 2,714,206, incl.
Designs	34—No. 175,207 to No. 175,240, incl.
Plants	1—No. 1,407
Reissues	4—No. 24,043 to No. 24,046, incl.
Total	563



# CONDITION OF PATENT APPLICATIONS AS OF MAY 31, 1955

Total number of pending applications (excluding Designs)	220,623
Total number of pending Design applications	6,896
Total number of applications awaiting action (excluding Designs)	137,812
Total number of Design applications awaiting action	2,978
Date of oldest new application	May 27, 1954
Date of oldest amended application	Aug 6, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 69, 70.
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.

DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage	10-7-54	3-9-54
2. (III) HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-8-54	6-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions	8-31-54	11-3-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths	9-14-54	10-29-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates	10-15-54	2-23-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes	8-4-54	1-12-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus	9-13-54	11-6-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	8-3-54	3-1-54
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines	10-18-54	12-14-53
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids	1-7-55	5-27-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls	9-20-54	10-12-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning	10-1-54	12-9-53
14. (III) MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes	11-5-54	1-4-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	10-19-54	3-5-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders	9-10-54	9-17-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding	10-20-54	2-25-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes	9-2-54	9-11-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	8-18-54	1-15-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking	11-12-54	3-24-54
21. (III) MADER, R. C., Textiles	10-8-54	1-25-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling	11-29-54	2-4-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education	5-27-54	8-7-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing	11-22-54	8-10-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus	9-1-54	12-4-53
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism	11-1-54	6-1-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-2-54	4-7-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes	10-5-54	4-8-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers	9-13-54	2-1-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing	11-24-54	12-23-53

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DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons	7-28-54	1-12-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers	11-1-54	4-21-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	9-7-54	12-10-53
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements	9-2-54	11-16-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles	11-8-54	2-15-54
36. (V) McFADYEN, A. D., Measuring and Testing	11-15-54	6-11-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating	6-25-54	1-26-54
38. (I) MARMELESTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols	9-1-54	12-2-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows)	12-24-54	1-26-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	12-2-54	4-1-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds	6-1-54	9-11-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors	9-27-54	3-10-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus)	9-3-54	10-6-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances	10-13-54	6-3-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles	11-29-54	5-10-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers	6-11-54	8-6-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	9-28-54	4-23-54
50. (I) BENDEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber	10-18-54	3-9-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music	9-22-54	3-9-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fasteners; Pipes and Tubular Conduits; Shaft Packing	11-8-54	2-26-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus	10-8-54	12-8-53
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications	8-11-54	12-18-53
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors	5-28-54	12-30-53
56. (I) KEELY, J. E. (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification	11-1-54	3-2-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings	1-14-55	5-4-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons	9-15-54	10-1-53
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-2-54	2-2-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery	12-1-54	5-27-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination	10-12-54	3-1-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions	8-30-54	8-11-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions	9-10-54	11-19-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics	8-5-54	12-28-53
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	10-4-54	3-29-54
69. (B) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators	8-26-54	10-23-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers	6-9-54	8-18-53
DESIGNS: [A—BREHM, G. L., Industrial Arts	10-8-54	10-28-54
[B—GRAY, M. A., Household, Personal and Fine Arts	10-25-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during July 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents..... Numbers 2,122,394 to 2,125,262, inclusive

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## CHANGES IN PATENT RULES

The following amendments have been made in the Rules of Practice of the United States Patent Office in patent cases, to take effect August 15, 1955.

1. Section 1.1 (Rule 1) is amended by adding the following note:

NOTE: §§ 1.1 to 1.26 (Rules 1 to 26) are applicable to trademark cases as well as to patent cases except for provisions specifically directed to patents.

2. Section 1.4 (Rule 4) is amended by adding "or trademark registrations" after "patents" in item 1 of paragraph (a), and by cancelling the parenthetical expression at the end of paragraph (a).

3. Section 1.4 (Rule 4) is amended by renumbering present paragraph (b) as (c) and inserting the following new paragraph (b):

(b) Since each application file should be complete in itself, a separate copy of every paper to be filed in an application should be furnished for each application to which the paper pertains, even though the contents of the papers filed in two or more applications may be identical.

4. Section 1.5 (Rule 5) is amended by adding the following paragraph:

(c) A letter relating to a trademark application should identify it as such and by the name of the applicant and the serial number and filing date of the application. A letter relating to a registered trademark should identify it by the name of the registrant and by the number and date of the certificate.

The heading of § 1.5 (Rule 5) is amended by changing "or patent" to "patent or registration".

5. Section 1.11 (Rule 11) is amended by adding the following note: "See § 2.27 for trademark filed."

6. Section 1.12 (Rule 12) is amended by changing "liber and page" to "identification" in the second sentence and by inserting "or in the case of a trademark registration by the name of the registrant and number of the registration," after "patent" in the third sentence.

7. Section 1.13 (Rule 13) is amended by inserting, "and trademark registrations" after "patents".

8. Section 1.14 (Rule 14) is amended by inserting the word "patent" before "Applications" in the title and in the first sentence, and by adding the following note: "See § 2.27 for trademark applications."

9. Section 1.14 (Rule 14) is amended by changing "sec. 11 (d) of the Atomic Energy Act of 1946, 60 Stat. 768; 42 U. S. C. 1811" to read: "specified by secs. 151 (c) and 151 (d) of the Atomic Energy Act of 1954, 68 Stat. 919; 42 U. S. C. 2181."

10. Section 1.21 (Rule 21) is amended to read as follows:

§ 1.21 Patent and miscellaneous fees and charges. In addition to the fees prescribed by statute, the following fees and charges are established by the Patent Office:

- |                                                                                                                                                    |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| (a) For typewritten manuscript copies of records, for every 100 words or fraction thereof.....                                                     | \$0.10 |
| (b) For photocopies of records or printed material, per sheet.....                                                                                 | .30    |
| (c) For photoprints of drawings, for each sheet of drawing.....                                                                                    | .30    |
| (d) For certified copies of patents if in print: For specification and drawing, per copy.....                                                      | .25    |
| For the certificate.....                                                                                                                           | 1.00   |
| For the grant.....                                                                                                                                 | 1.00   |
| (e) For abstracts of title to each patent or application: For the search, one hour or less, and certificate.....                                   | 3.00   |
| Each additional hour or fraction thereof.....                                                                                                      | 1.50   |
| For each brief from the digest of assignments, of 200 words or less.....                                                                           | 1.00   |
| Each additional 100 words or fraction thereof.....                                                                                                 | .10    |
| (f) For title reports required for Office use.....                                                                                                 | 1.00   |
| (g) For translations, made only of references cited in applications or of papers filed in the Office, for every 100 words or fraction thereof..... | 1.25   |
| (h) On admission to practice as an attorney or agent.....                                                                                          | 5.00   |
| (i) For certificate of good standing as an attorney or agent.....                                                                                  | 1.00   |
| (j) For making patent drawings, when they can be made by the Patent Office, the cost of making the same, minimum charge per sheet.....             | 15.00  |
| (k) For correcting patent drawings, the cost of making the correction, minimum charge.....                                                         | 1.00   |
| (l) For the mounting of unmounted drawings and photoprints received with patent applications, provided they are of approved permanency.....        | 1.00   |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| (m) For photographic prints of patent models, building facilities, etc., if available: For 5 x 7 photographic print.....                                                                                                                                                                                                                                                                                                                                  | .50  |
| For 8 x 10 photographic print.....                                                                                                                                                                                                                                                                                                                                                                                                                        | .75  |
| (n) Searching for and supplying list of references cited in the file of a patent issued before February 4, 1947 (this list is printed on the copies of patents issued on and after February 4, 1947), for list and time involved, one hour or less, \$1.50, and \$1.50 for each additional hour or fraction.....                                                                                                                                          | 1.50 |
| (o) Search of records to determine the filing by any particular person of applications for patents, on presentation of proper authorization, one hour or less.....                                                                                                                                                                                                                                                                                        | 1.50 |
| (p) Subscription orders for printed copies of patents as issued: Annual service charge for entry of order and one subclass, \$1.00, and 10 cents for each additional subclass; amount to be deposited (for the price of the copies supplied), as determined with respect to each order.....                                                                                                                                                               | .20  |
| (q) Lists of U. S. patents classified in a subclass, made to order, per sheet (containing 100 patent numbers or less).....                                                                                                                                                                                                                                                                                                                                | 5.00 |
| (r) Local delivery box rental, annual.....                                                                                                                                                                                                                                                                                                                                                                                                                | 3.00 |
| (s) For publication in the Official Gazette of a notice of the availability of a patent for licensing or sale, each patent.....                                                                                                                                                                                                                                                                                                                           | 3.00 |
| 11. Section 1.24 (Rule 24) is amended by changing "and designs (and also of trademark registrations)" to read "designs and trademark registrations".                                                                                                                                                                                                                                                                                                      |      |
| 12. Section 1.25 (Rule 25) is amended by rewriting the fourth sentence of paragraph (a) to read as follows: "A remittance must be made promptly upon receipt of the statement to cover the value of items or services charged to the account and thus restore the account to its established normal deposit value."                                                                                                                                       |      |
| 13. Section 1.26 (Rule 26) is amended by cancelling "for a patent" in the first sentence.                                                                                                                                                                                                                                                                                                                                                                 |      |
| 14. Section 1.84 (Rule 84) (g) is amended by adding "or to show materials" at the end of the third sentence.                                                                                                                                                                                                                                                                                                                                              |      |
| 15. Section 1.65 (Rule 65) is amended by cancelling the word "for" in the second sentence.                                                                                                                                                                                                                                                                                                                                                                |      |
| 16. Section 1.147 (Rule 147) is amended by cancelling the word "typewritten", and by inserting "prepared and" before "certified", in the second sentence.                                                                                                                                                                                                                                                                                                 |      |
| 17. Section 1.173 (Rule 173) is amended by cancelling "or otherwise indicated as being deleted" in the first sentence.                                                                                                                                                                                                                                                                                                                                    |      |
| 18. Section 1.232 (Rule 232) (b) is amended to read as follows: (b) When one of the parties to the interference is a patentee, no motion to dissolve may be brought by any party on the ground that the subject matter of a count is unpatentable to all parties or is unpatentable to the patentee, except that a motion to dissolve as to the patentee may be brought which is limited to such matters as may be considered at final hearing (§ 1.258). |      |
| 19. Section 1.273 (Rule 273) is amended by cancelling "and of the names and residences of the witnesses to be examined" at the end of the first sentence and substituting: "and the name and address of each witness to be examined: If the name of a witness is not known a general description sufficient to identify him or the particular class or group to which he belongs, together with a satisfactory explanation, may be given instead."        |      |
| 20. Section 1.292 (Rule 292) (a) is amended by cancelling the word "original" in the first sentence.                                                                                                                                                                                                                                                                                                                                                      |      |
| 21. Section 1.314 (Rule 314) is amended by cancelling the third sentence and revising the second sentence to read: "In the absence of request to suspend issue of the patent up to three months, the patent will issue in regular course in the order in which the final fee is paid."                                                                                                                                                                    |      |
| 22. Section 1.332 (Rule 332) is amended by cancelling the first sentence and revising the second sentence to read: "Assignments are recorded in regular order as promptly as possible, and then transmitted with the date and identification of the record stamped thereon to the persons entitled to them."                                                                                                                                              |      |
| 23. Section 1.341 (Rule 341) is amended by adding the following note at the end of the section: NOTE: See § 2.12 for practice in trademark cases. These amendments were published in the Federal Register for July 7, 1955.                                                                                                                                                                                                                               |      |

## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

IN RE SIU

No. 6097. Decided March 22, 1955

[— F.2d —; — USPQ —]

#### 1. DOUBLE PATENTING—EFFECT OF TERMINAL DISCLAIMER UNDER 35 U. S. C. 253.

Where applicant files a terminal disclaimer of any part of his patent as would extend expiration date of copending patent owned by same assignee and cited as a reference against claims of application, *Held* that Board of Appeals properly decided that if the claims of the application do not represent a distinct and patentable invention the disclaimer is without significance.

#### 2. PATENTABILITY—PARTICULAR SUBJECT MATTER—METHOD OF PREPARING GLASS FILAMENTS.

Claims to method of preparing glass filaments *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 180,686. AFFIRMED.

Herbert Berl for Siu.

E. L. Reynolds (S. W. Cochran of counsel) for the Commissioner of Patents.

Before GARRETT, Chief Judge, and O'CONNELL, JOHN-SON, WORLEY, and COLE, Associate Judges.

O'CONNELL, J., delivered the opinion of the court.

This is an appeal from a decision of the Board of Appeals of the Patent Office affirming the rejection by the Primary Examiner of claims 1, 2, 4, 6, 7, 8, and 9 of appellant's application for a patent on "Curled Glass Filaments and Methods of Making the Same." Claim 5 was allowed. Only method claims are here on appeal.

Claim 1 is illustrative of the subject matter defined by the rejected claims and reads as follows:

1. A method of preparing filaments of glass characterized by causing molten glass to flow in a liquid stream to the vertex of a substantially cone-shaped, heated, rotating stream of gas or vapor traveling with a high velocity under such pressure as will break up the said stream of molten glass into fine inherently curly filaments.

The claim is largely self-explanatory of the invention sought to be patented. It will be noted that the method defined by the claim comprises the making of what is familiarly known as "glass wool" by disrupting a stream of molten glass by a particular type of fast moving blast of gas or vapor. Claims 6, 7, 8, and 9 describe the velocity of the stream as "supersonic," while claims 2 and 4 relate to a modification of the basic idea involving the addition of solid particles to the glass.

The cited references are: Kennedy et al., 328,226, Oct. 13, 1885; Edwards (British), 481,690, Mar. 16, 1938; Ladisch, 2,571,457, Oct. 16, 1951.

The patents to Kennedy et al. and to Edwards describe the formation of glass filaments by the action of jets of gas on molten glass. The principal reference, however, is the patent to Ladisch which was co-pending with appellant's application, but earlier filed. It is admitted by appellant that the manipulative steps of Ladisch, including the characteristics of the gas stream and its relationship to the stream of molten liquid, substantially correspond to those of the Siu application. The difference between the two groups of claims is that appellant's claims are directed

toward the specific use of the method with molten glass, while those of the patent to Ladisch are directed toward the method generically, and toward its use with resinous materials specifically.

Appellant notes that due to the higher melting point of glass, the Siu method is carried out at higher temperatures than the method of Ladisch but, as pointed out by the Solicitor for the Patent Office, the claims in issue represent a species of Ladisch's invention. Ladisch and Siu have a common assignee and a common non-exclusive licensee, the United States Government, as represented by the Office of the Quartermaster General of the Department of the Army.

Both Ladisch and Siu it appears constituted at one time a research team working in the quartermaster's development laboratories at Philadelphia. With respect to the outcome of that joint enterprise, appellant states in his brief:

Experiments carried out with molten glass in accordance with appellant's directions, proved highly successful and to the surprise of the research team enabled the production of astonishing quantities of very fine glass wool at the rate of 156,000,000 feet per minute from a single nozzle.

Dr. Ladisch's and Dr. Siu's (appellant) respective inventions were submitted to the Government for patenting, and after exhaustive study, separate patent applications were filed for Dr. Ladisch, and for Dr. Siu, respectively; each patent application containing a cross reference to the other.

Dr. Ladisch's patent application subsequently matured into Patent No. 2,571,457 containing generic claims of sufficient scope to include organic as well as inorganic starting materials, and a set of species claims defining his starting materials as resins. Ladisch's patent contains no species claims drawn to inorganic starting material. The claims in appellant's case are limited to the use of molten glass as a starting material.

Appellant Siu submitted to the Board, under the provisions of 35 U. S. C. § 253, a formal disclaimer of any part of his patent "as would extend beyond the expiration date of [the Ladisch Patent] No. 2,571,457 on October 16, 1958."

The Primary Examiner rejected the claims as failing to define invention over Ladisch:

"... In rejecting the claims on this reference it was held that the broad concept for which Ladisch was allowed claims does not become patentable merely because it is applied to molten glass. This holding is founded upon the fact that it is common practice and well known that molten glass may be blown into filaments by a nozzle similar to the nozzle employed by the appellant and Ladisch. Evidence of this common practice is shown by the patent to Kennedy et al. and the British patent."

The Board of Appeals, having discussed the references and the involved method claimed by appellant, affirmed the rejection upon the same grounds as those stated by the Examiner. In addition, the Board separately rejected claim 1 on Kennedy et al. and Edwards. [1] It also considered the effect of the disclaimer entered by appellant, which disclaimer had not been presented before the Examiner. On that point the Board properly observed:

"... It is apparently appellant's view that a disclaimer of the character presented would avoid one of the familiar evils of double patenting, that of extension of monopoly, and accordingly that the rejection based on the Ladisch patent should no longer be insisted on. The evils of double patenting where the two patents do not issue on the same date include that of extension of monopoly but this is not the only objection to double patenting. The pertinent statutes do not, in our

§ 253. Disclaimer.

In like manner any patentee or applicant may disclaim or dedicate to the public the entire term, or any terminal part of the term, of the patent granted or to be granted.

421



opinion, warrant the allowance of more than one patent for a single invention independently of the question of extension of monopoly. See *Underwood v. Gerber*, 1893 C. D. 340; 630 O. G. 1063; 149 U. S. 224. The essential issue here is one of whether or not the claims represent a distinct and patentable invention, and we are of the opinion that this question must be answered in the negative, particularly in view of the ancillary references Kennedy et al. and Edwards relied on by the Examiner. The papers referred to [defining the disclaimer] are accordingly without significance from the standpoint of the rejection under consideration, and their contents have not been studied.<sup>2</sup>

In the situation we have just described the Ladisch patent, which issued on an earlier filed application, may be properly cited as a reference against appellant's instant application. The only remaining question then, inasmuch as Ladisch admittedly discloses the method used by appellant, is whether it would require invention to apply the Ladisch method to the molten glass defined by the appealed claims.

The supplementary references cited by the Examiner both show that glass or other molten mineral compositions might be turned into fibers or "wool" by the action of blasts of gases blown at high velocity through nozzles conjointly with a flowing stream of the molten material. For purposes of the decision a more exhaustive consideration of the references is therefore deemed unnecessary.

Appellant does not assert that invention resides in

<sup>2</sup>The cited authorities in the case at bar appear to support the position of the Solicitor of the Patent Office:

\* \* \* section 253 was intended to remedy certain difficulties under the prior law encountered when an applicant, due to factors beyond his control, could not cause related applications to issue on the same day. \* \* \*

However, while the disclaimer has the effect of permitting less close scrutiny of the distinctions between claims issuing to an applicant in separate patents, it was not, and could not have been the legislative intent to permit indiscriminate issuance of numerous patents directed to mere colorable variations of the same idea. Nothing in the statute or its legislative history suggests abandonment of the settled rule of *Underwood v. Gerber*, 149 U. S. 224, forbidding more than one patent for what is obviously only one invention, whether or not the grants expire on the same day.

the discovery that glass may be fiberized by air or steam blasts. The import of his argument is that resin technology and glass technology are non-analogous arts, and that invention is involved in applying a method used with resin to one used with glass. On that point we are not convinced that applying the Ladisch method for use with resin to one for similar use with glass would be beyond the scope of one skilled in the art. The very statements made by appellant before the Board of Appeals negative any such holding.

\* \* \* The physical behavior of glass and resins is similar in some respects, but dissimilar in most respects. Whether glass would behave like a resin in a basically new melt-spinning process found workable for resins was a priori unpredictable, and it was a source of gratification and pleasant surprise \* \* \* that the process did work with glass. [Emphasis added.]

The statement quoted above refutes the contention that it would be unobvious to one skilled in the art to try the Ladisch patent with glass as a starting material.

Before this court appellant relies upon the case of *Plaz Corp. v. Elmer E. Mills Corp.*, 106 F. Supp. 399, which case was later affirmed in part and reversed in part (C. C. A. 7) 204 F.2d 302. There several patents for blowing "hollowware," consisting of bottles, from certain resinous materials were challenged as invalid in view, among others, of prior patents in the glass bottle industry.

A critical analysis of that decision establishes it has no controlling effect whatever on the case at bar. Moreover, we have likewise directed our attention to each and every aspect of the Board's decision and have found no error therein. [2] We therefore affirm the Board's decision without further and unnecessary comment.

AFFIRMED.

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,173,842, W. L. Horner, Extraction method; 2,282,654, same, Apparatus for determining fluid contents of solids; 2,296,852, same, Earth exploration; 2,327,642, same, Method and apparatus for measuring porosity of solids; 2,345,535, same, Method of determining porosity; 2,225,248, Lewis and Horner, Earth exploration; 2,348,985, J. A. Lewis, Method for determining permeability, filed Mar. 4, 1954, D. C., S. D. Tex. (Houston), Doc. 8066, *United Core, Inc. v. Core Laboratories, Inc.* Consent Decree; Patent 2,327,642 held valid and infringed by plaintiff; complaint and counterclaim dismissed without prejudice May 19, 1955.

2,225,248. (See 2,173,842.)

2,231,204, A. J. Turner, Baseball glove, appeal filed May 26, 1955, C. C. A., 2nd Cir., Doc. 23671, *Wilson Athletic Goods Mfg. Co. Inc. v. Kennedy Sporting Goods Mfg. Co. Inc. et al.*

2,238,465, G. F. French, Ladder web; 2,287,519, same, Multiple warp ladder web, filed Aug. 4, 1953, D. C., W. D. S. C. (Greenville), Doc. 1466, *George Frederick French et al. v. Anderson Narrow Fabric et al.* Consent Judgment; patents held valid; defendants enjoined (notice May 27, 1955).

2,282,654. (See 2,173,842.)

2,287,519. (See 2,238,465.)

2,296,852. (See 2,173,842.)

2,327,642. (See 2,173,842.)

2,345,535. (See 2,173,842.)

2,348,985. (See 2,173,842.)

2,538,925, J. J. Steffan, Door jamb; 2,661,084, J. A. Steffan et al., Executors of J. J. Steffan, deceased, Doorframe, filed Apr. 13, 1954, D. C., E. D. Mo. (St. Louis), Doc. 9734(2), *Julius A. Steffan et al., Executors of the Estate of Joseph J. Steffan v. Len A. Maune Co. et al.* Claim 2 of Patent 2,538,925 held not infringed; claim 4 of Patent 2,661,084 held invalid; complaint dismissed May 24, 1955.

2,593,162. (See 2,703,915.)

2,597,654. (See 2,703,915.)

2,623,368, Des. 165,778, E. F. Olsen, Spillproof glass, appeal filed May 31, 1955, C. C. A., 2nd Cir., Doc. 23673, *Edward F. Olsen v. Baby World Co., Inc.*

2,643,024, R. B. Cronheim, Vented cover for cooking vessels, filed Nov. 4, 1953, D. C., W. D. S. C. (Greenville), Doc. 1531, *Spatler Prufe, Inc. et al. v. Freeman-Babb Hardware Co.* Consent Judgment Apr. 21, 1954.

2,661,084. (See 2,538,925.)

2,677,971, H. B. Greenwood, Angular adjustment device; 2,705,143, same, Skip-feed mechanism, filed June 1, 1955, D. C. Md. (Baltimore), Doc. 8283, *Henry B. Greenwood v. Flynn & Emrich Co.*

2,686,835, M. S. Gottlieb, Telephone and similar communication systems, filed Oct. 1, 1954, D. C., W. D. S. C. (Greenville), Doc. 1671, *J. V. Zimmerman Co. v. Belk Simpson Co.* Consent order of dismissal with prejudice Mar. 7, 1955.

2,693,926, J. Tatko, Pallet, platform, etc., filed May 31, 1955, D. C. N. J. (Newark), Doc. 490/55, *Tatko Brothers Slate Co., Inc. v. Bergen Bluestone Co., Inc.*

2,697,221. (See 2,703,915.)

2,703,915, L. Markin, Hook-stay assembly for fabric fastening; 2,593,162, same, Eye-stay assembly for fabric fastening; 2,597,654, same, Fabrication of garment fastening element; 2,697,221, E. M. Brayton, Fastener setting attachment, suit

for Declaratory Judgment filed May 16, 1955, D. C., E. D. Pa. (Philadelphia), Doc. 19003, *Oro Fastener Corp. v. Hook-Flex Corp.*

2,705,143. (See 2,677,971.)

Des. 165,778. (See 2,623,368.)



## REISSUES

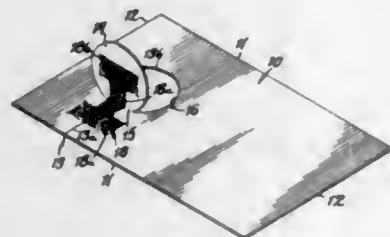
JULY 26, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

24,043

### DISPOSABLE BIB

Ethel D. Barager, Buffalo, N. Y., assignor of fifty per cent to Clifford M. Carter, Arlington, Va.  
Original No. 2,617,104, dated November 11, 1952, Serial No. 98,514, June 11, 1949. Application for reissue August 6, 1953, Serial No. 372,824  
4 Claims. (Cl. 2-49)

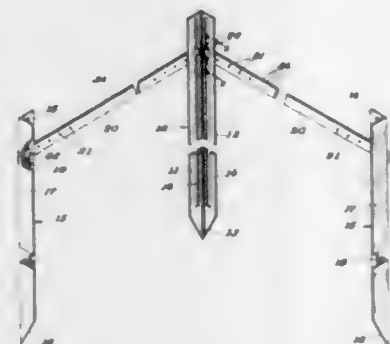


2. A disposable bib comprising a body sheet, a first slit extending inwardly from one edge of said sheet, a second slit of substantially arcuate configuration constituting a continuation of said first slit and ending short of said first slit to provide a neck opening in said body sheet, a tab defined by said second slit and having a portion thereof disposed on each side of the end of said first slit, a neck portion joining said tab to said body sheet at the end of said second slit, said tab being foldable at said neck portion to position said tab in bridging relation to said first slit, and an adhesive on the portion of the tab disposed on the side of the first slit opposite the side integral with said neck portion, said adhesive adapted to secure said tab to said body sheet in bridging relation to said first slit.

24,044

### BATTER BOARD

William R. Breuninger, Malvern, Pa.  
Original No. 2,562,597, dated July 31, 1951, Serial No. 158,717, April 28, 1950. Application for reissue July 17, 1953, Serial No. 368,849  
4 Claims. (Cl. 33-86)



1. A structure for use in the erection of corner supports for building foundations comprising a corner post of right angular configuration in cross section and having connected webs, said corner post having a lower end adapted to be driven into the ground with the webs parallel to [defining the juncture of] a pair of the intersecting side lines of the foundation, end posts adapted to be vertically driven into the ground [parallel with] and spaced from each web, one end post being in alignment

with one web of the corner post and the other post being in alignment with the other web [disposed along one side line in alignment with the corresponding web of the corner post and the other end post being disposed along the other side line of the foundation and in alignment with the other web] batter boards disposed in horizontal planes and connecting the end posts with the [aligned] webs of the corner post, said batter boards being vertically adjustable for disposition in various common horizontal planes and having means formed in predetermined fashion on their upper edges for the reception of lines which intersect at an angle diametrically opposed to the angular juncture of the webs and which form with the webs a square corner.

24,045

### DENTAL PROSTHESIS

Gustav Sven Adolf Dahl and Sven Bertil Almer, Stockholm, Sweden  
Original No. 2,672,687, dated March 23, 1954, Serial No. 126,766, November 12, 1949. Application for reissue January 24, 1955, Serial No. 483,857  
9 Claims. (Cl. 32-10)



1. A detail prosthesis, comprising, in combination, an elongated tooth member of artificial resin having a front face and a rear face; a cut-out arranged in said rear face of said elongated tooth member and having a top and bottom face being spaced apart from the top and bottom edges, respectively, of said elongated tooth member and a lateral engagement face provided with at least two elongated recesses therein arranged substantially normally to said lateral engagement face of said cut-out and extending parallel to the axis of said elongated tooth member substantially from the top of the bottom face of said cut-out; a supporting metal body including a backing portion fitting into said cut-out of said elongated tooth member and having a top and bottom edge and a frontal engagement face located between said edges and engaging said lateral engagement face of said cut-out; at least two projecting lamellae on said frontal engagement face of said backing portion projecting substantially normally to said frontal engagement face, extending substantially from said top edge to said bottom edge of said backing portion and being shaped for entering said elongated recesses in said lateral engagement face of said cut-out whereby said backing portion of said supporting body and said lamellae thereon can be brought to engagement with said cut-out and elongated recesses, respectively, of said elongated tooth member only by a motion thereof being substantially normal to said engagement faces of said elongated tooth member and said backing portion; and binder means retaining said backing portion and said lamellae thereon in said cut-out and elongated recesses, respectively, of said elongated tooth member.

JULY 26, 1955

U. S. PATENT OFFICE

425

24,046

### SWITCH MOUNTING

Edward Nathan, New York, N. Y., assignor, by mesne assignments, to Lectra Products Company, New York, N. Y.  
Original No. 2,651,281, dated September 8, 1953, Serial No. 12,110, February 28, 1948. Application for reissue July 29, 1954, Serial No. 446,693  
10 Claims. (Cl. 116-133)



1. An instrument mounting and control device for an instrument comprising a shank having a portion of non-circular cross section, a knob body having a central recess non-rotatably slidable over the non-circular portion of

the shank, a shell carried by said knob having an indicia thereon and rotatable relative to said knob, a threaded

member carried by said shell and forcibly rotatable relative to said shell, and means for rotating said threaded member and said shell in unison.

## PLANT PATENTS

GRANTED JULY 26, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,407

### ROSE PLANT

Jan Spek, Boskoop, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York  
Application November 1, 1954, Serial No. 466,244  
1 Claim. (Cl. 47-61)

A new and distinct variety of rose plant of the miniature class, substantially as herein shown and described, characterized particularly as to novelty by the retention of its low plant growth throughout its entire life, its clean foliage and the retention thereof throughout the growing season, its very free-blooming habit, and the distinctive color of its flowers which in the bud stage are tinged Pale Flesh color, but in the open flower stage are very White.

ture class, substantially as herein shown and described, characterized particularly as to novelty by the retention of its low plant growth throughout its entire life, its clean foliage and the retention thereof throughout the growing season, its very free-blooming habit, and the distinctive color of its flowers which in the bud stage are tinged Pale Flesh color, but in the open flower stage are very White.



# PATENTS

GRANTED JULY 26, 1955

## GENERAL AND MECHANICAL

2,713,683  
BRASSIERES

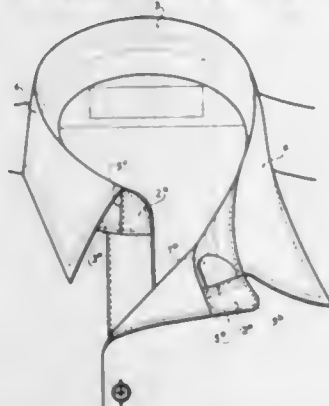
Larry L. Krieger, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware  
Application September 29, 1953, Serial No. 383,011  
8 Claims. (Cl. 2-42)



1. In a brassiere comprising a front portion having connected breast cups having generally vertical outer side edges, a back portion having dorsal band means adapted to extend across the back of the wearer, and shoulder straps attached to said cups and to said dorsal band means, the combination therewith of elastic side portions constituting the sole connections between said front and back portions, each of which side portions is adjacent the outer side of a breast cup and comprises a diagonally elastic side member, the rearward edge of which is connected to said dorsal band means and the forward edge of which is attached to solely the adjacent breast cup along at least the major portion of the generally vertical outer side edge of said breast cup, said diagonally elastic member being adapted to extend over and mold the pectoral muscle of the wearer, and a horizontally elastic side panel attached at its forward edge to the lower portion of said generally vertical outer side edge of the adjacent breast cup and connected at its rearward edge to said dorsal band and adapted to lie in the region below the armpit of the wearer, said diagonally elastic member being separate from and lying over said horizontally elastic member.

2,713,684

NONAPPARENT CLOSING MEANS FOR LINEN  
Saturnino Yeboles, Toulouse, France  
Application December 6, 1951, Serial No. 260,263  
Claims priority, application France January 24, 1951  
1 Claim. (Cl. 2-116)



In combination with a shirt or the like collar having cooperating overlapping front ends, an arrangement for the detachable connection of the cooperating overlapping front ends of the collar comprising two pockets extending respectively on the inner side of the front end which is to lie above the other front end and on the outer side of

the said other front end, each pocket opening in a direction opposed to the free end of the corresponding collar end, the extent of overlapping of the collar ends when closed being such that the openings of the two pockets face each other, at least one of the pockets assuming a shape tapering inwardly with reference to its opening, and a flat plate of plastic material inserted in the two pockets, the outline of the plate matching the inner outlines of the corresponding pockets, the outer edges of the pocket openings lying in substantial register when the collar is closed.

2,713,685

GARMENT CONSTRUCTION  
Samuel Nachem, Yonkers, N. Y.

Application November 21, 1952, Serial No. 321,876  
3 Claims. (Cl. 2-243)



1. An adjustable hem construction for a liningless garment comprising an outside covering fabric folded inwardly and upwardly at the bottom to produce an outer fold, the inwardly and upwardly extending portion of said outer fold being itself folded at a predetermined point downwardly toward said covering fabric to produce an inner fold within said outer fold, that portion of said inner fold which is adjacent said covering fabric extending upwardly above said outer fold and above said predetermined point and attached to said outside covering fabric by a line of stitching, and spaced parallel rows of stitching positioned below and parallel to said line of stitching, said parallel rows of stitching connecting together solely the sides of said inner fold, said inner and outer folds and said covering fabric being a continuous piece of the same fabric.

2,713,686

PIPED OR BOUND BUTTONHOLES IN GARMENTS  
AND METHOD OF MAKING THE SAME  
Harold Oster, University Heights, and Joseph A. Marconi, Warrensville Heights, Ohio  
Application January 7, 1953, Serial No. 330,056  
8 Claims. (Cl. 2-266)



1. In a method of making bound buttonholes in a garment having a front and a facing secured to said front adjacent the marginal edge of the latter, said method comprising the steps of simultaneously marking the location of the buttonholes in said front and facing, securing buttonhole edging patches to the inside face of said facing

JULY 26, 1955

GENERAL AND MECHANICAL

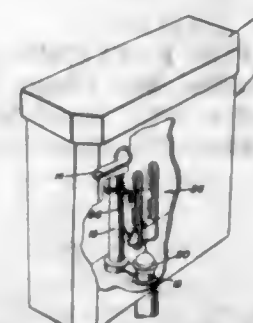
427

over the buttonhole markings, said patches having an adhesive on the face thereof in contact with said facing, securing buttonhole edging tapes to the outside face of the front over the buttonhole markings, forming buttonhole slits in said patches and facing, forming buttonhole slits in said front, turning said patches through the slits in the patches and facing, flattening said patches out in a manner to present said adhesive faces away from the facing, turning said tapes through the slits in the front and folding the tapes beyond said slits to provide portions which form an edging for said slits in the front, laying the facing over the inside face of the front in a manner to bring said adhesive faces into juxtaposition with portions of the edging tapes which have been turned through the slits in the front, and causing said adhesive faces to adhere to said portions.

2,713,687

FLUSH TANK BALL GUIDE

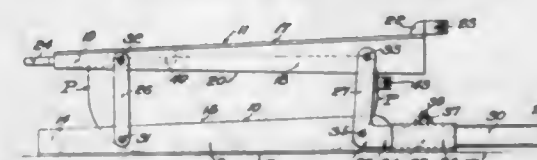
Curtis L. Bill and Michael J. Dougherty, Alliance, Nebr.  
Application June 29, 1953, Serial No. 364,832  
1 Claim. (Cl. 4-57)



In a flush tank having an outlet opening, an overflow pipe and a ball valve including a stem, said ball valve being movable into and out of seating relation to said outlet opening, a guide secured to said overflow pipe, and means on said stem received in said guide for maintaining said ball in centered relation to the outlet opening, said guide including a pair of spaced vertical guide members having opposed parallel surfaces and elongated vertical slots, said means comprising a block disposed between said guide members and having parallel end faces engaging said opposed parallel faces of the guide members, said block also having vertically elongated ear portions projecting from said end faces through the slots and beyond the guide members, said ear portions being of a thickness corresponding to the width of said slots, one of said ear portions having an aperture therein for connecting a lift chain thereto.

2,713,688

PATIENT LIFTER AND BEDPAN HOLDER  
Clarence Verne Johnson, Yates Center, Kans.  
Application January 21, 1953, Serial No. 332,389  
4 Claims. (Cl. 4-112)



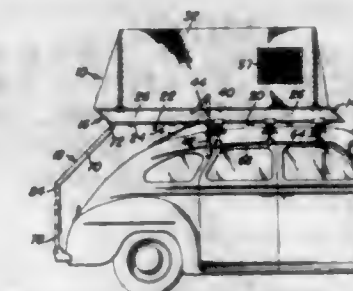
1. A patient lifting and bedpan holding device to be slid under the buttocks of a patient from his side, comprising a substantially rectangular lower member to support a bedpan and a substantially rectangular apertured upper member connected thereto by linkage means which causes the upper member to move from a lowered position in which it rests on the lower member and has its top inclined downwardly and forwardly, to enable the front end of the device to be slid under the buttocks of a patient from his side, to an elevated position in which its top is substantially parallel with the bottom of the lower

member, to enable a bedpan to be slid into the rear of the device in a direction sideways of the patient, said linkage means comprising laterally opposed front links connecting the forward portions of the two members at opposite sides of the latter, laterally opposed rear links connecting the rearward portions of the two members at opposite sides of the latter, the pivots which connect the front and rear links to the upper member being spaced further apart than the pivots which connect the front and rear links to the lower member, and the length of the front links being greater than the length of the rear links, to cause the upper pivots of the rear links to pass the dead center of the lower pivots of the rear links when the upper member is elevated to retain the latter in its elevated position, each of said rear links forming one arm of a bellcrank, the other arm of which is short and disposed parallel with the bottom of the lower member when the upper member is elevated, a substantially U-shaped operating handle having two parallel arms projecting from a hand bar which extends transversely of the rear of the device and is disposed to one side of a patient using the device, a detachable connection between the arms of said handle and the short arms of said bellcranks, and means for locking the upper member in its elevated position, said means including an element carried by the lower member and movable over the short arm of one of said bellcranks when the last mentioned short arm is disposed substantially parallel with the bottom of the lower member.

2,713,689

VAGABOND TRAVELER

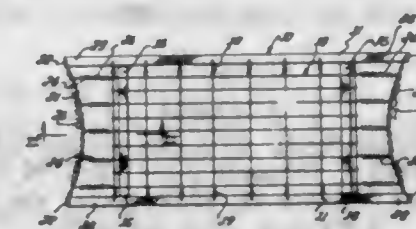
Edgar M. Godwin, Sr., Fallon, Nev.  
Application December 4, 1950, Serial No. 198,962  
5 Claims. (Cl. 5-119)



1. A collapsible automobile sleeping assembly comprising a foldable platform, said platform having front and rear sections hingedly connected, means for mounting said front section upon the top of an automobile, a ladder connected to said rear section of said platform, means for clamping said ladder to the bumper of an automobile to support the rear section of said platform, said rear section overlying said top, a crankshaft journaled on one section, crank arms fixed to said crankshaft, connecting links pivotally connected to said crank arms and to the other section, a handle for rocking said crankshaft.

2,713,690

BED OR DIVAN SPRING ARRANGEMENT  
Charles Schneider, Los Angeles, Calif.  
Application May 12, 1952, Serial No. 287,285  
7 Claims. (Cl. 5-188)

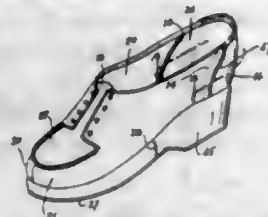


3. In a spring structure for articles of furniture a combination of: a frame comprising a pair of spaced



rigid parallel side rails lying in a horizontal plane, means connecting said side rails below said plane; a flexible fabric means stretched transversely between the side rails by resilient means connecting side edges of the fabric means to the side rails; a horizontally and vertically yieldable means at each end of the frame and connected to opposed ends of the side rails; said yieldable means having a length greater than the spacing between opposed ends of the side rails; and a plurality of transversely spaced spring means extending between and connecting at intermediate points said yieldable means and the adjacent end of the fabric means for imparting to the yieldable means the form of a catenary curve.

**2,713,691**  
**METHOD OF MAKING A SLIP-LASTED SHOE**  
Jack Meltzer, Los Angeles, Calif.  
Application March 11, 1953, Serial No. 341,713  
9 Claims. (Cl. 12-142)



1. In the manufacture of a slip-lasted shoe whose upper is stiffened in the rear region, the steps which consist in providing an upper of stitched-together sections which include a rear section and two side sections, said side sections exteriorly overlapping the rear section so as to define rearwardly opening pockets, and applying a heel counter to the exterior of said rear section with the opposite ends of the counter projecting forwardly into said pockets.

**2,713,692**  
**METHOD OF MAKING AN INSOLE HAVING A SINGLE TAPE SEWING RIB**  
Victor A. Sherbrook, Upton, Mass.  
Application May 19, 1952, Serial No. 288,690  
1 Claim. (Cl. 12-146)

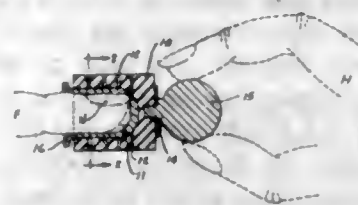


The method of making a ribbed insole comprising providing an insole, providing a longitudinal tape folded along longitudinal lines to form a flat attaching surface and a U-shaped rib portion, the opposite edge of the tape from the attaching surface being extended within the U-shaped rib portion and cemented to the sides thereof, simultaneously cementing the flat attaching surface to the insole and sewing the tape thereto by a seam extending only through the outermost fold of the rib portion whereby the tape is raised to upper attaching position by the tension of the stitches and is securely held to the insole by both the cemented union and the sewed seam.

**2,713,693**  
**FINGER-NAIL POLISH REMOVER**  
Arnold E. Johnson, New York, N. Y.  
Application October 21, 1949, Serial No. 122,760  
3 Claims. (Cl. 15-97)

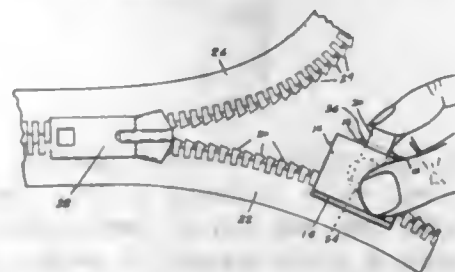
1. A device of the class described comprising an applicator forming a finger-receiving chamber having

side walls and an inner closed end and adapted to closely surround the end of a human finger to a point below the root of the nail thereon, said chamber having an inner wall, the inner wall being provided with friction producing surfaces comprising radially spaced cavities about the inner surface of said inner wall; a renewable sheet lining overlying said inner wall of said chamber and se-



cured therein by engagement with the surfaces therein, said sheet engaging said surfaces at various points over a substantial surface of said sheet and leaving the latter free at its edges, said edges extending outwardly from said chamber; and means including a handle secured to said applicator and projecting freely therefrom for oscillating same about the longitudinal axis of said chamber.

**2,713,694**  
**LUBRICATORS FOR FASTENING DEVICES**  
Lewis E. Soldan, San Diego, Calif.  
Application April 4, 1951, Serial No. 219,162  
10 Claims. (Cl. 15-210)



10. A lubricator, for the active surfaces of the aligned teeth of readily separable fasteners which are selectively engageable with and disengageable from the complementary teeth of said fasteners, that comprises a generally U-shaped frame with spaced arms and an open end, a lubricant-impregnated surface rotatably mounted on said frame and disposed between said arms and in register with said open end, said lubricant-impregnated surface being cylindrical in configuration to roll along the active surfaces of said teeth and lubricate them while said arms isolate said lubricant-impregnated surface from the material to which said fasteners are secured.

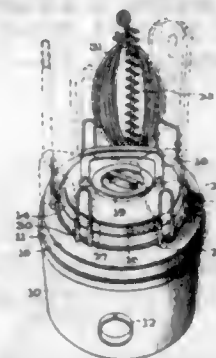
**2,713,695**  
**WINDSHIELD WIPER**  
John R. Oishe, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.  
Application December 6, 1949, Serial No. 131,367  
11 Claims. (Cl. 15-245)



1. A windshield wiper comprising an elongate squeegee element having a wiping edge, a holder for the element providing backing support for the edge, and an elongate pressure distributing frame having arm attaching means

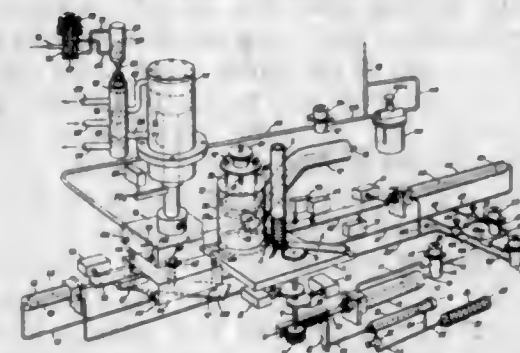
intermediate its length, said holder having on one end an extensible end section, said frame having an extensible end section connected to the holder section and adjustable therewith as a unit to alter the overall length of the wiper, a connection between the opposite end of the frame and the holder, and means securing one end section in its adjusted position and acting therethrough to hold the other section in a given position.

**2,713,696**  
**TOOL HOLDER FOR VACUUM CLEANERS**  
John A. Gorham, Santa Barbara, Calif.  
Application October 22, 1952, Serial No. 316,187  
3 Claims. (Cl. 15-257)



2. A tool holding attachment for tank type vacuum cleaners having an outer casing comprising a unitary removable base member in the form of an endless band adapted to be positioned on said casing, a plurality of tool supporting members affixed to said base member in spaced relation with one another and arranged to extend in one direction from said base member, said tool supporting members being of varying size and configuration for receiving various types of tools, said tool supporting members having a resilient covering thereon for individually gripping and retaining under resilient tension various types of tools, and means on said base member for retaining said base member on said casing under resilient tension.

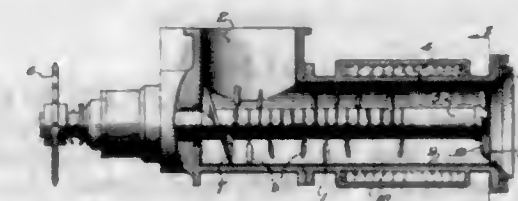
**2,713,697**  
**MOLDING MACHINE**  
Thomas N. Willcox, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York  
Application July 27, 1949, Serial No. 107,098  
7 Claims. (Cl. 18-5)



1. A molding machine for thermosetting plastic materials comprising means for holding a plurality of preforms of such a material in a substantially vertical stacked relationship, a high frequency preheating chamber having walls made of an electrically conducting material, said walls including one substantially horizontal wall forming a floor for said chamber, a pneumatically operated pusher to engage the lowermost of said preforms and move it into said preheating chamber by sliding it on to said floor, means for producing standing electromagnetic waves in said preheating chamber for a predetermined interval whereby said preform is heated, a heated mold, a second pneumatically operated pusher to engage said preform after it has been heated in said preheating chamber and transfer it to said

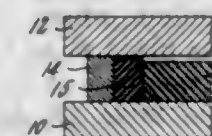
mold by sliding it along said floor, pneumatically operated positioning means for accurately positioning said preform in said mold, a heated hydraulic ram for applying pressure to the preform in the mold for a predetermined interval whereby said preform is formed into a part having substantially the same shape as the mold, the molded part being cured and hardened by the heat of the mold and ram and the continuing pressure during said interval, means for ejecting the finished part from said mold, and means for removing said part from the machine.

**2,713,698**  
**WET POLYMER EXTRUDER**  
Spencer Danby, Jr., James H. Ellett, Algernon P. Guess, and Thurman V. Williams, Jr., Camden, S. C., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware  
Application June 28, 1951, Serial No. 234,076  
3 Claims. (Cl. 18-12)



1. In an extruder having a die plate, an auger shaft having at its extrusion end a plurality of rotating wiper blades in wiping contact relationship with said die plate, said blades being covered with a water-repellent, resilient polymeric material so that the resultant blades conform to the contour of the said plate throughout said wiping contact.

**2,713,699**  
**METHOD OF MOLDING LIGHTWEIGHT CLOSED CELL MATERIAL**  
Robert W. Pooley, South Bend, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey  
Application October 8, 1952, Serial No. 313,752  
3 Claims. (Cl. 18-53)



1. The method of making a molded lightweight closed cell material in a high pressure mold having a bottom wall, side walls and a removable top wall, and having a thick elastic gasket therein covering the side walls and resting on the bottom wall, which comprises placing in the mold sufficient thermoplastic stock containing a blowing agent to nearly fill the mold, closing the mold under high pressure, supporting the top wall of the mold spaced sufficiently from the gasket to permit leakage between the top wall and the gasket, and heating the mold to blow the stock therein, whereby the air and gas in the mold will escape over the gasket and through the mold seams until the gasket is expanded vertically by the lateral pressure of the blowing stock thereagainst and seals the mold to build up high pressure therein as the blowing agent produces more gas.

**2,713,700**  
**METHOD OF PRODUCING SEALED CAPACITORS**  
John H. Fisher, Scotch Plains, N. J., assignor to Astron Corporation, East Newark, N. J., a corporation of New Jersey  
Application September 17, 1952, Serial No. 310,079  
4 Claims. (Cl. 18-59)

1. In a method of producing a sealed capacitor consisting of a condenser body enclosed within a plastic



casing and provided with connectors projecting out through said casing: the steps which consist in molding a plastic material about a condenser body to encase it completely except for annular openings surrounding said connectors, said plastic material being chosen without regard to its temperature coefficient of expansion and primarily for its ability to set relatively quickly and to



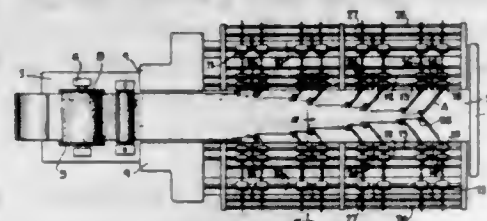
be molded under relatively low pressures uninjurious to the condenser body, then subjecting the encased body, through said openings, to a drying treatment and to impregnation with a dielectric, and finally plugging said openings with a plastic material having a relatively low temperature coefficient of expansion and adapted to set without applied pressure and to adhere well to the first plastic material and to said connectors.

2,713,701

### DEVICE FOR PRODUCING LAPS FROM CARD SLIVERS ON SLIVER-LAP MACHINES

Rudolf Wildbolz and Emil Bachmann, Winterthur, Switzerland, assignors to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland, a corporation of Switzerland

Application May 21, 1951, Serial No. 227,294  
Claims priority, application Switzerland May 27, 1950  
3 Claims. (Cl. 19—157)



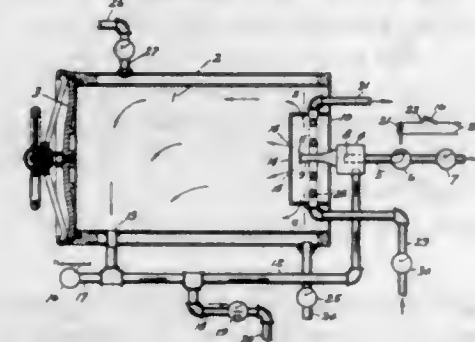
1. A sliver-lap machine for lapping a plurality of slivers, comprising a feed table having a horizontal top surface and two opposed longitudinal sides, a drawing frame placed on each of said sides and having feed rollers and drawing rollers whose upper surfaces are substantially in the same plane as said top surface, calender rollers disposed at one end of said table, and guide means disposed on said table for horizontally guiding the slivers coming from said drawing frames to move in parallel relation toward said calender rollers.

2,713,702

### LOW-TEMPERATURE AUTOCLAVES

Raymond L. Jewell, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania

Application April 17, 1953, Serial No. 349,489  
6 Claims. (Cl. 21—98)



3. An autoclave for producing a mixture of air and steam having a pressure substantially atmospheric and temperature lower than the steam temperature corresponding to the autoclave pressure comprising a chamber, a steam jet aspirator discharging into the chamber, a

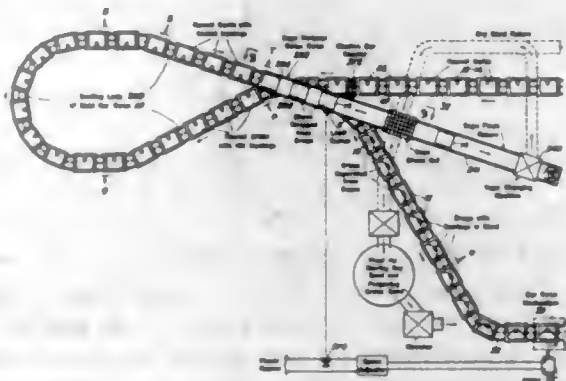
super-atmospheric pressure steam line discharging into the aspirator, a return line from the chamber to the aspirator, a drain from the chamber to atmosphere, a condenser cooling the chamber to create a demand for steam, a thermostat responsive to the chamber temperature, a valve in the steam line controlled by the thermostat shutting off the flow of steam to the aspirator as the thermostat is satisfied and opening the valve when the thermostat calls for heat.

2,713,703

### COPE STRIPPER AND COOLING LOOP FOR MOLD ASSEMBLING MECHANISM

John A. Lasater and Thomas A. Deakins, Chattanooga, Tenn., assignors to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware

Application June 20, 1951, Serial No. 232,524  
7 Claims. (Cl. 22—1)



7. In a foundry installation the combination of a central mold assembling machine having a cope station where prepared copes are successively introduced thereinto and assembled with prepared drags, a moving continuous conveyor encircling said machine and at a predetermined point receiving assembled molds from said machine, said molds including a drag carrying on its top a vertically removable cope, said conveyor at a location a predetermined distance after said predetermined point being elevated so that the copes of the molds disposed thereon are higher than said cope station, said conveyor sloping downwardly immediately after said location, conveyor means extending from a point immediately above said location downwardly to said cope station, said conveyor means being divided into two lengths separated by a cope shakeout means and being constructed and arranged to engage said copes as the molds move along the inclined portion of said conveyor and vertically separate the copes from the drags, said conveyor means being sufficiently inclined downwardly in the forward direction and so constructed that said copes move therealong by gravity, said cope shakeout means including a vibrating screen inclined in the direction of inclination of said conveyor means sufficiently for gravity movement of the copes therealong with said screen being disposed with relation to said conveyor means so the copes move from the conveyor means onto the screen and from the screen onto the conveyor means by gravity.

2,713,704

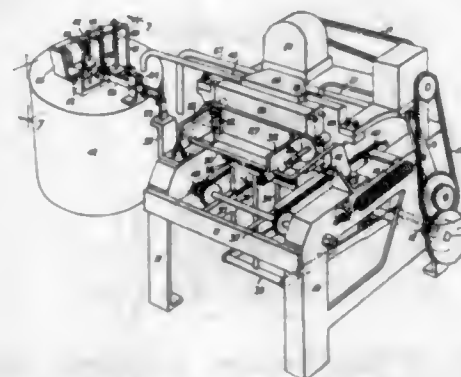
### BATTERY PLATE GRID MOULDING MACHINES

James Spencer Pincott, Lidcombe, near Sydney, New South Wales, Australia

Application October 8, 1951, Serial No. 250,319  
Claims priority, application Australia November 2, 1950  
4 Claims. (Cl. 22—57)

1. In a plate grid moulding machine having a mould with an inlet, means to open and close the mould, a crucible for molten metal connected by a conduit to said mould inlet, pump means mounted in the crucible to feed molten metal through said conduit to the mould, com-

prising, a barrel, a plunger in the barrel, a pump chamber open to said barrel and having an inlet from a molten metal supply and an outlet in connection with said conduit feed to the mould, valves adapted to seat on said inlet and outlet, a solenoid operatively connected to said inlet valve, means actuated by the movement of the mould



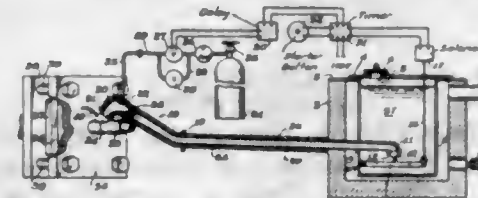
to energize said solenoid to hold said inlet valve open and stop the flow of metal to the mould in the event of an obstruction preventing the mould closing, and means synchronized with the mould actuating means to actuate said plunger and means to eject a plate grid formed in the mould.

2,713,705

### APPARATUS FOR DELIVERING METERED SHOTS OF MOLTEN METAL FOR CASTINGS

John Lapin, Bay City, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application July 30, 1952, Serial No. 301,698  
1 Claim. (Cl. 22—79)



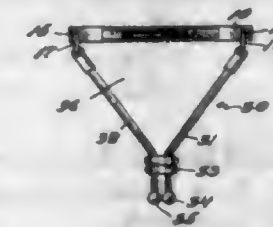
In a device for delivering accurately metered shots of molten metal from a supply thereof to a casting apparatus the combination which comprises a vessel for holding a supply of the molten metal, said vessel having an outlet above the bottom thereof; a first valve in the vessel on the said outlet; lever means connected to the said first valve adapted to start and stop the flow of molten metal from inside the vessel through the said outlet to meter the shots; a conduit having one end below the level of the molten metal in the vessel, said conduit being connected to the said outlet; a trap on the other end of the conduit for maintaining the conduit filled with molten metal when the said first valve is closed, said trap having a downwardly directed discharge opening, said conduit, trap and opening forming a continuous passageway for conveying molten metal from said outlet to the said opening; a pipe connected to the upper side of the said passageway near the discharge opening thereof for conveying an inert gas from a gas source and delivering it to a point in the passageway between the trap and the discharge opening; a second valve, said second valve being in the said pipe and adapted to be quickly opened and closed; a by-pass for by-passing gas around the said second valve; a third valve, said third valve being in the by-pass and adapted to regulate the gas flow rate in the by-pass; a timer associated with the said first valve adapted to control the length of time the said first valve remains open; a delay means associated with the timer and said second valve adapted to momentarily open said second valve shortly after the said first valve closes.

2,713,706

### NECKTIE HOLDER

Leon J. Blagi, Rumford, R. I., assignor to Swank, Inc., a corporation of Delaware

Application September 21, 1954, Serial No. 457,381  
3 Claims. (Cl. 24—49)



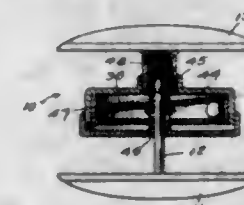
3. A necktie holder comprising a rigid bar of a length substantially the width of a necktie, means to clamp the bar to a shirt, flexible means attached to said bar at points a fixed distance apart and adjacent the ends of the bar with two portions extending from the bar and terminating in free ends, slide means having portions frictionally embracing said two portions of the flexible means intermediate each free end and the point of attachment to said bar to provide with said bar a loop for encircling said necktie, said slide means being movable along said flexible means for adjustment of the necktie encircling loop.

2,713,707

### CUFF BUTTON

Rene W. Libby, Cranston, R. I., assignor to King Cuff Pin, Inc., a corporation of Rhode Island

Application August 21, 1953, Serial No. 375,647  
2 Claims. (Cl. 24—110)



1. A separable cuff link, comprising an ornamental head with a projecting pin, and a second ornamental head having a socket device mounted thereon for releasably gripping the pin, said socket device including a cylindrical hub, an annular housing depending from and in axial alignment with the hub, a disk freely movable in said housing, a thimble in the hub spring pressed to press engage the disk, a tilting element in said housing adapted to tilt the disk when it is pressed down by the thimble, and a cap having a central bearing slidably extending into a central opening in the housing and contacting the disk in opposed relation to the thimble, said cap bearing disk and thimble having aligned pin receiving openings, whereby insertion of the pin through the aligned openings and tilting of the disk by the spring pressed thimble locks the pin shank against the edges of the disk opening until movement of the cap towards the housing turns the disk to release the pin shank.

2,713,708

### SLIDE UNIT FOR CLOTHING

Carl E. Anderson, Manasquan, N. J., assignor to Eastern Tool & Mfg. Co., Belleville, N. J., a corporation of New Jersey

Application April 20, 1953, Serial No. 349,742  
2 Claims. (Cl. 24—198)

1. A slide unit for forming a loop on a length of clothing strap in automatically gripping and binding but manually adjustable position thereon, comprising an article having a flat base and provided with a pair of elongated, parallel apertures and with an outer edge forming, with said apertures, a unit of generally flattened "8" shape, and continuous rows of teeth in said article formed at the outer edges of said apertures and upwardly directed rela-



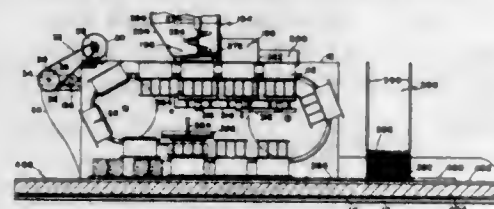
tive to the plane of said base at an acute angle thereto, the inner edges of said apertures being upwardly directed rela-



tive to the plane of said base and being so proportioned as to extend upwardly to a point substantially below the plane of the points of said teeth.

### 2,713,709 MACHINE FOR PROGRESSIVE MULTIPLE-STAGE MOLDING

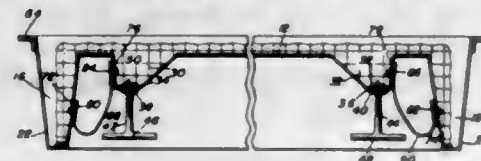
George E. Wright, Cardiff-by-the-Sea, Calif.  
Application October 25, 1952, Serial No. 316,896  
9 Claims. (Cl. 25-100)



2. A molding machine comprising a frame including vertical parallel spaced sides, mold-guiding tracks secured to and between said sides and defining a closed path therebetween, a train of separate molds slidably mounted end to end on said tracks, said tracks including an upper track, an interrupted lower track having a raised portion, curved end tracks connecting the ends of the upper track with one end of the lower track and the opposite end of the lower track raised portion, power means for sliding said molds along said tracks including power-driven mold-shifting wheels operatively mounted on said frame adjacent said curved end tracks, mold filling means mounted on the frame immediately above a portion of the upper track, lifting means for successively raising the molds from the lower portion of the lower track to the level of the raised portion thereof so that molded articles are ejected, said power means providing intermittent movement of the train of molds so that the molds are successively at rest for short periods during the filling thereof.

### 2,713,710 MOLD FOR CONCRETE STEP CONSTRUCTION

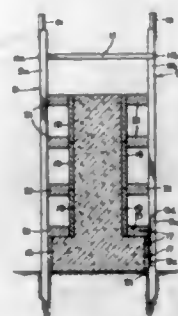
Victor L. Holland, Denham Springs, La.  
Application November 16, 1953, Serial No. 392,346  
5 Claims. (Cl. 25-118)



1. A mold for step construction comprising a rectangular casing, said casing having relatively deep recesses extending along three of the sides thereof, and a relatively shallow recess along the fourth side thereof, spaced wedge-shaped depressions parallel to each other and to two of said sides and normal to and intersecting one of said relatively deep recesses and said shallow recess, and means carried by said casing extending into said depressions for urging a casting out from said casing, a hole in said casing opening into one of said depressions opposed to a hole in one of said relatively deep recesses, resilient plugs seated in said holes, and a resilient spring member terminally secured to said plugs resiliently urging said plugs to seat in said holes.

### 2,713,711 CONCRETE FORM

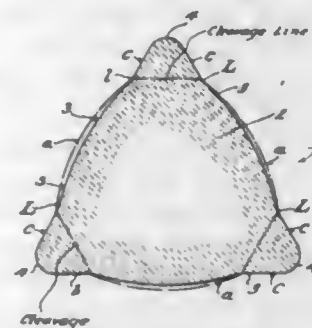
James J. Eandi, San Leandro, Calif.  
Application November 15, 1952, Serial No. 320,670  
5 Claims. (Cl. 25-131)



3. A device of the character described, comprising a pair of channel-shaped stakes adapted to be driven into the ground at a predetermined distance apart with their flanges extending outwardly, said stakes having nail shank openings therealong by which form elements adapted to be disposed between the stakes may be retained in a predetermined arrangement by driving nails through the nail shank openings into the form elements, each stake having an anvil on its upper end adapted to receive blows delivered to the stake during placement of the stakes in the ground, and a tie bar of rectangular cross section on the upper end of the stakes, located below the anvils, the ends of the tie bar being reversely bent to slidably engage one flange of each stake to adapt the tie bar to be slidably removed from or slidably placed onto the upper ends of the stakes, said anvils being spaced from said flanges, whereby the tie bar may be removed from or placed on said stakes past the anvils.

### 2,713,712 SAGGER PINS

Howard S. Orth, Clair R. Oberst, and William E. Cramer, Columbus, Ohio, assignors to Industrial Ceramic Products, Inc., Columbus, Ohio, a corporation of Ohio  
Application November 12, 1952, Serial No. 319,964  
2 Claims. (Cl. 25-153)

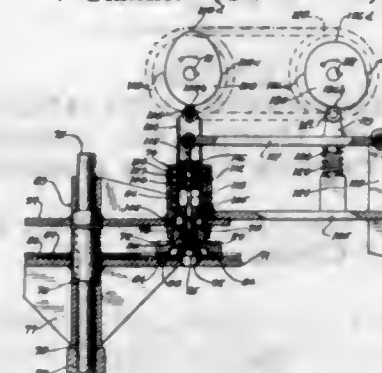


1. A sagger pin comprising an elongated ceramic body, the latter being generally triangular and of the same dimensions and configuration in transverse cross section throughout its full length, the triangular configuration of said body providing the same with coextensive duplicative sides, each of said sides presenting a smooth uninterrupted surface formation defining a substantially convex, longitudinally extending and centrally disposed region which terminates on opposite longitudinal sides thereof in coextensive, substantially flat, edge-forming surfaces, the junctions of said convex regions with said edge-forming surfaces producing on each side of said body a pair of spaced, parallel, longitudinal cleavage lines extending from one end of the pin to its other end, the convex region of each side being disposed so that it projects beyond a plane common to that of said edge-forming surfaces.

### 2,713,713 SLITTING AND ASSEMBLING A RUBBER VALVE IN A CAN TOP

Irl I. Tubbs, Mount Vernon, Iowa  
Original application May 2, 1949, Serial No. 90,898, now Patent No. 2,585,286, dated February 12, 1952. Divided and this application January 10, 1952, Serial No. 265,905

7 Claims. (Cl. 29-33)



1. A device for slitting a rubber valve axially and inserting the same longitudinally in an aperture in a closure of smaller cross-sectional area than said valve, comprising valve stretching means, including a member movable longitudinally relative to said closure to force a portion of said valve through said aperture, and blade guiding means; and a blade slidably mounted in said blade guiding means and movable longitudinally relative thereto to slit said valve axially thereof.

### 2,713,714 CUT-OFF TOOL BITS

David Thomas Krause, Liberty District, W. Va., assignor to Wheeling Machine Products Company, Wheeling, W. Va., a corporation of West Virginia  
Application November 14, 1952, Serial No. 320,521  
1 Claim. (Cl. 29-95)



A bit for use with automatic cut-off machines comprising an elongated bar having a relatively narrow lower edge surface, opposite side walls diverging upwardly from said lower edge surface and terminating in laterally opposed parallel edges in a plane parallel with said lower edge surface, said bar further comprising a forward end surface inclined upwardly and forwardly from said lower edge surface and terminating in said plane, said bar further comprising a surface in said plane in intersecting relation to said end surface and providing therewith a cutting edge extending from one of said laterally opposed edges to the other thereof, said bar further comprising an elongated integral portion above said plane of relatively small depth extending substantially the length of said bar and having parallel side edge walls spaced laterally inwardly from said laterally opposed edges, said portion terminating rearwardly of said cutting edge, and a concave wall on the forward end of said portion extending from the top thereof to said surface in said plane providing a chip breaker.

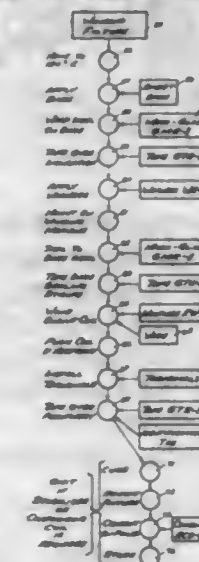
### 2,713,715 COIL MAKING METHOD

William C. Jenner, Robert S. Wick, and Charles R. Newpher, Cleveland, Ohio, assignors to The Reliance Electric and Engineering Company, a corporation of Ohio

Application May 27, 1952, Serial No. 290,244  
6 Claims. (Cl. 29-155.57)

1. The method of making a salient field coil for a field winding of a direct current dynamoelectric machine having a frame comprising, selecting a metallic form, heating said form to about 150 degrees centigrade, wrapping a

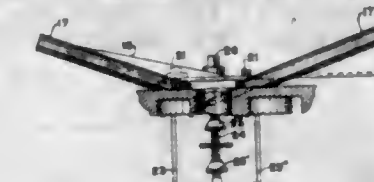
sheet steel base around said form, wrapping impregnated mica glass cloth around said sheet steel base, wrapping a layer of impregnated glass tape on said cloth, applying first and second washers of insulating material on each end of the form extending laterally from the form, said washers having applied to the inside surface thereof a resin cement, wrapping a layer of impregnated mica glass cloth as a seal at the joint of each of the washers and the glass tape, wrapping impregnated glass tape over the joint seal, winding a plurality of layers of insulated wire as a coil on the glass tape and substantially simultaneously adding a thermosetting resin to said wire, bending one of said



washers in a shape other than a single plane to conform to the shape of said frame, installing terminals on the ends of the wires in said coil, wrapping impregnated glass tape over the completed coil, said impregnated glass tape and impregnated mica glass cloth being impregnated with a thermoplastic resin and partially cured to a tacky yet flexible state, all of said thermosetting resins and cements being chemically compatible to be cured into an integrated mass, and curing the aforementioned coil and insulation layers and washers to make a completed coil structure as a solid mass with a substantially complete lack of dead air spaces therein.

### 2,713,716 METHOD OF REPAIRING CRACKS IN CYLINDER BLOCKS

Horace K. Treadwell, Jonesboro, Ga.  
Application July 29, 1949, Serial No. 107,432  
5 Claims. (Cl. 29-402)



1. In a method of repairing a crack in a cylinder block in which the crack extends from a valve port into a cylinder bore in said block, drilling longitudinally through the crack from the base of the valve seat into the cylinder bore, threading the bore thus drilled and plugging said threaded bore, drilling across the crack from the upper surface of the cylinder block downwardly at an angle, pulling the walls of the crack toward each other by means installed in the hole drilled across the crack, and welding the crack.

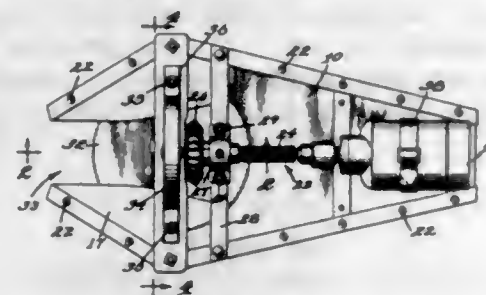
### 2,713,717 ELECTRIC DEHORNER

Basil B. Smith, Westaco, Tex.  
Application May 13, 1954, Serial No. 429,501  
1 Claim. (Cl. 30-167)

In an electric dehorner, a base provided with a slot adjacent one end thereof, an electric motor mounted on



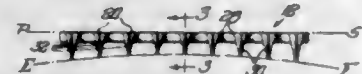
said base and including a handle projecting through said slot, a bar secured to said base, a bearing assembly mounted on said bar, a drive shaft mounted on said bearing and connected to said motor and including a flexible portion, said base being provided with a cutout for receiving therein the horn to be severed, said base including a pair of plates, spacer members interposed between said pair of plates and defining therebetween a channel,



a circular saw rotatably positioned in said channel, strips arranged along the longitudinal edges of said plates and secured thereto, a gear member mounted on said drive shaft, a driven shaft extending through said saw and arranged at right angles with respect to said drive shaft, and a gear member smaller than said first named gear member mounted on said driven shaft, said gear members being arranged in meshing engagement with each other.

#### 2,713,718 CLIPPER COMBS

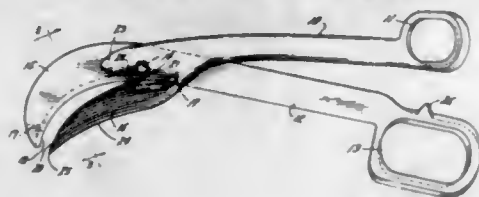
Richard L. Hudson, Worland, Wyo., assignor to one-half to Alexander Healy, Jr., Worland, Wyo.  
Application March 24, 1954, Serial No. 418,317  
16 Claims. (Cl. 30-200)



1. A clipper comb comprising a body portion having a plurality of teeth projected from the front edge thereof, the tops of said teeth lying within the plane of shear, a runner dependent from the bottom of each tooth, the lower portions of said runners terminating in an arcuate line that is concave with respect to the comb.

#### 2,713,719 SHEARS FOR CUTTING TUBULAR SHEET METAL ARTICLES

George Coplen, Cripple Creek, Colo.  
Application August 27, 1953, Serial No. 376,895  
3 Claims. (Cl. 30-254)



1. Stove pipe snips comprising: an upper handle member; a lower handle member; adjacent flat surfaces formed on said handle members; a hinge member pivotally securing said handle members together adjacent their forward extremities with their flat surfaces in frictional engagement; a forwardly and downwardly hooked, upper blade extending from the lower handle member forwardly of the hinge member; an arcuate shearing edge formed on the lower edge of said upper blade and extending from the forward extremity thereof upwardly and rearwardly to a termination below the axis of said hinge member; a pointed lower blade; an offset portion at the forward end of said upper handle supporting said lower blade below and forwardly of said upper handle member; an upper shearing edge on said lower blade extending upwardly and rearwardly from the point thereof

and terminating below the hinge member in spaced relation to the axis of the latter, said upper shearing edge on said lower blade having an arcuate contour substantially corresponding to the arcuate contour of the arcuate shearing edge of said upper blade; and a lower arcuate edge on said lower blade member extending upwardly and rearwardly from the point of the latter to a position below said hinge member.

#### 2,713,720

##### ORTHODONTIC APPLIANCE

Frank W. Johnson, Duarte, Calif., assignor to Unitek Corporation, Pasadena, Calif., a corporation of California

Application May 31, 1952, Serial No. 291,050  
9 Claims. (Cl. 32-14)



1. An orthodontic bracket comprising a generally arcuate base, an integral projection extending from the convex face of the base and having an arcuate outer face, the base forming a flange extending from at least one end of the projection, the projection having a groove in its outer face extending from end to end of the projection with the bottom of the groove being curved coaxially with the base, and lips extending along opposite side edges of the projection and overhanging the base to form channels opening generally away from the outer face of the projection.

#### 2,713,721

##### DENTAL INSTRUMENT

Harry L. Page, Valparaiso, Ind., assignor to Transograph, Incorporated, Minneapolis, Minn., a corporation of Minnesota

Application September 15, 1952, Serial No. 309,659  
16 Claims. (Cl. 32-32)



1. In combination, a hinge bow having spaced frames, attaching means mounted on the hinge bow and attaching the hinge bow to a lower jaw model, an apposing device having spaced arms, attaching means mounted on the apposing device and attaching the apposing device to the upper jaw model corresponding with the lower jaw model, said arms and frames having juxtaposed parts situated at the condyle hinge axes, a hinge joint for one arm and frame and including a condyle slide carried by one of said parts, said slide having a guide surface lying in a plane substantially parallel with the condyle hinge axis of said parts, a slider attached to the other of said parts, retaining means for retaining said slider in sliding relation with reference to said surface, said condyle hinge joint including hinge means for guiding said apposing device for swinging movement about the condyle hinge axis and a similar joint between the other frame and arm situated at the locality of the condyle hinge axis thereof.

#### 2,713,722 GRADE SET AND LEVEL ROD WITH CUT INDICATOR

Wade H. Henderson, Norwalk, Calif.  
Application January 27, 1954, Serial No. 406,421  
6 Claims. (Cl. 33-74)

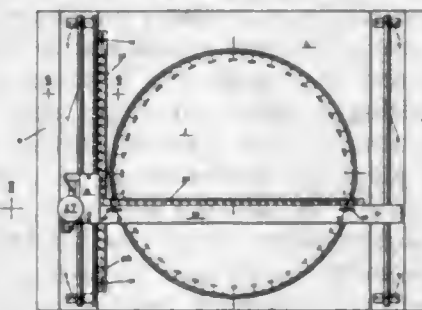


1. An engineering rod, comprising: a first vertical rod section; a second vertical rod section connected to and alongside said first section for vertical sliding movement relative thereto, said second rod section having a fixed grade-set scale extending longitudinally thereof; a main target adjustable longitudinally of said second section to register with the graduations of said scale, said target having a pointer thereon; a linear cut-indicator scale carried by said first rod section and movable longitudinally thereof relative to said main target and relative to said first rod section, said cut-indicator scale having graduations registrable with said pointer; and an auxiliary target carried by said cut-indicator scale with its horizontal center aligned with the zero mark thereof.

#### 2,713,723

##### DRAFTING MACHINE

Ralph A. Anderson, Perth Amboy, N. J.  
Application March 19, 1952, Serial No. 277,492  
6 Claims. (Cl. 33-78)



1. In a drafting machine, a revoluble drawing board, a straightedge parallelly adjustable thereover, an electric resistance member, means for adjusting said straightedge, means for varying the effective resistance of said member according to the adjustment of said straightedge, an electric circuit having two arms, means for connecting the effective resistance of said member in one of said arms, a plurality of manually operable denominational data entering devices, a number of graduated resistances adapted to be connected selectively in the other arm of said circuit, means under control of said entering devices for selectively connecting certain of said resistances in said circuit according to the multidimensional data entered, and means in said circuit controlled by the current flowing in said circuit for indicating a condition of balance or unbalance of said circuit according to the adjusted position of said straightedge.

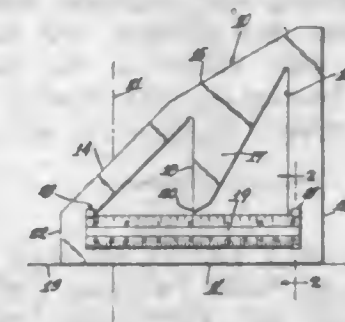
#### 2,713,724

##### DRAFTING INSTRUMENT

Guillermo Sanchez, Warren, Ohio  
Application June 9, 1952, Serial No. 292,413  
4 Claims. (Cl. 33-104)

1. A drafting instrument comprising, a relatively flat body having an edge surface and also having recesses in spaced-apart relation, each recess comprising a generally

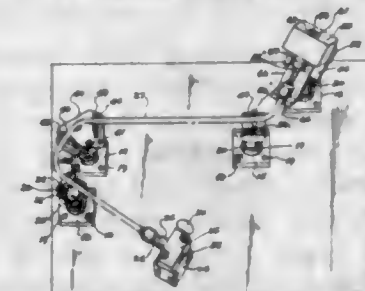
V-shaped projection extending toward a spaced generally V-shaped groove, a scale, and a spring clip engageable in each of said recesses, having a generally V-shaped part



fitting about said V-shaped projection and another generally V-shaped end fitting within said V-shaped groove, and said spring clips having means for releasably engaging said scale.

#### 2,713,725 TUBE GAGE

Shakespeare O. Goldsmith, Detroit, Mich.  
Application October 7, 1954, Serial No. 460,858  
28 Claims. (Cl. 33-174)

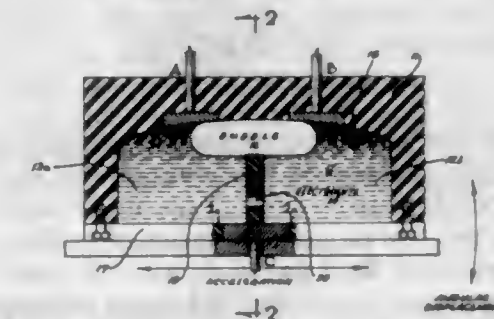


1. A gage for checking the length, contour and profile of a tube comprising a platform, a series of upright supports positioned and secured upon said platform in predetermined spaced relation over the surface thereof, upright standards secured upon some of said supports and projecting thereabove, base blocks adjustable secured at the upper ends of said standards, a pair of transversely apertured end-of-part bodies respectively mounted upon a corresponding pair of other supports, tube-end engaging flush pins slidably positioned and secured within the apertures of said bodies adapted to cooperatively receive and engage the opposite ends of the tube gaged, and a series of upwardly extending tube receiving yokes upon said base blocks and angularly positioned with respect thereto as to cooperatively and slidably receive and support longitudinally spaced portions of the tube gaged.

#### 2,713,726

##### BUBBLE LEVEL CONDITION INDICATOR

Bruce E. Dixon, Hawthorne, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California  
Application September 23, 1948, Serial No. 50,770  
8 Claims. (Cl. 33-211)



1. A bubble level comprising a casing defining a chamber having an upper bubble contacting surface, a filling of conducting electrolyte in said casing of an amount sufficient to provide a bubble in said casing, a pair of



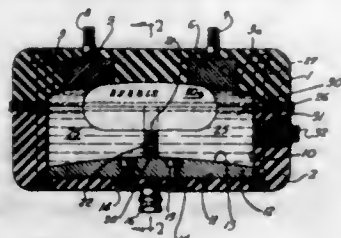
top electrodes in said bubble contacting surface, flush therewith, and spaced to be simultaneously partly covered by said bubble, a baffle crossing said chamber at a right angle to a line joining said electrodes and substantially centrally positioned therebetween, said baffle extending from just below said bubble to the bottom of said chamber, and a bottom electrode having a portion exposed to said electrolyte on each side of said baffle.

2,713,727

## LINEAR BUBBLE LEVEL SIGNAL DEVICE

Louis Lloyd Balsam, Pacific Palisades, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application December 20, 1948, Serial No. 66,370  
15 Claims. (Cl. 33-211)



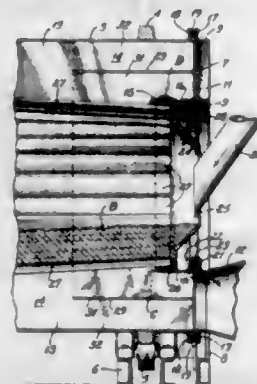
1. A bubble level comprising walls forming a chamber, a body of liquid only partly filling said chamber thereby providing a bubble in said chamber, the upper and lower surfaces of said chamber being concentrically curved in one direction only, said upper surfaces being shaped to confine said bubble to a path following the curvature of said upper surface, a pair of spaced electrodes positioned flush in said upper surface, exposed to said liquid, and simultaneously contacted by said bubble in one position thereof, said liquid being conducting, and said entire lower surface of said chamber being conductive, all of said walls other than said electrodes being non-conductive whereby tilt of said level in the plane of said direction will move said bubble to linearly change the areas of said upper electrodes exposed to said conducting lower surface.

2,713,728

## SEALING MEANS FOR ROTARY DRYERS OR COOLERS

Clarence W. Cassells, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois

Application December 7, 1953, Serial No. 396,500  
8 Claims. (Cl. 34-135)



1. A dryer or cooler comprising a rotatable cylinder, a plurality of radial louvers extending longitudinally of and spaced circumferentially around the inner surface of said cylinder to provide an annular series of radially inwardly opening treatment fluid passages, an end plate connected to the inner edges of said radial louvers adjacent one end of said cylinder and having a central opening for admitting the material to be treated into the interior of said cylinder, a stationary annular distributor head for closing the ends of said treatment fluid passages adjacent said end plate and having an inlet manifold formed in one

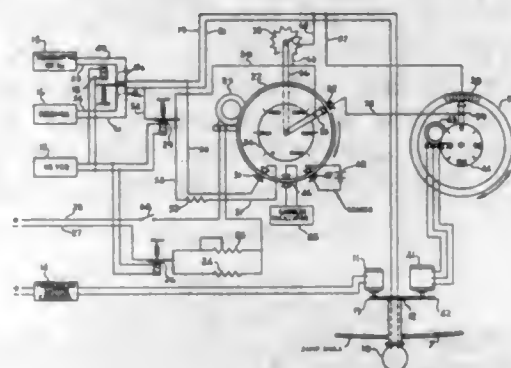
portion thereof for admitting treatment fluid to the passages as they are rotated into longitudinal alignment therewith, sealing means between the stationary head and the adjacent end of said rotatable cylinder and between said head and the outer periphery of said end plate, a perforate material bed supporting shell mounted on the inner edges of said louvers and extending into spaced relationship with said end plate leaving an annular opening through which a portion of the material admitted to said shell through said end plate may spill into said treatment fluid passages, and baffle means circumferentially spanning each of said passages radially outwardly of said annular opening to collect the material that is spilled through said opening and carry it to the upper portion of the cylinder, during rotation of the latter, for return to the material bed through the perforate shell so that the spilled material will not contact said sealing means.

2,713,729

## ECHO INJECTOR

Earl W. Springer, Washington, D. C.

Application September 24, 1943, Serial No. 503,624  
11 Claims. (Cl. 35-10.4)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



9. In underwater echo ranging apparatus including a transducer, a transmitter, a receiver, and transfer means for alternately connecting said transducer in circuit with said transmitter and then with said receiver, a training device for producing a simulated target echo comprising a magnetic movable tape recorder having a recording head and a playback head thereon at a preselected distance apart, means for moving said tape, and means operable with said transfer means for alternately connecting said transmitter with said recording head and said receiver with said playback head whereby a pulse from said transmitter may be recorded on the tape of said recorder and then played back into said receiver to simulate an actual echo of said transmitted pulse from an underwater target.

2,713,730

## INNERSOLES FOR WELT SHOES

George E. Musebeck, Nashotah, Wis., assignor to Musebeck Shoe Company, Oconomowoc, Wis., a corporation of Illinois

Application September 4, 1951, Serial No. 244,969  
4 Claims. (Cl. 36-22)



1. An innersole for shoes comprising at least two thicknesses of material one of which constitutes a bottom thickness, the innersole having a rabbetted edge portion on the bottommost layer around a portion of the marginal edge of said layer, to thereby provide a shoulder

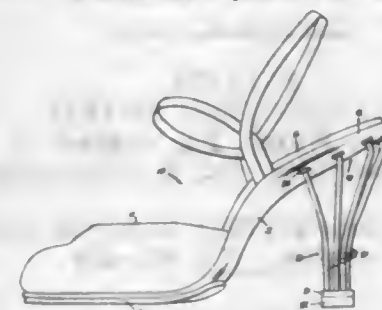
which is spaced inwardly from the marginal edge of the insole, a separate stitching rib secured to the undersurface of the bottom layer of said innersole with the outer side of the stitching rib substantially flush with the shoulder formed by the edge of said bottom layer, and means including tape for maintaining said stitching rib in position.

2,713,731

## HEEL

Salvatore J. Cangemi, Brooklyn, N. Y.

Application September 26, 1952, Serial No. 311,710  
3 Claims. (Cl. 36-34)



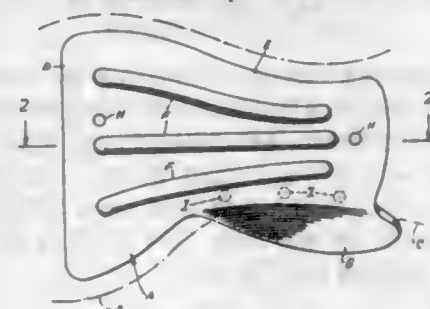
3. A heel for ladies' shoes comprising a metal base with holes arranged along the margin of its upper face and extending part way through said base, and supporting means consisting of metal rods with their lower ends secured in said holes and with their upper ends screw-threaded, and two nuts on the upper end of each rod to serve as upper and lower abutments.

2,713,732

## FOOT-ARCH SUPPORTS

James Guest, Bolton, England

Application December 13, 1951, Serial No. 261,514  
Claims priority, application Great Britain October 1, 1951  
4 Claims. (Cl. 36-71)



1. A foot-arch support comprising a thin sheet of rigid material, the length thereof being such that it extends from the breast of the heel to beneath the ball of the foot of the wearer, said sheet being of substantially uniform thickness throughout, a plurality of laterally spaced longitudinal ribs at the underside of said sheet, said ribs being spaced apart by substantially solid material, the front of said ribs terminating beneath the transverse arch of the wearer, the area at the front end of said ribs constituting a fulcrum of a lever of the first order, that portion forwardly of said ribs extending forwardly of said transverse arch and the remainder adapted to pivot about said fulcrum.

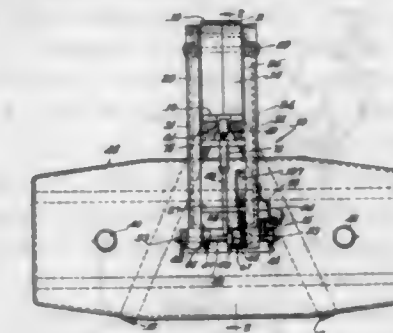
2,713,733

## FLAT PLATE IRONER

Jason Hurley, Chicago, Ill.

Application January 23, 1953, Serial No. 332,829  
14 Claims. (Cl. 38-36)

3. In a flat plate ironer having, a buck, a heated shoe, spring means for normally separating the buck and heated shoe, and control means including a handle for latching the heated shoe in engagement with the buck and for applying pressure between the heated shoe and buck, in combination therewith, detent means operatively connected with said control means for latching the control means in position to latch the heated shoe



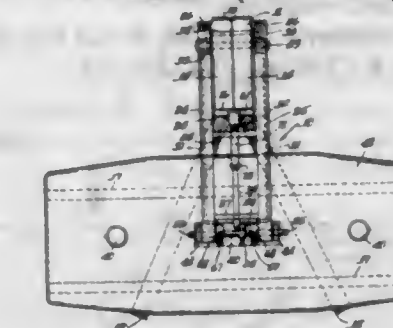
ing said control means after a predetermined time interval to relieve the pressure between the heated shoe and buck and to permit the heated shoe and buck to be separated by the spring means.

2,713,734

## FLAT PLATE IRONER

Jason Hurley and Hans F. Trepte, Chicago, Ill.; said Trepte assignor to said Hurley

Application January 23, 1953, Serial No. 332,830  
15 Claims. (Cl. 38-36)



1. A flat plate ironer comprising a supporting frame, a buck immovably carried by the frame, an arm pivoted at one end to the frame and having its free end extending above the buck, a bracket movably carried by the free end of the pivoted arm, a heated shoe, means securing the heated shoe to the bracket and including a lost motion connection for permitting limited relative movement between the heated shoe and the bracket and spring means for resiliently separating the bracket and the heated shoe to the extent allowed by the lost motion connection, a spring for normally raising the pivoted arm above its pivot, the heated shoe being moved against the buck when the pivoted arm is lowered and moved away from the buck when the pivoted arm is raised, locking means operatively connected to the pivoted arm and the supporting frame for locking the pivoted arm in lowered position, a shaft rotatably carried by the free end of the pivoted arm, a handle carried by the shaft for lowering the pivoted arm and for rotating the shaft and movable between an upper position and a lower position, cam means operatively connected between the shaft and the locking means for operating the locking means to locking position when the pivoted arm is lowered and the handle is moved from its upper position to an intermediate position, cam means operatively connected between the shaft and the bracket for compressing the spring means of the lost motion connection as the handle is moved from its intermediate position to its lower position for applying pressure between the heated shoe and the buck.

2,713,735

## STEAM IRON AND FILLING DEVICE

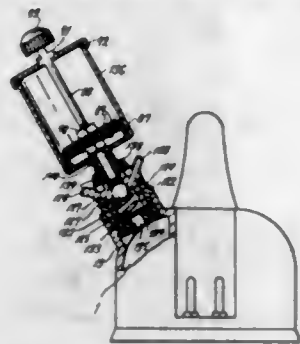
Albert C. Hoecker, St. Louis, Mo.

Application March 31, 1948, Serial No. 18,090  
2 Claims. (Cl. 38-77)

1. The combination of a steam iron having a steam boiler, and a filler device, said device comprising a valve



casing attached to said boiler and having a valve seat and an opening for the introduction of water into said boiler, a valve in said casing and held against said seat by a



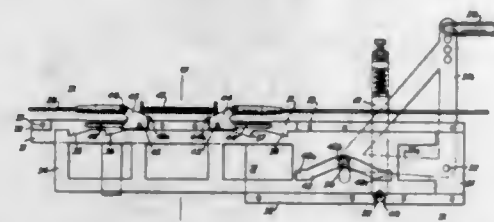
spring, a detachable pump having a nozzle to be inserted in said opening to force the valve off said seat, and means for forcing the water in said pump past said valve into said boiler.

2,713,736

### REMOTE CONTROL MECHANISMS FOR GATES AND THE LIKE

John D. Thomas, Oswestry, England, and James Roberts, Penmaenmawr, North Wales, assignors to Edward Thomas & Company (Oswestry) Limited, Oswestry, England, a British company

Application January 29, 1954, Serial No. 407,126  
8 Claims. (Cl. 39-9)

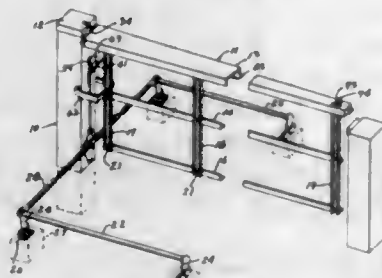


1. A remote control selector mechanism comprising two operating members, a selector member located at a distance remote from the operating members and slidable to either side of a neutral position, a pair of oppositely acting pawl and notch mechanisms, means connecting one such operating member respectively with one such pawl and notch mechanism, means operatively supporting said mechanisms in relation to the slidable member so as to move said slidable member to either side of the neutral position and after such movement in one direction to bring one pawl and notch mechanism in operative position to move the slidable member in the reverse direction, and a member movable in opposing directions operatively connected with said slidable member for movement thereby.

2,713,737

### VEHICLE OPERATED AUTOMATIC GATE

Floyd L. Hawkins, Birmingham, Ala.  
Application July 25, 1950, Serial No. 175,780  
5 Claims. (Cl. 39-43)



1. In an automatically operable gate, a gate structure including a gate proper, a supporting post, means pivotally connecting one end of the gate to the post for movement in a vertical plane, counter-balance means connected to the gate structure and partially counterbalancing the gate about its pivot point, an arm pivoted

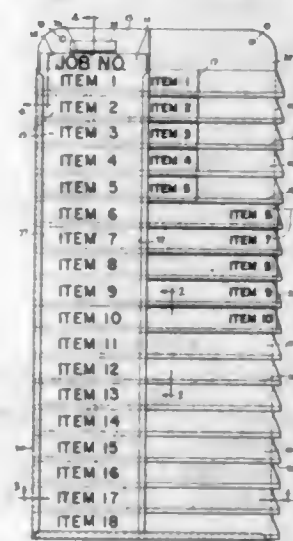
to the post and extending outwardly therefrom toward the gate, a downwardly movable tension member connected to the outer end of the arm and operable upon downward movement to raise the gate, interconnected vehicle engaging members disposed in the path of a vehicle approaching the gate from either side thereof and disposed to be moved when contacted by the vehicle, means connecting the movable members to the tension member to pull the latter downwardly upon engagement of the vehicle with either of said movable members, and means operable after the gate is raised and the vehicle has passed beneath the same to lower the gate with a controlled rate of downward movement.

2,713,738

### DATA-POSTING BOARD

Henry M. Harman, Wayne, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 23, 1953, Serial No. 363,632  
6 Claims. (Cl. 40-64)



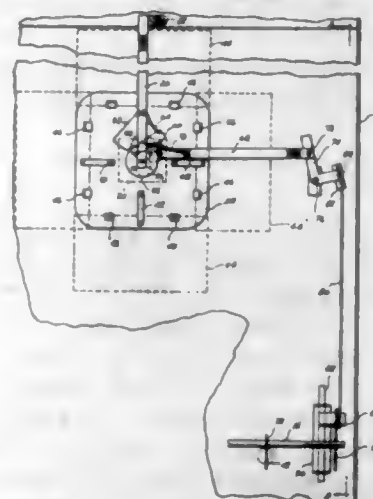
1. A data-posting board comprising in combination, a plurality of slotted card holders extending in one direction, and a slotted card holder extending in the other coordinate direction, the second said card holder extending across and above one end of the first said card holders to partly obscure the cards of the first said holders when pushed in behind the second card holder.

2,713,739

### DISPLAY DEVICE FOR MERCHANDISING MACHINES

Christian Gabrielsen, Mountain Lakes, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York

Application May 21, 1951, Serial No. 227,491  
2 Claims. (Cl. 40-71)



1. A display device for merchandising machines including in combination a housing formed with a window,

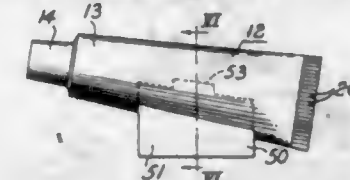
a horizontal shaft supported by the housing adjacent the window, a carrier rotatably mounted on the shaft, a display holder supported by the carrier for rotation therewith, means for securing displays to the holder for successive viewing through the window, a plurality of pins carried by the carrier, a pivoted sector formed with a re-entrant portion and a stop, means for pivotally mounting the sector adjacent the carrier, a spring for biasing the sector to rotate to bring the stop into engagement with one of the pins, a pawl carried by the sector and adapted successively to engage the pins, the end of the pawl being positioned adjacent the re-entrant portion, a link having one end pivotally secured to the sector, a bell crank having a pair of arms, means for pivotally mounting the bell crank within the housing, means for connecting the other end of the link to one of the bell crank arms, a merchandising machine operating bar, means responsive to the movement of the operating bar for rotating the bell crank whereby to actuate the sector to rotate the carrier upon each operation of the operating bar.

2,713,740

### DISPLAY CARTON

Marvin S. Fessenden, Cincinnati, and Jerome M. Buening, Cheviot, Ohio, assignors to The Central Carton Company, Cincinnati, Ohio, a corporation of Ohio

Application June 25, 1952, Serial No. 295,514  
4 Claims. (Cl. 40-126)

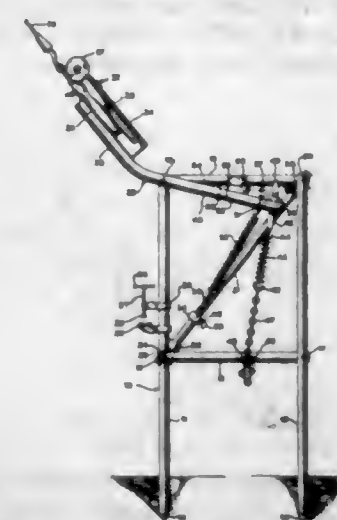


1. A display carton which comprises a tubular body having an open end, a plurality of tabs hinged to said open end and turned inwardly thereof, each of said tabs containing a slot, the slots being disposed on the circumference of a circle around the axis of the body, a disc mounted in said open end, there being a plurality of spaced outwardly projecting lugs on the periphery of said disc, the lugs of the disc being seated in said slots, there being a plurality of circumferentially extending, spaced slots in said disc spaced inwardly from the periphery thereof, and another tubular body having an open end mounted on said disc, there being a plurality of tabs at the open end of said other tubular body, the tabs of the other tubular body being received in the slots of the disc.

2,713,741

### AUTOMATIC FISH CATCHING APPARATUS

Raymond Oliver Nagy, Hutchinson, Kans.  
Application August 26, 1952, Serial No. 306,354  
8 Claims. (Cl. 43-16)



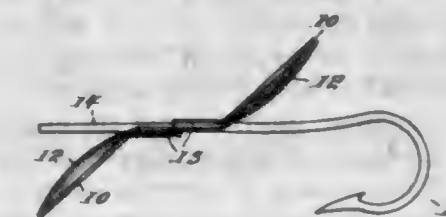
1. An automatic fish catching apparatus including a frame, a fishing rod supporting arm pivotally mounted

adjacent the mid point thereof on said frame, a rod receiving socket on the outer end of said arm for supporting a rod with tackle thereon, an elongated pawl slidably mounted in the inner end of said arm, said pawl terminating at the upper end thereof in a hook, abutment means on the pawl for limiting downward sliding movement of said pawl in said arm, power means for pivotally moving said arm and rod carried thereby comprising resilient means secured to said pawl and reactingly connected to said frame so as to bias the pawl downwardly, resilient counterbalancing means secured to said arm adjacent the inner end thereof and reactingly connected to said frame, means to adjust said counterbalancing means whereby the weight of said arm, said rod and the tackle carried thereby may be accurately counterbalanced, releaseable latch means for preventing movement of said arm by said power means through said pawl, and latch tripping means on said arm engageable with said latch in such a manner that upward movement of the inner end of said arm in response to a bite on said tackle will cause said tripping means to release said latch thus permitting movement of said pawl downwardly so that said abutment engaging said arm will cause a rapid upward movement of the outer end of said arm and rod thereby hooking the fish.

2,713,742

### FISHING HOOK BAFFLE

Randall B. Holdaway, Provo, Utah  
Application August 12, 1952, Serial No. 303,847  
1 Claim. (Cl. 43-42.38)



In a fish lure, a fish hook including an elongated cylindrical shank and a barb extending from an end of said shank, a first baffle and a second baffle mounted on the shank of said fish hook, each of said baffles having the same shape and each including a semi-cylindrical stem embracing said shank, said stems being arranged on opposite sides of said shank and having adjacent end portions arranged in overlapping relation with respect to each other and having non-adjacent end portions extending away from each other in opposite directions, said stems being secured to said shank, but said stems not being secured to each other, a plate having a rounded peripheral edge extending from the non-adjacent end of each said stems, each of said plates being provided with a convex surface on one side and a concave surface on the other side thereof, said plates having their peripheral edges arranged in planes that are parallel to each other, and which lie at an angle other than 90 degrees from the longitudinal axis of said stems, at least one of said plates being provided with a V-shaped notch, said notch extending from the peripheral edge of said plate to a point substantially at the center of said plate, the outer portion of said notch being wider than the inner portion thereof.

2,713,743

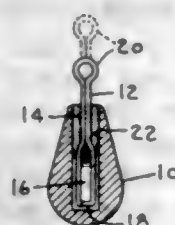
### RELEASABLE SINKER

Norman H. Stark, Cedarburg, Wis.  
Application December 13, 1952, Serial No. 325,851  
4 Claims. (Cl. 43-43.12)

4. A releasable sinker assembly comprising, a sinker having a blind hole therein, a pin having an elongated slot therein and projecting into the hole and an elongated

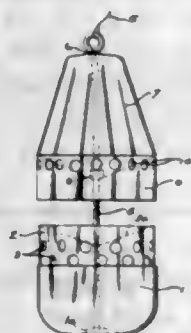


rubber member passing through said slot and lying against the pin in contact with the pin and the wall of the



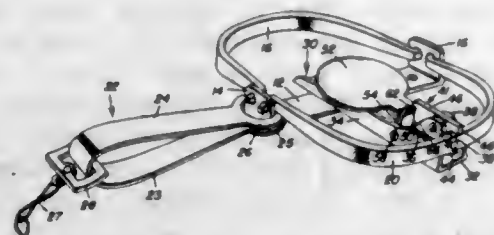
slot, the ends of the member projecting away from the blind end of the hole.

2,713,744  
**CHUM POT FOR SURF FISHING**  
Arlan E. Strausser, Sr., Reading, Pa.  
Application June 25, 1954, Serial No. 439,330  
3 Claims. (Cl. 43-44.99)



1. The combination of a chum container for surf fishing, comprising a cup-like container, a removable perforated lid therefor, a float having a depending skirt portion slidably fitting said perforated lid and adapted to close said perforations as the result of lowering of said float, and a stem removably fitted in said container and passing through said container, said lid and through said float, said float being adapted to move relative to the container as the result of immersion in water to expose said chum to the water through said perforations of said lid.

2,713,745  
**BRACKET LATCH DOG PAN TRIGGER ASSEMBLY FOR JAW TRAPS**  
Walter J. Bruske, Fall Creek, Wis.  
Original application May 8, 1950, Serial No. 160,787, now Patent No. 2,645,876, dated July 21, 1953. Divided and this application February 19, 1953, Serial No. 337,766  
3 Claims. (Cl. 43-92)



1. A bracket, a latch dog, and a unified pan-trigger assembly for attachment to the usual base bar of a steel jaw trap comprising a rigid one-piece bracket channel-shaped in cross-section from end to end and embodying a flat rigid bight portion and rigid side flanges of a length corresponding to the length of said bight portion, the outer end portions of the respective flanges being gradually increased in height, diminished in width, and converging and thus providing a pair of closely spaced parallel ears, a horizontal hinge pin bridging the channel and fixedly supported between the upper end portions of said ears, a latch dog less in thickness than the space between said ears and pivotally suspended on said pin and freely swingable back and forth in the clearance space between said ears and convergent por-

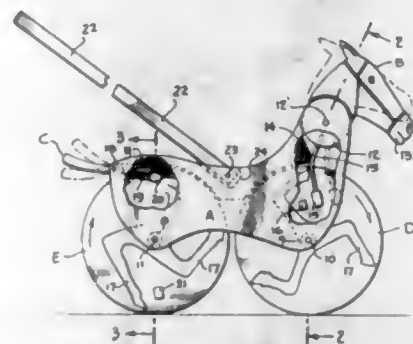
tions of said flanges, a second horizontal hinge pin also fixedly supported between said flanges parallel to, inwardly of, and on a plane below that of the first named pin, and a pan overlying and swingable toward and from the upper edges of the underlying flanges, said pan having an integral shank projecting from one marginal edge, the intermediate portion of said shank being bent laterally downward and then upwardly and providing a generally U-shaped hinge knuckle, the latter encompassing and being hingedly joined with said second named pin, the upwardly bent portion of said shank being longitudinally curved and providing a trigger whose free end projects to a plane above the adjacent upper edges of said flanges for releasable engagement with said latch dog, the inward edges of said ears constituting stop shoulders and the free end of said trigger being of a length to swing through a limited arc into contact with said stop shoulders, whereby said free end is intended to engage said shoulders to limit the arc of swing of the pan and its shank in an upward and outward direction.

2,713,746  
**HOLLOW OBJECT AND METHOD OF MAKING THERMOPLASTIC SEAM**  
Gordon Alexander Haugh, Toronto, Ontario, Canada  
Application March 17, 1950, Serial No. 150,180  
4 Claims. (Cl. 46-87)



2. As an article of manufacture, a hollow object comprising one or more sheets of thermoplastic material of the type which forms a permanent bond when two layers are pressed firmly together at a sufficiently high temperature but which is not tacky in its natural state at normal atmospheric temperatures, said object having adjacent substantially parallel edge portions of the sheets spaced apart and joined by thermoplastic strip material which is permanently bonded to the adjacent edge portions along the length thereof, said adjacent edge portions forming a substantially uniplanar surface when separated.

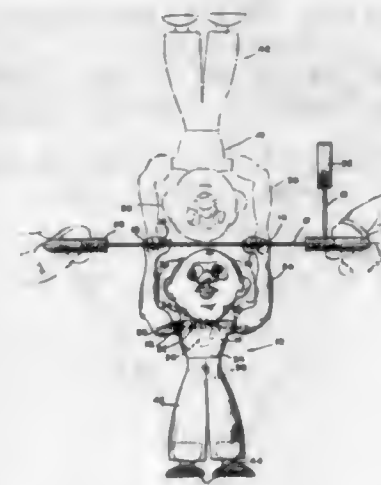
2,713,747  
**ANIMATED WHEELED SOUNDING TOYS**  
William B. Holland, Seattle, Wash.  
Application May 10, 1954, Serial No. 428,661  
2 Claims. (Cl. 46-98)



1. An animated mechanical toy, comprising, a body for a horse, a pair of tandem ground wheels, rotatively connected to the body adjacent to the bottom of the front and rear ends thereof, said wheels having legs displayed

thereon in flexed positions to indicate speedy travel, each of said wheels being provided with a block affixed to one side thereof, a neck rockingly connected to the front end of the body, a head connected to and extended above the neck and normally tilted downwardly therewith, a lever extended downwardly from the neck, a buffer member affixed to the end of the lever and normally positioned within the orbit of the block on the front wheel, said block being extended laterally from the front wheel for striking the buffer for producing sounds simulating hoof beats on a pavement and for tossing the head upwardly, a tail member rockingly extended from the rear end of the body being normally uptilted, a rod pivotally extended forwardly from the root of the tail having a counter weight on the front end thereof within the orbit of the said block on the rear wheel for oscillating the tail switchlike, said block extended laterally from one side of the rear wheel positioned to strike the weight on revolutions of the wheel to rock the tail downwardly and promote oscillation thereof, a handle pivotally connected to the top of the body for pushing the toy forwardly and to assure that both wheels maintain continuous surface contact.

2,713,748  
**ACROBATIC FIGURE TOY**  
Marvin I. Glass, Chicago, Ill.  
Application December 29, 1952, Serial No. 328,411  
2 Claims. (Cl. 46-133)

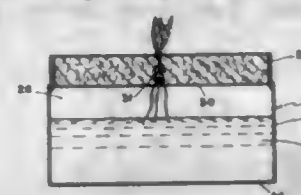


1. In a portable manually suspended acrobatic toy comprising a bar having a pair of handle members secured to the opposite ends thereof and by which said bar is manually supported and manipulated, a counterweight extending above said bar, a toy figure supported below said bar, said toy figure having a pair of arms fixedly secured to said bar to rotate therewith, a body member having means for receiving the inner ends of said arms, said body member being rotatable with respect to said arms, a head member secured to the top of said body member, a lower portion formed of a flexible cloth secured to said body portion, and weighted feet members secured to the lower end of said cloth member, said counterweight being positioned approximately 180° with respect to said figure and so constructed and arranged that the weight of the counterweight is slightly less than the weight of said figure.

2,713,749  
**SOILLESS CULTURE OF PLANTS USING CHEMICALLY TREATED OCEAN WATER**  
William A. E. Holt, San Diego, Calif.  
Application August 6, 1951, Serial No. 240,592  
4 Claims. (Cl. 47-1.2)

2. A method for hydroponic culture, comprising placing a layer of nutrient solution in a seedbed tank, said

nutrient solution comprising ocean water treated to elim-

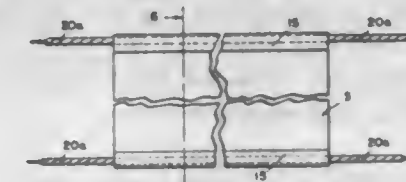


inate chlorides and having dissolved therein one pound of a compound including

Constituent:	Per cent of total
Potassium sulphate.....	42.5
Calcium sulphate.....	32.5
Monocalcium phosphate.....	12.5
Magnesium sulphate.....	2.5
Ammonium sulphate.....	7.5
Iron sulphate—FeSO <sub>4</sub> .....	1.8
Manganese sulphate.....	0.28
Borax—Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .....	0.22
Zinc sulphate.....	0.12
Copper sulphate.....	0.08
	100.0

in each 100 gallons of treated ocean water, supporting a layer of cellular material a short distance above said layer of nutrient solution, the space between said nutrient solution and said cellular material permitting access of air toward plant roots, whereby seeds can be germinated and plants grown without soil.

2,713,750  
**DEVICE FOR PROTECTING GROWING CROPS**  
Charles F. Casas, South Gate, Calif., assignor to Certified Paper Converting Company, a corporation of California  
Application February 1, 1954, Serial No. 407,414  
1 Claim. (Cl. 47-26)



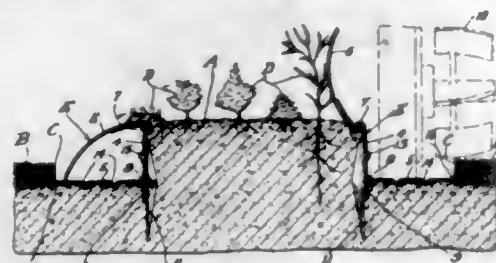
A protective device adapted to be anchored to supporting stakes alongside a row of growing plants to protect them from wind, comprising a rectangular sheet of flexible paper having its side marginal portions folded over and adhered to the underlying surface of said sheet throughout the length thereof whereby to define a pair of parallel sleeve-like folds, and a reinforcing member mounted in, extending the length of, and projecting at its ends from the ends of each of said folds whereby to provide ties for anchoring the same to said stakes; each of said reinforcing members comprising a length of flexible wire having a flexible sheathing of uncalendered paper spirally wound thereabout and adhered thereto and to the said fold through which it extends.

2,713,751  
**GARDEN EDGING DEVICE**  
Widener W. Hendrixson, Ashland, Oreg.  
Application September 11, 1951, Serial No. 246,081  
1 Claim. (Cl. 47-33)

A garden edging device comprising a longitudinally extending retaining strip adapted to be set vertically to form a garden retaining wall, a base strip normal to and extending longitudinally for the length of said retaining strip, a hinged plant protecting strip extending longitudinally for the length of said retaining strip, and means for hinging said plant protecting strip to said retaining strip at its upper portion, said plant protecting strip when swung to a down position covering said base strip



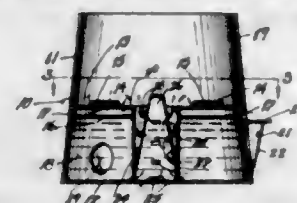
and presenting a rest for plants overhanging the edge of the garden, and when swung to an up position consti-



tuting means for holding such plants back clear of the edge of the garden.

#### 2,713,752 PLANT POT

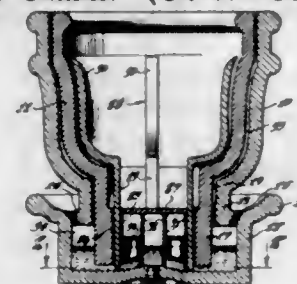
Victor Sobol, Spokane, Wash., assignor of one-half to Nicholas Mandic, Spokane, Wash.  
Application April 2, 1954, Serial No. 420,505  
3 Claims. (Cl. 47-38)



1. A plant pot comprising a container having an upper soil chamber separated from a concentric lower fluid reservoir by a relatively thin air space open to the atmosphere and defined by a transverse porous upper wall forming the bottom of said soil chamber and a transverse impervious lower wall forming the top of said reservoir; a central impervious well communicating with the bottom of said chamber and extending downwardly therefrom through said air space and through said lower wall to the bottom of said reservoir and communicating therewith at its juncture, and a porous frusto-conical filter in the well for separating the soil introduced therein through the soil chamber and the fluid of said reservoir and providing an enlarged fluid transfer area intermediate the fluid and soil.

#### 2,713,753 FLOWER POTS

Frank Lulpersbek, Bronx, N. Y.  
Application April 14, 1954, Serial No. 423,161  
2 Claims. (Cl. 47-38)

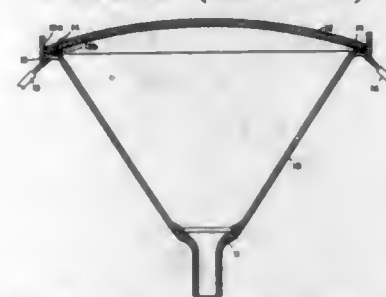


1. A flower pot comprising an outer member and an inner member, said outer member comprising a bowl-like upper portion and a hollow substantially cylindrical base portion including an annular concave approximately horizontal roof at the top and a bottom wall at the bottom, a reduced cylindrical neck portion joining said annular roof with the lower rim of said upper portion, said annular roof extending radially beyond the periphery of said base portion thereby providing a circumferential eave around said base portion, said annular roof having a plurality of openings therethrough, said inner member comprising an insert consisting of an upper portion substantially complementary to said bowl-like portion and a reduced hollow cylindrical portion passing downward through said neck and having spaced feet on the lower rim thereof, said reduced cylindrical portion having said

feet thereof resting on said bottom wall thereby supporting said inner member within and spaced from said outer member, said cylindrical portion of said inner member having a horizontal partition substantially intermediate its height and having the lower portion of the wall thereof below the partition thickened in a radially inward direction, vertical passages extending through said thickened wall and said partition, said base portion being adapted to hold water, passage of said water between said base portion and the interior of said cylindrical portion of the inner member under said partition being provided between said feet, said partition having a tube extending axially downward therefrom to substantially the level of the lower rim of said cylindrical portion, said tube having at least one opening therethrough near the upper end thereof, an annular float slidably mounted on said tube, said bottom wall having an axial passage therethrough in alignment with said tube and adapted to have a water supply connected thereto, the horizontal level of said tube opening being positioned not higher than the level of said roof, said float rising to close said tube opening when the level of water in said base portion reaches a level not higher than the level of said roof and falling to open said tube opening upon descent of the float to a level below said tube opening, said bottom wall having a conical boss extending upward therefrom coaxial with said axial passage therethrough, the lower end of said tube resting on said conical boss.

#### 2,713,754 MANUFACTURE OF CATHODE-RAY TUBE ENVELOPES

David Nixen and Russell B. Snyder, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois  
Application July 23, 1953, Serial No. 369,750  
9 Claims. (Cl. 49-81)



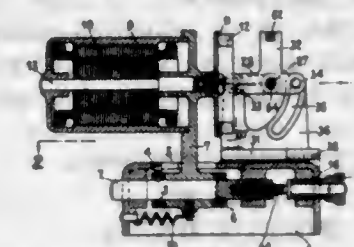
1. In the manufacture of a cathode-ray tube envelope comprising a metallic cone section having a circumferential sealing land and a glass face-plate having a rim substantially corresponding to said land in dimensions and configuration, the method of sealing said face-plate to said metallic cone section comprising the following steps in sequence: applying to said sealing land a coating of at least one of the compounds from the group consisting of ammonium chromate, ammonium dichromate and chromic anhydride mixed with a volatilizable liquid vehicle; positioning said face plate on said metallic cone section with said face-plate rim engaging said coated sealing land of said cone section; and heating said cone section sealing land and said face-plate rim to a temperature above the fusion point of said glass faceplate to contemporaneously decompose said coating to an oxide of chromium with fully volatilizable by-products and fuse the glass of said rim and seal said face-plate to said metallic cone section.

#### 2,713,755 DRILL GRINDING MACHINE

Alfred Ganahl, Zurich, Switzerland, assignor to Joos Heintz, Zurich, Switzerland  
Application March 29, 1951, Serial No. 218,247  
4 Claims. (Cl. 51-55)

1. A drill grinding machine comprising a bed plate having a flat top surface with a slot therein, a laterally

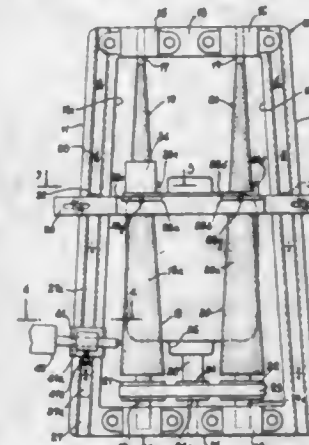
movable support pivotally mounted on the lower side of said bed plate, said laterally movable support including a portion extending upwardly through said slot, said slot being shaped to permit limited movement of said support with respect to said plate, a motor mounted on that portion of said support which extends above the bed plate so that the rotating shaft of said motor is substantially parallel to said bed plate, screw means rotatably mounted on said bed plate for changing the lateral posi-



tion of said movable support with respect to said bed plate, means on said support cooperating with said slot to additionally limit the pivotal movement of said support, a grinding wheel attached to the shaft of said motor, means on the top portion of said bed plate for supporting a drill to be sharpened in an adjustable but fixed position with respect to said bed plate whereby a drill to be sharpened is first adjusted to a desired fixed position and said grinding wheel is thereafter moved to grinding position by said screw means.

#### 2,713,756 MACHINES FOR GRINDING CUTTING TOOLS HAVING RADIUS CUTTING EDGES

Hugh Millmore, Johnstown, Pa.  
Application June 24, 1953, Serial No. 363,716  
8 Claims. (Cl. 51-102)



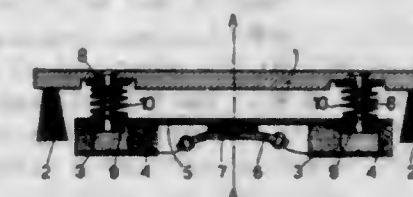
1. In a machine for grinding cutting tools having curved cutting edges known as radius cutting edges, the combination with an elongated frame having spaced parallel end members provided with shaft-bearings and longitudinally disposed side members, a grinding element comprising a shaft rotatively mounted at opposite ends in said bearings and having fixedly mounted thereon between said opposite ends a shell of abrasive material provided with an abrasive grinding surface of tapering conformation, means for rotating said shaft in said bearings, and means for guiding a cutting tool at any given place along said tapered abrasive surface to produce in the tool a radius cutting edge of any suitable dimension.

#### 2,713,757 FLOOR-FINISHING MACHINE

Ernst Brennecke, Neuenburg, Switzerland, assignor to Tornado A.-G., Basel, Switzerland, a joint-stock company of Swiss law  
Application February 11, 1953, Serial No. 336,415  
8 Claims. (Cl. 51-177)

1. In a floor-finishing machine having a brush plate mounted to rotate about a vertical axis and driven by an

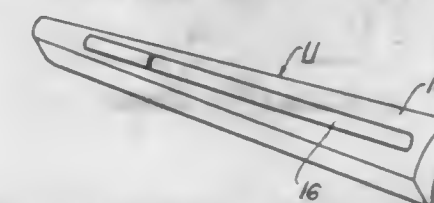
electric motor, an annular brush suitable for supporting the machine and carried by said brush plate, a detachable flexible abrading sheet inside said annular brush, said abrading sheet being carried on a support of elastically



yieldable material, and means arranged between the support and said brush plate in order to press said abrading sheet on to the floor with a predetermined pressure which is independent of the total weight, the remainder of the weight being supported by said annular brush.

#### 2,713,758 BORING BARS

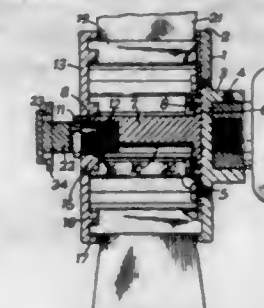
Charles F. Norkus, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware  
Application June 28, 1951, Serial No. 233,979  
3 Claims. (Cl. 51-184.1)



2. The combination with the pilot of a boring bar and an arbor mounted on one end thereof, of a plurality of generally prism shaped cutting tools tapering in width and height and detachably wedged into place in the arbor the bottom side of each tool, that is the side adapted to contact the arbor, being of greater width than the top side thereof to thereby provide said taper in height, each of said tools including an insert of relatively hard material operating to increase the life of the tool.

#### 2,713,759 ROTARY ABRASIVE HEADS

Richard James Swan, London, England, assignor, by mesne assignments, to Engis Equipment Company, Chicago, Ill., a corporation of Illinois  
Application March 23, 1953, Serial No. 343,956  
Claims priority, application Great Britain April 16, 1952  
4 Claims. (Cl. 51-193.7)



1. A rotary abrasive tool, comprising a main end plate adapted to be detachably mounted on a driving shaft, a plurality of closely spaced dovetail brush socket elements each secured at one end to said main end plate adjacent the circumference thereof and extending parallel to the rotary axis of said main end plate, said socket members together forming a substantially cylindrical array, a plurality of closely spaced outwardly extending brushes detachably mounted respectively in said socket members, a spool attached at one end to said main end plate for relative rotation with respect thereto about said rotary axis, a plurality of abrasive strips wound upon each other on said spool with the free ends thereof ex-

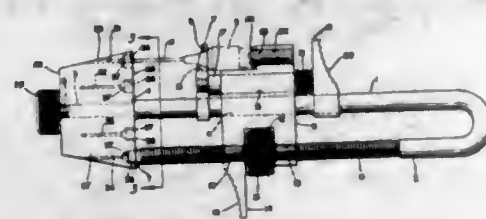


tending outwardly between adjacent brushes, an adjustable end plate keyed for sliding movement on the other end of said spool and provided near its circumference with at least one projection adapted for selective engagement with the free ends of said brush socket members, and a screw-threaded clamping member having a shank screw connected to the other end of said spool and a head engageable with the side of said adjustable end plate remote from said main end plate, said clamping member being adjustable between a clamping position in which the adjustable end plate and spool are locked by the projection against rotation relatively to the main end plate and brush socket members and a released position in which the adjustable end plate is axially movable to a position to disengage said projection and thereby permit such relative rotation.

2,713,760

**HYPODERMIC NEEDLE SHARPENER DEVICE**  
Raymond E. Dunham, Jesse E. Sigler, and Paul Oetjen,  
Cleveland, Ohio

Application June 5, 1952, Serial No. 291,948  
11 Claims. (Cl. 51—221)

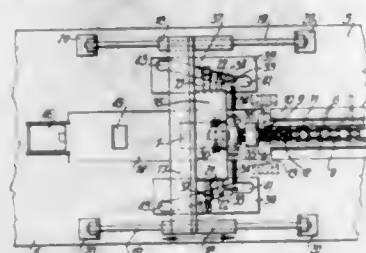


1. A device for supporting hypodermic needles having a bevel surface to be ground, said device comprising a U-shaped frame having two spaced arms, a needle carrier mounted for sliding movement along one arm of said frame and in a direction substantially parallel with the other arm of said frame, means for clamping a needle to said carrier, means for adjusting the position of said carrier along said arm, said means comprising a nut threadedly secured to the other arm of said frame, and a head carried by said frame and having a surface inclined to the axis of said first named arm, said head having a surface-intersecting opening therethrough for passage of said needle.

2,713,761

**FOLDING DEVICE FOR PACKING MACHINES**  
Bruno Abramowski, Hamburg-Bergedorf, Germany, assignor to Kurt Körber & Co. K. G., Hamburg-Bergedorf, Germany

Application January 23, 1953, Serial No. 332,978  
Claims priority, application Germany February 18, 1952  
6 Claims. (Cl. 53—148)



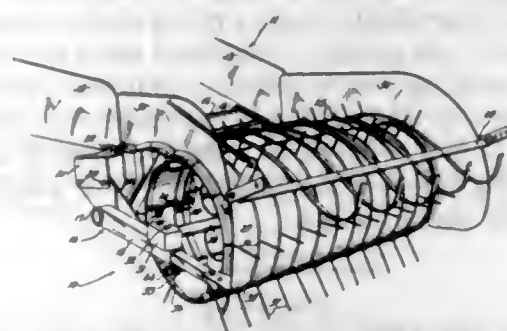
1. In a packing machine for cigarettes or the like, the combination of a reciprocating member adapted for holding and forwarding a package with open end closure at its rear, a pair of folding fingers mounted in said reciprocating member one at each lateral side of the package, said pair of folding fingers being operable to fold in the lateral tucks of the package end closure by performing opposite swinging motions through angles of substantially 90 degrees and additionally straight motions in a horizontal plane, with one finger moving in an opposite direction to the other toward and from the package, a set of actuating elements associated with

each of said folding fingers being operable in imparting said swinging and straight motions to said folding fingers, said sets of actuating elements being slidable within said reciprocating member at right angles to the direction of reciprocation, a pair of stationary camways one at each side along the distance of reciprocation of said reciprocating member, each camway being engaged by one of said sets of actuating elements and being adapted to impart sliding motion to said elements in synchronism with reciprocation of said reciprocating member so that one set of actuating elements always slides in an opposite direction to the other set of actuating elements, and actuating means for said reciprocating member.

2,713,762

**PICKUP DRUM**

Leon R. Clausen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin  
Application May 31, 1951, Serial No. 229,217  
8 Claims. (Cl. 56—364)



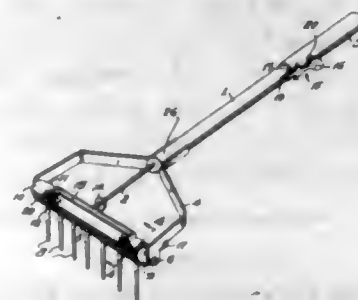
1. In a pickup unit for an agricultural implement, a stripping means, a cylindrical drum rotatably supported in stripping relationship with respect to said stripping means, said drum having formed thereon spaced circumferential continuous raised beads, said stripping means having stripper plates passing between said beads and terminating adjacent the periphery of said drum between said beads, said beads having circumferentially spaced openings formed therein, and pickup fingers extending through said openings and positioned substantially in the radial medial plane of their respective bead and in stripping relationship with respect to said stripping means whereby the material picked up by the fingers will be stripped therefrom, said stripper plates being greater in width than the width of said beads and said beads supporting an apron of material in a sufficiently elevated position with respect to the peripheral surface of said drum between said beads to clear the forward ends of said stripper plates.

2,713,763

**SELF-CLEANING RAKE**

Helvie Healey Holman and Woodrow Wilson Chatham,  
Terre Haute, Ind.

Application February 1, 1954, Serial No. 407,208  
10 Claims. (Cl. 56—400.1)



1. A self-cleaning rake comprising in combination a rake handle, a cleaning rod operatively associated with said rake handle and mounted for reciprocation with its axis parallel to the axis of the rake handle, a pair of spaced pivots mounted at the fore end of said cleaning rod with their axis in transverse position with respect to said rod,

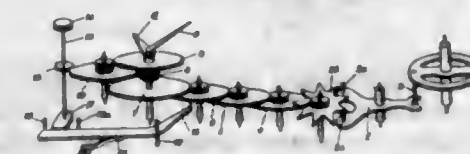
an elongated tine-holding head pivotally mounted in said pivots, spaced-parallel tines mounted in said tine-holding head, a second pair of spaced pivots mounted at the fore end of said rake handle with their axis in transverse position with respect to said handle, an elongated tine-cleaning means pivotally mounted in said second pair of pivots, said tine-cleaning means being provided with spaced apertures adapted to receive said tines with a sliding fit, the axis about which said tine-holding head pivots being spaced-parallel and offset with respect to the axis about which said tine-cleaning means pivots; said parts being so constructed and arranged that when the cleaning rod is in its foremost position the tine-holding head is abutted against the tine-cleaning means with the tines fully inserted in said apertures and with the tines in raking position, and that as the cleaning rod is pulled towards the rear the tine-holding head and the tine-cleaning means are simultaneously pivoted about their axes in the same direction sufficiently to enable the tines to be pulled by means of the cleaning rod partially through the apertures of the tine-cleaning means thereby to be cleaned.

2,713,764

**ELECTRIC WATCH SETTING MECHANISM**

Paul Dargier de Saint-Vaulry, Byans-sur-le-Doubs, France, assignor to Lip S. A. d'Horlogerie, Besancon, France  
Application May 11, 1953, Serial No. 353,954

Claims priority, application France May 16, 1952  
1 Claim. (Cl. 58—80)



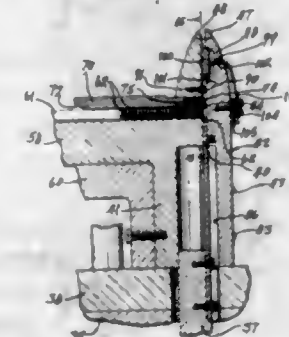
In an electrically controlled watch, the combination of a balance, a connecting member controlled by said balance, a gearwork including a plurality of wheels controlled by said connecting member, watch hands frictionally controlled by the last wheel of said gearwork, lever means pivotally secured at a stationary point and when moved adapted to engage one of the wheels of said gearwork to hold it fast together with the other wheels of the said gearwork, a cam member for actuating said lever, resilient means urging said lever against the cam, a time-setting spindle carrying said cam and being slip-frictionally connected therewith and two stop means for limiting the rotation of said cam in either direction upon rotation of said spindle, the rotation of said spindle controlling the setting of the watch hands and simultaneously urging and pivoting the said lever into its wheel-engaging position.

2,713,765

**POSITIONER FOR HANDLING ROUND LINKS FOR CLOSING COSTUME JEWELRY LINKS**

Gildo Capellazzi, Brooklyn, and Hermann Stegmaier,  
Flushing, N. Y.

Application April 15, 1953, Serial No. 349,052  
11 Claims. (Cl. 59—27)



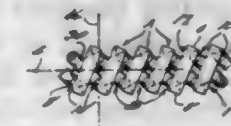
1. In a machine for closing breached costume jewelry links, the combination of gripping means for holding a

link in a position to be closed, said gripping means having a vertically extended channel of less depth than said links in which said links are to be fed to said holding position, a chuck for closing the breach of a link held at said position, power means for operating said chuck, a feed bar vertically slidable in said channel to feed a link vertically in said channel to said holding position, means for operating said feed bar, and means for feeding links one after another in substantially the desired position into said channel to be fed upward therein by said feed bar, said channel having a longitudinal groove of less width than the channel at the back thereof extending to said gripping means, an elongated rod within said groove, said rod being adapted to slidably receive on opposite longitudinal sides thereof the ends of the link as it moves toward said gripping means, and spring means normally urging said rod out of said groove into said channel.

2,713,766

**EXPANSIBLE BRACELET WITH ALIGNING PROJECTIONS**

John V. Saccone, Lodi, N. J., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York  
Application June 11, 1951, Serial No. 230,970  
6 Claims. (Cl. 59—79)



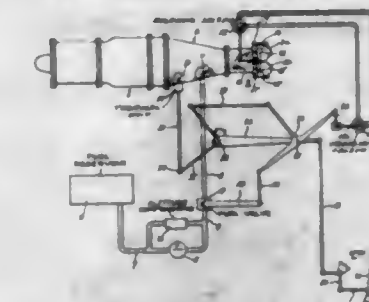
1. In an expansible bracelet comprising sets of top and bottom links pivotally interconnected at their ends; the improvement which comprises lateral protrusions on said top links on opposite sides thereof and at opposite ends thereof, the height of said lateral protrusions being less than the height of said top links, and means housed within said lateral protrusions for pivotally connecting said top link ends to appropriate bottom links, said top links having lateral recesses with an open side and a closed top opposite and of mating size with respect to said protrusions, the lateral protrusions of adjacent top links fitting inside said lateral recesses via the open sides thereof when said bracelet is in contracted condition with said top links adjacent one another and said protrusions being hidden from view by the closed tops of said recesses.

2,713,767

**FUEL AND VARIABLE AREA NOZZLE REGULATING APPARATUS FOR THERMAL POWERPLANT**

Joseph S. Alford, Nahant, and Donald F. Warner, Swampscott, Mass., assignors to General Electric Company, a corporation of New York

Application June 30, 1949, Serial No. 102,388  
10 Claims. (Cl. 60—35.6)



7. In an exhaust reheat system of a thermal powerplant for aircraft comprising a combustion chamber, means for supplying fuel to said chamber under pressure, means for controlling the rate of flow of the fuel, means for regulating the flow of combustion products from said combustion chamber, and control means comprising altitude compensating means for reducing the pressure of the fuel at the upstream side of said fuel control means in accordance with a preselected schedule and in response to varia-



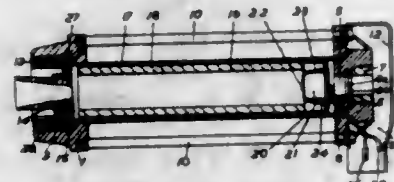
tions in the ambient atmospheric pressure, means for pre-selecting a desired position of said flow regulating means, means mechanically connecting said flow regulating means to said fuel control means for causing movements of said control means in direct proportion to movements of said flow regulating means, and means connected to said fuel control means for modulating the position of the latter means in response to an operating temperature of the powerplant.

2,713,768

**POWER GAS GENERATING ASSEMBLIES**

Robert Livingston, Prestwick, and Alexander Cantlay Hutchison, Salcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application March 3, 1950, Serial No. 147,412  
Claims priority, application Great Britain April 14, 1949  
4 Claims. (Cl. 60—35.6)



1. A power gas-generating assembly comprising an expendable charge portion including an annular solid gas-generating charge, a sheath of heat insulating material contingent with and surrounding said charge, and a metal tube contingent with and surrounding said sheath of insulating material, said metal tube extending beyond said charge and being open at both ends, a reusable frame portion for receiving successive expendable charge portions therein, said frame portion including a first end plate wall, a second end plate wall, rod means extending between said end plate walls for maintaining them in spaced relation, said second end plate wall having an opening therein of a size sufficient to permit said expendable charge portion to pass axially therethrough, a member having an exhaust outlet therein, and means for connecting said member with said second end plate wall and for moving said member axially into engagement with the adjacent open end of said metal tube until the opposite open end of the latter engages said first end plate wall, said member, said second end plate wall, and said metal tube forming a combustion chamber within which said gas-generating charge is expended.

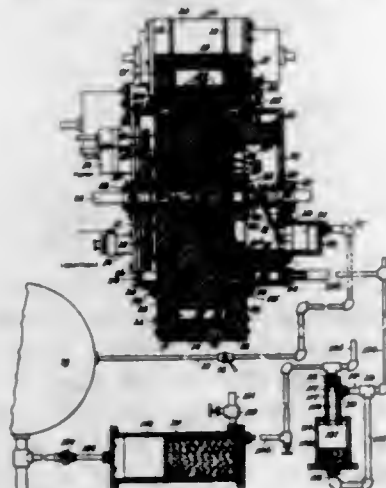
2,713,769

**SLIDING VANE ROTARY EXTERNAL COMBUSTION ENGINE**

John Johnson, Spokane, Wash.

Original application July 21, 1949, Serial No. 106,028.  
Divided and this application July 23, 1951, Serial No. 238,074

5 Claims. (Cl. 60—39.08)



2. In a combustion engine of the class described, a rotor, a casing having a circumferential wall spaced

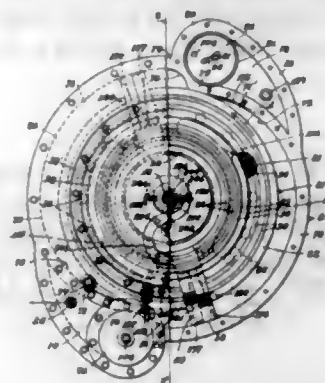
radially outwardly from the periphery of said rotor, an abutment on said wall extending inwardly to said rotor, said wall on the approach side of said abutment being gradually curved inwardly, and on the opposite side of the abutment being abruptly curved outwardly, a radial vane mounted in said rotor and comprising a forward plate and a follower plate, antifriction rollers on the forward outer edge of the forward plate and upon the rear outer edge of the follower plate, and cooperating means on said plates to limit the radial movement of said plates relative to each other.

2,713,770

**OSCILLATING VALVE FOR ROTARY EXTERNAL COMBUSTION ENGINE**

John Johnson, Spokane, Wash.

Application July 21, 1949, Serial No. 106,028  
13 Claims. (Cl. 60—39.61)



9. In a rotary combustion engine of the class described, a main casing including an annular wall and a pair of annular end plates, a rotor within said casing comprising a body portion, a hub and a pair of bearing rings fixed to said hub upon opposite sides of said body portion, said annular end plates having centrally disposed circular openings to receive said bearing rings, the edge walls of said openings being spaced radially from said hubs, roller bearings interposed between said edge walls and said bearing rings, outwardly extending end housings fixed to said annular end plates and closing said circular openings, radial slideways in said body portion of said rotor, vanes slidably mounted therein, the body of said rotor intermediate said slideways having oil containing recesses extending from side to side thereof, the radially outward walls of said recesses being located beyond the peripheries of said bearing rings, oil ducts leading from said recesses to the inner ends of said slideways, and means for supplying oil under pressure to said end housings.

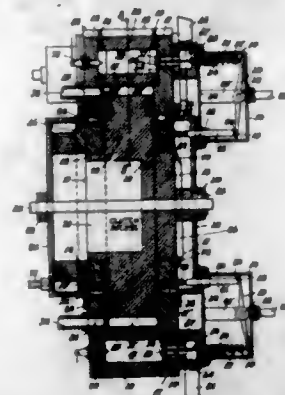
2,713,771

**VALVE ACTUATING MECHANISM FOR COMBUSTION ENGINES**

John Johnson, Spokane, Wash.

Original application July 21, 1949, Serial No. 106,028.  
Divided and this application July 23, 1951, Serial No. 238,075

2 Claims. (Cl. 60—39.61)



2. In a combustion engine of the class described, a casing comprising a circumferential body portion and a

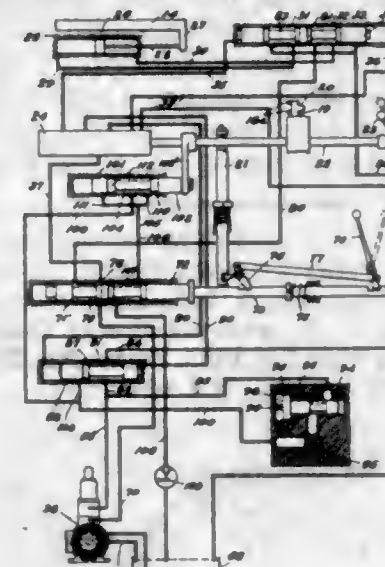
pair of annular end plates, each of said end plates having a central circular opening, and end housings closing said openings, a rotor in said casing comprising a vane body portion arranged between said end plates with a snug working fit, and bearing rings fixed to said body portion and extending into said circular openings, said circumferential body of said casing being radially spaced outwardly from the periphery of said rotor body and having a pair of diametrically opposite abutments extending inwardly to the periphery of said rotor and dividing the space between said circumferential body portion of the casing and said rotor into a pair of expansion chambers, the approach side of said abutments being gradually curved inwardly and the opposite side of said abutments curved abruptly outwardly, a combustion chamber formed in said casing radially outwardly from each of said abutments, a valve controlled port in the abruptly curved side of the abutments and communicating with the end of the adjacent expansion chamber, a pair of inlet ports in one of said body end plates communicating with said combustion chambers respectively, a poppet valve controlling each of said ports and each having a valve stem extending outwardly at substantially right angles to said casing, housings mounted outwardly of said casings, a lever of the first class mounted in each of the last said housings with one end thereof engaging one of said valve stems respectively, and a plunger rod parallel with each of said valve stems and having one end thereof engaging under the opposite end of said lever from said valve stem, said plunger rods extending into the adjacent end housing, and arcuate cams of different radii on said bearing rings adapted to simultaneously engage said plunger rods to actuate said valves.

2,713,772

**HYDRAULIC TRANSMISSION AND CONTROL FOR MACHINE TOOL TABLES**

Herman Horlacher, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio

Application October 16, 1952, Serial No. 315,107  
6 Claims. (Cl. 60—52)



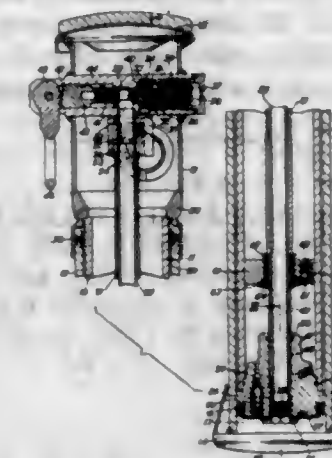
1. A hydraulic transmission and control for a machine tool table including a hydraulically actuable motor for the table, a variable displaceable VD pump, a reservoir, a forward pressure conduit system and a back pressure conduit system interconnecting said pump, motor and reservoir, said pump including a member shiftable to vary the volumetric discharge of the pump into the pressure conduit system, a spring reacting on said member to shift the same toward a maximum discharge position, and a pair of pressure cylinders, a piston in each cylinder positioned to react against the spring, the forward pressure conduit system including a pressure conduit coupled with one of said cylinders in such position that the pressure will react on its

2,713,773

**HYDRAULIC PIT PROP OR JACK**

Dudley G. Sutton, Cheltenham, England, assignor to Dowty Auto Units Limited, Cheltenham, England  
Application September 20, 1954, Serial No. 457,097  
Claims priority, application Great Britain

September 24, 1953  
4 Claims. (Cl. 60—52)



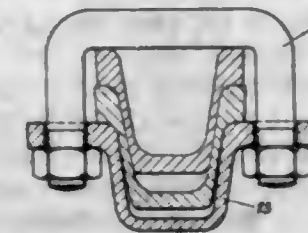
1. A hydraulic pit prop comprising an outer cylinder, a ram tube slidable in said outer cylinder, a closure member fixed to the inner end of the ram tube, said closure member defining in conjunction with the ram tube a low pressure reservoir for hydraulic liquid and in conjunction with the outer cylinder a variable volume pressure chamber, a conduit disposed co-axially within the ram tube, said conduit opening from the pressure chamber and extending towards the outer end of the ram, release valve means situated adjacent the outer end of the ram, said release valve means controlling return flow from said conduit to the reservoir, and pump means mounted in the ram tube for transferring liquid under pressure from the reservoir to the chamber, said pump means comprising large and small area annular pistons disposed concentrically between the conduit and the ram tube, reciprocating drive mechanism operative in common upon said large and small area pistons, and pressure-responsive means adapted to terminate the pumping action of the large area piston upon the attainment of a predetermined pressure in the pressure chamber.

2,713,774

**SUPPORTING FRAME, ESPECIALLY MINE SUPPORTS**

Hans Friedrich Heintzmann and Wilhelm Stuhlmann, Bochum, Germany, assignors to Bochumer Eisenhütte Heintzmann & Co., Bochum, Germany

Application August 3, 1949, Serial No. 108,254  
Claims priority, application France August 24, 1948  
6 Claims. (Cl. 61—45)



1. A mine support comprising at least two profile members of identical channel-like cross-section, each member

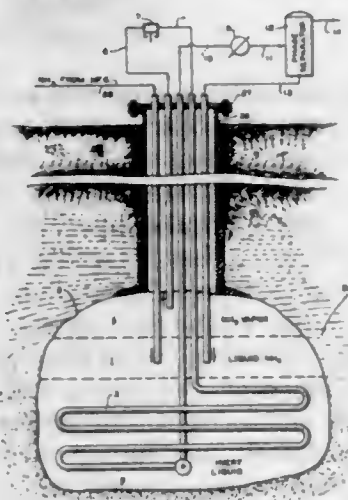


having an X-axis laterally across the channel and a Y-axis at right angles thereto and being symmetrical with respect to the Y-axis with the moment of resistance of one axis not exceeding the moment of resistance of the other axis by more than 50%, each profile member having a bottom part, a pair of web parts and a flange part on each web part opposite the bottom part, the ends of the two members being in overlapping engagement with the engaging channel-like portions opening in the same direction, the web parts of each profile member diverging gradually outwardly from the bottom part to the flange parts and including an opening angle of from approximately 15° to 45°, and each flange having a thickness in a direction parallel with the Y-axis greater than the thickness of the bottom part whereby the bottom parts are spaced at said overlapping portions of the members when under pressure, and means releasably connecting the overlapping ends of the profile members holding the corresponding and adjacent flange surfaces on each side of the U-shape in direct frictional engagement and permitting a longitudinal sliding movement of said profile members relative to each other when under pressure.

2,713,775

# RECOVERY OF SALT FREE LIQUID FROM LIQUID HAVING SALTS DISSOLVED THEREIN

John E. Cottle, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Application November 6, 1953, Serial No. 390,564  
17 Claims. (Cl. 62-1)



1. In the process for the recovery of salt-free inorganic liquid from a system comprising the said liquid containing salts dissolved therein and wherein the liquid is caused to evaporate from said system by heat supplied through a heat exchanger submerged in said salt containing liquid, the improvement comprising displacing said salt containing liquid around said heat exchanger with a liquid inert to the said first liquid, heat exchanger and salt, being heavier than and having a higher boiling point than the first liquid and supplying heat from said heat exchanger through said inert liquid to evaporate said salt containing liquid.

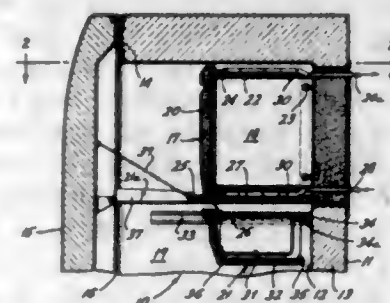
2,713,776

# REFRIGERATORS

Helen E. Smith, Langhorne, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania  
Application March 15, 1954, Serial No. 416,122  
8 Claims. (Cl. 62-99)

1. A refrigerator comprising a cabinet, a freezing compartment occupying a portion of the interior of said cabinet, means for changing the depth of said compartment, said means including an evaporator consisting of sections constructed for sliding adjustment one within the other, and means disposed adjacent said evaporator to direct air circulating within the remaining portion of the

interior of said cabinet in heat exchange relation with said evaporator, said last mentioned means including a food receptacle constructed of sections corresponding to

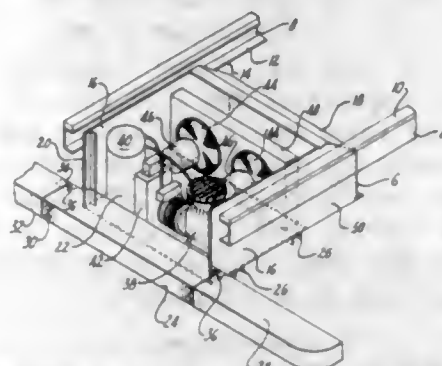


the sections of said evaporator and arranged for sliding adjustment one within the other to correspond to the adjustment of said evaporator sections.

2,713,777

# REFRIGERATED TRUCK BODIES

Raymond P. Mansmann, Pittsburgh, Pa.  
Application April 1, 1954, Serial No. 420,419  
2 Claims. (Cl. 62-117)

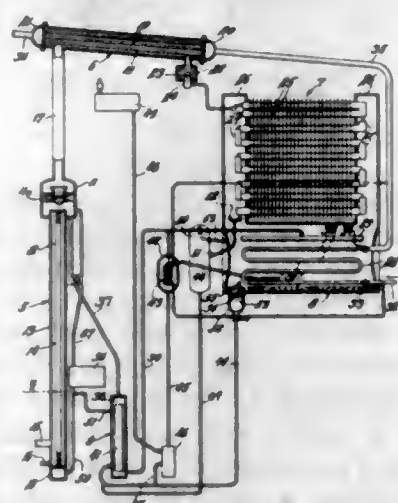


1. In a refrigerator truck body having a short wheel base, a plug-in type condenser unit mounted on a structural base below the floor of the truck at the rear end thereof, said condenser unit having its structural support slidably resting on supports mounted under the body of the truck and fixed at the rear end to a removable central bumper segment, said condenser unit having a transverse intake baffle at the front and constituting a part of said structural support spaced apart from and parallel to a condenser plate element to form an air intake for the condenser unit, intake fans and a compressor mounted on said structural base spaced between said condenser plate element and said removable central bumper.

2,713,778

# REFRIGERATION

Norton E. Berry, Newburgh, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware  
Application May 24, 1952, Serial No. 289,760  
10 Claims. (Cl. 62-119)



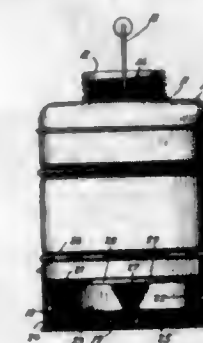
1. In an absorption refrigeration system, a circuit for absorption solution having an ascending portion in which

solution is lifted and a descending portion through which solution flows by gravity, a vapor liquid-lift in the ascending portion of the circuit, means for heating solution in the ascending portion of the circuit to expel refrigerant vapor, a standpipe connected to the ascending portion of the circuit for maintaining a hydrostatic reaction head of solution on the lift, the descending portion of the circuit being connected to the standpipe above the highest liquid level expected to occur therein during operation, and flow control means in the descending portion of the circuit for delivering absorption solution to the standpipe at a substantially constant rate, the liquid column in said standpipe automatically adjusting itself to the height required to lift the solution delivered thereto.

2,713,779

# THERMAL JUG

John A. Fitzgibbons, Azusa, Calif.  
Application July 20, 1953, Serial No. 368,877  
2 Claims. (Cl. 62-165)

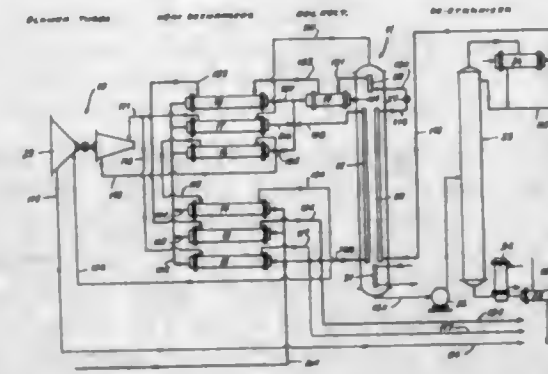


1. A thermal jug comprising a main cylindrical primary receptacle having a closed bottom and an open top, said receptacle being provided with a removable closure for said top, and an auxiliary receptacle having an imperforate circular base and a peripheral upstanding wall fitting around the lower end of the primary receptacle, said auxiliary receptacle having an internal flange projecting from the inner face of said wall and forming a support for the peripheral portion of the bottom of the primary receptacle, said auxiliary receptacle having a wall depending from the inner edge of said flange spaced parallel to said peripheral wall and having a partition closing the space at the bottom of the depending wall, said partition being spaced above the bottom of said auxiliary receptacle and forming an open topped pocket below the central portion of the base of the primary receptacle, means to releasably secure said receptacles together, and means in said pocket for supporting a refrigerant in the pocket against the bottom of the primary receptacle.

2,713,780

# PROCESS FOR SEPARATION OF GASES

Virgil C. Williams, Easton, Pa., assignor to Mississippi River Fuel Corporation, St. Louis, Mo., a corporation of Delaware  
Application August 8, 1952, Serial No. 303,276  
10 Claims. (Cl. 62-175.5)



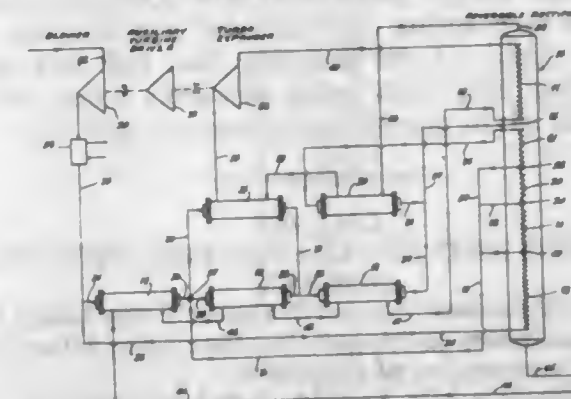
1. A process for reducing the cooling and refrigeration requirements in the separation under elevated pressure and

reduced temperature of a fluid mixture including a substantial proportion of hydrocarbons having different boiling points into an overhead product and a bottoms product in which at least one of said products comprises a major proportion of hydrocarbons in a vertical column type system having a condensing section with a fluid inlet opening into the column beneath the bottom of said section and a stripping section extending downwardly from adjacent the inlet to the lower part of the column, which comprises the steps of: cooling the feed fluid mixture at an elevated pressure from an ambient temperature to a reduced temperature between its dew point and complete condensation wherein said fluid is at least partially condensed, delivering the feed mixture into the column by means of the inlet; supplying heat sufficient to vaporize substantially all of the lower boiling point components, at least part of said heat being supplied by introducing into the bottom portion of the stripping section a fluid heat exchange medium in indirect heat exchange relation with, and at a temperature slightly above, the temperature of the material in the bottom of the column at its point of introduction, said heat exchange medium consisting of at least a part of said feed fluid prior to its deliverance to the column, providing thereby a rising vapor stream of the lower boiling components and a descending liquid stream of the higher boiling point components; causing the heat exchange medium to rise within the column and cooling the heat exchange medium by heat exchange with the vapor and liquid components within the column under conditions such that at any section in the column where said heat exchange medium is present, said heat exchange medium, vapor and liquid components are all in substantial temperature equilibrium with one another, and withdrawing said heat exchange medium from the column adjacent the inlet at approximately the reduced temperature of the incoming mixture of fluids.

2,713,781

# VARIABLE REVERSIBLE RECTIFICATION PROCESS

Virgil C. Williams, Kirkwood, Mo., assignor to Mississippi River Fuel Corporation, St. Louis, Mo., a corporation of Delaware  
Application October 26, 1953, Serial No. 388,145  
10 Claims. (Cl. 62-175.5)



1. A process for separating a mixture of fluids having different boiling points, in a vertical column type system having a fluid inlet opening into the column above the bottom thereof and a stripping section extending downwardly from adjacent the inlet to the lower part of the column, comprising the steps of: delivering into the column, by means of the inlet, the fluid to be separated into a lower boiling point gaseous component and a higher boiling point liquid component; introducing into the bottom portion of the stripping section a fluid heat exchange medium in indirect heat exchange relation with, and at a slight temperature above the temperature of the material in the bottom of the column, said heat exchange medium having an available heat content driving force sufficient to deliver heat to the column and vaporize substantially all of the lower boiling point



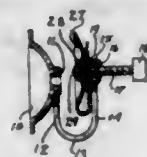
component, providing thereby a rising vapor stream of the lower boiling component and descending liquid stream of the higher boiling point component; causing the heat exchange medium to rise within the column and cooling the heat exchange medium by heat exchange with the vapor and liquid components within the column, reducing the available heat content of the heat exchange medium by withdrawing in at least one stage a portion of the heat exchange medium, causing the remainder of the heat exchange medium to rise in the column to impart heat to the materials in the column and cause said heat exchange medium to be cooled thereby, in a varying temperature gradient heightwise above said withdrawal point up to adjacent the inlet and maintaining the vapor and liquid components in substantial temperature equilibrium with another at any section in the column where said heat exchange medium is present, and withdrawing said heat exchange medium adjacent the inlet.

2,713,782

## CLAMP PLATE FOR EARRING

Albert H. Sauer, Jr., Cincinnati, Ohio; Gertrude K. Sauer, administratrix of said Albert H. Sauer, Jr., assignor to A. Sauer and Co., Inc., Cincinnati, Ohio, a corporation of Ohio

Application August 22, 1952, Serial No. 305,759  
4 Claims. (Cl. 63-14)



1. As an article of manufacture a removable clamp plate of a substantially U-shape in vertical cross section for an earring clamp screw and formed from a single blank of material, said U-shaped clamp plate one arm comprising a disc concaved on its forward face forming the clamping disc and providing a relatively large clamping area, said clamp plate second arm comprising a tongue disposed behind the clamping disc, with said tongue longitudinally slit to provide a pair of spring arms, said tongue having an aperture intermediate the ends of the spring arms with said aperture partially formed in each spring arm and with the aperture substantially axially of the clamping disc, and said spring arms at their outer ends being outwardly flared with respect to the slit to provide an entrance to said slit.

2,713,783

## METHOD AND APPARATUS FOR MENDING HOSIERY

Edward E. Zane and Conrad J. Caron, Long Island City, N. Y., assignors to Mojud Co., Inc., Long Island City, N. Y., a corporation of Delaware

Application July 1, 1954, Serial No. 440,606  
4 Claims. (Cl. 66-1)



1. Apparatus for restoring to original condition a knitted fabric one loop of which has become enlarged and adjacent loops reduced, comprising, in combination, a wheel having teeth thereon which teeth are substantially isosceles triangles, said wheel having a thickness in the tooth area no greater than the width of a normal

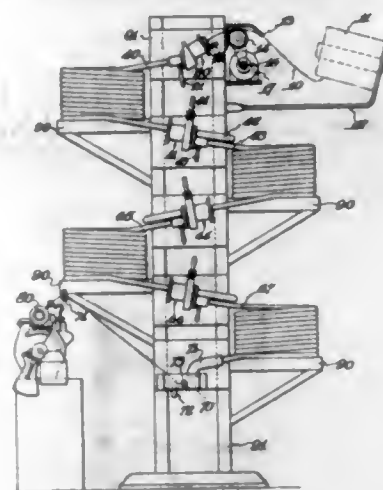
course of the fabric to be restored, means for rotating said wheel in either direction while in contact with the sides of the enlarged and reduced loops whereby said wheel may operate upon loops at either side of the enlarged loop while maintaining the apparatus and fabric in substantially the same relative positions.

2,713,784

## TUBULAR COIL YARN PROCESSOR

Paul M. Cole, Claymont, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application November 9, 1949, Serial No. 126,288  
7 Claims. (Cl. 68-181)



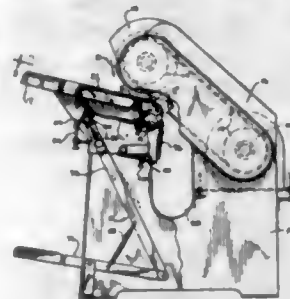
3. An apparatus for treating filamentous structures with fluid which comprises a reservoir chamber for treating fluid, a small exit tube of sufficient size to accommodate the filamentous structure to be treated communicating with the lower part of said chamber, said tube extending a short distance inside the end of a larger tube and forming therewith an annular orifice, a long coiled tube forming an extension of said larger tube, means for supplying treating fluid under pressure to said annular orifice, means for supplying treating fluid to said reservoir chamber, and means for introducing a filamentous structure to be treated into said reservoir chamber to pass with treating fluid through said exit tube and through said coiled tube.

2,713,785

## SKIN TREATING MACHINE

Samuel Friedman, Brooklyn, N. Y., assignor to Reliable Machine Works, Inc., Brooklyn, N. Y., a corporation of New York

Application June 10, 1953, Serial No. 360,635  
14 Claims. (Cl. 69-27)



1. A skin treating machine comprising a rotatable drum for treating the skin, and mechanism for bringing the skin to the rotatable drum to be operated upon and to be fed by the rotation of the drum, said mechanism comprising a flexible work support upon which the skin is adapted to be placed and on which it is carried towards the drum, movable elements located at oppositely spaced portions of said work support and engaging the same for effecting movement thereof, one of said movable elements being movable towards said drum in one rotative direction

and the other of said movable elements being movable towards said drum in the opposite rotative direction, and means for moving said elements towards peripherally spaced portions of the drum whereby the work support and the skin carried thereby are brought to the drum and are arcuately wrapped about the drum.

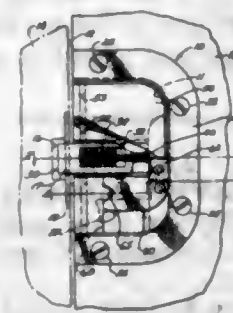
2,713,786

## LATCH MECHANISM

Carl F. Friend, Sandy Springs, Ga.

Application December 6, 1948, Serial No. 63,806, now Patent No. 2,674,484, dated April 6, 1954, which is a division of application Serial No. 592,547, May 8, 1945, now Patent No. 2,485,042, dated October 18, 1949. Divided and this application February 23, 1954, Serial No. 411,887

9 Claims. (Cl. 70-150)



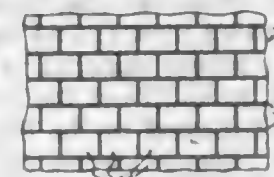
2. In a device of the character described, the combination of: a housing; a latching bolt slidable relative to said housing between extended and retracted positions; resilient means for biasing said latching bolt toward said extended position; actuating means for retracting said latching bolt; and a locking bolt slidable relative to said housing and transversely of said latching bolt between operative and inoperative positions, said locking bolt having spaced arms straddling and slidable on a portion of said housing which is disposed between such arms, said locking bolt being slidable into said operative position when said latching bolt is in its extended position, and said locking bolt, when in said operative position, being disposed between an end of said latching bolt and another portion of said housing.

2,713,787

## REFRACTORY WALL SECTION AND METHOD OF MAKING THE SAME

Ralph Rose, Columbus, Ohio, assignor, by mesne assignments, to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware

Application October 31, 1949, Serial No. 124,531  
6 Claims. (Cl. 72-37)



1. A wall section comprising in combination two basic refractory blocks disposed adjacent to each other and joint material disposed between said blocks and bonding the joint surfaces thereof to each other, said joint material comprising the reaction product of a Thermit-type of material, and said Thermit-type of material comprising a mixture of a first metal and an oxide of iron, the heat of formation of the oxide of said first metal being greater than the heat of formation of the said oxide of iron, said mixture being characterized by an exothermic reaction, upon ignition, which is violent and self-sustaining, and said reaction product initially being in the form of a fused porous mass containing a substantial quantity of metallic iron.

2,713,788

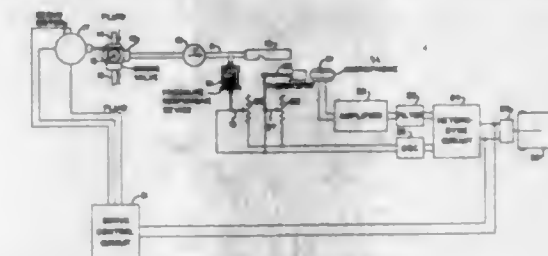
## APPARATUS FOR MEASURING THE DENSITY OF GASES

John C. Goff, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy

Application February 4, 1953, Serial No. 335,178

4 Claims. (Cl. 73-30)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for measuring the density of fluids comprising, a nozzle having fluid flowing therethrough at a constant rate, said nozzle producing an audible signal variable in pitch in accordance with the density of said fluid, a transducer for providing an electrical signal variable in frequency in accordance with the variations in pitch of said audible signal, means for providing a signal of substantially constant frequency, means for controlling said constant frequency signal including a thermostat positioned adjacent said nozzle and responsive to changes in temperature of said fluid impinging thereagainst as the fluid flows from said nozzle, means for heterodyning the variable electrical signal against said substantially constant signal, and means for recording the output of said heterodyning means.

2,713,789

## PERMEAMETER

Frank C. Kelton, Dallas, Tex., assignor to Core Laboratories Inc., Dallas, Tex., a corporation of Texas

Application October 16, 1951, Serial No. 251,561

4 Claims. (Cl. 73-38)



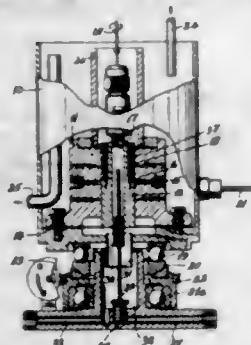
1. Apparatus for measuring the permeability of cylindrical oil sand core samples which comprises a vise assembly having a pair of oppositely disposed jaws and means for applying substantial clamping pressure to said jaws, a pair of resilient face members each mounted on one of said jaws and having oppositely disposed generally semi-cylindrical recesses with generally diametrically opposed openings therein, whereby said core samples may be received between said face members and substantial clamping pressure applied thereto to substantially seal a longitudinal section of said core sample against the escape of gas therefrom, a supply conduit adapted to connect one of said openings with a source of gas under pressure, a vent conduit in communication with the other of said openings, whereby to permit the passage of gas through said core sample at a rate of flow depending upon the permeability of said core sample, and a flow meter connected with at least one of said conduits for measuring the rate of flow of gas through said conduit as a measure of the permeability of said sample.



2,713,790

## ROTATIONAL VISCOMETER

Everett M. Barber, Wappingers Falls, and James R. Muenger and Frederick J. Villforth, Jr., Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware  
Application October 12, 1951, Serial No. 251,004  
2 Claims. (Cl. 73-60)

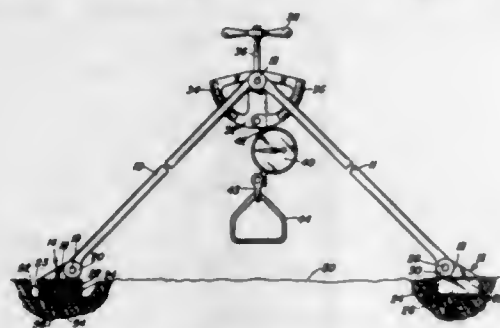


1. A rotational viscometer comprising an outer chamber, a cylinder fixed thereto and spaced from the side wall of the chamber to form a fluid retaining jacket about the cylinder, a rotor formed with a longitudinal bore and mounted for rotation within the cylinder to provide a film space therebetween for the material to be tested, a conduit disposed to discharge a cooling fluid into the jacket about the cylinder and a conduit disposed to discharge a cooling fluid into the bore of the rotor, the bore of the rotor being of such diameter that the heat path from the film surface to the bore surface is substantially equal in resistance to the heat path from the film surface to the external surface of the cylinder.

2,713,791

## INSTRUMENT FOR MEASURING PHYSICAL CHARACTERISTICS OF SOIL

Richard C. Stewart and Stanley J. Weiss, Oxnard, Calif.  
Application January 30, 1952, Serial No. 269,101  
10 Claims. (Cl. 73-101)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An instrument for determining physical characteristics of soil, comprising a pair of inclined legs pivotally connected to each other and each having at its free end a soil engaging shoe, means for indicating the angle which the legs make with the vertical, means for applying a vertical force to said legs substantially at the pivotal connection of said legs, and means for indicating said force.

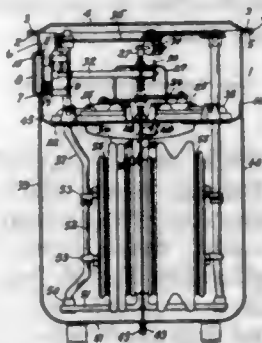
2,713,792

## GAS METER CASING

Arthur F. Benson, Erie, Pa., assignor to American Meter Company, Incorporated, Erie, Pa., a corporation of Delaware  
Application November 25, 1953, Serial No. 394,335  
2 Claims. (Cl. 73-274)

1. A gas meter casing comprising an upper gas distributing chamber and lower measuring chambers, said gas distributing chamber comprising a one-piece open-topped pan with a bottom and upwardly extending side walls for mounting valves and registering mechanism, and a cover for the open-topped pan, said gas measuring chambers comprising a center partition depending from

and sealed to the bottom wall of the pan for mounting measuring diaphragms, and an open-topped lower case consisting of two halves respectively on opposite sides of the center partition and each having outwardly extending

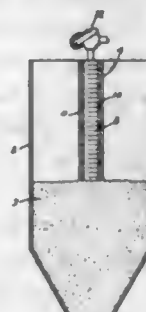


peripheral flanges abutting and secured to the center partition which is sandwiched between the flanges, the lower end of the open-topped pan of the gas distributing chamber being telescoped within and sealed to the open top of the lower case.

2,713,793

## BIN-LEVEL INDICATOR

John W. Andersen, Dayton, Ohio, assignor, by mesne assignments to The Chemstrand Corporation, a corporation of Delaware  
Application May 5, 1952, Serial No. 286,191  
6 Claims. (Cl. 73-301)



1. An apparatus for indicating the level of a solid granular material in a closed container comprising a vertical supporting means, resistor means mounted along the length of the supporting means, a series of leaf spring contacting means integrally attached to each other at one end and mounted in cantilever fashion on the supporting means on said end, said contacting means being arranged in a vertical series along the supporting means with the axes of the contacting means being perpendicular to the axis of the supporting means, the other end of said leaf spring contacting means being adjacent the resistor means, film means positioned over the resistor and contacting means to keep the granular material out of contact therewith, pressure equalizing means positioned adjacent the supporting means, said pressure equalizing means comprising a porous material to allow the passage of gas therethrough to and from the interior of the container and the space formed by the film means and supporting means, and electric circuit means connected to the resistor means and contacting means, said circuit means comprising a resistance measuring means for measuring the variance of resistance in the resistor means caused by the pressure of the granular material on the contacting means forcing the latter into contact with the resistor means.

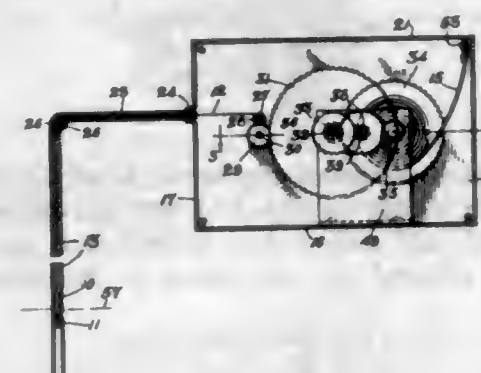
2,713,794

## WELL LIQUID GAUGE

Clyde A. Burns, Ackerly, Tex.  
Application August 18, 1953, Serial No. 374,938  
1 Claim. (Cl. 73-321)

In a well liquid gage, a float member including a solid lower portion and a hollow upper portion, an eye on the upper end of said float member, a cable having its lower

end connected to the eye on said float member, a casing including a base, walls, and a cover, a spool positioned in said casing, a spring for actuating said spool, a hollow tube including a vertically disposed portion adapted to project down into a well and having said float member movably mounted therein, a boss on the end of said casing having a horizontal portion of said tube connected thereto, a pulley pivotally mounted in said tube at the intersection of the horizontal and vertical portions of said tube and said pulley having said cable trained thereover, a first shaft having said spool journaled thereon, a second and third shaft arranged in spaced, parallel

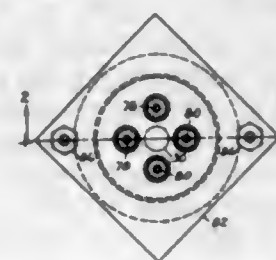


relation with respect to said first shaft, intermeshing gears interconnecting said shafts together, a fourth shaft spaced from said third shaft and having a pointer mounted thereon, a pointer mounted on said third shaft, concentrically arranged graduated scales for coaction with said pointers to indicate the number of feet and inches of travel of said float member, a support plate having said third and fourth shafts journaled thereon, a fifth shaft having said spring coiled therearound, gears interconnecting said third and fifth shafts together whereby slack in the cable resulting from fluid moving upwardly in the well is taken up by the spring whereby the elevation of fluid in a well can be ascertained.

2,713,795

## PRESSURE MEASURING DEVICE

Lee R. Herndon, Jr., Charles A. Piper, and Arthur M. Smith, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware  
Application December 30, 1950, Serial No. 203,669  
13 Claims. (Cl. 73-384)

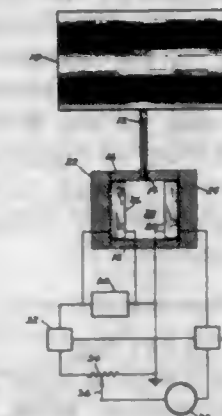


1. A pressure sensor, including, a container, means providing a coupling between the container and fluid outside of the container, a liquid in the container adapted to boil at a temperature related to the pressure of the fluid surrounding the container, means for boiling the liquid at the required temperature, a plate disposed within the container in contiguous relationship to the liquid, there being an opening in the plate, an electrical temperature measuring means including a resistance disposed on the plate to receive the liquid bubbling up through the opening in the plate so as to provide a resistance value indicative of the boiling temperature of the liquid, means for condensing the vapor, and a plurality of baffles disposed in the container to heat the condensate as it returns to the liquid so that only a minimum amount of heat is required to vaporize the condensate again.

2,713,796

## PRESSURE MEASURING DEVICE

Lee R. Herndon, Jr., Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware  
Application July 3, 1950, Serial No. 171,865  
8 Claims. (Cl. 73-398)

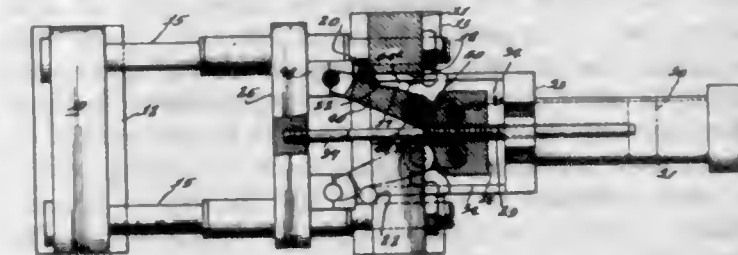


1. Apparatus for measuring the pressure of a gas, including, means forming a receptacle adapted to receive some of the gas at the pressure to be measured, a first transducer in the receptacle and adapted upon the application of a signal to become changed in volume in accordance with the amplitude of the applied signal and the pressure of the gas, the receptacle having a sufficiently small volume to produce measurable variations in the pressure of the gas in accordance with the changes in volume of the first transducer, a second transducer in the receptacle and adapted to produce a signal having an amplitude substantially proportional to the change in pressure of the gas, and means for measuring the ratio of the amplitudes of the input and output signals to provide an indication of the gas pressure.

2,713,797

## PRESSURE APPLYING AND LOCKING APPARATUS

Carl Roehrl, Niles, Ill.  
Application August 24, 1953, Serial No. 376,035  
6 Claims. (Cl. 74-110)



1. Pressure applying and locking apparatus comprising a framework having a front stationary member, a rear stationary member with a central opening there-through, elongated bars connecting said members, a driven member slidably carried by said bars, and a pair of shafts fixed on the front side of said rear stationary member, each shaft lying generally along a lateral edge of said central opening and engaging said stationary member throughout the shaft length, a portion of the lateral edge of said central opening being relieved through said stationary member to expose a portion of the rear side of said shaft and provide a channel, the relieved portion of said lateral edge being further relieved adjacent said shaft to provide a recess, a driving member adapted to travel back and forth through said central opening, a part-time disengageable toggle-joint between said driven member and each shaft, each toggle-joint comprising a long link pivotally connected at one end to said driven member and a claw link pivotally connected to the other end of said long link, said claw link having a hook portion at its free end adapted to travel through said channel in said rear stationary member, said hook portion hav-

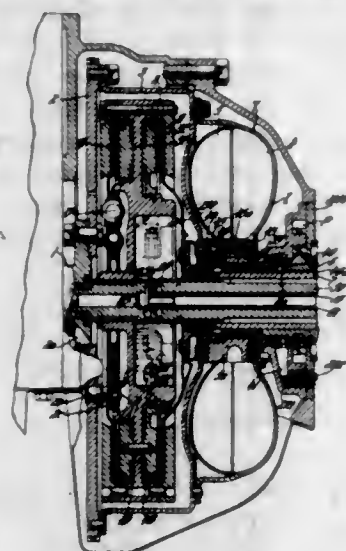


ing a tip end adapted to enter said recess to provide prolonged toggle action when said claw link engages and disengages said shaft, and a toggle-joint actuating link extending between said driving member and said toggle-joint, said driving member being shaped and disposed to impart movement directly to said claw link and said long link during the portion of the forward stroke prior to engagement of said claw link and said shaft, said claw link being guided by the unrelieved lateral edge of said central opening during this portion of the stroke and being guided by said driving member into bearing relation with said shaft prior to toggle action, said toggle-joint actuating link having a length providing "on center" movement of said toggle-joint for locking said apparatus in pressure applying position.

2,713,798

**SELECTIVE AUTOMATIC DRIVE**

Walter B. Herndon, Rochester, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application June 12, 1948, Serial No. 32,656  
32 Claims. (Cl. 74—336.5)



1. In power controls, a variable ratio transmission, actuator mechanism for changing the drive ratio of said transmission, fluid pressure means operative upon said mechanism for actuating the change of ratio of said transmission, a shaft connected to said transmission, control valves operable to direct fluid pressure to said means or to vent fluid pressure from said means, a rotating governor body attached to said shaft and formed to accommodate a radially-movable weight and a radially movable valve subject to centrifugal force for selecting the operation of said control valves in accordance with rise of speed of said shaft, and controllable variable resistance means operative to oppose the combined centrifugal force action of said weight and said valve under increase of the speed of said shaft.

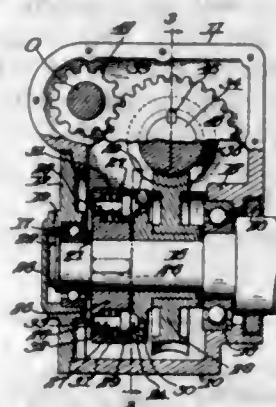
2,713,799

**WORM GEARING**

Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill., assignors to The Crichton Company, Johnstown, Pa., a corporation of Delaware  
Application September 20, 1950, Serial No. 185,884  
5 Claims. (Cl. 74—425)

1. A power take-off assembly comprising a casing, a power input shaft journaled therein, a gear on the latter and driven thereby, bearings for said shaft between which said gear is disposed, a second shaft, said second shaft having its axis at a different elevation from said input shaft and disposed approximately at right-angles thereto, a gear enmeshed with said first gear and disposed in driving relation to said second shaft, said casing having an opening at one wall thereof, a web inwardly of said wall,

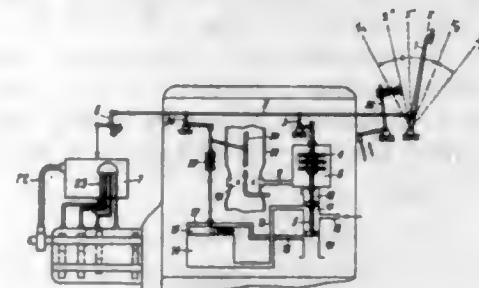
said second shaft being journaled in said web and in a wall of said casing in spaced relation to the web, a plate closing said opening, an output shaft journaled in said web, gearing between the second-mentioned and output



2,713,800

**DEVICE FOR CONTROLLING INTERNAL COMBUSTION ENGINE DRIVE**

Hans J. M. Forster, Harthausen A. F., Kr. Esslingen (Neckar), Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany  
Application October 3, 1950, Serial No. 188,198  
Claims priority, application Germany October 5, 1949  
17 Claims. (Cl. 74—472)



1. Apparatus for controlling an internal combustion engine drive assembly including a transmission having several gear ratios interposed between the engine and a driven shaft; said apparatus comprising feeler means responsive to an operating characteristic of the engine which varies substantially proportionally to the power output of the engine, power output control means actuated by said feeler means for manipulating the engine throttle so that the power output tends to be maintained at a preselected value, adjusting means operatively connected to said feeler means for adjusting the latter to vary the preselected value of power output which said control means tends to maintain, a shift device for shifting the transmission, means actuating said shift device in response to changes of speed of the driven shaft of predetermined values, and means operatively connected to said adjusting means and to said shift device actuating means for adjusting said predetermined values of driven shaft speed in response to variations of said preselected value of power output.

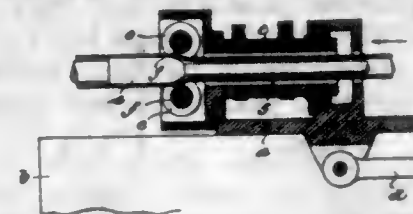
2,713,801

**TUBE STRETCHING MACHINES**

Fritz Singer, Starnberg (Oberbayern), and Fritz Haase, Goppingen (Wurttemberg), Germany, assignors, by mesne assignments, to Tube Reducing Corporation, Wallington, N. J., a corporation of Delaware  
Application August 13, 1951, Serial No. 241,637  
Claims priority, application Germany October 10, 1948  
7 Claims. (Cl. 80—12)

1. A tube stretching machine including a machine bed, a slide mounted on said bed for reciprocating motion, a

headstock rotatably mounted on the slide, a die mounted on the headstock and comprising a plurality of arcuate working surfaces arranged to embrace a tube, means

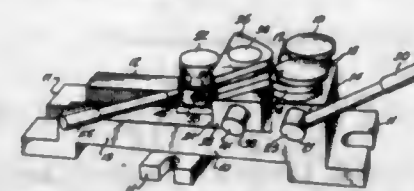


operatively related to the slide for imparting angular movement to the headstock, and means on the bed for engagement by the first named means to actuate the same.

2,713,802

**QUICK-ACTING VISE**

Myron Budd Mittleman, Larchmont, N. Y.  
Application February 18, 1953, Serial No. 337,479  
5 Claims. (Cl. 81—17)



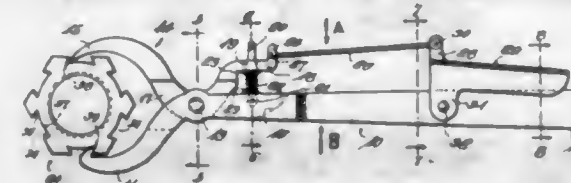
2. A vise comprising a bed having a guide slot therein, a pair of confronting jaws mounted on said bed and disposed axially of said guide slot, at least one of said jaws being independently slidable along said guide slot, a clamp and cam assembly guided by said slot and independently slidable therealong, said clamp and cam assembly including a cam relatively movable along said slot with respect to said assembly, a bed-gripping means for releasably securing said assembly in such position that said cam abuts said slidable jaw, and separate means for operating said cam and said bed-gripping means, whereby said cam, when maintained in contact with said slidable jaw by said bed-gripping means, can be operated to move said slidable jaw along said slot in order to grip a work-piece.

5. Variable-profile article detent means including a base having first and second apertures therein, said apertures intersecting substantially normally, a pin, a stack of apertured plates, said pin passing through the apertures in said plates and into said first aperture, at least one of said plates having an aperture of substantially greater diameter than the diameter of said pin, said pin having a transverse bore registering with said second aperture, a cam shaft journaled in said second aperture, at least a part of the cammed portion thereof lying within said bore whereby upon rotation of said shaft said cammed portion engages the walls of said bore to tighten said pin against said plates so as to releasably secure said plates in position.

2,713,803

**PLIER TYPE SPANNER WRENCH**

Leo Schwaiger, Cullman, Ala.  
Application November 13, 1952, Serial No. 320,209  
1 Claim. (Cl. 81—90)



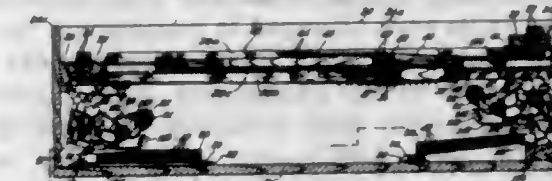
A device of the character described comprising a hook-ended arcuate puller jaw member, a chisel-ended arcuate pusher jaw member, pivot means interconnecting said jaw members for relative angular movement therebetween, a handle member integrally formed with said

puller jaw member, an operating handle pivoted to said handle member adjacent the free end thereof, an arm formed integrally at one end with said pusher jaw member and having its free end disposed on the same side of the longitudinal axis as said pusher jaw member, a pair of ears affixed to the free end of said arm, a like pair of ears affixed to the outer side of said operating handle, a link interconnecting said pairs of ears, a pin pivotally connected to said handle member and extending slidably through said arm, and a compression spring surrounding said pin and bearing against said arm and said handle member, thereby urging said jaw members toward each other.

2,713,804

**PIANO**

Delbert G. Cline, New Castle, Ind., assignor to H. & A. Selmer, Inc., Elkhart, Ind., a corporation of Indiana  
Application September 8, 1950, Serial No. 183,827  
15 Claims. (Cl. 84—174)

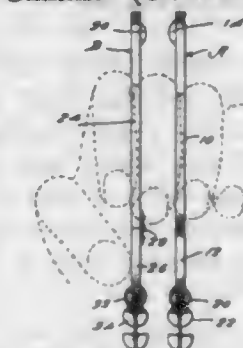


1. In a piano, a frame, a generally horizontally disposed rectangular sounding board in said frame having a pair of opposed faces, a plurality of keys and sharps arranged to form a keyboard, the keyboard lying in spaced parallel relationship to the sounding board, a first set of musical strings stretched across said frame and bridged on one face of said sounding board, a second set of musical strings stretched across the frame and bridged on the opposite face of said sounding board, both sets of strings being disposed lengthwise with respect to said sounding board, a plurality of coaxially aligned actions to selectively strike said strings of both sets of strings and extending transversely across each end of said sounding board, and actuating means between each of said actions and a corresponding one of said keys and said sharps of said keyboard.

2,713,805

**DUAL CASTANETS**

Ezekiel Flores, Los Angeles, Calif.  
Application September 15, 1952, Serial No. 309,676  
3 Claims. (Cl. 84—402)



1. Dual castanets comprising a pair of flat units, each having an elongated straight upper end portion and a circular lower end portion, a tap fixedly mounted on each of the upper ends of the opposed faces of said straight end portions, and a plurality of freely swingable tap elements spaced about and suspended from the lower edge portion of said circular portions.

2,713,806

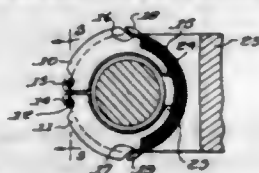
**END PLAY TAKE UP WASHER**

Ruez M. Dodge, Charleston, W. Va.  
Application March 20, 1952, Serial No. 277,686  
1 Claim. (Cl. 85—51)

In an end play take up washer, a pair of substantially semi-circular similar sections, the inner portions of said



sections coacting to define a circular opening for receiving a pin, each of said sections being wedge shaped in cross section, the inner edge of said sections terminating in a knife edge and being of less thickness than the outer edge of the section, said sections each having a first inclined slot defining a hook in the outer edge thereof, said first slots being arranged adjacent an end of said sections, a split ring extended over said hooks and connecting adjoining ends of said sections together, a tongue formed integral with each of said sections and being of less width than the remaining portion of said sections, there being an inclined cut out in each of said sections defining a hook,



said cut outs being smaller than said slots, a coil spring having eyes on its ends arranged in engagement with said last named hooks, the outer ends of said hooks being pointed, said coil spring overlapping outer portions of said tongues, said cut outs extending tangentially with respect to said pin, the thin inner edges of said sections extending into an area between a hub of an arm of a steering assembly and a hub of a bracket, the adjacent end portions of said sections contiguous to said slots being straight and arranged parallel to each, the outer ends of said tongues being spaced from each other a greater distance than the distance between said straight end portions when the sections are on the pin.

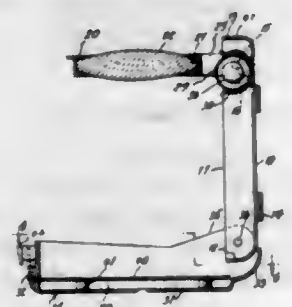
2,713,807

## FISHING FLY SELECTOR

Edward J. Herbert, Scarsdale, N. Y.

Application November 26, 1951, Serial No. 258,115

1 Claim. (Cl. 88-39)



A selector and threading device for fishing flies comprising a vertical wall provided with means for attachment to a users' garment, a rectangular frame and legs extending from the frame which are pivotally mounted at the upper end of the vertical wall, a magnifying lens mounted in the frame, an illuminating bulb carried at the upper end of the vertical wall, a hinged receptacle at the lower end of said wall and provided with side flanges which receive the vertical wall and its attached members when the article is in closed position, and a fly supporting plate positioned within the receptacle and having a space between the plate and the lower wall of the receptacle.

2,713,808

## MICROSCOPE OBJECTIVE

Walter Klein, Dutenhofen, Kr. Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., a corporation of Germany

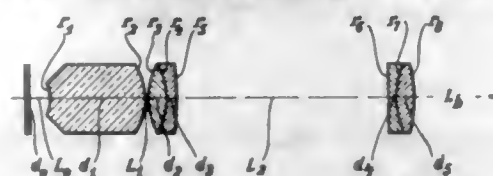
Application May 13, 1953, Serial No. 354,705

Claims priority, application Germany June 16, 1952

4 Claims. (Cl. 88-57)

1. A microscope objective consisting of two groups of lens elements, the first group consisting of a thick meniscus front lens, a converging lens element on the image

side of said thick meniscus, a dispersing cemented surface within said converging lens element, said dispersing surface being concave toward the thick meniscus for correcting the astigmatism caused by said thick meniscus; said second group consisting of a single lens element having a cemented surface within the same convex toward the said thick meniscus, said single lens element con-



sisting of a negative lens on the object side of said convex surface and a positive lens on the image side of said convex cemented surface, the said second group being spaced an uninterrupted distance of at least fifteen millimeters away from the cemented surface in the said first group for correcting the astigmatism and coma, the said front lens being the only thick meniscus in the said objective.

2,713,809

## WIDE-ANGLE FOUR COMPONENT OPTICAL OBJECTIVES

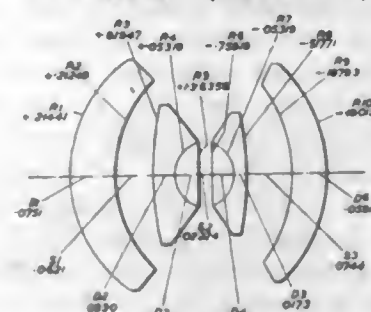
Gordon Henry Cook, Leicester, England, assignor to Taylor, Taylor &amp; Hobson Limited, Leicester, England, a British company

Application November 16, 1953, Serial No. 392,365

Claims priority, application Great Britain

November 20, 1952

19 Claims. (Cl. 88-57)



1. A wide-angle optical objective corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising four convergent components of which the outer two are each of strongly meniscus form with their surfaces concave to the diaphragm, whilst the inner two are each compound with a dispersive internal contact surface concave towards the diaphragm, the arithmetic mean of the focal lengths of the outer components lying between  $F$  and  $4F$ , whilst that of the inner components lies between  $2F$  and  $12F$ , where  $F$  is the equivalent focal length of the whole objective.

2,713,810

## ADJUSTABLE REAR VIEW MIRRORS FOR VEHICLES

William B. Hill, Minneapolis, Minn., assignor to E-Z Products, Inc., Mankato, Minn., a corporation of Minnesota

Application April 17, 1953, Serial No. 349,478

5 Claims. (Cl. 88-93)



1. A rear view mirror for automotive vehicles, said mirror comprising a tubular arm section, means mounting said arm section near its inner end for universal rotary

and swinging movements through a wall of said vehicle, a tubular extension section telescopically mounted in said arm section for extending and retracting movements outwardly of said vehicle, a mirror element, means mounting said mirror element on the outer end of said extension section for swinging movements in directions generally longitudinally of the extension section, a screw device in said tubular arm section, said screw device comprising cooperating relatively fixed and rotary screw sections, said relatively fixed section being connected at one end to the extension section and the mirror element, said rotary screw section being journaled at its inner end portion in the inner end of said arm section, and control means including a rotary member on the inner end of said arm section and a gear train internally of said rotary member, said gear train connecting said rotary member with said rotary screw section, whereby to impart movement of said rotary member to said screw device.

2,713,811

## TOOL SPINDLE MECHANISM

Hallis N. Stephan, Cleveland Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut

Application May 26, 1950, Serial No. 164,418

14 Claims. (Cl. 90-11)



1. In a machine tool spindle having a longitudinally extending aperture opening into its forward end, the forward portion of which aperture forms a tapered socket for the reception of a tool holding device to be attached to the spindle, a member within said aperture and reciprocable axially of said spindle, means for selectively connecting and disconnecting said member to and from a tool holding device positioned in said socket, spring means interposed between said spindle and said member for yieldably urging said member in a direction away from the forward end of the spindle, and means for moving said member in the opposite direction.

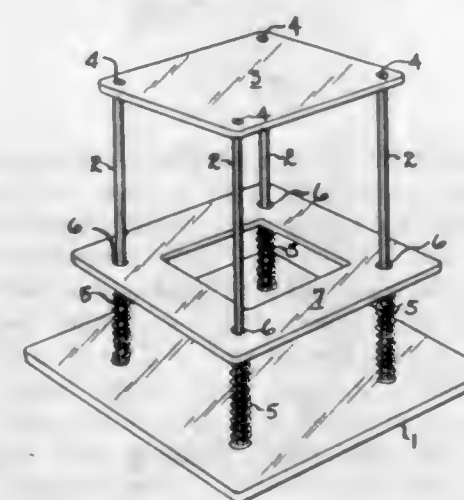
2,713,812

## CARTON-BOTTOM LOCKING MACHINE

Edward M. Mischke, Appleton, Wis., assignor to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

Application March 20, 1953, Serial No. 343,590

3 Claims. (Cl. 93-36)



1. A carton-bottom locking machine, the carton comprising opposed pairs of side walls, opposed pairs of bottom flaps connected to the bottom end edges of said side walls, an opposed pair of said bottom flaps having locking tabs hinged thereto, the other pair of said flaps having

696 O. G.-33

slots for interlocking engagement with said tabs when said tabs are inserted internally of the carton through the slots, said machine including a fixed plate adapted to be positioned within said carton below the bottom thereof in carton-inverted position, a plurality of spaced columns supporting said plate in fixed position, a yieldable plate upon which the top of said inverted carton rests in carton-supporting position and adapted to yieldably resist relative movement of the bottom of said inverted carton toward said fixed plate, said yieldable plate containing a plurality of holes through which said columns are disposed for guidance of the yieldable plate in slidable relationship, and a plurality of compression springs encircling said columns and supported thereby below and in yieldable supporting relation with said yieldable plate, whereby when said inverted carton is pressed downwardly with said tabs inserted through the slots against the force of said yieldable plate to make contact between said tabs and the fixed plate the bottom lock is thereby effected.

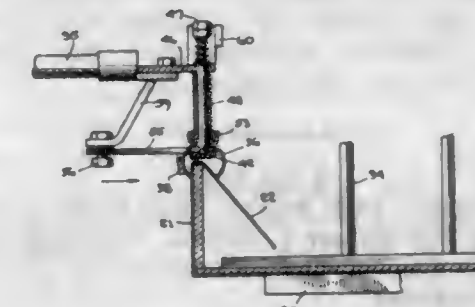
2,713,813

## SIDE-WALL ROLLER FOR BOX WRAPPING MACHINES

Louis Triolo, Brooklyn, N. Y.

Application April 12, 1954, Serial No. 422,420

3 Claims. (Cl. 93-54.2)



1. The combination with a machine for applying a wrapper to opposed inner and outer side walls of a box and provided with vertically reciprocating upper and lower forming blocks and pressing rollers for applying the wrapper to the outer walls of the box, of means for folding the inner side wall sections of the wrapper over the top of the box and downwardly, said means comprising substantially C-shaped elongated rollers presenting upper and lower longitudinal edges when at rest, weights on the lower sections for returning the rollers to said position, said rollers being caused to revolve when their lower edges contact the opposed side walls of the box and their upper edges thereby contact the inner side wrapping sections and move the same inwardly and downwardly, means for supporting said rollers comprising plungers which are movable inwardly towards said side walls, supporting means mounted on said plungers including depressible presser bars upon which the rollers are mounted for free rotation, spacer blocks limiting upward travel of the rollers during their rotation, the upper forming block moving said presser bars downwardly to fold the wrapper sections over the top edges of the box.

2,713,814

## AIRCRAFT CAMERA

Frederick Theodore Sonne, Golf, and Elmer J. Bury, Chicago, Ill., assignors to Chicago Aerial Survey Co., Chicago, Ill., a corporation of Illinois

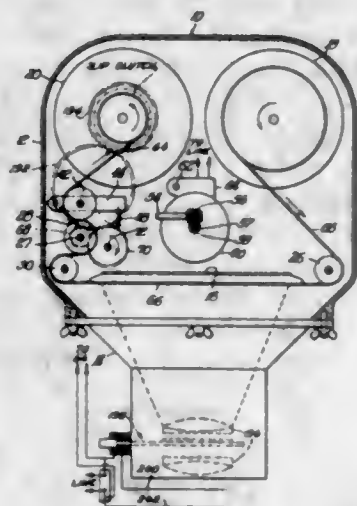
Application July 15, 1947, Serial No. 761,118

13 Claims. (Cl. 95-12.5)

1. In a camera of the character described the combination of an objective, a shutter, a movable platen in the focal plane of the camera, a film-driving roller adapted to normally draw said film across said platen, a shiftable idler roller disposed adjacent said platen around which



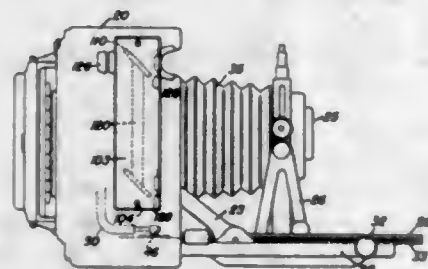
said film passes when moving between said platen and said driving roller, cam means for normally periodically shifting said idler roller and said platen simultaneously so that the speed of movement of the portion of said film adjacent said platen is altered and said platen is momen-



tarily moved in synchronism with and in the same direction as said portion of said film, means activated by the shifting of said idler roller for simultaneously operating said shutter, and means for rotating said film-driving roller at an adjustable uniform speed, said last named means also activating said cam means.

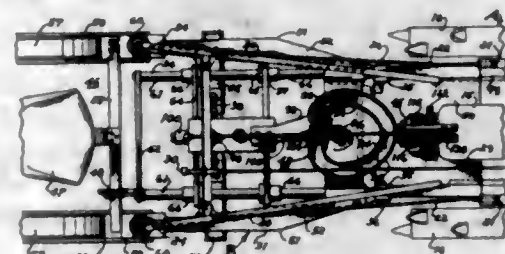
2,713,815

**RANGE FINDER FOR PHOTOGRAPHIC CAMERAS**  
Oscar Steiner and Robert L. Dalton, Irondequoit, N. Y., assignors to Graflex, Inc., Rochester, N. Y., a corporation of Delaware  
Application September 13, 1952, Serial No. 309,432  
5 Claims. (Cl. 95-44)



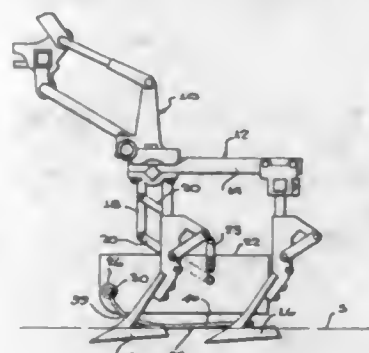
1. In combination, a camera having an objective lens that is adjustable for focusing, a rangefinder attached to said camera, said rangefinder including a pivotally mounted reflector, and means for coupling said lens to said reflector to pivot said reflector upon focusing adjustment of said lens, comprising a member connected to said lens to move in one plane upon adjustment of said lens, a right angularly bent tube, a cam removably mounted in said tube and reciprocable rectilinearly therein at right angles to the plane of movement of said member and projecting outwardly through a slot in said tube, a series of balls mounted to roll in said tube and to abut against one another, means connecting the ball at one end of the series directly with said member, a plunger operatively connected with the ball at the other end of the series, said plunger engaging the cam at one side of the cam, a spring-pressed plunger mounted in said tube and engaging the opposite side of the cam, said opposite side of the cam being inclined to the direction of movement of the cam so that pressure of said spring-pressed plunger on said opposite side of the cam tends to hold said cam in said tube, a movable follower engaging said cam, and means for transmitting motion of said follower to said reflector to pivot said reflector upon movement of said follower.

2,713,816  
**CULTIVATORS FOR ROW PLANTS**  
Robert B. Berg, near Samsula, Fla.  
Application June 29, 1954, Serial No. 440,037  
12 Claims. (Cl. 97-36)



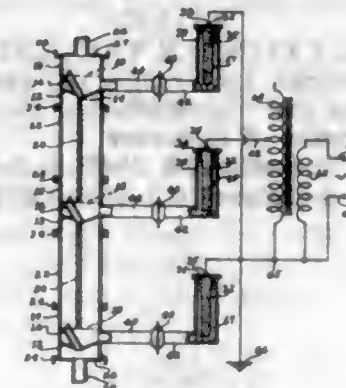
1. In combination with a mobile power operated unit for movement along a plant row; a cultivator for the plants in the row, comprising an elongated horizontally disposed frame adapted to travel with said mobile unit and with the longitudinal axis of the frame disposed longitudinally of the row; a carriage supported by said frame and reciprocable longitudinally thereof; a hoe revolvable about a vertical axis, supported by said carriage and including two radially disposed blades in end-to-end relationship spaced apart a distance slightly greater than the diameter of the plant stalks in the row, said blades normally engaging in the plant bed; means operated by said mobile unit during forward movement of the mobile unit along the row, for reciprocating said carriage forwardly and rearwardly on said frame; and, means operated by said mobile unit and during its forward movement for rotating said hoe about the vertical axis during rearward movement only of said carriage on its said supporting frame.

2,713,817  
**CULTIVATOR SHIELD EQUALIZER**  
Paul J. Coyle, St. Paul, Minn.  
Application March 14, 1952, Serial No. 276,503  
1 Claim. (Cl. 97-188)



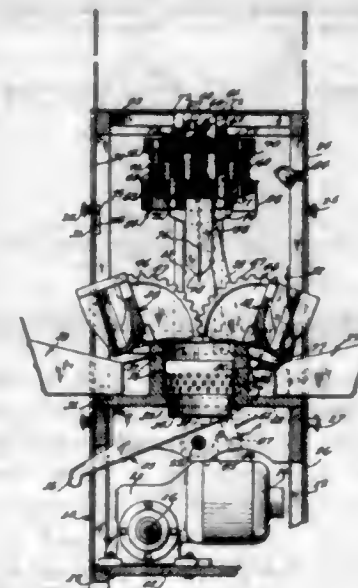
In a cultivator shield, a normally vertical plate having a longitudinal lower edge, and a front end, said plate being provided with a hole therethrough above said lower edge and adjacent to said front end, an equalizer rod having an upturned forward end and a rearward portion spaced below said lower edge, a dished compressible washer fixed on the forward end of the rod, a bolt having a shank including a head, said shank being extended through the compressible washer and through said hole in the plate with said head engaging said compressible washer, with said compressible washer engaged with one side of said plate, a flat washer on said shank and engaging the opposite side of the plate, and a nut threaded on the shank and forcing the washers into engagement with the opposite sides of the plate with said compressible washer under compression against the said one side of the plate.

2,713,818  
**ELECTRICAL FLUID TREATING APPARATUS**  
Robert J. Herbold, Denver, Colo., assignor to Winger Dairy Products Processing & Manufacturing Corporation, Denver, Colo., a corporation of Colorado  
Application July 20, 1953, Serial No. 368,982  
5 Claims. (Cl. 99-253)



2. Electrical apparatus for treating a fluid comprising a series of vertically spaced, electrically insulated reservoirs arranged for holding fluid, means for introducing said fluid into the uppermost reservoir, means providing an outlet from the lowermost reservoir, at least one reservoir having an overflow wall providing a pool of fluid and arranged to direct a continuous stream of fluid therefrom to the next lower reservoir, a series of electrode compartments, each being associated with a separate reservoir and containing an electrolyte, an electrode contacting the electrolyte in each compartment, a separate fluid containing duct connected with and arranged to be filled with fluid from each reservoir, each duct being connected with an associated electrode compartment, a porous diaphragm in each duct which separates the electrolyte from the reservoir fluid but permits the passage of electricity therebetween, and electrical apparatus comprising a step-up transformer providing a source of high voltage alternating current and including terminals of opposite polarity connecting the transformer terminals respectively with alternate electrodes of the compartment series for discharging current into each compartment electrolyte so that the electrical circuit between two electrodes is formed through the fluid stream between vertically adjacent reservoirs.

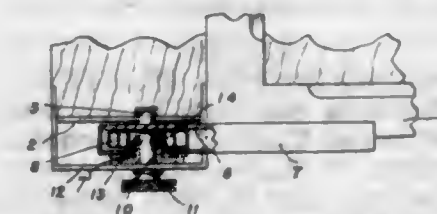
2,713,819  
**JUICE EXTRACTOR**  
Garland E. Lingle, Durham, N. C.  
Application September 23, 1954, Serial No. 457,841  
1 Claim. (Cl. 100-98)



In a juice extractor, a housing embodying a horizontally disposed base, a plurality of vertically disposed spaced parallel posts secured to said base and extending upwardly therefrom, a motor mounted on said base and adapted

to be connected to a source of electrical energy, driving means operated by said motor, a crankshaft supported above said base and operated by said driving means, a horizontally disposed platform positioned above said base and provided with a central opening, a perforated strainer extending through said opening and supported by said platform, a cylindrical support portion extending upwardly from said platform and surrounding the upper portion of said strainer, a pair of pivotally mounted bowl segments positioned above said platform and mounted for movement towards and away from each other into closed and opened position, said bowl segments in their closed position forming a receptacle for holding fruit, said bowl segments being openable to permit ejection of the crushed fruit, there being openings in said bowl segments for the passage therethrough of expressed material into said strainer, said bowl segments having channels for guiding the juice to said openings, sector plates secured to said bowl segments and provided with intermeshing gear teeth, a cam depending from one of said sector plates, a curved lug secured to said crankshaft for movement into and out of engagement with said cam, a bracket secured to one of said sector plates, a coil spring arranged in engagement with said bracket for urging said bowl segments towards each other to closed position, a head vertically shiftable in said housing and the lower portion of said head entering said bowl segments when the head is in lowered position, said head including a cap provided with a pair of spaced parallel fingers, a pair of spaced parallel rails secured in said housing and including grooves defining tracks for slidably receiving said fingers, a body member positioned below said cap, a shield surrounding said body member for preventing splattering of juice, spring pressed ejector pins extending through said cap and body member, levers having their upper ends pivotally connected to said fingers, links secured to said crankshaft and pivotally connected to the lower ends of said levers, and cutting and crushing elements depending from said lower portion of said head and adapted to extend into said openings in said bowl segments whereby the fruit is severed and crushed upon lowering of said head into said bowl segments in a manner to permit juice to be extracted therefrom without splattering and to permit flow of the juice through said openings into said strainer.

2,713,820  
**FLAT DUPLICATOR**  
Shinjiro Horii, Tokyo, Japan  
Application July 9, 1951, Serial No. 235,869  
Claims priority, application Japan July 11, 1950  
1 Claim. (Cl. 101-126)



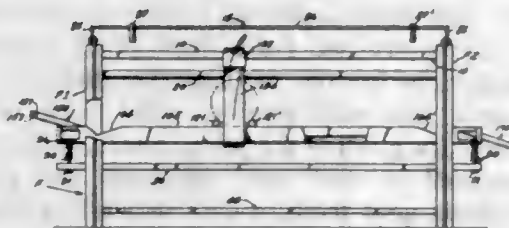
A flat duplicator employing a stencil comprising, a bed provided with rearwardly positioned bearing plates having a slot for receiving a stencil frame arm pivot, a stencil frame including a stencil frame arm and pivot mounted in said slot for lowering and raising the frame from the bed, a spring box projecting from said stencil frame arm enclosing a winding shaft and a spiral leaf spring which is connected at the outer forwardly extending end to said arm and at its inner end to said winding shaft, said winding shaft being rotatably mounted in a second bearing plate positioned outwardly of said bed bearing plate in order to adjust the tension in said spiral spring, said spring box being provided with an outer covering plate which covering plate is cut out to



floatingly suspend said spring box on said winding shaft, a ratchet wheel fixed on said winding shaft and a pawl pivotally mounted on said second bearing plate and engaging said ratchet wheel to lock said ratchet wheel in adjusted position.

### 2,713,821 DEVICE FOR MARKING CYLINDRICAL CONTAINERS

Edward J. Palczewski, Philadelphia, Pa.  
Application July 7, 1953, Serial No. 366,583  
14 Claims. (Cl. 101—126)



1. A machine for applying indicia to cylindrical portions of wall members forming parts of drums for the storage and transportation of bulk materials: said machine comprising a framework; a squeegee device; a drum conveying device; means cooperating with said framework to provide a drum receiving station; and other means cooperating with said framework to provide a station for discharging drums from the machine; said framework including a pair of end frames connected together, a pair of structures extending from one end frame to the other adjacent to the top of the framework and providing a continuously straight path of travel, a second pair of structures located below the first pair of structures and providing a continuously straight path of travel substantially parallel to the first mentioned path and coextensive therewith, and means for holding a silk screen between and parallel with said paths, of travel; said squeegee device comprising a carriage and means connecting said carriage to the first mentioned pair of structures for reciprocation in the first mentioned path of travel; said drum conveying device comprising a carriage and means connecting the second mentioned carriage to the second mentioned pair of structures for reciprocation along the second mentioned path of travel; means connecting said carriages to cause the same to reciprocate along said paths in unison; means limiting the passage of drums from the drum receiving station onto the carriage of the drum conveying device to a predetermined number at a time; and means carried by the carriage of the drum conveying device and cooperating with parts of the second mentioned structure to insure the discharge of drums from such carriage.

### 2,713,822 PLANOGRAPHIC PRINTING

Douglas A. Newman, Sea Cliff, N. Y., assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y., a corporation of New York  
Application December 20, 1948, Serial No. 66,219  
12 Claims. (Cl. 101—149.2)

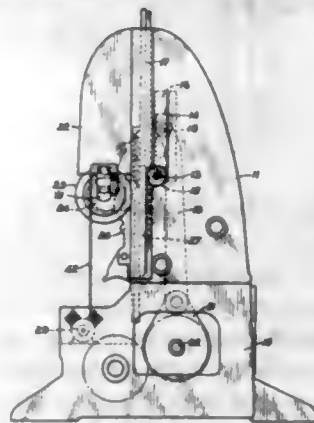


8. The method of forming a facsimile planographic image on a planographic plate through the medium of a superposed transfer sheet having a substantial electrical resistance and provided on one surface with a layer of image-forming fusible oleophilic material which includes the steps of scanning over the transfer sheet with a stylus-directed, image-delineating current in accordance with an original, generating heat in localized areas scanned by said stylus by the passage of current through the transfer sheet

and fusing image-forming portions of the layer of fusible transfer material on the transfer sheet and simultaneously adhering said fused imaged portions to the underlying planographic printing surface of the planographic printing plate to produce a printing image thereon.

### 2,713,823 PRINTING CYLINDER VACUUM CONTROL

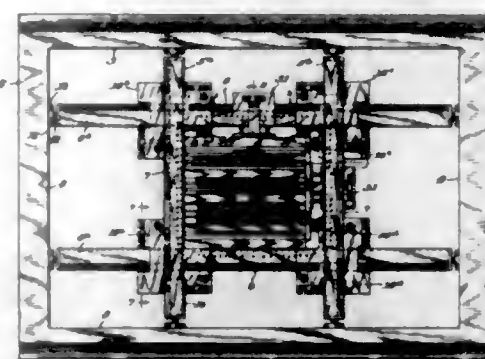
Edgar A. Luscombe, La Grange, Ill., assignor to Miehe Printing Press and Manufacturing Company, Chicago, Ill., a corporation of Delaware  
Application November 25, 1949, Serial No. 129,478  
6 Claims. (Cl. 101—285)



1. In a printing press of the class comprising a type bed, an impression cylinder, mechanism for reciprocating said bed and cylinder vertically and in opposite directions, and means for imparting rotary motion to the cylinder during its upward stroke, the combination of vacuum controlled elements associated with said cylinder, a vacuum source remote from said cylinder for actuating said elements when the cylinder is in a predetermined position in its cycle of operation, said vacuum source normally being disconnected from said elements, and a stationary coupling member connected to said vacuum source and arranged adjacent the path followed by said cylinder having operation to intermittently engage said cylinder each time it arrives at said position to thereby couple said vacuum source with said elements whereby said elements are actuated each time the cylinder is in said predetermined position.

### 2,713,824 PRINTER'S FORM

Henry J. Hilland, Chicago, Ill.  
Application August 8, 1949, Serial No. 109,189  
6 Claims. (Cl. 101—394)



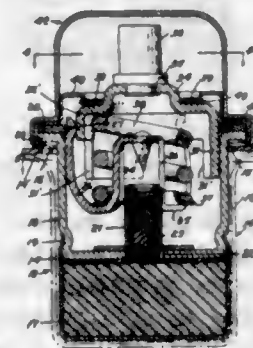
3. In a lock-up mechanism, a pair of spaced parallel bars, a second pair of spaced parallel bars extending across the first pair of bars at substantially right angles thereto, with the bars defining a form receiving space, means including rotatable pinions and shafts therefor and racks complementary to the pinions and securing means operatively engaging the shafts to prevent rotation thereof at the juncture of each pair of crossing bars for maintaining the same in fixed relation to provide a substantially rigid supporting structure, one or more adjustable quoins slidably carried by each of two intersecting bars and adapted to be detachably mounted above or below said

bars as assembled, each quoin having a compression member extending inwardly into said form receiving space and movable relative to said structure into said space operative to engage and exert compression forces on intersecting edges of a form placed therein to retain the latter in said structure, and individual adjustable means on the ends of each of said bars for engaging means for supporting said structure in a press.

6. In a form locking-up device, a lock-bar having rack teeth thereon, a slide slidably connected with said lock-bar, a pinion rotatably mounted in said slide and meshing with said rack teeth, a supporting shaft rigidly connected to said pinion, said slide having a split bearing for said shaft, and screw means for compressing opposite portions of said split bearing to rigidly clamp the shaft and pinion thereto and prevent relative movement between the slide and lock-bar.

### 2,713,825 FUZE

Lyle K. Liljegren, Alexandria, Va., assignor to the United States of America as represented by the Secretary of War  
Application September 23, 1944, Serial No. 555,565  
3 Claims. (Cl. 102—70)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



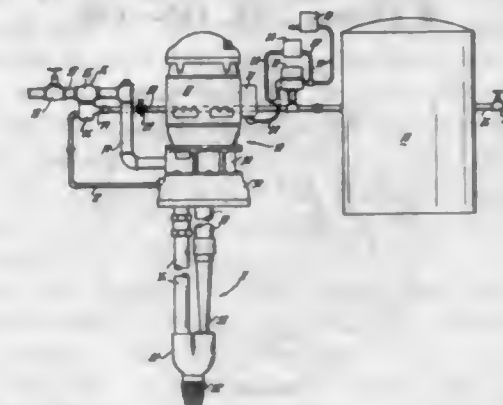
1. In a percussion fuze, a tubular casing having one flanged end open, a primer cup in said casing centrally fixed to the other end thereof and projecting axially upwardly therefrom, a spider comprising a central portion and a plurality of radial resilient arms, each said arm extending downwardly, then radially outwardly, then upwardly and terminating in a detent above the level of said central portion, said downwardly-extending portions loosely embracing the upper portion of said primer cup, a downwardly-projecting firing pin depending from said central portion, an annular detent ring secured to the flange of the open end of said casing and projecting radially inwardly of the inner wall of said casing, an inverted generally cylindrical pressure cup having its side walls engaging said detents to hold the same in engagement with said ring to initially immobilize said spider with its firing pin spaced above said primer cup, an initially unstressed compression coil spring seated at one end on the radially outwardly extending portions of said spider arms and seated at the other end on the closed upper end of said cup, said pressure cup acting to compress said spring in response to initial downward movement of said cup between said detents and thereby urge said spider downwardly, said pressure cup moving out of contact with said detents after a predetermined downward movement to thereby release said spider and firing pin to the action of said spring.

### 2,713,826 FLUID PUMPING SYSTEM

Walter H. Tinker, St. Louis, Mo., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois  
Application August 6, 1949, Serial No. 109,047  
13 Claims. (Cl. 103—2)

1. In a pumping system, a motor operated pumping unit having two discharge outlets, one discharge outlet

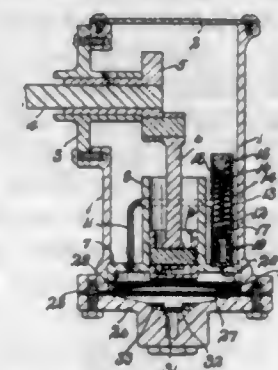
being located to deliver at a pressure less than the delivery pressure of the other, a conduit leading from one of said discharge outlets to a point of delivery, a pressure tank, a conduit connecting said tank with the other of said discharge outlets, a valve inserted in the first mentioned



tioned conduit, and a control member disposed in the other of said conduits for operation to open the latter conduit in response to flow of fluid toward said tank, said member being connected with said valve for operating said valve in a closing direction during fluid flow toward said tank.

### 2,713,827 HYDRAULIC COMPRESSOR

Frederick R. Hoop, Grand Rapids, Mich., assignor of one-half to Samuel M. Koukios, Grand Rapids, Mich.  
Application September 29, 1952, Serial No. 312,035  
5 Claims. (Cl. 103—44)



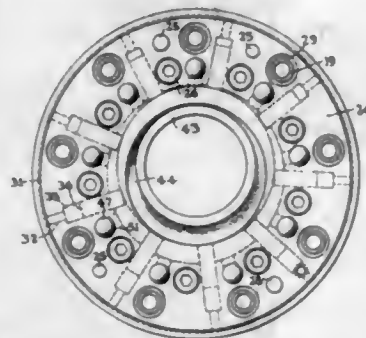
1. In a pump having a casing with a chamber therein for fluid to be pumped, said chamber having inlet and outlet passages with inlet and outlet valves therein, and a diaphragm comprising the upper side of said casing over said chamber, the improvement comprising, a hollow, vertical housing, adapted to contain liquid, located over said diaphragm and against its peripheral edge portions, a vertical cylinder within said housing, a horizontal base at the lower end of said cylinder over said diaphragm, means between said base and diaphragm for providing a chamber communicating with the lower end of said cylinder, for liquid over the diaphragm, a piston in the cylinder, means for reciprocating the piston, spring loaded valve means mounted on and above said base normally closing against passage of liquid from said last mentioned chamber through the base to said housing, said base having an opening for said passage when the valve is moved against its spring by liquid pressure a predetermined distance, a second vertical cylinder connected at its lower end to said base having liquid passage thereinto at its lower end through the base, a piston valve within said second cylinder, yielding spring means normally moving said valve downwardly to stop liquid passage through said base, and a tube connected at its ends to said base and upper portion of said second cylinder for liquid passage therethrough on downward movement of said reciprocating piston, said piston valve being elevated on increasing liquid pressure against it and stopping liquid passage through said tube when elevated to the point of connection of said tube to the second cylinder.



2,713,828

**ROTARY MOTOR WITH VANED STATOR**  
Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application November 13, 1951, Serial No. 255,947  
8 Claims. (Cl. 103—130)



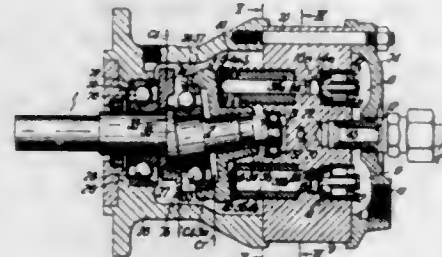
1. The combination of a body having two fluid connections; shaft bearings mounted in said body; a shaft mounted in said bearings and having an eccentric journal; a disc-like rotor rotatably mounted on said journal, the periphery of the disc being circular and concentric with the journal and the sides of the disc being spaced plane surfaces normal to the axis of the journal; an annular housing fixed in said body and encircling said disc, the housing defining an annular channel bounded by a generally cylindrical peripheral wall coaxial with the shaft and by plane side surfaces normal to the shaft axis and spaced to afford a running fit with the side surfaces of the rotor, whereby a crescent shaped space is enclosed by the housing and rotor; a plurality of vanes reciprocable radially in slots in the periphery of said annular channel, and subdividing said crescent shaped space into a corresponding number of distinct working spaces; means serving to urge said vanes into contact with the periphery of said rotor; a plurality of balanced piston distributing valves, one for each said working space, located outwardly of the working spaces and each reciprocable in a path parallel with the shaft axis to control admission to and exhaust from the corresponding space from and to respective fluid connections; and disc cams fixed on said shaft and engaging said valves to reciprocate the valves.

2,713,829

**HYDRAULIC PUMP**

Thomas Edward Beacham, London, England, assignor to The Beacham Hydraulic Company Limited, London, England

Application September 29, 1947, Serial No. 776,716  
In Great Britain September 17, 1946  
Section 1, Public Law 690, August 8, 1946  
Patent expires September 17, 1966  
3 Claims. (Cl. 103—173)



1. A hydraulic pump comprising a rotatable conic crank, a swash plate mounted on said conic crank, a cylinder block, cylinders constituted by bore holes bored into said cylinder block parallel to the axis of rotation of said conic crank, pistons in said cylinders, said pistons being arranged to be reciprocated by said swash plate, each cylinder including an inlet port in the end remote from said swash plate and an inlet valve controlling the said inlet port, each cylinder including an outlet port in the side leading to a valve chamber, each valve chamber being constituted by a

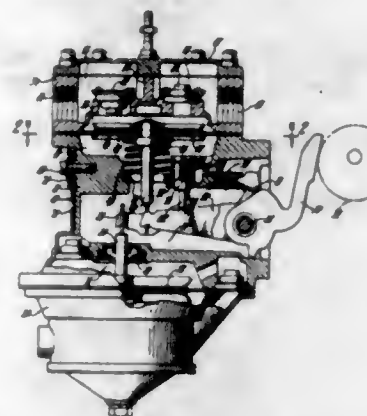
recess formed in the periphery of said cylinder block, screw plugs each screwed in the mouth of a respective recess, a non-return valve for each valve chamber controlling the flow of liquid from a cylinder to the respective valve chamber, said cylinder block including straight bore holes issuing from each valve chamber, whereby all of said valve chambers are connected to each other within said cylinder plug, each of said screw plugs, except one, forming an impervious closure for its recess, and said one screw plug having a common outlet through it for all of the valve chambers.

2,713,830

**FUEL AND VACUUM PUMP WITH HAND PRIMER**

Gordon W. Harry and William E. Barnes, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 24, 1951, Serial No. 263,074  
6 Claims. (Cl. 103—207)



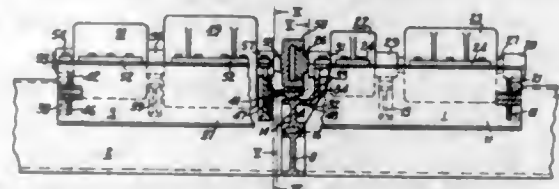
1. In a fuel pump, a pump housing, a pump chamber in said housing, a first shaft mounted in said housing, pumping means mounted in said pumping chamber, pump drive means connected to said pumping means to drive said pumping means including a pump actuating lever oscillatable about said first shaft, drive means mounted on said first shaft to engage and operate said pump actuating lever, a second shaft mounted in said housing at an angle with said first shaft and having a portion extending outside of said housing, a lever secured to said second shaft and operatively engageable with said actuating lever, and an operating member secured to said second shaft portion outside of said housing.

2,713,831

**SUPPORT STRUCTURE FOR ROTARY MACHINES**

Hans P. Dahlstrand, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application November 18, 1949, Serial No. 128,185  
7 Claims. (Cl. 105—36)



7. In combination: two machine units each comprising a rotatable shaft journaled in a plurality of aligned bearings; flexible coupling means disposed between opposed ends of said units and so interconnecting said shafts in torque transmitting relation as to cause the axes of rotation of said shafts to intersect; a foundation; means coacting with said foundation for supporting the opposed ends of said units, said supporting means comprising a bearing member mounted on said foundation, a support member connected to the opposed end of one of said units and rotatable on said bearing member about the axis of rotation of one of said shafts, a supporting element connected to the opposed end of the other of said

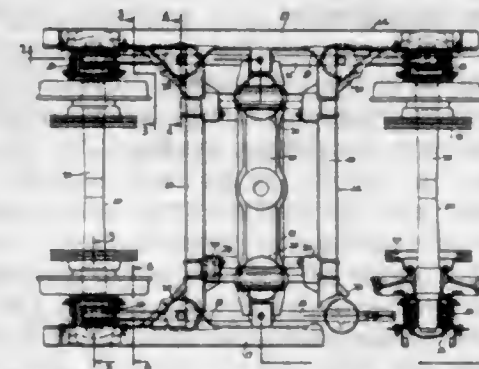
units and slidable in said support member for rotation about the axis of rotation of the other of said shafts and for axial movement relative to said one of said units, said supporting element being further swingable about the point of intersection of the axes of rotation of said shafts relative to said first journal member to afford relative angling of said units, said support member and said supporting element affording structures rotatable and axially movable and swingable relative to one another and severally rotatable relative to said foundation and cooperable with said flexible coupling means to afford movement of said shafts and the adjacent ends of said units toward and away from each other; and means coacting with said foundation for rigidly supporting the distal ends of said units.

2,713,832

**TUBULAR FRAME TRUCK FOR RAILWAY CARS**

Walter B. Dean, Paris, France, and Albert G. Dean, Narberth, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 30, 1949, Serial No. 135,972  
5 Claims. (Cl. 105—190)

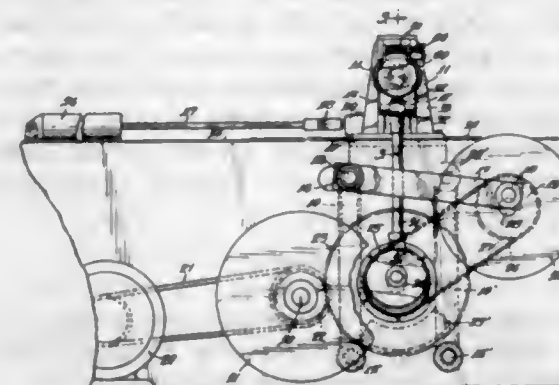


1. In a railway truck, a sprung truck frame comprising a longitudinally extending substantially rectilinear side frame member, spaced downwardly extending brackets integrally secured to each end of said member and arranged substantially vertically below the latter, and pedestal jaw members each comprising spaced pedestal guides and an integral horizontal portion connecting the lower ends of said guides, said jaw members laterally overlapping and being removably secured to the respective brackets and disposed in laterally offset relation to the vertical plane of said side frame member.

2,713,833

**DOUGH EMBOSSER**

Rudolph J. Fay, Villa Park, Ill., assignor to Schulze and Burch Biscuit Co.  
Application May 20, 1953, Serial No. 356,237  
2 Claims. (Cl. 107—7)



1. A machine for impressing a traveling sheet of dough with a pattern of indentations for subsequent use in dividing said sheet of dough into individual units after the baking of the dough, comprising a supporting base, a horizontally moving conveyor belt on said base for supporting the sheet of dough, a frame extending upwardly above said belt on each side of the belt, a belt supporting carriage on said frame and extending below said

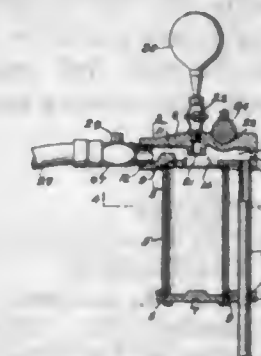
belt, two vertically extending links pivotally mounted on said base, one on each side of said belt, each link pivotally connected to said carriage at the upper end of said link to support the carriage for horizontal reciprocation in the direction of belt travel and oppositely thereto, a first pair of flywheels rotatably carried by said base, one on each side of the belt, two eccentric pins, one on each flywheel of said first pair of flywheels, two connecting links, one on each side of the belt, connecting said pins and said carriage, to reciprocate the carriage with the belt travel during half the cycle of said first pair of flywheels and opposite to the belt travel during the other half of said cycle, a driving motor, a second pair of flywheels rotatably carried by said base, one on each side of the belt, an operative drive connection between said motor and the second pair of flywheels, a counterbalanced wheel rotatably mounted on the base, a pair of eccentrics rotatable with the counterbalanced wheel and positioned one on each side of said belt, driving connections between said second pair of flywheels and said counterbalanced wheel, a vertically sliding cross head slidably mounted on said frame, embossing means carried by said cross head for engaging the sheet of dough at the end of each down stroke, a second pair of connecting links, one on each side of said belt, pivotally connecting each end of said cross head with one of the eccentrics, the cycle of operation being set so that the carriage moves with and below said belt at the moment of engagement of said embossing means with the sheet of dough at the end of each down stroke of the carriage, whereby the dough may progress at a uniform high speed on the belt while being impressed periodically by said embossing means.

2,713,834

**SUB-IRRIGATION AND FERTILIZING DEVICE**

Guy W. Shirley, Denver, Colo.

Application May 25, 1954, Serial No. 432,167  
2 Claims. (Cl. 111—7.1)



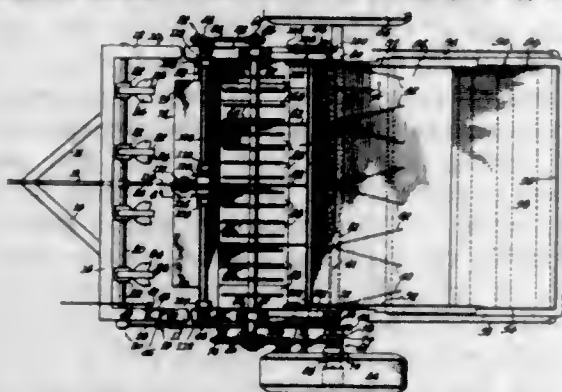
1. A device for supplying water and plant food to the roots of plants, shrubs, trees and the like comprising in combination, a tube, top and bottom closures in sealing relation with the ends of said tube, said closures having aligned openings, a plurality of bolts extending through said aligned openings for securing said closures in sealing engagement with the ends of the tube, the top closure having a diametrical opening extending entirely across the tube terminating in a wall, said top closure having an enlarged opening communicating the interior of the tube with the diametrical opening, the top closure having a threaded opening in communication with the diametrical opening at a point beyond the tube, the bottom closure having a hole in alignment with said threaded opening in the top closure, an elongated tubular nozzle extending through the hole in the bottom closure and threadedly connecting the threaded opening in the top closure, the lower end of the nozzle being closed by a tapering plug, the wall of the nozzle above the plug having a plurality of spray openings, the top closure having a central aperture in communication with the diametrical opening, and a valve device associated with said aperture for controlling a flow of material there-through to the diametrical opening.



2,713,835

## SOD-PLANTING MACHINE

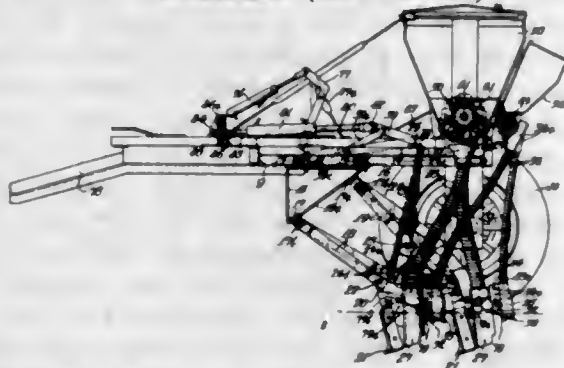
Harrison V. Pittman, Little Rock, Ark.

Application February 9, 1951, Serial No. 210,272  
3 Claims. (Cl. 111-61)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A sod-planting machine comprising, in combination, a frame supported for movement over the ground in a direction of travel, a transversely-extending hopper divided into transversely-spaced substantially equal sod-receiving compartments for discharging sod in parallel rows, sod-comminuting means in the compartments, a first rock-shaft journaled in the frame transversely thereof forwardly of the hopper, plows mounted on the first rock-shaft, there being a plow forward of and in fore-and-aft alignment with each of the compartments for forming a furrow into which comminuted sod from the compartment is discharged, a second rock-shaft journaled in the frame parallel to the first rock-shaft rearwardly of the hopper, furrow-closing means including transversely-spaced pairs of vertical plates mounted on the second rock-shaft, there being a pair of such plates disposed generally on each fore-and-aft line midway of the plows and compartments with the plates of each pair joined along their forward edges and diverging rearwardly into a V-shaped configuration, and means interconnecting the rock-shafts for simultaneously rocking the same, the last-named means including an arm fixed to each of the rock-shafts with link means interconnecting the arms, and means for rocking one of the rock-shafts.

2,713,836

## APPARATUS FOR DEPTH PLACEMENT OF SEEDS AND FERTILIZER

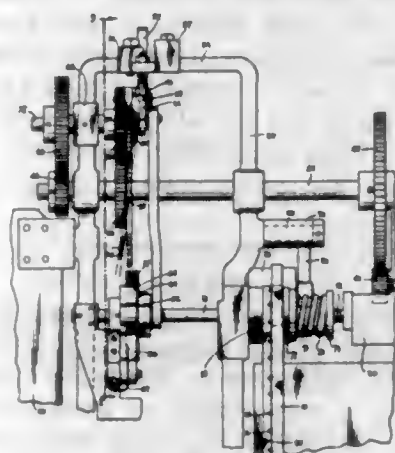
Fortunato S. Ajero, Chicago, Ill., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware  
Application April 11, 1951, Serial No. 220,500  
4 Claims. (Cl. 111-80)

1. An agricultural depth control mechanism comprising a ground engaging tool with an upstanding shank; a frame to support said tool; means to move said frame forwardly above and along the ground; and linkage for said tool comprising a pair of drag bars depending from said frame and rearwardly converging toward and superimposed above one another, said drag bars being individually pivoted to the frame and shank, the upper drag bar being substantially shorter than the lower one, and said tool having a rearwardly-downwardly inclined front surface.

2,713,837

## APPARATUS FOR ASSEMBLING FASTENER ELEMENTS

Louis M. Rabinowitz, Brooklyn, N. Y., assignor to Louis M. Rabinowitz Foundation, Inc., Dover, Del., a corporation of Delaware

Application January 3, 1952, Serial No. 264,787  
7 Claims. (Cl. 112-105)

1. For the manufacture of a continuous fastener strip in which fasteners are inserted at spaced intervals along the strip and between overlapped longitudinal portions of the strip and secured in place by a longitudinal stitched seam uniting such overlapped portions, the fasteners being arranged in spaced groups each including at least two fasteners, and the seamed strip being later severed between fastener groups to provide shorter strips each containing one group of fasteners; apparatus for drawing said strip longitudinally relative to a sewing head to form said seam comprising, in combination, a driven element engaged with the strip and operable to draw the same longitudinally past the sewing head, a control cam, driving means for said cam, a cam follower engaged with said cam, and stepping means interconnecting said cam follower and said element and operable to step said element responsive to movement of said cam follower by said cam, said cam having first cam follower moving surfaces constructed to impart a relatively short motion to said follower to correspondingly step said element a relatively short distance to form a relatively short stitch in the seam, second cam follower moving surfaces constructed to impart a relatively long motion to said follower to correspondingly step said element a relatively long distance to form a relatively long stitch in the seam, and cam follower idling surfaces separating said moving surfaces, the surface of said cam engaged by said follower when the sewing head is adjacent a portion of the strip between fastener groups comprising a series of adjacent follower moving surfaces including a moving surface of one type engaged with the follower when the sewing head is substantially at the mid point between fastener groups and at least one moving surface of the other type on each side of the moving surface of said one type, to form a marking stitch substantially at the mid point between fastener groups with the marking stitch differing substantially in length from the stitches of said series immediately adjacent thereto.

2,713,838

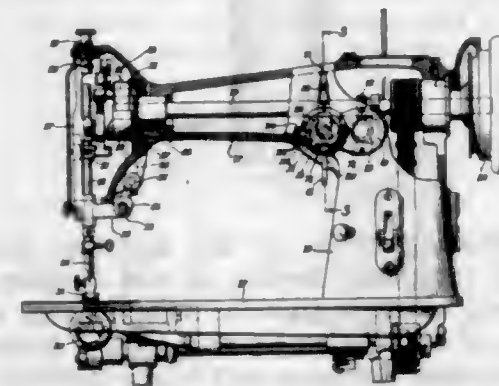
## NEEDLE-VIBRATION CONTROLLING MECHANISMS FOR ZIGZAG STITCH SEWING MACHINES

Ralph E. Johnson, Mountainside, N. J., and Alexander F. Kerr, Dalmuir, Glasgow, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application May 25, 1953, Serial No. 356,928  
12 Claims. (Cl. 112-158)

1. A needle vibration control for zigzag stitch sewing machines comprising, an angularly adjustable guideway for controlling the lateral throw of the needle, a hollow

supporting member, an adjusting shaft carrying said guideway and journaled in said supporting member for rotary and bodily lateral adjustment therein, means for laterally displacing said adjusting shaft in said supporting member, a manually operable handle connected with said adjusting shaft for turning the latter to effect angular adjustment of said guideway, tactual means carried by said

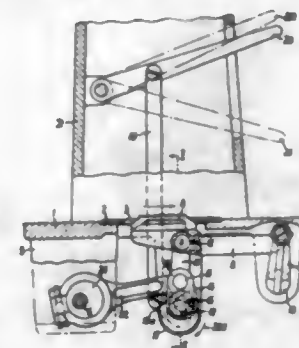


supporting member for producing a tactual signal within said handle whenever the latter is angularly shifted past a selective location along its path of angular adjustment, and means for adjusting said tactual means so that the tactual signal within said handle may be produced in response to the movement of said handle past various selective positions of its path of angular movement.

2,713,839

## DRIVE FOR SEWING MACHINE CLOTH FEEDERS

Wolfgang Engel, Bielefeld, Germany, assignor to Gritzner-Kayser Aktiengesellschaft, Karlsruhe-Durlach, Germany

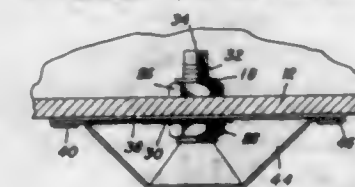
Application April 23, 1952, Serial No. 283,803  
Claims priority, application Germany April 27, 1951  
8 Claims. (Cl. 112-215)

1. In a sewing machine of the type having a stitching plate, a cloth feeder movable in a reciprocatory manner with respect to said plate by a swinging-block linkage comprising in combination, a rotatable shaft, a crank connected to the shaft, the movement of the crank oscillating the said swinging-block linkage, an arm carrying the cloth feeder, a pivot connection between one end of the arm and the crank whereby the arm is substantially perpendicular thereto, a rocker, a pivot connection between the rocker and the other end of the arm with the rocker substantially parallel with the crank, an adjustably mounted stud, a swivel connection between the other end of the rocker and the stud so that when the crank is rocked by the rotation of the shaft, the cloth feeder will be moved in a reciprocatory manner respecting the stitching plate and in parallelism thereto, and means associated with the said rocker for periodically changing the length of the rocker between the pivot connection of the rocker to the arm and the swivel connection to the stud so as to produce a periodic movement in a reciprocatory manner of the feeder in a transverse direction with respect and in addition to the movement of the feeder in parallelism to the stitching plate.

2,713,840

## SIPHON BOAT PUMP

Harry C. Stigall, Chicago, Ill.

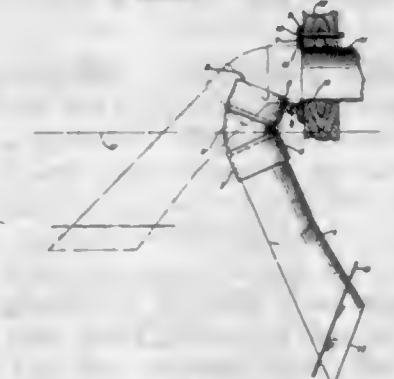
Application April 27, 1954, Serial No. 425,791  
2 Claims. (Cl. 114-185)

1. A siphon boat pump comprising a sleeve positioned in the bottom of a boat thereby forming a passage there-through, a removable plug positioned in said sleeve, and a housing secured to the outer surface of a boat bottom in spaced overlying relation to the opening formed by the sleeve, said housing being generally U-shaped in cross-section and tapered rearwardly and downwardly, the forward end of said housing positioned against the undersurface of the boat bottom and the rear end of the housing positioned below the boat bottom thereby producing an area of reduced pressure within the housing when the boat moves forwardly through water for siphoning bilge water through the sleeve when the plug is removed, said housing including a mounting plate secured to the undersurface of the boat bottom and having forwardly converging reversely bent side edges, said housing having forwardly converging outwardly projecting side edges for reception under the reversely bent edges of the mounting plate thereby securing the housing to the undersurface of the boat bottom.

2,713,841

## PIVOTALLY MOUNTED UNDERWATER EXHAUST

Thomas Robertson Forbes, Bayside, N. Y.

Application June 14, 1954, Serial No. 436,315  
7 Claims. (Cl. 115-5)

1. In combination with a marine vessel having an engine and a tail pipe therefor extending through the stern of the vessel and terminating adjacent the stern and above the water line, a tail pipe extension connected to the tail pipe at said stern, comprising a hollow body of such length that its lower region is always below the level of the water, an angle member integral with the upper region of the body, an annular fitting attached to the stern of the vessel and surrounding the tail pipe, a seat in the annular fitting for the free end region of the angle member, and means pivotally supporting the angle member on the annular fitting in such manner that on forward motion of the vessel the free end region of the angle member tightly engages the seat while with the vessel both at rest and while moving rearwardly the free end region is away from the seat.

2,713,842

## OUTBOARD MOTOR MOUNT FOR DEPTH REGULATION

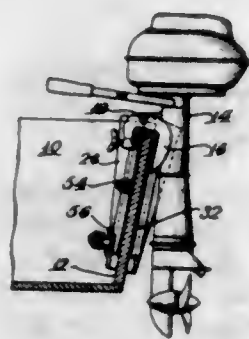
Arthur J. Plouff, Escanaba, Mich.

Application October 8, 1952, Serial No. 313,646  
11 Claims. (Cl. 115-41)

1. A mount for attaching an outboard motor to a boat, said boat having a transom and said motor having mount-



ing clamps, comprising vertical guide means secured to said transom, means movable with respect to and guided by said guide means to which said motor may be clamped, resilient means connected between said movable means

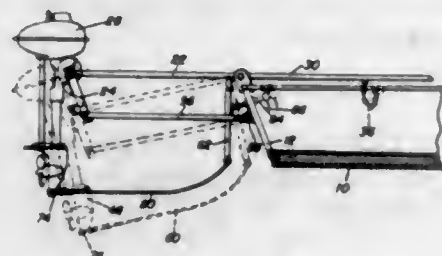


and a stationary point to counter-balance substantially the weight of said motor when said motor is at full operating draft, and means interior of said boat for continuously and variably moving manually said movable means up and down.

2,713,843

**VARIABLE DEPTH MOTOR MOUNT**

Thomas G. Staley, Eagle Point, Oreg.  
Application December 22, 1952, Serial No. 327,193  
9 Claims. (Cl. 115-41)

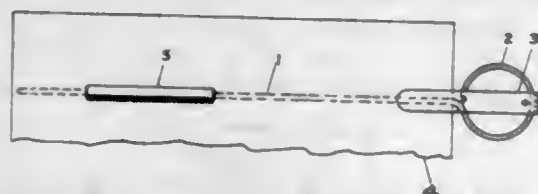


1. A variable depth motor mount comprising a transverse support adapted to be secured to the stern transom of a boat, said transverse support including a rotatably supported transverse bar, extension rods attached to said bar, a depth control device for rotating said transverse bar, a mounting plate carried by said extension rods and extending therebetween spaced from said stern transom, and a pair of lower rods pivotally terminally attached to said transom and said mounting plate, said extension rods, said lower rods, said transom, and said mounting plate forming a parallelogram linkage, a vertically extending holding member in said boat, said holding member having a plurality of lever engaging recesses therein, said depth control device including a lever attached to said transverse bar, said lever selectively engaging said holding member in a selected one of said recesses.

2,713,844

**BOOK MARKERS**

Joseph J. Mueller, Davenport, Iowa  
Application January 31, 1955, Serial No. 484,910  
4 Claims. (Cl. 116-119)



1. As a place-marker for books, a keeper rod of soft iron placed in contact with one side of a page of a book, and a round bar magnet applied to the other side of the page parallel to the keeper and in close proximity thereto.

2,713,845  
**INDICATORS FOR MEDICINE BOTTLES  
AND THE LIKE**

Julius L. Silverman, Miami, Fla.  
Application December 23, 1954, Serial No. 477,331  
3 Claims. (Cl. 116-121)



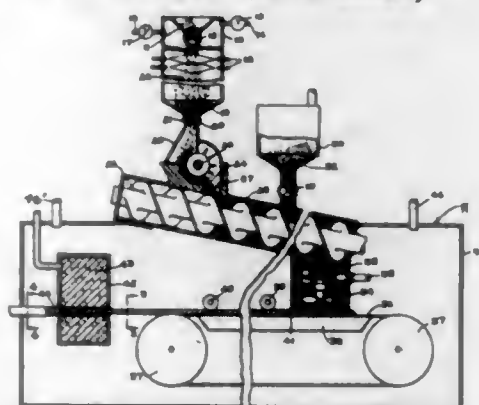
1. An indicating device of the character described, comprising a receptacle having an end opening and a perimetric wall which is provided adjacent such opening with a series of differentiated perimetrical spaced separable snap fastener elements; and a cap member closing said receptacle opening and arcuately adjustable relative thereto, said cap member having a tongue extending along said receptacle wall and provided with a complementary snap fastener element which, through said arcuate adjustment of the cap member, may be volitionally aligned with any one of the receptacle-carried fastener elements and then interlockingly but separably engaged therewith to prevent unintentional displacement of the cap and tongue.

2,713,846

**APPARATUS FOR MAKING A COMPOSITION**

Burnie J. Craig, Pasadena, Calif.  
Original application June 9, 1944, Serial No. 539,589, now Patent No. 2,631,355, dated March 17, 1953. Divided and this application January 26, 1953, Serial No. 333,263

23 Claims. (Cl. 118-64)



1. An apparatus for making a composition comprising means to apply a complete covering to porous particles, means to supply raw binder material to the covered particles, means to work the binder and covered particles into a compacted mass and means to subject the binder to a finishing agent.

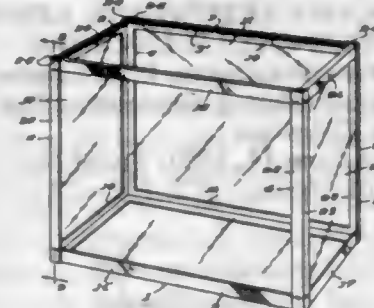
2,713,847

**AQUARIUM TANK CONSTRUCTION**

Richard H. Blaise, Glendale, Calif.  
Application September 2, 1952, Serial No. 307,540  
1 Claim. (Cl. 119-5)

In an aquarium tank, a wall structure comprising end, side and bottom panels of glass and a supporting frame enclosing the meeting edges of said panels; said frame comprising a bottom frame member formed of sheet metal and including a bottom surface of hollow, rectangular configuration and upwardly extending side and end flanges co-extensive with the outer perimeter of said bottom surface, a top frame member of generally similar configuration to said bottom frame member and including side and end flanges coextensive in length with the

outer perimeter of said top frame member, and four corner members disposed one at each juncture of a side and end panel and disposed exteriorly of the corresponding corners of said frame members; each of said corner members including end portions underlying the bottom frame member and overlying the top frame member and having flange portions engaging and extending parallel to the respective side and end flanges of said frame members; each of said corner members having a pair of tongue elements at its lower end extending inwardly over the upper

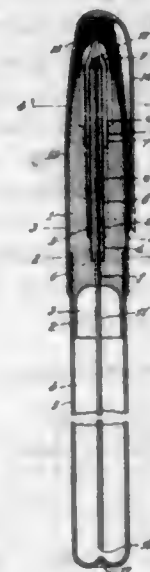


edges of a side and end flange of said bottom frame member and holding the corner of the bottom frame member against the lower end portions of the corner member and thence extending downwardly along the inner faces of the engaged flanges of said bottom frame member with resultant locking of the corner member against movement laterally of the engaged corner of said bottom member, and each of said corner members having corresponding tongue elements similarly interlockingly engaging the respective corners of said top frame member.

2,713,848

**NON-LEAKING FOUNTAIN PEN**

Benjamin F. Mlesner, Morristown, N. J.  
Application January 15, 1952, Serial No. 266,474  
8 Claims. (Cl. 120-50)



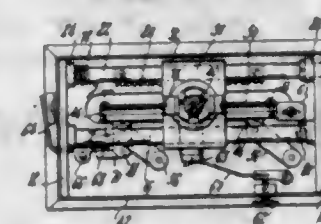
1. A fountain pen having a hood with an ink containing barrel, preferably having some flexibility, attached thereto, the hood carrying a pen point per se and also having fine bores of different diameters arranged in tandem alignment in the order of the diameter of the bores, with the widest bore outermost, the pen point having a split tubular shank extending through the largest or number 1 bore into the next smaller or number 2 bore and having a close fit therein and being spaced from the wall of the number 1 bore to define an ink collector space, a tube having an open end at a point between the pen nibs and passing all the way thru the third bore, this bore being large enough to leave an ink space around the tube, said tube terminating in the fourth bore adjacent to the fifth bore of smallest diameter, an air and ink tube fitting tightly in the fifth bore of the smallest diameter and extending from a

point near the inner free end of the barrel through all the other bores to a point near the nib end of the pen point.

2,713,849

**PENCIL POINTER**

Felix Consentino, Newmarket, N. H.  
Application August 26, 1954, Serial No. 452,381  
6 Claims. (Cl. 120-89)

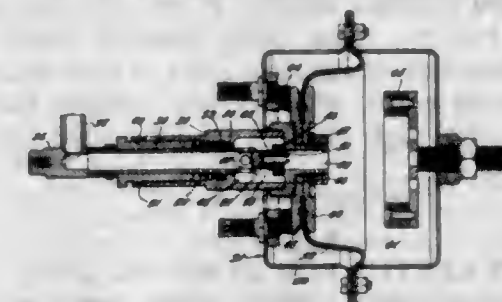


1. A device of the class described comprising a base, two spaced standards extending up from said base, a horizontal rod extending from one said standard to the other, a gear rack mounted parallel to said rod, a carriage slidable on said rod, a pencil holder rotatably mounted on said carriage, a circular series of gear teeth on said holder adapted to mesh with said rack, an elongated member movably mounted on said base, said member having an abrasive face adjustably inclined with respect to said base, means maintaining said member with its long axis parallel to said rod, said means comprising a pair of parallel links pivotally attached at one end to said member and at the other end to said base, and spring means pressing said member toward the path of a pencil point carried by said holder.

2,713,850

**FLUID SERVO-MOTORS**

Frederick James Bradbury and Frederick Marlow Mott, Leamington Spa, England, assignors to Automotive Products Company Limited, Leamington Spa, England  
Application February 20, 1953, Serial No. 338,086  
9 Claims. (Cl. 121-38)



1. A fluid operated servo-motor comprising a cylinder, a movable wall in said cylinder and defining therewith a working chamber, a force transmitting member, resilient means through which movement of the movable wall is transmitted to said force transmitting member, means defining a passage through which fluid enters and leaves said working chamber, a non-return valve in said passage openable by the working fluid during the working stroke of the servo-motor, means defining a restricted passage by-passing said non-return valve, and means operative on yielding of said resilient means to positively unseat said non-return valve.

2,713,851

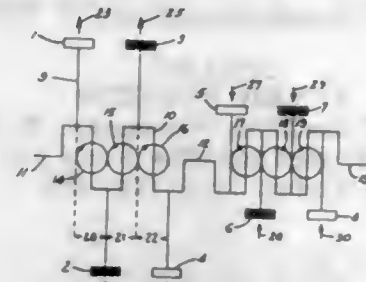
**CRANK SHAFT AND PISTON ASSEMBLY FOR INTERNAL-COMBUSTION ENGINE**

Clarence O. Trout, Detroit, Mich.  
Application May 1, 1952, Serial No. 285,516  
2 Claims. (Cl. 121-120)

1. In an internal combustion engine, a crank shaft having not less than four power pistons equally spaced hereon, the adjacent pistons being reciprocable in opposed relation with respect to the axis of the crank shaft, the two inside



pistons being heavier than the two outside pistons, whereby upon reciprocation the heavy pistons produce an un-

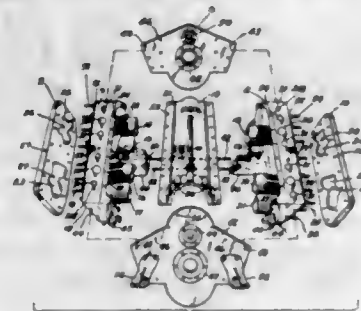


balanced couple, equivalent to two of the adjacent couples produced by two of the light pistons.

2,713,852

### OPPOSED PISTON INTERNAL COMBUSTION ENGINE FRAME STRUCTURE

Clarence O. Trout, Detroit, Mich.  
Application December 29, 1950, Serial No. 203,382  
6 Claims. (Cl. 121—194)

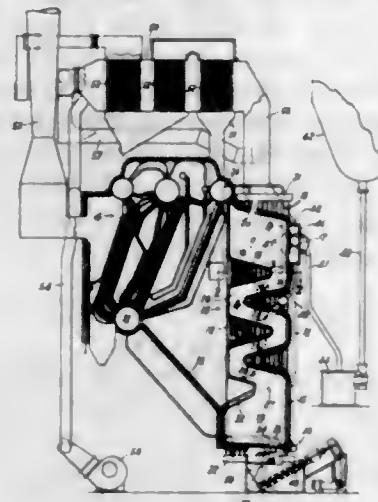


1. In an engine of the character described in combination, a pair of matched cylinder blocks, and a pair of structural plates secured to and extending across the ends of said blocks, whereby said blocks are supported throughout their entire end areas in spaced relation to each other, each of said cylinder blocks having multiple cylinder bores, and having a centrally positioned integral extension member adapted to serve as one half of a crankshaft bearing, there being parallel bores in said extension members on opposite sides of said bearing, and tie rods in said bores, whereby said cylinder blocks and the central crankshaft bearing are integrated into a unitary structure.

2,713,853

### APPARATUS FOR BURNING FUEL

Ralph M. Hardgrove, Canton, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey  
Application December 30, 1949, Serial No. 135,905  
7 Claims. (Cl. 122—238)



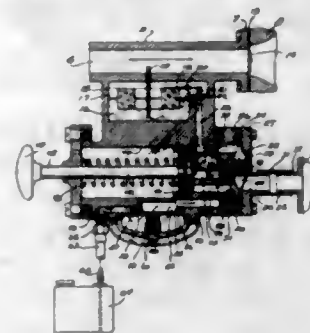
1. Apparatus for burning an ash-bearing fuel comprising reversely bent refractory coated fluid heating tubes cooperating to define a vertically elongated tortuous

passageway of substantially uniform flow area having successive reversals in flow direction and a series of inclined molten ash-supporting surfaces, means for introducing a burning stream of fuel in gaseous suspension into the upper end of said tortuous passageway, and means for collecting molten ash at the lower end of said tortuous passageway substantially out of entraining contact with the discharging gaseous products of combustion.

2,713,854

### FUEL PUMP AND CARBURETOR ASSEMBLY FOR TWO-CYCLE ENGINES

Warren C. Conover, Waukegan, Ill., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware  
Application June 18, 1951, Serial No. 232,110  
10 Claims. (Cl. 123—73)

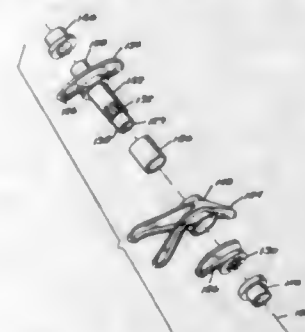


1. In a two-cycle internal combustion engine having a crank case from which carbureted air is transferred to the engine cylinders, carburetor means including an air inlet passage to said crank case, a fuel pump mounted directly on said means and wholly dependent thereon for support from said engine, said fuel pump being provided with a chamber and a diaphragm in said chamber, said carburetor means including a fuel orifice communicating with the pump and the passage and supplied by said pump with fuel for carbureting the air transversing said passage, said pump including a casing in direct physical connection with said passage and comprising means for conducting heat from said pump to said passage for dissipation incident to fuel evaporation during carburetion, and means forming a passage from said crank case to said pump diaphragm chamber for subjecting said diaphragm to crank case pressure for actuation thereof, said means comprising a flexible heat insulating pressure connection from the crank case to the fuel pump diaphragm chamber.

2,713,855

### INTER-NESTED ROCKER ARRANGEMENT FOR OVERHEAD VALVE GEAR

Julius E. Witzky, Royal Oak, Mich., assignor to Studebaker-Packard Corporation, a corporation of Michigan  
Application November 2, 1953, Serial No. 389,665  
1 Claim. (Cl. 123—90)



A rocker assembly for attachment to a cylinder head comprising an elongated hollow rocker structure having an externally smooth mid-portion, similarly smooth opposite end portions, and a splined section between the mid-portion of the rocker structure and one of said

end portions, spaced apart support bracket means detachably secured to the cylinder head and recessed to receive the opposite end portions of the rocker structure therein, another rocker structure having a hub surrounding the mid-portion of said hollow rocker structure, a sleeve bearing element in each recess of the bracket means and cooperating with the other sleeve bearing element for jourably centering the opposite end portions of the hollow rocker structure for anti-friction rocking movement about a fixed axis of oscillation, and a sleeve bearing member between the aforesaid sleeve bearing elements and between the mid-portion of the hollow rocker structure and the hub of the other rocker structure for journaling the latter for anti-friction rocking movement about the fixed axis of oscillation aforesaid, said hollow rocker structure having a valve-engaging finger structure affixed to the splines of the splined section thereof, and said other rocker structure including a valve-engaging finger structure presenting a plurality of fingers divergently separated at one end and having a common portion at the opposite end integrally joined to the said other rocker structure.

2,713,856

### SELF ADJUSTING TAPPET

Joseph D. Turley, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application December 17, 1953, Serial No. 398,688  
7 Claims. (Cl. 123—90)

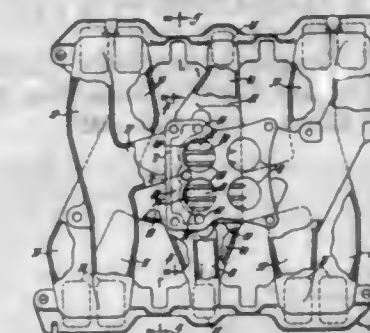


7. A self adjusting tappet adapted to maintain a predetermined clearance in the valve operating mechanism of an internal combustion engine comprising a body member headed at one end internally threaded at the other end thereof and having therein a spring chamber, an axially and outwardly disposed clutch face and a clutch chamber disposed inwardly of said internally threaded portion, a sleeve element threaded within said body member having an axial mating thread clearance proportionate to said predetermined valve mechanism clearance, an inner screw element headed at its outer end helically splined into said sleeve element including a clutch element slidably mounted on the inner end thereof, torsion-compression spring means engaged between the opposed ends of said sleeve element and said clutch element constantly urging said clutch element against the clutch face of said body member and resiliently maintaining said sleeve and screw elements in angular alignment about their helical axis, and a return spring seated in the said body member engaging said screw element urging said screw and sleeve elements axially outwardly from said body member, axial reciprocation of said screw and sleeve element relative to each other causing said sleeve element to turn into seated relationship with the head of said screw element to lengthen the tappet whereupon the only axial movement of the tappet becomes that allowable by the axial clearance between the mating threads of the sleeve element and body member, reciprocation of the sleeve element

2,713,857

### MANIFOLDING SYSTEM WITH FOUR-BARREL CARBURETOR

Paul F. Keydel, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application December 1, 1951, Serial No. 259,445  
13 Claims. (Cl. 123—122)

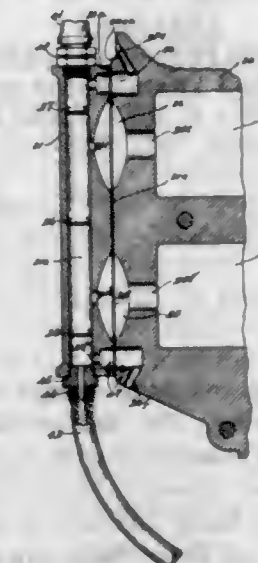


1. An inlet manifold for engines comprising a body having a pair of main distribution passages formed therein and having branch passages at the opposite ends of said main distribution passages extending in opposite directions therefrom, primary and secondary mixture supply passages formed in said body and connected to said main distribution passages intermediate the ends of said main distribution passages, and walls forming an exhaust gas heating passage extending transversely across said main distribution passages on the sides of said main distribution passages opposite said mixture supply passages and in position to heat the walls of said main distribution passages directly opposite said primary mixture supply passages to a greater extent than the walls of said main distribution passages opposite said secondary mixture supply passages.

2,713,858

### GAS PUMP FOR OUTBOARD MOTOR

Daniel A. Armstrong, Walter J. Raleigh, and Allan G. Scott, Minneapolis, Minn., assignors to Scott-Atwater Manufacturing Co. Inc., Minneapolis, Minn., a corporation of Minnesota  
Application April 21, 1950, Serial No. 157,232  
4 Claims. (Cl. 123—139)



1. A two cycle motor having two cylinders and two chambers in which a change of pressure occurs having in combination, a passage adjacent said chambers, diaphragm chambers adjacent said first mentioned chambers respec-

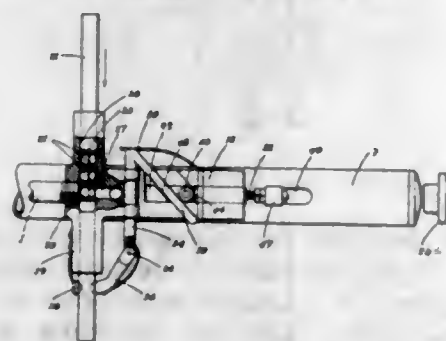


tively and communicating respectively therewith, diaphragms extending across said diaphragm chambers respectively, said diaphragm chambers each having opposed walls at the opposite sides of said diaphragms respectively, passages leading from said first mentioned passage to said diaphragm chambers respectively at the sides thereof opposite said first mentioned chambers, and three check valves including a check valve in said first mentioned passage between said last mentioned passages, and check valves disposed in said first mentioned passage beyond said last mentioned passages respectively preventing passage of liquid in opposite directions.

2,713,859

## SLIDABLE MAGAZINE FOR FLUID PRESSURE GUN

Elmer H. Bradfield, Stockton, Calif.  
Application February 9, 1953, Serial No. 335,735  
2 Claims. (Cl. 124-45)

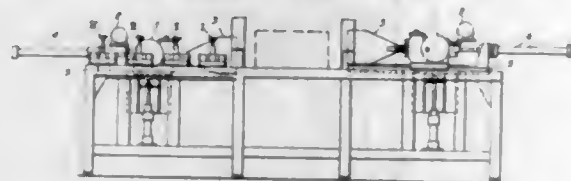


1. In an air actuated gun having a barrel, a mounting block from which the barrel projects, and a pressure-advanced trigger-released and spring-retained piston mounted in connection with the block, a magazine bar slidably transversely through the block and having a row of evenly spaced horizontal pellet receiving openings extending therethrough to successively align with the barrel, advance of the piston by pressure thereagainst admitting air to the block immediately behind the bar in alignment with the barrel, a laterally movable slide bar mounted on the block rearwardly of the magazine bar, a spring-pressed pawl on one end of the slide bar arranged to engage a pellet-opening on the rear side of the magazine bar, means between the piston and the slide bar to shift the same laterally a distance equal to the spacing between the pellet openings upon retractive movement of the piston, and a releasable holding detent mounted on the block on the forward side of the magazine bar in position to engage a pellet opening from which a pellet has been discharged.

2,713,860

## SLATE SPLITTING MACHINE

Eugene T. Lake, Stroud Township, Monroe County, Pa.  
Application October 6, 1953, Serial No. 384,428  
8 Claims. (Cl. 125-23)



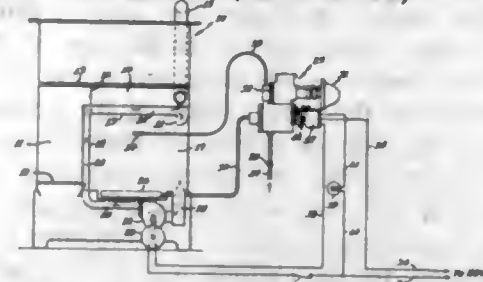
1. A slate splitting machine comprising two chisels facing toward each other, the blades lying in the same plane, hammer means associated with each chisel adapted to give the latter rapid repeated blows toward the opposite chisel, said chisels being adapted to operate at points at the edges of a strip of slate which are opposite to each other, in combination with operator-controlled, hydraulically-driven power means adapted to cause the chisels to sculp the strip from opposite sides simultaneously; whereby the direction of splitting is controlled and the slate strip is split accurately in the direction of the grain.

2,713,861

## ALTERNATE FUEL HEATING APPLIANCE AND THERMOSTATIC CONTROL THEREFOR

William Porter Biddle, Jr., Knoxville, Tenn., and Theodore E. Graves, West Orange, N. J., assignors to The Wilcolator Company, Elizabeth, N. J., a corporation of Delaware

Application June 29, 1951, Serial No. 234,302  
4 Claims. (Cl. 126-36)

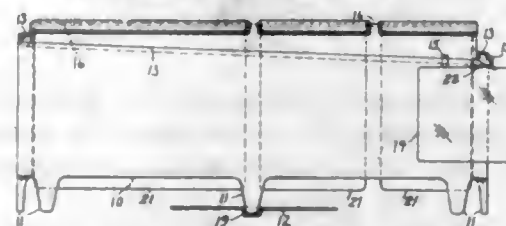


1. In an alternate fuel heating appliance including an oven to be heated, a gas burner for heating the oven, a valve for controlling the flow of fuel to the gas burner, said valve being movable between closed and open positions, a combustion chamber in which a different type of fuel may be burned, means associated with the combustion chamber for heating air, means for conducting heated air from said air heating means to said oven to heat the same, a blower for passing air from said air heating means through said conducting means to the oven, an electric motor for operating said blower, a switch for controlling the supply of electric current to said motor and operable between open and closed positions, a thermostat responsive to changes in the oven temperature, said thermostat being operatively associated with said valve and said switch for operating them in synchronism to move the switch to closed position when the valve is moved to open position and to move the switch to open position when the valve is moved to closed position.

2,713,862

## COOKING UTENSIL GROUPING APPARATUS

Eugene Francis Chase, San Francisco, Calif.  
Application September 19, 1950, Serial No. 185,649  
6 Claims. (Cl. 126-215)



1. In a top of stove cooking apparatus, a plurality of cooking utensils, a jacket member substantially surrounding said plurality of utensils, a framework extending upwardly from and between the walls of said member substantially at the upper edges thereof, said framework extending between said utensils, each of said utensils being so constructed that the contour of the top edge of each is uneven so that a part of said top edge is at a lower level than the balance of the said top edge when said utensil is in operative position, an outwardly extending lip on each of said utensils at the said lower level of the said top edge thereof, said lip being adapted to overlie the top edge of said member when said utensil is in said operative position, the balance of the said top edge of each of said utensils being at a higher level relative to said lip so as to thereby force all boilovers and spillovers over said lip to the exterior wall of said member, a trough on said exterior wall of said member, said trough being adapted to receive said boilovers and spillovers, an outwardly extending lip on each of said utensils at the said top edge which is at said higher level, said lip at said higher level being adapted to rest on said framework when said utensil is in said operative position.

2,713,863

## SELF-PIERCING EARRING

Philip C. Handerson, Delray Beach, Fla.  
Application November 18, 1953, Serial No. 392,973  
4 Claims. (Cl. 128-330)

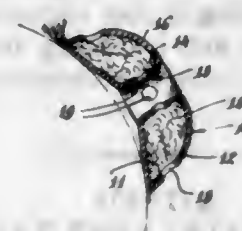


1. In combination, an ear ornament, an ear-piercing prong carried by the ornament, and a tube detachably supported on the ornament and adapted to enter the ear together with the prong and said tube being retained in an embedded position in the ear upon withdrawal of the prong as well as upon removal of the ornament from the ear.

2,713,864

## HAIR CURLERS

Nathan L. Solomon, Englewood, N. J.  
Application October 8, 1952, Serial No. 313,634  
3 Claims. (Cl. 132-40)

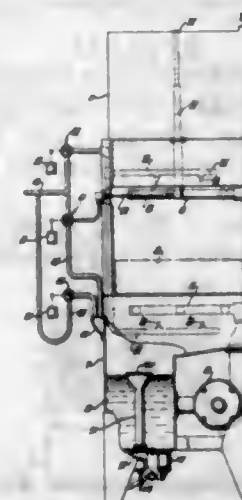


1. A curler comprising a one-piece device of flexible material, said device comprising a central smaller diameter tubular portion opening through both ends of the device, one end of said tubular portion having an integral rounded wall cup-shaped part joining the tubular portion in a weakened wall, the other end of said tubular portion having means extending integrally and angularly thereto and radially a distance slightly greater than the diameter of said cup-shaped part, said weakened wall facilitating flexure of the cup-shaped part into inverted position to envelope the tubular portion and engage said first named means at a position inwardly of the periphery of said means, means for circulating air through said tubular portion and the cup-shaped part, when in inverted position, to dry a hair curl arranged on the tubular portion within said cup-shaped part, and said last named means comprising circumferentially spaced apertures in the tubular portion and cup-shaped part.

2,713,865

## AUTOMATIC DISHWASHING DEVICE

James E. Elkington, San Francisco, Calif.  
Application June 30, 1952, Serial No. 296,309  
3 Claims. (Cl. 134-58)



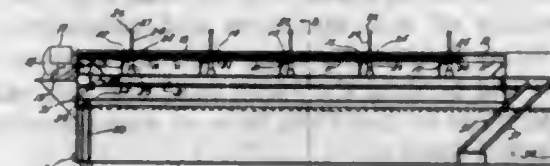
1. A dishwashing machine having an electrically driven timing means and a door providing access to a dishwashing

chamber, a hydraulic actuator connected to said door for opening the same, conduit means for connecting said hydraulic actuator to a source of fluid under pressure, and a solenoid controlled valve in said conduit means, said solenoid being connected in parallel with said electrically driven timing means, said valve being spring biased to an open position, whereby said hydraulic actuator is supplied with fluid under pressure to automatically open said door whenever said solenoid and said electrically driven timing means are deenergized.

2,713,866

## DRUM ROTARY COMBINATION FLUSH AND RINSE UNIT

Robert Lee Kaye, Newark, N. J.  
Application December 20, 1950, Serial No. 201,793  
10 Claims. (Cl. 134-95)

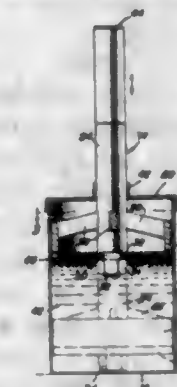


1. A drum cleaning device comprising an elongate tank, a fluid supply pressure header running longitudinally of said tank, a plurality of feed lines connected with said header, a plurality of rotatable nozzle means connected to said feed lines, drive means connected to each of said nozzle means to rotate said nozzle means at a controlled rate, a partition dividing said tank into longitudinal compartments, and drain means constructed to have separable double seals with a central spacing portion separating said seals to direct spent cleaning fluid into a desired compartment for reuse.

2,713,867

## MEAT CHOPPER PLATE CLEANER

John V. Longan, Archer City, Tex.  
Application January 13, 1953, Serial No. 331,052  
1 Claim. (Cl. 134-137)



A meat chopper plate cleaner comprising a container adapted to contain a relatively incompressible cleaning fluid, a meat chopper plate support guidingly carried by said container, said support including means for removably securing a meat chopper plate thereto, said container having a removable cover, said support including a shaft slidably journaled in said cover, a guide carried by a lower end of said shaft for engaging walls of said container, said guide forming a seat for a meat chopper plate, said guide being cylindrical and disposed concentric with said shaft, ribs integral with said guide and said shaft and securing said guide to said shaft.

2,713,868

## CLEANER FOR PAINT APPLICATOR ROLLERS

William F. Lewis, Oak Park, Ill.  
Application April 15, 1953, Serial No. 349,071  
1 Claim. (Cl. 134-172)

A paint applicator roller cleaner comprising a thin disk having an annular row of orifices leading therethrough



adjacent the periphery thereof and concentric with the center thereof, a flexible fitting and fluid passageway defining member having said disk recessed within the edge thereof and extending therefrom and having an open flexible socket fitting over the end of a faucet to form a water tight joint therewith, and a downwardly tapering plug

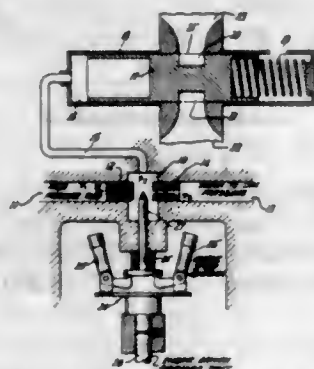


extending from the opposite side of said disk from said fitting inwardly of said apertures and concentric therewith and fitting within the open end of the paint applicator roller and holding the same vertically and positioning said apertures to direct the flow of water downwardly along the mat thereon.

2,713,869

**FLUID PRESSURE REGULATOR**

Charles O. Weisenbach, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware  
Application October 7, 1949, Serial No. 120,211  
15 Claims. (Cl. 137-58)



1. In a hydraulic pressure regulator for control systems for engines, means defining a control pressure chamber, an inlet flow passage for conducting hydraulic fluid to said chamber having an inlet orifice therein, a drain passage for continuously conducting fluid from said chamber having an outlet orifice therein of greater area than said inlet orifice, said inlet orifice being directed toward said outlet orifice so that a portion of a fluid stream or jet is directed to flow directly from said inlet orifice to said outlet orifice, and a member responsive to a condition of engine operation and movable varying distances into the stream flowing across the chamber between said orifices for varying the control pressure in said chamber in a predetermined manner.

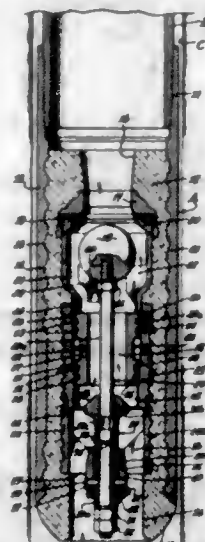
2,713,870

**APPARATUS FOR AUTOMATICALLY FILLING WELL CASING**

Reuben C. Baker, Coalinda, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California  
Application February 3, 1953, Serial No. 334,784  
15 Claims. (Cl. 137-68)

1. In a well apparatus: a tubular member having means thereon for securing said member in a casing string; a valve seat in said tubular member; a tubular valve member slidable along said tubular member into and out of engagement with said seat; means releasably securing said valve seat to said tubular member, in order that engagement of said valve member with said seat enables

fluid pressure above said valve member to act on said valve member and release said securing means; back pressure valve means in said tubular member to prevent flow of fluid in one direction through said tubular member; means releasably associated with said back pressure



valve means to prevent said back pressure valve means from closing comprising a rod connected to said back pressure valve means and extending through said valve seat; and means adjustably positioning said rod with respect to said seat.

2,713,871

**AUTOMATIC VENT VALVE**

Ernest A. Kroder, Bridgeport, Conn.  
Application April 22, 1950, Serial No. 157,601  
9 Claims. (Cl. 137-197)

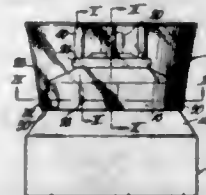


1. An automatic air vent valve for a radiator of a hot water heating system and comprising in combination, a housing having an inlet in one end, a compressible member of rubber-like material having passageways when in expanded condition and positioned within said housing adjacent the inner end of said inlet, hygroscopic means adjacent the end of said member opposite said inlet, and a plug supported by the other end of said housing, said means upon being moistened by water or vapor being expansible between said plug and compressible member and operable to compress said member and close said passageways thereof, thereby to prevent passage of fluid through said valve.

2,713,872

**VALVE PROTECTING CAP FOR PRESSURIZED FLUID CONTAINERS**

Leonard E. Juengling, Kansas City, Kans., assignor to Cook Chemical Company, Kansas City, Mo., a corporation of Missouri  
Application May 5, 1952, Serial No. 286,181  
3 Claims. (Cl. 137-382)



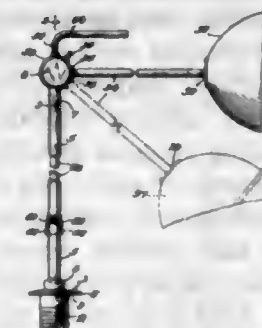
1. Structure of the kind described comprising a pressurized fluid container having an annular neck portion and

a valve normally closing the normally uppermost end of the container above said neck portion; and a valve-protecting cap including a frusto-conical side wall, a top wall closing the base end of said side wall, the opposite end of the side wall being open and surrounding said neck portion, means on the innermost face of the side wall adjacent said open end frictionally engaging said neck portion, and a plurality of pins depending from the innermost face of said top wall and engaging the container in spaced relationship to the valve for limiting the extent of movement of the top wall toward the valve, said top wall being flat, presenting a support when stacking a plurality of said structures.

2,713,873

**FLOAT VALVE**

Julius A. Hjulian, Palos Heights, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois  
Application November 17, 1951, Serial No. 256,875  
4 Claims. (Cl. 137-447)



1. In a float valve comprising a rotatable casing with inlet and outlet portions, a float member connected to said rotatable casing, the said casing having both end portions thereof provided with multiple threads having relatively sharp pitch, an angular form of inlet fitting member threadably connected to the said rotatable casing at the inlet thereof, a second angular fitting connected to the said rotatable casing at the outlet portion thereof, means for connecting said float member to the said rotatable casing, an inlet standpipe supporting the first-named fitting member, and clamp means cooperating with the standpipe and said second named angular fitting to permit predetermined transverse movement therebetween while inhibiting relative angular movement of the said second named angular fitting relative to said standpipe, the said float member comprising a pivotally movable member connected to the said rotatable casing, and a closure member carried by one of the said angular fitting members to interrupt flow between said angular members upon predetermined pivotal movement of the said float member.

2,713,874

**FILLER VALVES**

Savin L. Sundstrom, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a corporation of Illinois  
Application June 6, 1950, Serial No. 166,407  
10 Claims. (Cl. 137-513)



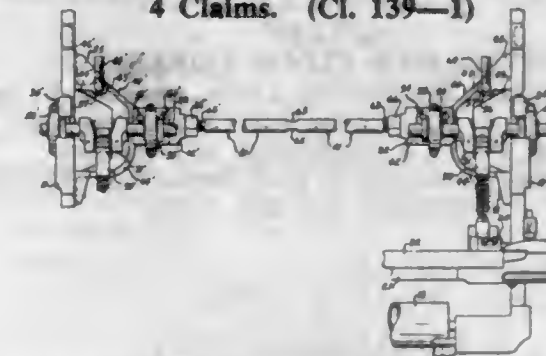
6. A double check valve comprising a body having a passage for fluid therethrough, an integral valve seat near one end of said passage, a moveable valve member having

a flat resilient surface cooperating with said seat to close the passage, a shoulder in the wall of the passage spaced from said valve seat, a retainer means above said shoulder, a removable ring shaped element mounted in said passage between said shoulder and retainer means to establish a seal therebetween and forming a valve port having a contacting edge defining a circle smaller than said valve member, a valve element having a conical surface thereon for closing said port, resilient means for urging said valve element toward said port, one of said elements being formed of a resilient material and the other of a hard material whereby a tight line contact seal is effected when the two are in contact, said resilient means being the sole support of the valve element to permit a lateral shifting thereof, a second resilient means disposed between said moveable valve member and said valve element, said resilient means so as to be moveable independently of the valve element.

2,713,875

**ADJUSTABLE SPREADER FOR LOOMS**

Jesse B. Goodgame, Charlotte, N. C., assignor to Precision Gear and Machine Company, Charlotte, N. C., a corporation of North Carolina  
Application December 19, 1952, Serial No. 326,951  
4 Claims. (Cl. 139-1)



1. In a loom having spaced side frames with crankshaft bearings mounted thereon, a spreader girt assembly connecting the side frames comprising a pair of spaced spreader ends and a spreader rod, means for rigidly connecting the spreader ends to the side frames, means for mounting a bearing on each of the spreader ends in alignment with the bearings on the side frames, the spreader rod having oppositely-turned threads on opposite ends thereof, and opposite ends of the spreader rod being threadably embedded in the proximal ends of the spaced spreader ends whereby upon turning the spreader rod relative to the spreader ends, the over-all length of the spreader assembly may be varied without varying the alignment of the bearings.

2,713,876

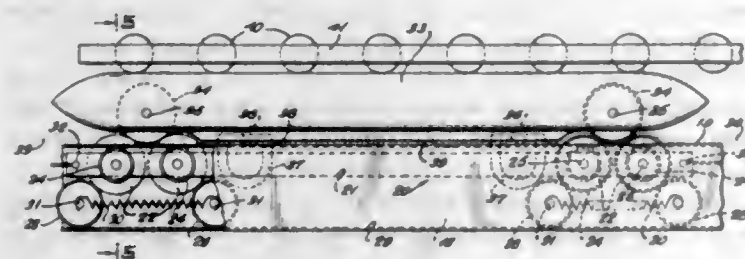
**LOOMS**

John Ridgway Walton, Bowerly, Langcliffe, Settle, England, assignor, by mesne assignments, to Chicopee Manufacturing Corp., New Brunswick, N. J., a corporation of Massachusetts  
Application June 28, 1952, Serial No. 296,113  
Claims priority, application Great Britain August 31, 1951  
6 Claims. (Cl. 139-134)

1. In a loom the improvement comprising, a slay comprising a raceboard positioned below and extending across the warp threads and a floor spaced below said raceboard, said raceboard having a longitudinal gap extending the width of the warp threads, a traveler mounted in the slay for reciprocating movement from one side of the warp threads to the other, said traveler having a front and a rear pair of wheels projecting through the gap of the raceboard, the wheels in said pairs being slightly spaced from one another with their axes extending transversely of the slay in substantially the same horizontal plane, a front



and a rear pair of rollers arranged to roll longitudinally along the floor of the slay, the rollers of each of said pairs being spring urged together and supporting a corresponding pair of said spaced wheels between them, auxiliary wheels axially fixed on said traveler urged against the underside of said raceboard by the springs of said

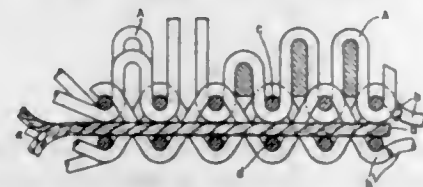


pairs of rollers acting through the spaced wheels of said traveler, and a shuttle above the warp threads mounted on a front and a rear roller, each of said shuttle rollers being supported by and nesting with a corresponding pair of spaced wheels of said traveler, whereby the traveler supports the shuttle with warp threads interposed and the shuttle moves with the traveler in a reciprocating manner.

2,713,877

## WOVEN PILE FLOOR COVERING

Robert J. Jackson, Hazardville, Conn., assignor, by mesne assignments, to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware  
Application December 9, 1949, Serial No. 132,113  
3 Claims. (Cl. 139-403)

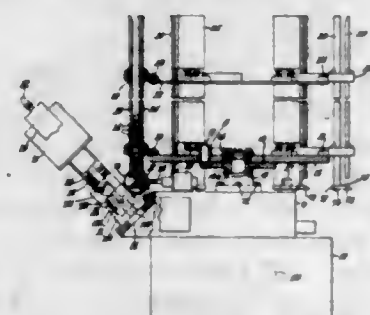


1. A pile fabric floor covering having a warp pile face comprising pairs of immediately adjacent weftwise rows of pile, one row of each pair containing cut pile tufts of which the legs of each tuft are of the same height, and the other row containing high and low pile loops, at least one pile warp being common to the two rows, said loops and tufts being woven into a backing structure including stuffer warps, a series of holding wefts lying on one side of the stuffer warps, a series of non-holding wefts lying on the other side of the stuffer warps and binder warps holding the wefts of both series of wefts against the stuffer warps.

2,713,878

## FORMING AND CUTTING MACHINE FOR RADIO COMPONENTS

Alfred R. Stahl, Garnet Lake, N. Y., assignor to General Electric Company, a corporation of New York  
Application January 5, 1952, Serial No. 265,156  
3 Claims. (Cl. 140-71)

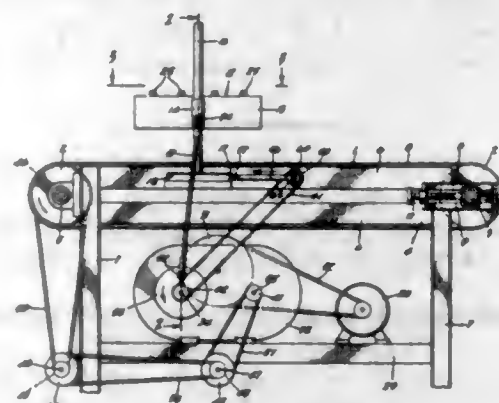


2. A machine for processing electronic assembly components comprising a box like base structure having a

bushing member extending vertically above said structure, a rotatable support member mounted on said bushing member and having a shank portion rotatable within said bushing and terminating therebelow in an index wheel having a plurality of locking notches and a like numbered plurality of ratchet teeth, a turret magazine comprising a base plate removably secured for rotation upon said rotatable support member and comprising a plurality of circumferentially spaced vertically extending component storing magazines secured to said base plate, said last mentioned plurality being like in number to the number of locking notches and of ratchet teeth, said box like base structure having contained therein an index and lock mechanism comprising a locking pin adapted to sequentially engage each of said locking notches, spring means arranged to bias said locking pin into any of said notches when aligned therewith, a trip lever arranged to disengage said pin from said notches against the force of said spring means, an indexing slide adapted to operate said trip lever for a single first direction of movement of said slide, an indexing fluid pressure cylinder for causing movement of said slide in said first and in an opposite second or return direction, an indexing ratchet arm carried by said slide and having a portion designed to mate with any one of said ratchet teeth for causing rotation of said indexing wheel and said rotatable support member and said turret magazine with movement of said slide in said first direction, means for rendering said ratchet arm inoperative to cause movement of said ratchet wheel with movement of said slide in said second direction, fluid pressure supply means for supplying fluid pressure to said indexing cylinder, a solenoid operated valve interposed between said supply means and said cylinder, photoelectric responsive control means arranged to alternately energize and de-energize said solenoid operated valve, a photocell arranged to energize said control unit responsive to a light beam, a light source arranged to energize said photocell with a light beam passing through any empty magazine aligned therebetween, and power supply means for energizing said light supply source and said control unit.

2,713,879

MACHINE FOR CUTTING FOOD INTO CHUNKS  
Louie Bogdanovich, San Pedro, Calif., assignor to The French Sardine Company of California, Terminal Island, Calif., a corporation of California  
Application May 19, 1953, Serial No. 356,069  
2 Claims. (Cl. 146-78)



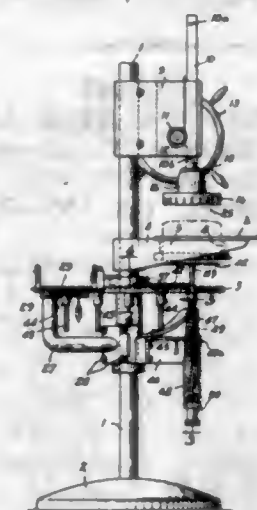
1. A food chopping machine comprising a frame, an endless conveyor mounted on said frame for carrying material past a cutting station, a pair of crossheads slidably mounted on said frame one adjacent each side of said conveyor in opposed relation, said crossheads being guided for rectilinear movement parallel to said conveyor, a guide connected to each of said crossheads and extending above said conveyor, the axis of said guides being normal to the plane of said conveyor, a cutterhead slidably mounted on said guides, a pair of knives mounted on said cutterhead, said knives being

arranged in the form of a V with the point of the V adjacent one of said guides and the open end symmetrically disposed adjacent the other, a pair of eccentric cams mounted on said frame one adjacent each side of said conveyor, a link connecting each of said eccentric cams with one of the crossheads, a pair of crank members mounted on said frame below said conveyor one adjacent each side thereof, a pair of connecting rods connecting said crank members with said cutterhead, and drive means operatively connected to drive said conveyor and said eccentric cams and said cranks in timed relation with each other, whereby said cutterhead is moved with said conveyor at the same speed during its downward cutting stroke and in the opposite direction during its upward return stroke.

2,713,880

## CAKE SLICING MACHINE HAVING A RECIPROCATING PLUNGER

Gordon Hill, Bettendorf, and Paul C. Bauer, Davenport, Iowa, assignors, by mesne assignments, to Bettendorf Bakery Equipment Company, Bettendorf, Iowa, a corporation of Iowa  
Application October 3, 1951, Serial No. 249,501  
13 Claims. (Cl. 146-169)

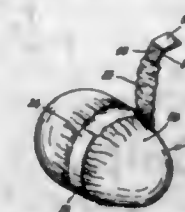


1. A cake cutter comprising a structure formed to provide a cake receiving well, a series of spaced slicer blades forming the cake supporting bottom of said well, a plunger movable relative to said structure into and out of said well, said plunger having a cake engaging bottom face provided with slots to receive said blades, a cake receiving turntable beneath the well and rotatably mounted to turn about an axis spaced laterally with respect to said well, a discharge runway adjoining the periphery of the turntable and spaced laterally of said well, and means for shifting articles from the turntable to said runway.

2,713,881

## METHOD FOR REMOVING THE SHELL OF A HARD BOILED EGG

Ross Odor Shideler, Indianapolis, Ind., assignor to United States Equipment Corporation, Indianapolis, Ind., a corporation of Indiana  
Application March 20, 1953, Serial No. 343,756  
1 Claim. (Cl. 146-221)



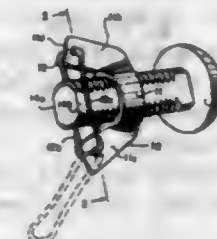
A method for removing the shell from a hard-boiled egg comprising the steps of providing an adhesively-joined shell region extending annularly about the mid-portion of the egg, thereafter cracking the shell throughout

said region, stripping said shell region from about the egg thereby to divide the shell into two separate end portions, and thereafter slipping said end portions from said egg.

2,713,882

## WING NUT ASSEMBLY WITH SPRING WIRE LOCKING MEANS

Norman A. Wilkes, Hyde Park, N. Y.  
Application October 3, 1951, Serial No. 249,603  
1 Claim. (Cl. 151-28)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

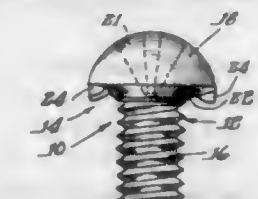


In combination, a threaded bolt and a similarly threaded nut therefor for engagement therewith, the shank of said bolt having a pair of oppositely-disposed flat surfaces along the threaded portion thereof, said nut being provided with first and second wings disposed respectively on diametrically-opposite sides thereof, said first wing having an opening therethrough, said second wing having complementary depressions on opposite sides thereof, and a substantially rectangularly-shaped locking element of open configuration having one side pivoted in said opening, the opposite side of said element having a split therein, the opposite borders of said split serving to engage said depressions to lock said spring element relative to said wing nut, the intermediate sides of said locking element being bent toward each other to engage said flat surfaces when said borders are engaged with the depressions in said second wing.

2,713,883

## SCREW WITH REINFORCED DRIVER SOCKET AND COUPLED LOCK WASHER

Ougljesa Jules Poupitch, Itasca, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application April 19, 1951, Serial No. 221,769  
2 Claims. (Cl. 151-37)



1. A fastener unit including a screw element comprising a shank, a head having a clamping surface extending normally to the shank axis, said head having a recess for accommodating a driving tool such as a screw driver and said recess extending into the head at least to a point approximating the plane of said clamping surface, the juncture of the shank and head being defined by a fillet having the outer margin thereof merging into the clamping surface at a point radially outwardly of the major screw diameter and having the intermediate surface thereof curving gradually inwardly and toward the entering extremity of the shank, the material of said fillet contributing substantially to strengthen the otherwise weakened cross section between the bottom of the recess and the juncture of the shank with the head, a lock washer with teeth projecting from opposite faces thereof and having an inner countersunk annular body portion providing a bearing surface in shaped conformity with and positioned adjacent the periphery of said fillet to resist flattening of the teeth when the fastener unit is screwed into a complementary workpiece, annularly disposed abutment



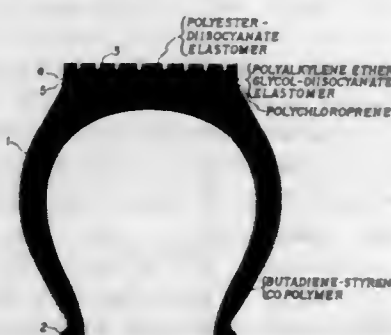
means in the vicinity of the juncture of the inner margin of the fillet and shank, said abutment means projecting radially outwardly beyond the adjacent surface of the fillet and the inner margin of the washer to trap the washer on the screw element, said shank having screw threads extending substantially to the fillet, the underside of said annularly disposed abutment means bounded by a recess which lies substantially entirely outwardly of the area defined by an extension of the curve of the fillet to the minor diameter of the thread adjacent said fillet.

2,713,884

## COMPOSITE ELASTIC STRUCTURES

Harold G. Schwartz, Woodstown, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application November 6, 1953, Serial No. 390,753  
7 Claims. (Cl. 152—330)



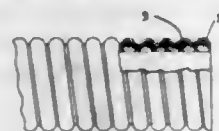
6. A composite elastic structure comprising a layer of a polyester-diisocyanate elastomer, a layer of a polyalkylene ether glycol-diisocyanate elastomer, and a polychloroprene layer, the polyalkylene ether glycol-diisocyanate elastomer layer being in intimate adherent relationship with and interposed between the other two layers.

2,713,885

## METHOD OF MAKING FLEXIBLE HOSE

James G. McKinley, Waynesville, N. C., assignor to The Dayton Rubber Company, a corporation of Ohio  
Original application April 8, 1948, Serial No. 19,798.  
Divided and this application July 24, 1950, Serial No. 175,520

6 Claims. (Cl. 154—8)

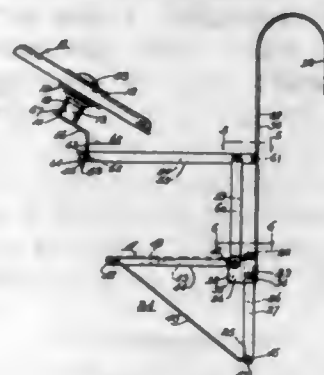


1. A method for the manufacture of a flexible conduit having a substantially smooth and continuous inner surface and a substantially smooth and corrugated outer surface which comprises forming an inner rubber tube, applying said inner tube over an elongated mandrel, applying a wire reinforcing member around said inner tube in spaced helical turns, forming a second rubber tube having an interior diameter substantially corresponding to the exterior diameter of the inner tube, applying said second tube over said inner tube and said wire reinforcing member while on said elongated mandrel, winding a second wire member around said outer tube in spaced turns while the superimposed tubes are on said elongated mandrel, said turns being positioned intermediate the turns of the inner reinforcing member, applying sufficient tension to said outer wire to force the outer tube between the turns of the inner reinforcing member and completely surround it, vulcanizing the assembly to integrally unite the inner and outer tubes with the wire reinforcing member firmly embedded therebetween, removing the outer wire wrapping member to leave a substantially smooth and helically corrugated outer surface, and removing the conduit thus formed from said elongated mandrel.

2,713,886

## TOY STEERING WHEEL AND SEAT

Louis Solomon, Chicago, Ill.  
Application February 25, 1953, Serial No. 338,647  
2 Claims. (Cl. 155—11)

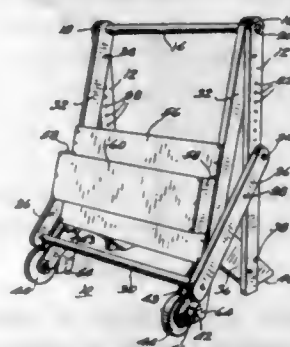


1. A toy comprising a seat frame, a bottom rail attached to said frame, a cover attached to said frame forming a child's seat, a pair of upright arms attached to said frame and adapted to removably engage the back of an automobile seat and said bottom rail adapted to rest on the automobile seat, a guard rail pivotally attached to said frame and removably attached to said arms and a wheel rotatably and removably attached to said guard rail.

2,713,887

## SAFETY WALKING AID

Alvin R. Thomas, Weyauwega, Wis.  
Application May 29, 1953, Serial No. 358,288  
6 Claims. (Cl. 155—22)

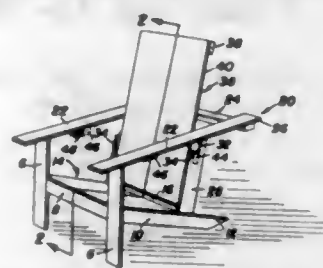


1. A walking aid comprising handle means, a supporting structure for positioning said handle means in spaced relationship to a walking surface, wheel means secured to the forward portion of said supporting structure for engagement with such walking surface and having a fixed axis of rotation, skid means fixed to the rearward portion of said supporting structure, and stop means fixed adjacent to said wheel means having a walking surface-engaging face disposed above the plane of said skid means and the surface-engaging portion of said wheel means.

2,713,888

## CONVERTIBLE-TYPE LAWN CHAIR

Lewis M. Andrews, Montgomery, N. Y.  
Application February 1, 1952, Serial No. 269,567  
4 Claims. (Cl. 155—43)



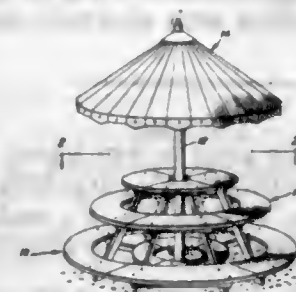
1. A chair comprising a horizontal substantially U-shaped frame embodying a pair of rigid spaced parallel frame members, a leg framework supporting said frame in an elevated position, seat means fixed on said

framework in a plane below said frame, a pair of spaced parallel cleats secured atop one end portion of said seat means, upright struts attached to and rising from said seat means and attached at their upper ends to said frame members, the upper end portion of each strut being bifurcated and providing furcations, at least one of said furcations being cut back and cooperating with the adjacent furcation in defining a keeper seat between said furcations, a backrest having a lower portion located between said struts and frame members with its lower end portion fitting releasably in the space between said cleats and resting directly on said seat means, and a cross-piece fastened to said backrest and having extending end portions, the latter providing keepers and said keepers fitting removably into their respective keeper seats.

2,713,889

## COMBINED TABLE AND CHAIR

Moses M. White, Forest City, Ark.  
Application October 27, 1952, Serial No. 317,035  
6 Claims. (Cl. 155—124)

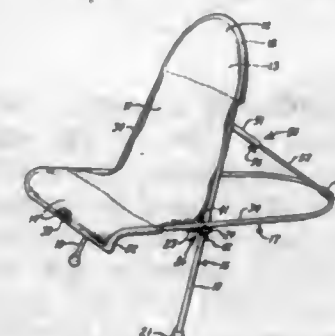


1. A sectional combined seat and table comprising a plurality of separable sections connected in edge abutting relation, each of said sections including a main support engageable at its lower end with a supporting surface, means at the upper end of said main support for connecting the same to a central support, horizontal support elements carried by said main support in vertically spaced relation, seat and table forming panels carried by support elements.

2,713,890

## FOLDING CHAIR

Halmer B. Mack, Walnut Creek, Calif., assignor to Holbrook Merrill Co., San Francisco, Calif., a corporation of California  
Application December 7, 1953, Serial No. 396,492  
5 Claims. (Cl. 155—143)



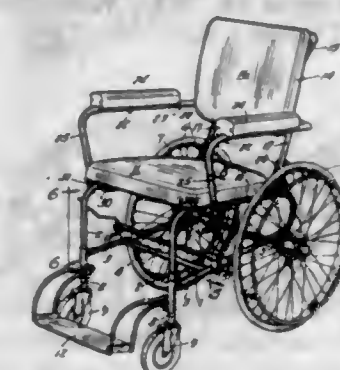
1. A sling-type adjustable chair comprising an elongated web sling, a first frame member formed of a rigid bar in an inverted U-shape, the ends of said U comprising legs, first means comprising a first curved connecting portion of said U for attaching said first frame member to one end of said sling, a first cross member on said first frame member adjacent the upper end thereof, a second cross member on said first frame member at approximately the midpoint of said legs thereof, said second cross member projecting laterally outward beyond said legs, a second frame member, said second frame member having a second connecting curved portion at one end, a third connecting member at its opposite end

and substantially parallel sides connecting said second connecting portion and said third connecting member, said sides fitting outside of and in close proximity to said legs of said first member, second means for attaching said third connecting member to the other end of said sling, a telescopic strut connecting said first cross member and said second connecting member of said second frame member, means for adjusting the length of said strut, said sides of said second frame member resting upon and being supported by the laterally projecting portions of said second cross member when said chair is in body-supporting position, a first projection on said side of said second frame member extending inwardly in front of one of said legs of said first frame member and then rearwardly along the side thereof to restrain said first and second frame members against lateral and rearward movement, a second projection on said side of said second frame member extending behind said laterally projecting portion of said second cross member and rearwardly along the outside of said leg of said first frame member, said first and second projections cooperating to restrain the frame members against lateral movement with respect to each other and against longitudinal movement of said second frame member in any direction, said second frame member being disengageable from said first frame member by raising the forward end of said second frame member and swinging the same upwardly and rearwardly.

2,713,891

## WHEEL CHAIR CONSTRUCTION

William A. Linquist, Minneapolis, Minn.  
Application January 2, 1953, Serial No. 329,247  
2 Claims. (Cl. 155—152)



1. In a wheel chair, a frame structure, a horizontally disposed seat on said frame structure, a back rest frame pivotally secured on a horizontal axis to said frame structure rearwardly of said seat for swinging movements of the former from a substantially vertical operative position to an inoperative position toward engagement with said seat, means positively limiting rearward swinging movements of said back rest frame from its substantially vertical operative position, a pair of elongated arm rest elements, means for detachably securing the rear end portions of said elements to opposite sides of said back rest frame above the pivotal connection thereof with said frame structure, and means for detachably securing the front end portions of said elements to said frame structure on opposite sides of and adjacent the front end portion of said seat, said first-mentioned means including a pair of opposed key-equipped trunnions on the rear end portions of said arm rest elements adapted to be rotatably received in aligned apertures in said back rest frame, and said last-mentioned means including a pair of horizontally-disposed rotatable keys one each on opposite sides of said frame structure and adapted to be received within key-hole openings in the lower end portions of said elements upon forward pivotal movements of said trunnions in their cooperating openings, partial rotation of said keys positively locking said last-mentioned keys in said



slots, said trunnions being positively locked in their co-operating key-hole openings when said last-mentioned keys are received within said key-hole slots.

2,713,892

### RUBBER BUMPER AND CONTOURING UNIT FOR CHAIR SEATS

Howard W. Knapp, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio

Application August 26, 1954, Serial No. 452,299  
3 Claims. (Cl. 155—184)



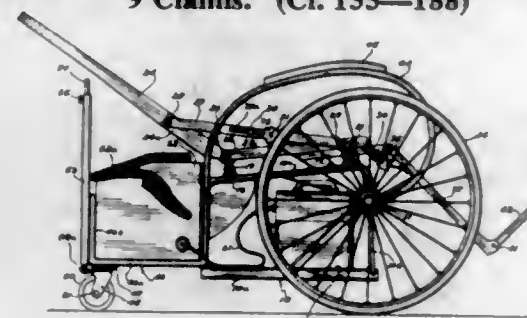
3. A rubber bumper and firm contouring unit for covering the edge and side walls of metal furniture seats, comprising a mold body, said body having a solid strip portion with a bulged arcuate front surface and a flat rear surface, and a flat surfaced seat connectable squaring flange extending from said rear surface, said squaring flange having mitered end edges and being relatively thinner and more flexible than said solid strip portion with the arcuate front surface.

2,713,893

### WHEEL CHAIR FOR SUPPORTING IRON LUNG

Robert Dale Kuhl, Chester, Minn.

Application August 24, 1951, Serial No. 243,555  
9 Claims. (Cl. 155—188)



1. A chair for a hospital patient having in combination, a base frame of general rectangular form in vertical and horizontal section and the bottom portion of said frame extending rearwardly for some distance, wheels adjacent the front of said frame and adjacent the rear portion of said extended portion of said frame, a chair seat and back carried on the upper portion of said frame, said back being swingable about a horizontal pivot to upper and lower positions, members extending vertically in the rear of said front wheels and spaced forwardly of said rear wheels at each side of said frame, a pair of members extending vertically at the rear of said frame at each side thereof adjacent said rear wheels, said pairs of vertically extending members together with said extended portion of said frame forming a compartment adapted to receive the casing of an iron lung apparatus.

2,713,894

### METHOD AND APPARATUS FOR PARTIAL COMBUSTION OF GASIFORM HYDROCARBONS

Bruce H. Sage, Altadena, Calif., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application August 10, 1951, Serial No. 241,303

3 Claims. (Cl. 158—99)

1. A burner comprising a plurality of similarly shaped flat plates arranged in a stacked array and spaced not

less than one thirty-second and not more than one-fourth inch apart from one another, each of said plates having a plurality of similarly shaped and positioned openings therethrough in register with one another defining the inner peripheries of separate conduits extending through said array, means disposed between each plate and the next adjacent plate, each of said means having at least one opening in register with a corre-



sponding opening in said plates forming a continuous conduit from the extreme edge of one of said plates to the extreme edge of the other and formed to permit communication between at least one other of said openings and the space between said plates, said means being arranged between successive plates in an alternating manner to cooperate with alternate openings in said plates.

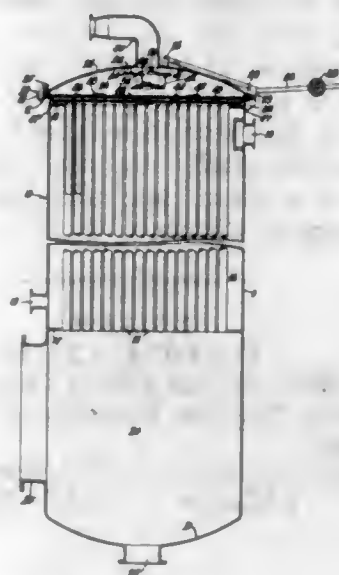
2,713,895

### APPARATUS FOR SUPPLYING AND DISTRIBUTING LIQUIDS

Albert W. Eckstrom, Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware

Application May 31, 1951, Serial No. 229,006

2 Claims. (Cl. 159—43)



1. In liquid distributing apparatus having a distributing chamber formed by a tubular side wall, a horizontal bottom wall across the interior of said tubular side wall, and a cover removably secured to the upper rim of said tubular side wall, and said liquid distributing apparatus also having a vertical discharge pipe arranged to discharge liquid downwardly into the center of said distributing chamber and said liquid distributing apparatus also having means for conveying liquid out of the bottom of said distributing chamber; the combination therewith of means for distributing over said horizontal bottom wall the liquid discharged downwardly from said pipe into said distributing chamber, comprising a generally horizontal stationary bottom plate occupying substantially the full horizontal area of said chamber and having a series of uniformly spaced perforations therethrough and arranged above and in closely spaced juxtaposition to said surface, spaced protuberances projecting radially from the perimeter of said bottom plate and holding said perimeter in closely spaced relation to the interior of said tubular side wall, and means arranged to distribute a portion of the liquid from said discharge pipe to the

upper face of said bottom plate and another portion radially along the under side of said cover and then down through the space between the perimeter of said bottom plate and said tubular side wall to the marginal part of said surface.

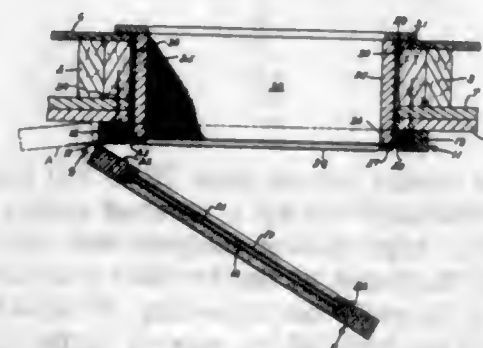
2,713,896

### CASEMENT WINDOWS

Myron M. Kehne, St. Paul, Minn.

Application August 14, 1950, Serial No. 179,129

3 Claims. (Cl. 160—92)



1. In a casement window structure, a stationary frame comprising top, bottom and side rails secured together at the corners of the frame to provide a relatively flat open frame structure adapted to be seated against and secured to a building wall in registry with a window opening therein, opposed jamb members and an upper trim member and a lower sill member secured together to provide a box-like frame portion adapted to be received in the window opening in the building wall, said box-like frame having one end fitting into said stationary frame and secured thereto, and a sash frame pivoted to the outer marginal edge portion of one of the side rails of said stationary frame and having a transparent panel therein, the effective area of which is substantially equal in size to the size of the opening in said box-like frame portion, thereby to provide maximum vision through the composite window structure.

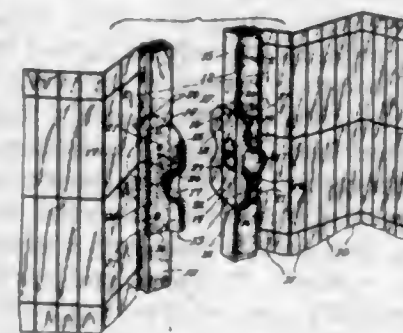
2,713,897

### HANDLES FOR FLEXIBLE DOORS

Walter Dorwin Teague, Annandale, N. J., and Robert H. Ensign, Bronxville, N. Y., assignors to The Hough Shade Corporation, a corporation of Connecticut

Application March 27, 1953, Serial No. 345,166

13 Claims. (Cl. 160—117)



1. A latching door handle comprising a body portion having a pair of spaced flanges projecting rearwardly and defining an opening for receiving the edge of a door, coplanar flanges oppositely right angularly directed from the junction of the body portion and the spaced flanges and each provided with a rearwardly directed concavo-convex portion to be grasped between the terminal phalanges of the hand with the thumb on the concave side and the fingers on the convex side, and a latch pin having a tapered enlargement projecting forwardly from the body portion for insertion in a receiving catch on a surface against which the door is adapted to be closed.

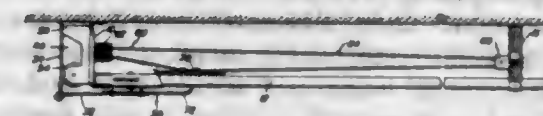
2,713,898

### DRAPERY SUPPORT

Paul Friederich Hartmann, Huntington Park, Calif.

Application October 4, 1954, Serial No. 460,131

12 Claims. (Cl. 160—123)



1. For use in combination with a drapery support for draw draperies of the type including a traverse rod, an end master slide, said master slide being adapted to be supported on an outer end of a traverse rod and support an end of a drapery half, said master slide being formed in sections pivotally connected together, said sections being spring urged out of alignment whereby one of said sections extends about an end of a drapery support when said master slide is at an end of a traverse rod.

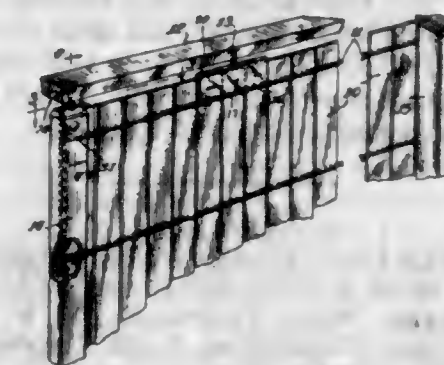
2,713,899

### FLEXIBLE DOORS

Don C. Holloway, Janesville, Wis., and Robert H. Ensign, Bronxville, N. Y., assignors to The Hough Shade Corporation, Janesville, Wis., a corporation of Connecticut

Application March 16, 1953, Serial No. 342,626

5 Claims. (Cl. 160—199)



1. In combination, a flexible door comprising vertical wood slats woven together to form a fabric, an overhead track, means for slidably supporting the door from the track including a plurality of supporting hangers, said hangers comprising bow-shaped clips having legs formed of transparent plastic material capable of being pierced by a metal staple, with the legs of the clips straddling and extending downwardly over portions of the upper margin of the door fabric, wire staples securing the clips to the fabric, a glide secured to each hanger and cooperating with the track for slidably supporting the door from the overhead track, said transparent legs of the clips and said staples being relatively inconspicuous whereby the general form and lines of the door are not substantially obscured or marred by said supporting means, said clips also having a ridge portion provided with an opening therein, a bar within said ridge portion having an arched portion exposed by said opening, said glide including a track engaging portion and a stem passing through said track engaging portion and having an eye on its lower end, said eye being telescopically received by said arched portion of the bar at said opening for supporting the clip from said glide.

2,713,900

### TIME CONTROLLED VALVE CLOSING MECHANISM

Abe M. Bloom, Van Nuys, Calif.

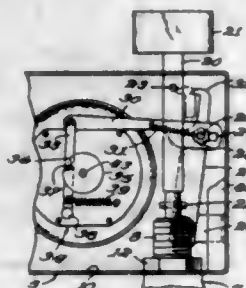
Application April 25, 1952, Serial No. 284,291

3 Claims. (Cl. 161—7)

1. In a device of the character described: a reciprocable member to be controlled; means yieldingly urging said reciprocable member in one direction; a control member movable transversely of the reciprocable member; a movable striker; a timer mechanism for suddenly



moving said striker from a retracted position to a forward position; a pin and slot connection between the control member and said striker; resilient means carried by the striker for urging said control member toward a limiting engaging position with respect to said striker; first and second latch elements carried by the control member and the reciprocable member respectively; said first latch element, when said striker is in said retracted position, and said control member in said limiting position being in the path of movement of said second latch element; said latch elements having engageable cam

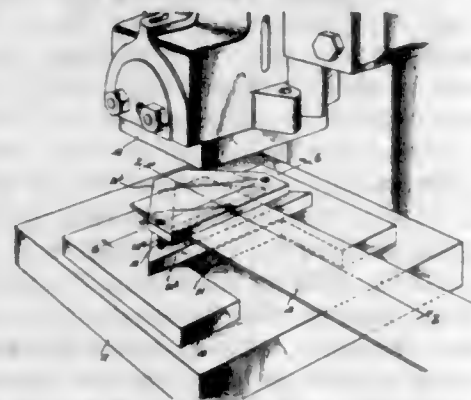


means operable upon movement of said reciprocable member in the other direction and when said striker is in said retracted position to move said first latch element out of the path of movement of said second latch element against the force of said resilient means to permit said latch elements to be engaged; said resilient means urging said first latch element into latching relationship with said second latch element; said latch elements, when engaged, and when said striker is in said retracted position, preventing movement of said control member to said limiting engaging position.

2,713,901

# APPARATUS FOR CLEARING PUNCHED BLANKS FROM A PUNCHING ASSEMBLY

Paul H. Taylor, North Tonawanda, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York  
Application September 19, 1950, Serial No. 185,602  
5 Claims. (Cl. 164-21)



1. Apparatus of the character described comprising a blanking punch and a blanking die between which stock material may be introduced and which are operatively related as an assembly adapted to be located between the cooperating stationary and movable parts of a press, said die having a die cavity extending completely therethrough, and a base plate mounted upon one of said parts and having an area upon which said assembly is supported during operation of said press and an opening located at one side of said area, said opening having a width less than the overall width of said die but a width and a length greater than the width and length of the die cavity, said die being mounted directly on said base plate, and said punch being mounted in said assembly above said die, whereby said assembly may be moved over said opening after operation of said press so that a blank punched from said stock material may enter said opening and in so doing be cleared from said assembly which may then be returned to its original position over said area.

2,713,902

# STEEL CUTTING RULE

Robert Biss, Cardiff, Wales  
Application December 7, 1950, Serial No. 199,663  
Claims priority, application Great Britain April 18, 1950  
3 Claims. (Cl. 164-29)

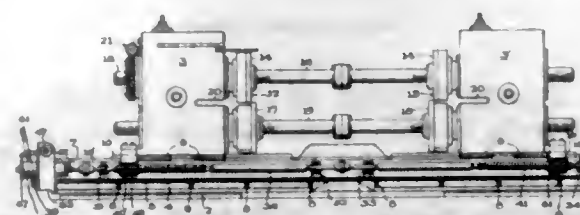


1. A steel cutting rule of from 20 to 160 thousandths of an inch thickness having a bevelled cutting edge on a longitudinal edge thereof integral with the body of the rule and hardened at the bevelled part of the rule but having a hardness not exceeding 38 Rockwell C in the whole of the body of the rule up to the bevels, the body of the rule having such a degree of hardness and crystalline structure that it can be longitudinally shaped around small radii without cracking, the crystalline structure of the bevelled part in cross-section having a hardness varying from the extreme cutting edge where it is hardest towards the plane of junction of the body with the bevels, the crystalline structure becoming of the same type as that of the body before passing said plane.

2,713,903

# EDGE TRIMMING APPARATUS FOR MOVING SHEET MATERIAL

Arthur Dean Smith, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware  
Application December 5, 1951, Serial No. 260,015  
7 Claims. (Cl. 164-60)

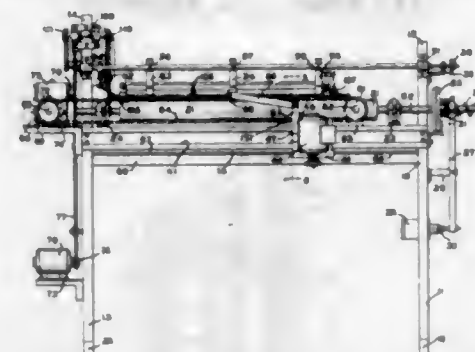


1. In a machine of the type described for trimming the edges of strip material, the combination of a base frame, a pair of spaced housings slidably mounted on the said base frame between which said strip material passes, a pair of cooperating rotary cutters carried by each of said housings, and common means for alternately moving said housings and the cutters carried thereby toward and away from one another and for laterally adjusting said housings and the cutters carried thereby in unison with respect to the center line of the said strip material being fed to the said machine, said means including a rotatable adjusting screw having reversely threaded end portions each one of which threadedly engages a separate housing whereby upon a predetermined rotational movement of said screw said housings can be moved alternately toward and away from one another, fixed locking means, and a clutch jaw member slidably and longitudinally keyed to the said screw, and means for moving said jaw member into engagement with said locking means to thereby lock said screw against rotational movement, and means engaging said screw and acting at the same time that the jaw is locked to cause the screw to be displaced laterally so as to cause the housing threadedly attached to the said screw and the pairs of cutters carried by said housing to be also moved in unison and in the same direction laterally with respect to the center line of said strip material.

2,713,904

# MACHINE FOR CUTTING CONTINUOUS MATERIAL INTO A SUCCESSION OF PRE-SELECTED LENGTHS

Irving Ostuw and Hiram D. Dillard, Calhoun, Ga.  
Application September 26, 1951, Serial No. 248,368  
9 Claims. (Cl. 164-76)

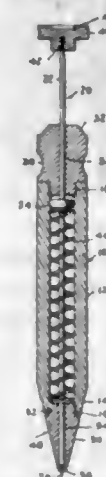


1. In a cutting machine of the class described, a frame, a drive roller positioned on said frame for transferring a continuous material, clutch means operably connecting said drive roller to a power source, a solenoid control for said clutch means, a track member fixed on said frame substantially coextensive with said drive roller, a driven cutting blade mounted for movement on said track member, a slot formed on said machine coextensive with said track member and adjacent to the material passing over the drive roller, said cutting blade protruding into said slot normally out of contact with the material, transfer means for moving said cutting blade on said track into contact with said material, power means for said transfer means, a measuring frame positioned above said drive roller, a plurality of measuring discs rotatably mounted in contact with the material on said roller, a measuring chain driven by said picker discs, a high link on said measuring chain, a first switch adapted to be controlled by said measuring chain, and a second switch adapted to be controlled by said transfer means, said first switch opening the circuit to stop the roller and start the transfer means, said second switch adapted to stop the transfer means and start the roller, whereby pre-selected lengths of the material are automatically measured and cut in succession on the machine.

2,713,905

# PERFORATING DEVICE

Augustus J. Hartley, Atlanta, Ga.  
Application February 8, 1952, Serial No. 270,640  
1 Claim. (Cl. 164-119)



A hand implement for perforating sheet material comprising a guide shank, a locating and anchoring point carried by said shank and extending longitudinally therefrom in axial alignment therewith for piercing the portion of a sheet to be punched out and fixing the position of said implement relative to the sheet, a series of longitudinally spaced circumferential ribs carried by and ex-

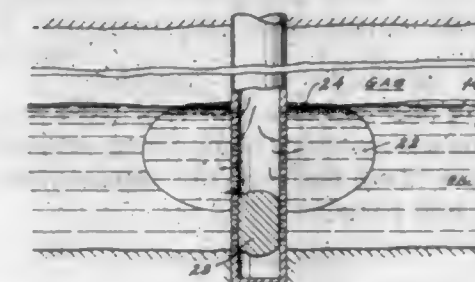
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tending outwardly from said anchoring point for detachably engaging the sheet material, and a continuous cutting blade carried by the shank for movement longitudinally thereon from a retracted position in which it surrounds the shank to a projected position in which it surrounds the anchoring point in spaced relation thereto, and means carried by the guide shank and operatively engaging the cutting blade for driving the cutting blade toward and through a sheet pierced by the anchoring point to punch out a portion thereof and said ribs effective to lift the punched out portion of the sheet upon removal of the implement.

2,713,906

# PREVENTING OF GAS CONING IN THE PRODUCTION OF OIL FROM COMBINATION RESERVOIRS

Joseph C. Allen, Bellaire, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware  
Application December 31, 1952, Serial No. 329,042  
8 Claims. (Cl. 166-32)



1. In the production of liquid petroleum by means of a production well extending into a subsurface producing formation comprising a combination reservoir in which a body of liquid hydrocarbons is overlaid by gas phase hydrocarbons said well communicating with the formation below the normal upper surface of the liquid oil and wherein a substantial amount of overlying gas is produced with the oil, the improvement which comprises forming a selective impermeable barrier of asphaltic material in the region of the normal interface between the gas and the oil by injecting into the formation from said well bore a liquid solvent which is compatible with the reservoir oil and which contains a substantial quantity of asphaltic material dissolved therein, forcing said injected solution from the well bore into the formation so that the formation oil is displaced outwardly from the well bore thereby creating a substantial interfacial area of contact between the injected solution and the overlying gas phase effective to precipitate asphalt from said treating solution and plug the interstices of the formation at approximately the normal interface between the gas and oil, and thereafter flushing the formation of injected solution and producing liquid oil from the treated formation with a substantially decreased production of gas.

2,713,907

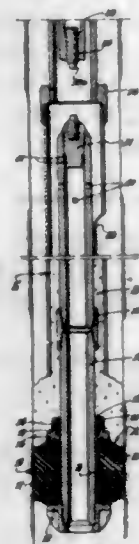
# WIRE LINE PACKER AND TUBING STRING COMBINATION

Albert K. Kline, Tulsa, Okla., and Martin B. Conrad, Downey, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California  
Application August 8, 1950, Serial No. 178,212  
9 Claims. (Cl. 166-63)

1. In apparatus of the character described: a well packer having a normally retracted packing structure thereon and a body projecting upwardly from said structure, said body having a passage therethrough extending from a point below said structure to a point above said structure; a setting tool releasably connected to said packer for expanding said structure laterally outward, said tool comprising a container encompassing said upwardly pro-



jecting portion of said body for holding a charge of cementitious material and for depositing said cementitious material around the upwardly projecting portion of said body, said container having an upper opening disposed

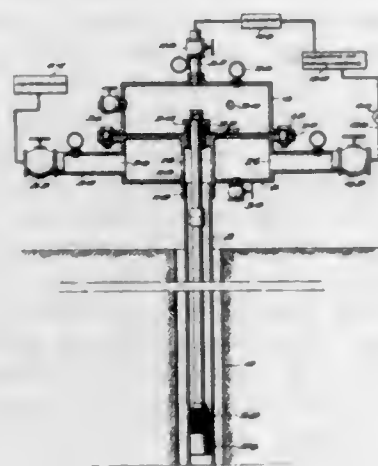


initially below the upper end of said passage to prevent the cementitious material from being disposed in the container to a level enabling the cementitious material to drop into said passage.

2,713,908

#### APPARATUS FOR COATING THE INTERIOR OF WELL PIPES

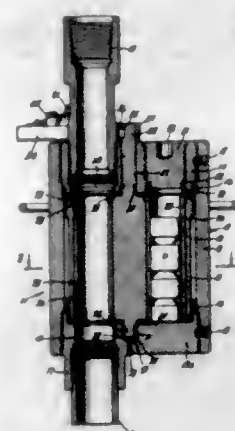
Arvel C. Curtis, Odessa, Tex., assignor to Pipelife, Inc., a corporation of Texas  
Application February 9, 1953, Serial No. 335,858  
6 Claims. (Cl. 166-67)



1. Apparatus for painting the interior of well pipes or the like comprising, in combination, means forming an expansion chamber having an opening in its bottom for receiving the upper end of a well pipe, the horizontal cross-section of said chamber being substantially larger than such opening, said chamber having at least one opening into the side thereof, means forming a second expansion chamber above the first chamber and separated therefrom, a second opening between said chambers aligned with and of smaller size than the first opening to receive a second pipe within the well pipe, said second chamber having at least one opening therefrom, and means to close the well pipe below the lower end of the second pipe, whereby paint can be forced down from said first chamber through the space between the well pipe and the second pipe and upwardly through said second pipe so as to coat the interior of the well pipe and the second pipe.

#### 2,713,909 MULTIPLE PLUG FEEDING AND EJECTING CONDUIT HEAD

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California  
Application December 13, 1952, Serial No. 325,868  
15 Claims. (Cl. 166-70)

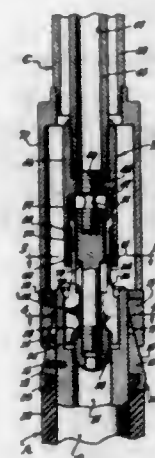


1. In apparatus of the character described: a housing structure having a fluid inlet and a fluid outlet spaced from each other; a holder movable in said housing structure and having a chamber adapted to receive a plug; and means for shifting said holder in said housing structure to place said chamber in one position into alignment with said inlet and outlet and in another position out of alignment with said inlet and outlet.

2,713,910

#### RELEASEABLE OPERATING DEVICES FOR SUBSURFACE WELL TOOLS

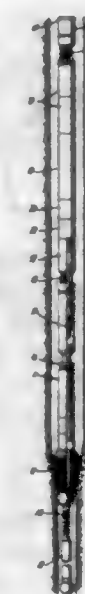
Reuben C. Baker, Coalinga, and Martin B. Conrad, Huntington Park, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California  
Application June 19, 1950, Serial No. 168,966  
22 Claims. (Cl. 166-123)



1. In apparatus of the character described: a first member having a thread; a second member; an inherently contractible latch member carried by said second member and having a thread companion to said first member thread and meshable therewith; said latch member being inherently contractible inwardly to an extent sufficient to bring its thread out of threaded engagement with said first member thread to enable said latch member and first member to be moved longitudinally and without rotation with respect to each other; means for holding said latch member in threaded engagement with the thread of said first member; and means enabling said holding means to be shifted longitudinally out of holding relation to said latch member to allow said latch member to contract inherently out of threaded engagement with said first member thread.

#### 2,713,911 FORMATION TESTING APPARATUS FOR DEEP WELLS

Edgar W. Bagnell, Glendale, Calif., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware  
Application September 1, 1950, Serial No. 182,801  
5 Claims. (Cl. 166-152)



1. A valve structure adapted to be interposed between an oil well formation tester and a tester string whereby fluid from the tester may flow through the valve structure to the tester string of pipe, said valve structure comprising a barrel fixedly connected to the upper end of the formation tester and suspended from the lower end of the tester string, a tubular operating mandrel fixedly connected to the tester string of pipe and extending downwardly into said barrel, a tubular valve mandrel mounted for axial and rotative movement within said barrel and reciprocally but non-rotatably connected at its upper end to the lower end of the operating mandrel, an intermediate threaded section on said valve mandrel being formed with two threads disposed in opposite pitch to each other, said valve mandrel having valve ports adjacent its lower end, a complementary valve mechanism associated with the valve mandrel and the barrel to be opened for fluid flow from the barrel into the mandrel and closed against such flow by reciprocation of the valve mandrel in the barrel, feed nut segments collared within the barrel, at least one segment having right-hand threads formed thereon and at least one other segment having left-hand threads formed thereon, means for causing the feed nut segments having threads of one hand to engage the threads on the valve mandrel at one end its reciprocable stroke and to release said segments and engage the segments of opposite hand at the other end of its reciprocable stroke whereby continuous rotation of the valve mandrel relative to the barrel in one direction will cause the valve mandrel to reciprocate and alternately open and close the valve mechanism.

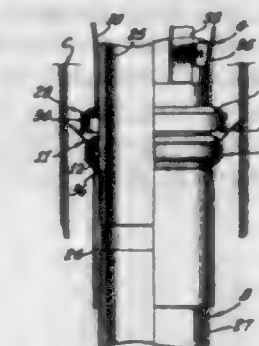
2,713,912

#### WALL SCRATCHER APPARATUS

Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California  
Application May 15, 1948, Serial No. 27,299  
17 Claims. (Cl. 166-173)

8. In a wall scratcher: a circumferentially continuous rubber annular body member; and a plurality of individual wire elements embedded and molded directly in said body member in circumferential spaced adjacent relation to each other and free from connection to each other

both axially and circumferentially and extending outwardly from said body member a substantial distance in

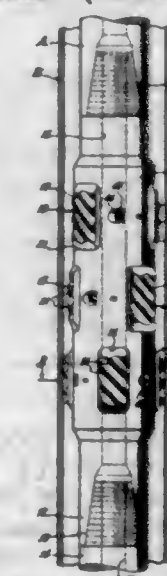


a direction inclined to the axis of said member, said elements lying in planes radial of the member axis.

2,713,913

#### CASING SCRAPERS AND FEELERS

Thomas M. Ragan, Downey, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California  
Original application January 11, 1949, Serial No. 70,323, Divided and this application March 16, 1953, Serial No. 342,446  
7 Claims. (Cl. 166-173)



7. In a casing scraper: a main body adapted for attachment to a drill string, said body having circumferentially spaced grooves therein, each groove being defined by top, bottom and side body walls; a cutter slidable laterally in each groove engaging all of said walls to prevent longitudinal and transverse movement of said cutter with respect to said body, said cutter being guided in such movement by all of said walls, said cutter having longitudinally spaced helical teeth; means normally urging each of said cutters laterally outwardly; and stop means carried by said body for limiting the extent of outward expansion of each cutter, comprising a rod extending across each groove between the side walls of said groove, said cutter having a hole extending therethrough between its sides substantially larger in cross-section than said rod and through which said rod projects, said hole being sufficiently large to prevent engagement of said cutter with said rod in a direction longitudinally of said body, said rods and holes lying in substantially the same central cross-sectional plane.

2,713,914

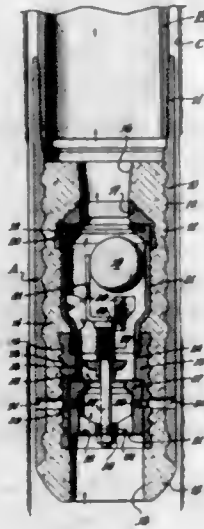
#### SUBSURFACE APPARATUS FOR CONTROLLABLY FILLING WELL CASING

Bernard Kriegel, Los Angeles, Calif., assignor to Baker Oil Tools, Inc., Los Angeles, Calif., a corporation of California  
Application January 5, 1953, Serial No. 329,502  
10 Claims. (Cl. 166-225)

1. In well apparatus: a tubular member having means thereon for securing said member in a casing string, said



member having a fluid passage; back pressure valve means in said tubular member adapted to close said passage against upward flow of fluid through said passage; a valve device in said tubular member below said back pressure valve means movable downwardly in said tubular member and including a valve element movable upwardly to open position to allow upward flow of fluid in said passage, said valve element being movable downwardly



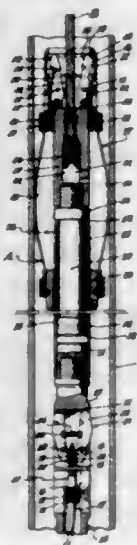
to closed position to prevent upward flow of fluid in said passage, spring means engaging said valve element to urge said valve element downwardly to closed position; and releasable retaining means engaging said back pressure valve means and valve device to prevent said back pressure valve means from closing said passage, release of said retaining means allowing said valve device to move downwardly in said tubular member.

2,713,915

#### APPARATUS FOR PREVENTING OPERATION OF SUBSURFACE WELL TOOLS

Martin B. Conrad, Downey, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California  
Original application January 12, 1948, Serial No. 1,845.  
Divided and this application April 12, 1951, Serial No. 220,646

12 Claims. (Cl. 166—239)

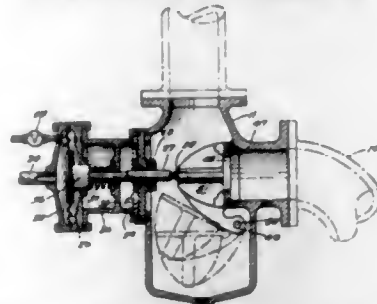


1. In well apparatus: a member adapted to be lowered in a well bore; a device movable relatively along said member; lock means for coupling said device to said member; and means movable downwardly along said member from a position removed from said lock means into engagement with said lock means to positively hold said lock means in a position coupling said device and member together to prevent their relative movement in at least one longitudinal direction.

2,713,916

#### AUTOMATIC SPRINKLER SYSTEM

Charles Muckenfuss, Lakewood, Ohio, assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio, a corporation of Delaware  
Application November 25, 1952, Serial No. 322,399  
2 Claims. (Cl. 169—19)

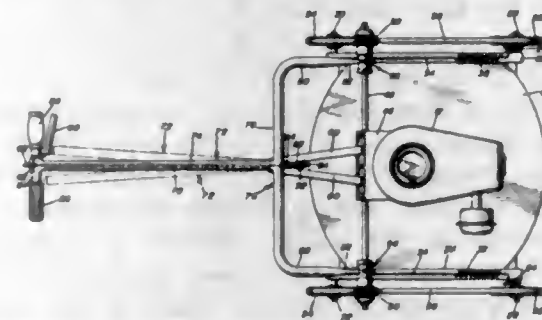


1. A main control valve comprising a housing having a horizontal side inlet and an outlet at its top, a valve seat about the inner end of the inlet, a horizontal sleeve removably mounted in alignment with an opening at the opposite side of the housing from the inlet and aligned with the inlet, a barrier mounted between said opening and the inner end of said sleeve and provided with a gland at its center, a clapper in said housing movable into and out of seated engagement with said valve seat and having an extension extending towards the opening when the clapper is in its closed position, a casing carried by the outer end of said sleeve, a diaphragm in said casing carrying a plunger at its center slidably passing through said sleeve and said barrier and terminating in position for abutting contact with the extension of said clapper, said casing having an outer wall portion formed with an opening into which a pressure line is adapted to be mounted for delivering fluid under pressure into the casing to act upon the diaphragm and maintain the plunger in securing contact with the clapper and hold the clapper closed, and a spring urging the plunger and the diaphragm outwardly towards a clapper-releasing position.

2,713,917

#### DRIVE-STEERING CONTROL HANDLE FOR POWER MOWERS

Edwin J. Soenksen, De Witt, Iowa  
Application December 24, 1953, Serial No. 400,300  
6 Claims. (Cl. 180—6.2)

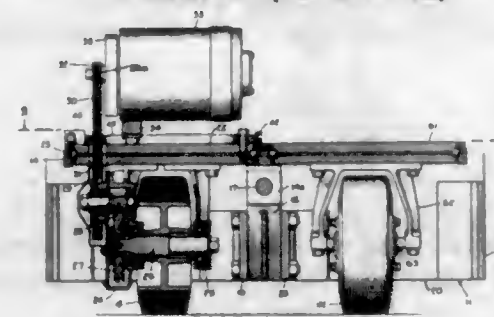


1. In a lawn mower, a wheeled platform, drive means for said wheeled platform, said drive means including a pair of drive shaft portions, a clutch assembly on each drive shaft portion, a handle carried by said wheeled platform for pivoting about a generally vertical axis and for shifting longitudinally of said platform, said handle including a bifurcated lower part having spaced legs, said legs terminating in wedge-shaped free ends forming actuators for said clutch assemblies, means carried by said handle for shifting said handle relative to said wheeled platform to selectively engage and disengage said clutch assemblies, said means including a control shaft extending through said handle, one end of said control shaft being retained relative to said wheeled platform, a lever actuated cam member carried by the other end of said control shaft for urging said handle towards said clutch assemblies.

2,713,918

#### WHEEL MOUNTING FOR INDUSTRIAL TRUCK

Herbert J. Framhein, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut  
Application May 16, 1952, Serial No. 288,243  
3 Claims. (Cl. 180—52)

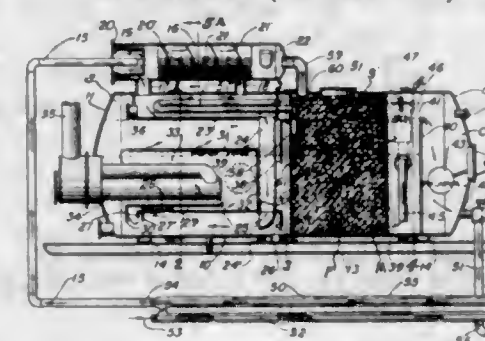


1. In a truck of the class described, a truck frame, a pair of wheels for supporting one end of said truck frame, a beam, means pivoting said beam to the other end of said truck frame centrally of said beam and in the longitudinal axis of the truck to support the other end of said truck frame, a steering and traction unit comprising a traction wheel together with a motor and means extending between said motor and traction wheel whereby said motor rotates said traction wheel, means mounting said steering and traction unit as a unit on one end of said beam adjacent one side of the truck frame for rotation bodily relatively to said beam, said steering and traction unit moving bodily as a unit with said beam as said beam pivots relatively to said truck frame, steering means for rotating said steering and traction unit bodily relatively to said beam, an idler wheel, means mounting said idler wheel on the other end of said beam adjacent to the other side of said truck frame for pivotal movement in an axis parallel to the axis of rotation of said traction unit relatively to said beam in response to steering movement of said steering and traction unit, and said beam moving relatively to said truck frame on its pivot to maintain the tractive effect of said traction wheel when passing over irregular ground.

2,713,919

#### OIL WELL EMULSION-TREATING APPARATUS AND METHOD

Jay P. Walker, Clarence O. Glasgow, and Alex W. Francis, Jr., Tulsa, Okla., assignors to National Tank Company, Tulsa, Okla., a corporation of Nevada  
Application March 23, 1949, Serial No. 83,054  
21 Claims. (Cl. 183—2.7)

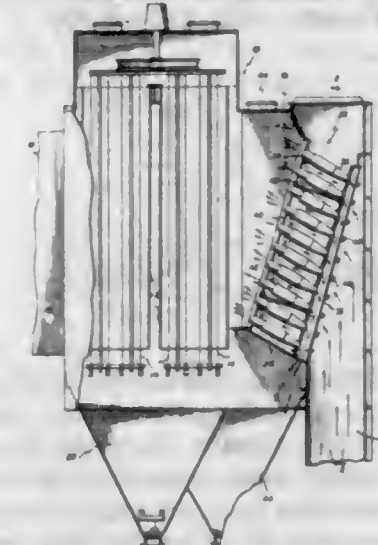


5. The method of treating oil well emulsion streams which includes, introducing the emulsion stream into a heating zone and therein heating the emulsion stream to a temperature sufficient to break down the emulsion into its water and oil components, flowing the stream directly and immediately from the heating step in an elongate horizontal continuously unidirectional path to a point of clean oil withdrawal, prior to withdrawal and subsequent to heating passing the stream horizontally through a filter to coalesce water and oil in concurrent flow paths and prevent the countercurrent flow of water and oil, withdrawing clean oil, and withdrawing separated water and gas.

2,713,920

#### MECHANICAL DUST COLLECTOR

Joseph Phyl, Fanwood, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York  
Application July 1, 1953, Serial No. 365,329  
2 Claims. (Cl. 183—7)

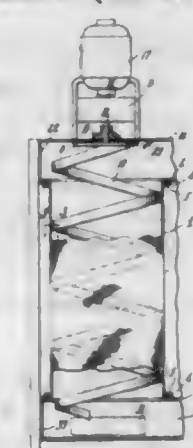


1. A centrifugal dust collector comprising a plurality of vertical rows of centrifugal separator units, each row comprising a plurality of superimposed parallel separator tubes disposed at an acute angle to the horizontal, corresponding outlet tubes concentrically positioned in the higher end of each of the separator tubes, and means adjacent the said ends of said separator tubes for imparting a vortical motion to gas entering said ends of said separator tubes, a dust chute adjacent to and communicating with the lower ends of the separator tubes of each of the said vertical rows, adjacent dust chutes being spaced apart to provide for the flow of gas therebetween into the space between the separator tubes, a sheet member supporting the outlet tubes of each vertical row of separator units and preventing the flow of gas therebetween, said dust chutes having an opening opposite the lower end of each of the separator tubes, and removable caps provided for each of said openings whereby the flow of gas may be directed through each of said separator tubes without passing through said means for imparting a vortical motion to the gas stream.

2,713,921

#### FILTER MEANS FOR COLLECTING AND RECOVERING AIR-BORNE FIBROUS AND OTHER MATERIAL

John Turner, Boston, Mass.  
Application August 27, 1952, Serial No. 306,658  
10 Claims. (Cl. 183—60)

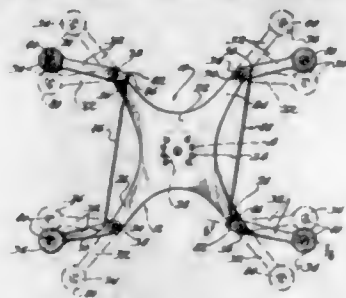


1. A filter comprising a tube of flexible fabric material, means introducing air laden with solid material into one end of said tube, a flexible spiral bar of slightly less external diameter than the internal diameter of said tube arranged within said tube, and means connected to said bar for rotating said bar, the interior of said spiral bar being open and unobstructed and the lower end of said bar being free whereby solid materials carried thereby may readily pass off therefrom.



### 2,713,922 VEHICLE LIFT

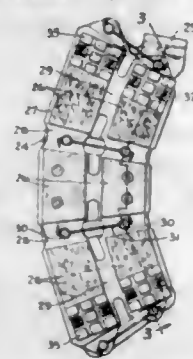
John Bertram Harrison, Memphis, Tenn., assignor to Rotary Lift Company, Memphis, Tenn., a corporation of Delaware  
Application September 6, 1952, Serial No. 308,277  
5 Claims. (Cl. 187—8.75)



1. In a vehicle lift of the type having a cylinder and a reciprocable plunger projecting therefrom, the combination of a central spider rigidly affixed to the projecting end of the lift plunger, said spider having four radially and outwardly extending legs arranged transversely of the lift plunger, two pairs of adjustable pick-up members, one pick-up member being pivotally mounted on the outer end of each leg to extend outwardly therefrom, linking rods interconnecting the pick-up members of each pair for simultaneous inward and outward adjusting movement, each pick-up member having a surface adapted to engage the underside of the chassis frame or body frame of a vehicle as the plunger is raised in the cylinder thereby to lift the vehicle in such manner as to provide free access to the underside of the vehicle.

### 2,713,923 BRAKE SHOE LINING FOR DE-ICING BRAKE SURFACES

Carolus L. Eksergian, Media, Pa., and William Mann, Grosse Pointe, Mich., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application December 8, 1952, Serial No. 324,716  
7 Claims. (Cl. 188—251)



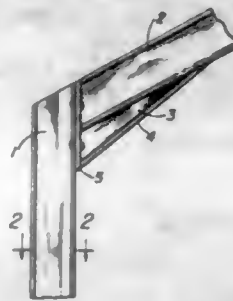
1. A brake shoe assembly comprising a backing member and a plurality of spaced-apart brake lining segments secured in circumferential alignment to said backing member, intermediate segments being formed of composition material, and terminal elements being formed of a metal softer than iron, such for example as bronze, having a grid wearing surface formed by intersecting grooves.

### 2,713,924 BUILDING JOINTS

Burrell H. Tripp, Scarsdale, N. Y., assignor to Luria Steel & Trading Corp., New York, N. Y., a corporation of New York  
Application May 4, 1950, Serial No. 160,006  
4 Claims. (Cl. 189—36)

1. A building having a supported longitudinal structural member and a supporting longitudinal structural member angularly connected therewith, in combination with a triangular reinforcing member having a flanged side, one unflanged side of said reinforcing member being connected to said supported member, and the other unflanged side being coplanar with the end of said sup-

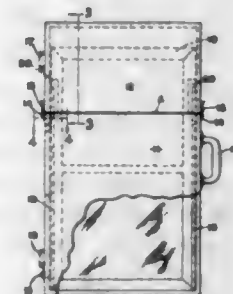
ported member, a plate connected to the end of said supported member, and the coplanar side of said rein-



forcing member, and securing elements fastening said plate to said supporting longitudinal structural member.

### 2,713,925 CONVERTIBLE SAMPLE-CARRYING CASE AND DISPLAY-STAND

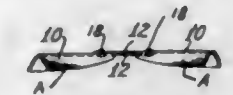
Nolan Y. Alexander, Akron, Ohio  
Application October 5, 1953, Serial No. 383,969  
3 Claims. (Cl. 190—16)



1. A convertible sample-carrying case and display-stand comprising two completely separable, open-end box elements each of substantial depth from its open end, adapted to be associated with their open ends together to provide a unitary container, means for releasably holding them in that relationship, one of the said box elements being adapted to stand, with stability, upon its end opposite its open end, means mounted in that box element for vertically guiding, in sliding relative movement, an article to be displayed when the latter, within said box element, is bodily lifted in simple movement of translation, and latching means for holding the said article in the position to which it is thus lifted, the said guiding means projecting from the open end of the box element in which it is mounted, for extensive guiding and lateral support of the said article, and means on the other of the said box elements slidably fitting the projecting portion of the said guiding means in telescoped relation thereto, for strengthening the assembly, when the said box elements are associated with their open ends together to provide a unitary container.

### 2,713,926 HANDLE

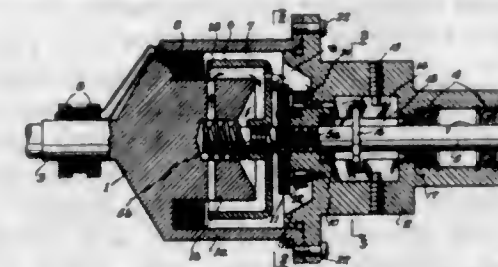
William Finkelstein, Philadelphia, Pa.  
Application June 15, 1953, Serial No. 361,452  
1 Claim. (Cl. 190—57)



A luggage handle comprising a pair of semicircular metallic blanks, each blank being curved transversely on its outside surface to form a channel portion, an extension at each end of each blank and integrally formed with said blank, and rivets securely holding said extensions together in overlapped relation, whereby when said channel portions are secured together to abut one another the blanks will appear in circular formation with the said overlapped extensions bent to form attachment loops.

### 2,713,927 MAGNETIC FLUID CLUTCH SHAFT SEAL

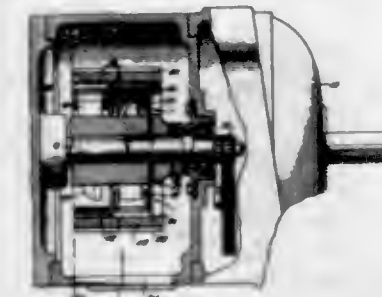
Jacob Rabinow, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Navy  
Application November 27, 1950, Serial No. 197,817  
21 Claims. (Cl. 192—21.5)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A magnetic fluid device comprising relatively movable ferromagnetic parts with a magnetic fluid therebetween, said magnetic fluid containing magnetic particles and a carrier liquid, externally controllable means for magnetizing the magnetic fluid, axially spaced outer and inner seals between said relatively movable ferromagnetic parts, an auxiliary chamber between the seals, a passage between the relatively movable ferromagnetic parts and the auxiliary chamber for permitting flow of magnetic fluid toward the chamber, a filter in said passage for holding back the magnetic particles from fluid tending to flow to the chamber, whereby the chamber receives substantially clear carrier liquid, and pump means to urge clear carrier liquid from the chamber through the inner seal toward the relatively movable ferromagnetic parts in opposition to leakage of magnetic fluid which might otherwise occur from the relatively movable ferromagnetic parts through the inner seal toward the outer seal.

### 2,713,928 AIR COOLED CENTRIFUGAL CLUTCH

Walter M. Pohl, Chicago, Ill., assignor to Foote Bros. Gear & Machine Corp., Chicago, Ill., a corporation of Delaware  
Application October 10, 1952, Serial No. 314,031  
7 Claims. (Cl. 192—113)



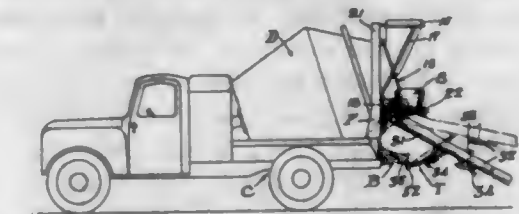
1. A torque transmitting coupling comprising a cylindrical drum open at its ends for flow of air therethrough, a hub in the drum, a friction band in the drum around the hub adapted to engage the drum in response to centrifugal force, a radially extending projection on the hub, means connecting the projection to one end of the band to turn the band with the hub as the hub turns, and a blade on the hub diametrically opposite to the projection and lying in a plane at an acute angle to the hub axis to counter-balance the projection and to force air through the drum as the hub turns.

### 2,713,929 DISTRIBUTING CHUTE FOR CONCRETE MIXERS

Jesse R. Castendyck, Downey, Calif.  
Application March 12, 1951, Serial No. 215,100  
1 Claim. (Cl. 193—10)

In a transit concrete mixer: a vertically disposed discharge spout; an annular channel member fixed horizontally to the lower end of said spout; an annular band having a rotatable fit on said member, said band of semi-

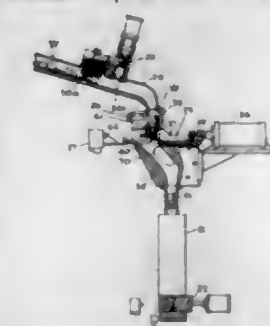
circular sections; a hinge so connecting one end of said sections as to allow the sections to be opened for detachment thereof from said member; fastening means detachably connecting the other ends of said sections to maintain said sections in band-formation; a pair of arms fixed at one end to and projecting in spaced parallelism from said sections at opposite sides of said fastening means and substantially tangent to said band; a chute of U-form in



cross section; a pair of ears fixed to the upper end of the chute at opposite sides thereof; means extending through said ears and said arms for pivotally connecting the two to suspend the upper end of the chute for swinging movement in a vertical plane intersecting the vertical axis of the spout; and means coacting with the first mentioned means for supporting said chute in various inclined positions in all of which its upper end will be so disposed as to receive material discharged from said spout.

### 2,713,930 APPARATUS FOR ORIENTING HEADED ARTICLES

Hermann H. Koch, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application December 1, 1953, Serial No. 395,352  
7 Claims. (Cl. 193—43)



1. Apparatus for orienting headed articles which are fed thereto in random endwise orientation one at a time, comprising in combination, a pair of side escapement devices having relative lateral movement with respect to each other, one of said escapement devices being of a size and shape to pass a headed article when it is oriented in one direction and the other of said escapement devices being of a size and shape to pass the headed article when it is oriented in the reverse direction, means for positioning a headed article between said escapement devices, means for moving said escapement devices relatively past each other, means for discharging the article directly along the axis of its initial position when it passes one of said escapement devices, and means at a distance to one side of the initial position and the other escapement device for reversing the direction of the article when it passes the other of said escapement devices.

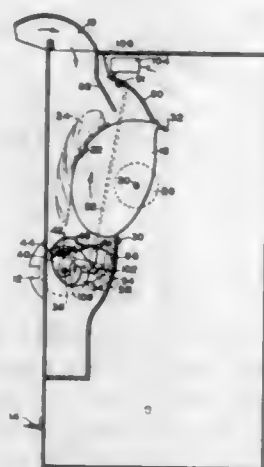
### 2,713,931 DISPENSING MEANS FOR FABRIC ARTICLES

Walter Leo Russell, Wichita, Kans.  
Application June 1, 1954, Serial No. 433,339  
7 Claims. (Cl. 194—4)

1. Apparatus for dispensing clean fabric towels therefrom one at a time upon inserting a soiled fabric towel into said apparatus, which comprises, in combination: cabinet means; a chute within said cabinet means, said cabinet having an opening into an upper end portion of said chute to receive an inserted soiled towel and an opening into a lower end portion of said chute to receive a returned soiled towel; an oscillatable member rotatably mounted



and a fixed stop therefor mounted in said cabinet, said oscillatable member having a curved face portion with a curved track portion on the periphery thereof and teeth adapted to catch a soiled towel inserted into said chute when said member is in normal at-rest position, a portion adapted to contact said stop to prevent rotation of said member in one direction and position said teeth to receive said towel, and a portion opposite said last-named portion adapted to contact said stop to prevent rotation of said member past a desired point in the other direction; an inclined chute within said cabinet means adapted to hold a stack of clean towels; track supported supporting and weighting means adapted to, along with the force of gravity, move said towels down said inclined chute as towels are removed from said stack at the lower end portion thereof; an elongated cylindrical member rotatably mounted in said cabinet means at the lower end of said inclined chute with its longitudinal axis transverse the longitudinal axis of said inclined chute, said member having teeth and a stop on the outside thereof and being adapted to support and retain said towels in said inclined chute and upon rotation to pick up a towel from the lower end of said stack on said teeth and deliver same to an opening in said cabinet means; a first pulley mounted and disposed to turn with and rotate said oscillatable member; a second pulley freely mounted on the shaft of said cylindrical member at one end portion adapted to turn with and rotate said member to a cocked position and to rotate free of said member; ratchet means mounted on said cylindrical member and second pulley adapted to engage to turn said member to said cocked position with said pulley when it is turned in one direction, to release

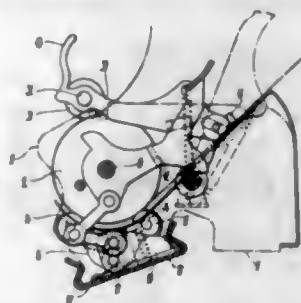


said member from turning with said pulley when it is turned in the other direction and to reengage in cylindrical member turning position upon turning said pulley in its last-named direction of turning; an operating member projecting from said cabinet means; a pulley line connected in one end portion to said operating member, passing first over said first pulley, second over said second pulley and being a spiral spring in its other end portion, the outer end portion of said spring being fixed, said operating member being adapted to extend said pulley line upon operation to rotate said oscillatable member and to turn said cylindrical member to said cocked position, and said spring portion of said pulley line being adapted to retract said pulley line and rotate said oscillatable member back to said normal position; a fixed spiral spring swivelly attached to said cylindrical member at the other end portion on the outer edge thereof, said spring adapted to be extended upon rotation of said member to said cocked position and to continue to rotate said member to pick up and deliver a clean towel from said stack upon retraction of said spring when said member is released from said cocked position; a normally open first switch; an arm member pivotally mounted between its ends in said cabinet means, one end portion of said arm member contacting and riding on said track on said oscillatable member and the other end por-

tion being adapted to open and close said first switch upon pivot of said arm member and having spiral spring means attached thereto adapted to urge said arm member into contact with the operating means of said first switch, said arm member and track being positioned and adapted so that said first-named portion of said arm member is raised by the passage of a soiled towel thereunder upon rotation of said oscillatable member having same and to allow said first switch to be closed after such passage; a normally open second switch; lever means pivotally connected to said arm member in said first-named portion thereof adapted to close said second switch upon said raising of said arm member portion and to keep said second switch closed upon lowering of said first-named arm member portion after said passage of said soiled towel thereunder; a solenoid operated stop wired in series circuit with said first and second switches and a source of electric power for operating same, said stop positioned and adapted to catch said cylindrical member stop when said switches are open and to release said stop when said circuit is closed by said two switches so that said spring attached to said cylindrical member can act to rotate said member; a cam mounted to turn with said cylindrical member adapted to contact said lever means after rotation of said member from said cocked position to reopen said second switch; means actuatable by said track supported weighting means adapted to lock said oscillatable member against rotation when said clean towels are exhausted; said apparatus adapted to position for hand withdrawal from said cabinet means a clean towel upon inserting a soiled towel into the upper end portion of said first-named chute and operating said operating member; and said cabinet means having a compartment for receiving and storing inserted soiled towels.

2,713,932

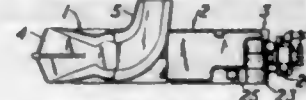
**FEED-ROLL MECHANISM FOR TYPEWRITERS**  
Charles B. Letterman, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware  
Application December 29, 1953, Serial No. 400,870  
3 Claims. (Cl. 197-138)



1. In a typewriting machine, a carriage frame and a cylindrical platen rotatably mounted thereon, a rockable structure pivotally mounted on said carriage frame rearwardly of said platen, a bail comprising side arms pivoted on said rockable structure and a connecting rod securing said arms together, an auxiliary feed-roll carried by said connecting rod and adapted to press against the upper portion of said platen, said rockable structure being movable from a rearwardly inclined position wherein said feed-roll is above said platen to a forwardly inclined position wherein said feed-roll is forward of said platen, resilient means holding said rockable structure in either of its inclined positions, main feed-rolls spring urged into engagement with the lower portion of said platen, a feed-roll release lever operatively connected to said main feed-rolls and movable from a feed-roll engaging position to a feed-roll release position, and means on said release lever engaging said bail when said release lever is moved to feed-roll release position to cause said resilient means to move said rockable structure to its rearwardly inclined position if at that time said structure is in its forwardly inclined position.

2,713,933

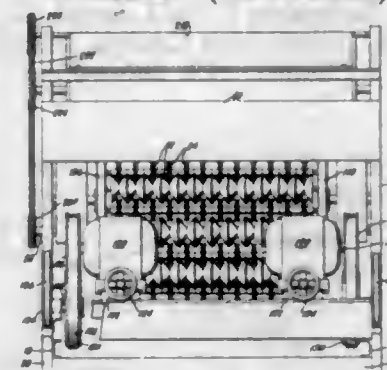
**LOADING MACHINES**  
John Berry, Morpeth, England  
Application September 9, 1953, Serial No. 379,141  
Claims priority, application Great Britain  
September 11, 1952  
4 Claims. (Cl. 198-14)



1. In a loading machine particularly for use in mines, a self propelled steerable vehicle, a ground supported skid plate disposed in front of said vehicle and coupled thereto, a saddle supported on said skid plate and guided for longitudinal sliding movement thereon, a duckbill shovel supported on said saddle for swivelling movement about a vertical pivot, said shovel extending downwardly and forwardly from said pivot to beyond the forward end of said skid plate, laterally extending guides secured to said skid plate at a position forward of said saddle, a shoe slidable in said guides and carrying longitudinally extending guide rails, a carriage slidable in said guide rails and pivotally connected to said shovel, a hydraulic jack mounted on said skid plate and coupled to said shoe for displacing it along said laterally extending guides, an angle trough supported on said saddle and adapted to receive material from said shovel and to discharge it laterally at a position in front of said vehicle and below the level of the top of the vehicle, a shaker drive mechanism mounted on said vehicle for imparting fore and aft movement to said saddle, shovel and angle trough, and balance means associated with said shaker drive mechanism for neutralising the out of balance reciprocating load on the machine.

2,713,934

**FRUIT PITTING MACHINE**  
Joseph A. Amoré, San Jose, Calif.  
Application February 12, 1952, Serial No. 271,134  
4 Claims. (Cl. 198-33)

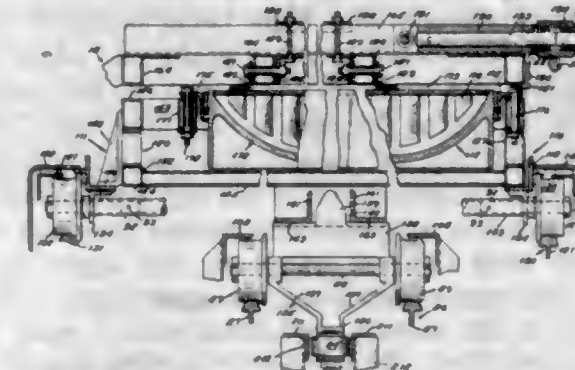


1. An orienting device for tri-diametral ovaloid fruit comprising a pair of parallel rotatable shafts, a cylindrical element concentrically mounted on one shaft for rotation therewith, an oppositely disposed annular member mounted on the other shaft for rotation therewith, said annular member having an annular wedge-shaped channel which in conjunction with the surface of said element opposed thereto defines a cradle type pocket located between said element and member, the walls of said channel being outwardly and linearly divergent at a constant angle of taper, with the included angle between said walls being sufficiently small to preclude the blossom and stem ends of the tri-diametral ovaloid fruit from contacting the inner end of the channel, and with said cradle type pocket, defined between mutually opposed portions of said channel and cylindrical element, having a maximum width dimension, measured in a direction parallel to said rotatable shafts, substantially less than the longest diameter of the tri-diametral ovaloid fruit, said cylindrical element having a width dimension, measured in a direction parallel to the axis of rotation of the shaft on which it is mounted, which is less than said maximum width dimension of said cradle type pocket.

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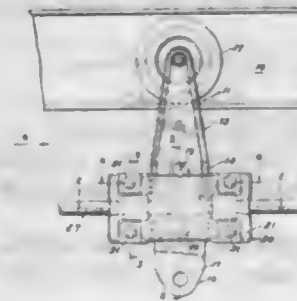
**ENDLESS CARRIAGE TYPE CONVEYOR**  
Leonard J. Bishop, Birmingham, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan  
Application August 6, 1951, Serial No. 240,567  
10 Claims. (Cl. 198-158)



4. In apparatus of the class described, a conveyor comprising a flexible linear member movable along a predetermined path of travel having a portion curved upwardly from one elevation to another elevation, means for guiding the linear member along the curved portion of said path of travel, a carriage propelled along said path of travel by the linear member and having a part adjacent one end pivotally supported on the member for swinging movement about an axis extending transversely of the member, means for raising the other end of the carriage about said axis at a rate depending upon the degree of curvature of the curved portion to maintain the carriage level while being propelled by the member along the curved portion of said path of travel, laterally spaced guiding surfaces carried by the carriage adjacent the swinging end thereof, and means extending upwardly from the linear member between the guiding surfaces and removable from the space between said surfaces upon upward movement of the swinging end of the carriage relative to said linear member.

2,713,936

**TROLLEY STRUCTURE FOR CONVEYORS**  
Leonard J. Bishop, Birmingham, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan  
Application June 21, 1954, Serial No. 438,030  
4 Claims. (Cl. 198-177)



1. In combination with a conveyor trolley having a supporting part provided with laterally outwardly opening channels at opposite sides thereof for respectively receiving opposite bars of a conveyor chain, an adapter comprising separable sections respectively engageable with opposite sides of the supporting part and removably clamped to the supporting part, projections respectively extending laterally inwardly from the sections into the channels aforesaid of the supporting part, and means on the sections cooperating to clamp a cable thereto.

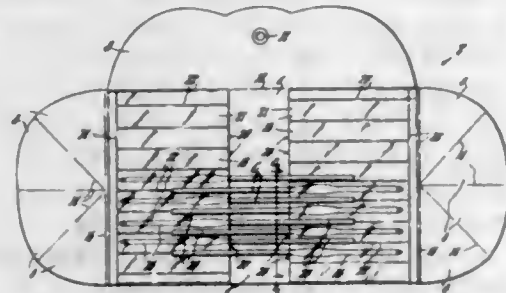
2,713,937

**CARRYING CASE**  
John N. Schneider, Chester, Conn., assignor to C. J. Bates & Son, Chester, Conn., a firm  
Application June 21, 1952, Serial No. 294,833  
1 Claim. (Cl. 206-16)

A combined enclosing and dispensing device for a plurality of crochet hooks of a certain length having hook



ends and outer ends comprising, an elongated rectangular body formed from bendable pliable material having opposite longitudinal side and opposite transverse end edges, said body being bendable longitudinal intermediate said side edges providing opposite side portions which may be brought into superposed relation to enclose crochet hooks on inner faces thereof, said body being bendable on a transverse line intermediate said opposite end edges providing opposite end portions which may be disposed in downwardly diverging dispensing relation with inner faces outermost, sets of transversely spaced elongated pockets secured to inner faces of the end portions of the body and extending longitudinally thereof provided with closed outer ends adjacent transverse end edges of the body and with open inner ends, the open inner ends of the pockets of the rows thereof being spaced apart and outwardly away from the transverse bending line of the

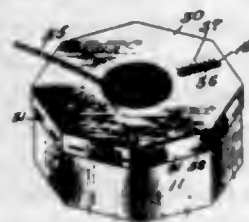


body, the open ends of the pockets of one row thereof being staggered relative to the open ends of the pockets of the other row, a plurality of crochet hooks having hook end portions in said pockets and outer free ends extending beyond the open ends of said pockets and the transverse bending line of the body and the free ends of hooks in one row of pockets being disposed for lying between the pockets of the other row in enclosing position of the side portions of the body and outwardly beyond the transverse bending line and body in diverging dispensing position of the end portion of said body, end flaps hinged to transverse end edges of said body for folding inwardly onto said pockets and the hook end of hooks in said pockets, a side flap hinged to an outer longitudinal side of one side portion of the body for overlying the outer side of the other side portion in enclosing position of said side portion, and engageable fastening means carried by said flap and outer side of said other side portion.

#### 2,713,938 ROPE PACKAGE

Robert A. Snyder, Marion, Mass., assignor to New Bedford Cordage Company, a corporation of Massachusetts

Application April 26, 1950, Serial No. 158,109  
6 Claims. (Cl. 206—52)



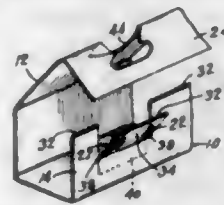
1. The method of forming a plurality of similar rope packages each of the same outer diameter and containing rope of the same length but of a different cross sectional size comprising supporting for rotation a plurality of different diameter mandrels each having spaced heads, winding each size rope in superimposed helical coils on different diameter mandrels wherein packs of rope having generally cylindrical outer surfaces are formed, varying the diameters of the mandrels employed inversely relative to the size of the rope and so chosen as to diameters that the said cylindrical surface of each pack is substantially the same diameter for all coils, re-

moving a head from one end of each of the mandrels, providing stiff tubular containers of uniform inner diameters to contact the outer surface of any rope pack sliding the containers over the ends of the mandrels from which the heads are removed, and then withdrawing from the mandrels each rope pack and container together so that a helically coiled pack of rope is in each container.

#### 2,713,939 CARTON FOR WAXED PAPER

Emory K. Lear, Tujunga, Calif., assignor of twenty-five per cent to Albert J. Fihe

Application January 11, 1954, Serial No. 403,115  
5 Claims. (Cl. 206—58)

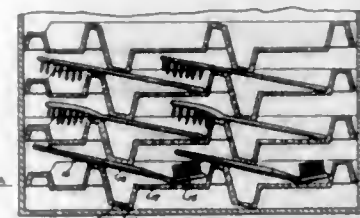


1. A container for dispensing roll paper comprising a rectangular parallelepipedon having a hinged cover, a flap on the cover adapted to be inserted behind the front panel, a removable locking tab forming part of the cover and flap, slots in the front panel for cooperation with the tab, a serrated cutting edge in the upper extremity of the front panel and a hinged partially cutaway portion of the front panel adjacent the removable tab, said hinged cutaway portion including a continuation of the serrated cutting edge.

#### 2,713,940 TOOTHBRUSH TRAY

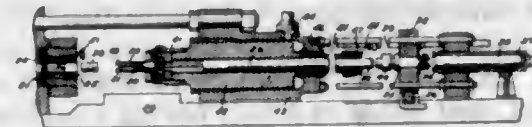
John T. Putnam, Brantford, Ontario, and Douglas B. Bruce, Paris, Ontario, Canada

Application December 2, 1952, Serial No. 323,536  
Claims priority, application Canada, March 21, 1952  
5 Claims. (Cl. 206—65)



2. A shipping package, comprising a shipping case; a plurality of elongated articles; and a stack of identical trays supporting said articles in side-by-side relationship in superposed layers within the case; each tray comprising a flat portion; a first upwardly projecting ridge extending across the tray and bordering on said flat portion; a second upwardly projecting ridge extending across the tray parallel to said first ridge and providing a support for parts of said articles adjacent ends thereof, said articles being disposed on said tray to extend generally transversely to the direction of extent of said ridges and with their other ends supported by said flat portion and in abutment with said first ridge; and a downwardly projecting ridge extending across the tray parallel to the upwardly projecting ridges and disposed between said second upwardly projecting ridge and the flat portion, said downwardly projecting ridge bearing on a lower layer of articles disposed in like fashion on the tray next beneath, said downwardly projecting ridge bearing on said lower layer of articles at points intermediate of the supports therefor provided by the second upwardly projecting ridge and the flat portion of the underlying tray.

2,713,941  
APPARATUS FOR EXTRUDING TUBING  
Otto R. Schuler, Detroit, Mich., assignor to Calumet & Hecla, Inc., a corporation of Michigan  
Application September 2, 1952, Serial No. 307,535  
5 Claims. (Cl. 207—3)

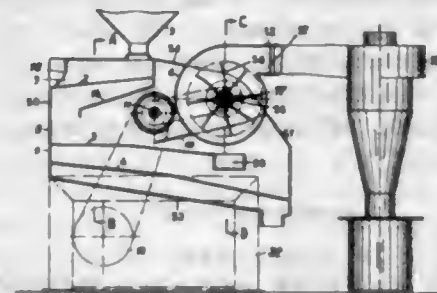


1. In an extrusion press, a frame structure, a container supported by the frame structure and having a passage extending axially therethrough for accommodating material to be extruded, a die supported by the frame structure at the front end of the container and having an opening therethrough in axial alignment with the passage, a mandrel assembly supported by the frame structure in axial alignment with the die opening and movable in directions toward and away from said die, said mandrel assembly having a part at the front and movable forwardly by said mandrel assembly through the passage in said container and into the die opening to a material extruding position forming with the walls of said die opening an annular opening through which material may be extruded, a cut-off ring carried by the mandrel assembly rearwardly of said part and also movable by said mandrel assembly into the die opening, a first abutment mounted on the mandrel assembly for movement as a unit with the latter, a second abutment spaced forwardly from the first abutment and supported in the path of travel of the first abutment for engagement by the latter to limit the extent of the forward stroke of the mandrel assembly so as to locate the cut-off ring within the die opening, a stop member supported to one side of the path of travel of the mandrel assembly for movement in a direction toward the mandrel assembly between said abutments to thereby shorten the forward stroke of the mandrel assembly and having a width predetermined to space the cut-off ring rearwardly of the die opening, operating means for moving the stop member outwardly from its operative position between the abutments in response to initial rearward movement of the mandrel to a position partly retracted from the material extruding position, and means for moving the mandrel assembly forwardly from the partially retracted position past the stop member to locate the cut-off ring within said die opening.

#### 2,713,942 APPARATUS FOR CLASSIFYING AND CLEANING A GRANULAR MATERIAL

Hans Albrecht Freiherr von Rechenberg, Köln-Marienburg, Germany, assignor to Kalker Trieurfabrik und Fabrik Gelochter Bleche Mayer & Cie., Heumar, Germany, a company

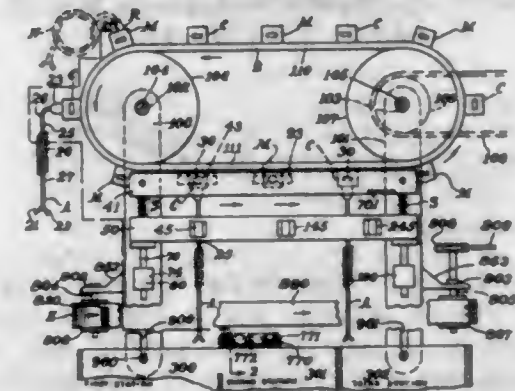
Application July 26, 1950, Serial No. 176,012  
10 Claims. (Cl. 209—22)



1. Apparatus for cleaning and classifying intermixed granular materials, comprising a frame, a generally box-shaped enclosure, means for resiliently supporting said enclosure on said frame, said enclosure being closed on its sides and having a front wall, a rear wall, and a bottom wall, a screen mounted in said enclosure and extending from one side thereof to the other, said screen being fixed

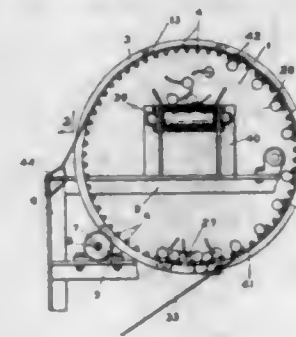
to said side walls and being downwardly inclined from the front wall of the enclosure toward the rear wall thereof, means for delivering granular material to a point above the front end of said screen whence said material falls by gravity toward said screen, the front wall of said enclosure having an opening therein above said screen and below said delivery point to admit air to the enclosure, a fan mounted in said enclosure above said screen at some distance rearwardly of the front wall of said enclosure and operative to suck air through said opening and through the falling material to carry away fines and light debris, and means for vibrating said enclosure.

2,713,943  
ELECTRIC CORD TESTING DEVICE  
Carl L. Tapper, Lowell, Mass.  
Application November 9, 1951, Serial No. 255,562  
13 Claims. (Cl. 209—81)



1. An apparatus for testing and assorting electric cords comprising an endless conveyor for continuously carrying cords individually and successively along a horizontal path, which path includes a first station, a second station and a third station, means spaced around said endless conveyor for slidably engaging one terminal end of a cord and electrically introducing the stranded conductors of the cord successively into first and second testing and assorting means; first testing and assorting means including card gripping and extracting jaws, at the first station, for electrically determining the existence of a short circuit in each cord and slidably disengaging short circuited cords from said conveyor means at said first station; second testing and assorting means including cord gripping and extracting jaws at the second station for electrically determining the existence of an open circuit in each cord and slidably disengaging cords, not having an open circuit, from said conveyor means at said second station and third assorting means including card gripping and extracting jaws at the third station for electrically responding to the arrival of a cord at said third station and slidably disengaging said cord from said conveyor means at said third station.

2,713,944  
COMBINATION CHERRY STEMMER AND SORTER  
Homer M. Schubert, Salem, Oreg.  
Application September 24, 1952, Serial No. 311,279  
2 Claims. (Cl. 209—108)



1. Cherry handling apparatus comprising a support, a squirrel-cage cylinder comprising axially extending rods

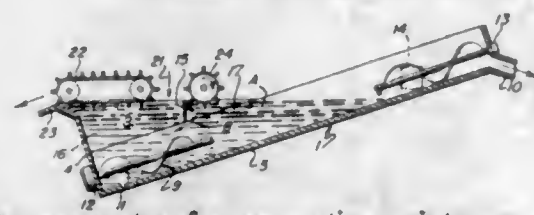


spaced less than the diameter of a cherry, means for rotating said cylinder, means at one end of said cylinder for feeding cherries into said cylinder, means at the other end of said cylinder for discharging cherries therefrom, an apron mounted on said support and trained partially around said cylinder to trap the stems of the cherries around the cylinder rods, one end of said apron being disposed adjacent the upper periphery of said cylinder, and a conveyor disposed longitudinally within said cylinder and beneath said apron end to receive the cherries as their stems are released by said apron.

2,713,945

# SEPARATION OF MIXTURES OF SOLID PARTICLES DIFFERING IN SPECIFIC GRAVITY

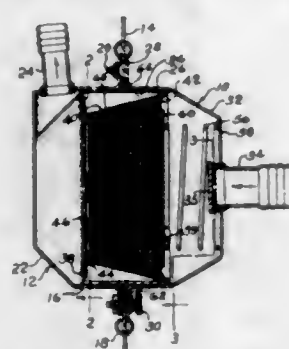
Freerk J. Fontein, Heerlen, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands  
Application May 12, 1952, Serial No. 287,376  
Claims priority, application Netherlands May 15, 1951  
4 Claims. (Cl. 209—172.5)



1. An apparatus for separating mixtures of particles differing in specific gravity into a fraction containing floating particles of low specific gravity and another fraction containing settled particles of high specific gravity comprising a tank for receiving a heavy separating medium, said tank having an inclined bottom, means for introducing the mixture to be separated into the tank, conveyor means for removing settled particles from the tank along the inclined bottom, a partition wall vertically positioned in said tank intermediate of and at a substantial midpoint between the ends of said tank for dividing the tank into a deep compartment and a shallow compartment, said partition wall having its lower edge spaced above said conveyor means, means in the shallow end of said tank for introducing the heavy separating medium for generating an intensified substantially horizontal current in the medium in the shallow part of said tank in a direction opposite to the direction of conveyance of the conveyor, means in the shallow compartment of said tank positioned adjacent the transverse partition wall for discharging floating particles from the surface of the shallow compartment over the transverse partition wall into the deep compartment, and means in the deep compartment of said tank for discharging floating particles in the deep compartment of said tank therefrom.

2,713,946  
FILTERS

Louis V. Abrams, Chittanooga, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware  
Application November 13, 1950, Serial No. 195,396  
5 Claims. (Cl. 210—164)



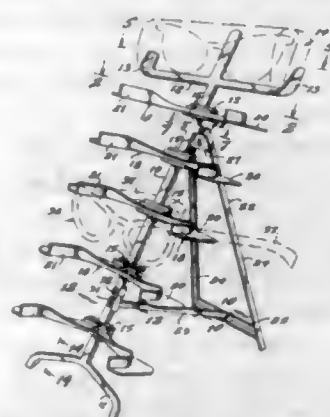
1. In a filter, a pair of substantially symmetrical shell members each having a marginal flange and constituting

inlet and outlet shell members, respectively, a compartment carried by the inlet shell member having a side wall integrally secured in sealed relation to the inlet shell member in leak-tight relationship, and a tapered wall secured to said side wall adjacent the inlet end thereof in leak-tight relationship, said tapered wall reducing in area in the direction of flow, said compartment having a perforate inside end wall within the inlet shell member of an area less than the maximum cross-section of said tapered wall, said inside end wall having a resilient support extending to said inlet shell member, and being adapted to be resiliently urged into the region defined by the tapered wall, and a removable outside perforate end wall detachably secured to said side wall by bayonet connecting means independent of said tapered wall and in close relation to the reduced area end thereof, said compartment projecting part way into the outlet shell member, a panel having an aperture to receive said compartment, having said outlet shell member secured thereto by its flange about said aperture, and detachable means for securing the inlet shell member upon said panel including a seal conjointly bearing against said flanges and compartment side wall.

2,713,947

# DISPLAY STAND FOR SUNGLASSES OR SPECTACLES

Joseph C. Foster, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts  
Application January 15, 1952, Serial No. 266,467  
1 Claim. (Cl. 211—13)



A display stand for sunglasses or spectacles, comprising a brace member, a prop member to support the brace member in rearward tilted position, said prop member being hinged to the upper portion of the brace member and being foldable upon the latter, a strut member detachably connecting the lower portions of the brace and prop members in erected position of the stand, and a plurality of shelves supported at intervals on the brace member, each shelf having a substantially concave front edge and widened end portions, said shelves tilting rearwardly and adapted to support a pair of spectacles removably thereon by its temples, with said temples resting loosely by gravity only on the widened end portions of the shelf and with the front of the spectacles overhanging the outer edge thereof, and a vertical wall extending around the forward edge of each shelf to guide the temples into their supporting positions on the shelf.

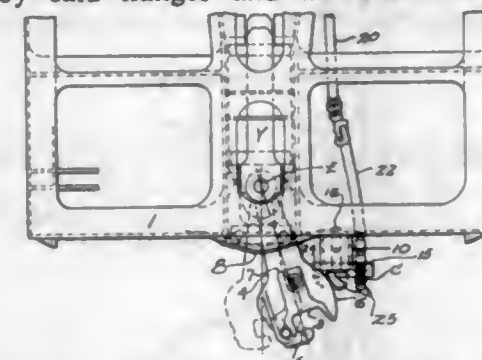
2,713,948

# RAILWAY VEHICLE AIR LINE MOUNTING

Clement W. Kell, Ridley Park, Pa., and Thaddeus W. Podgajny, Wilmington, Del., assignors to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware  
Application August 21, 1952, Serial No. 305,614  
8 Claims. (Cl. 213—1)

1. In combination with a railway vehicle end framing and a coupler supported from the framing for swing-

ing movement transversely of the vehicle in opposite directions from a normal centered position, a hanger suspended from the framing at a point spaced from the longitudinal center line of the framing a less distance than the range of movement of said coupler transversely of the vehicle from said center line, and a train air conduit carried by said hanger and movable therewith trans-

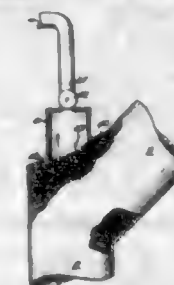


versely of the vehicle in opposite directions from its normal position when the coupler is centered, said hanger having a laterally projecting element disposed to contact the side of the coupler head, following initial movement of the coupler head from its normal position towards the air conduit, and swing the hanger with the coupler throughout continued movement of the coupler head in the same direction.

2,713,949

# SOLIDS TRANSFER LEG

Donald H. Stevenson, Cheltenham, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware  
Application February 24, 1951, Serial No. 212,604  
7 Claims. (Cl. 214—17)

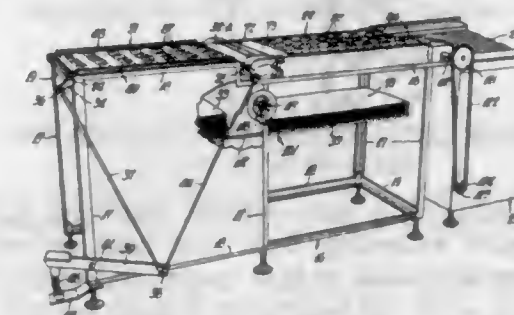


1. In a gas-solids contact process involving a continuous gravitational flow of granular contact material including attrited particles or fines as a compact flowing mass between an upper confined zone and a lower confined zone maintained at a substantially higher pressure than said upper zone, the method for simultaneously sealing said mass against a flow of gaseous material from said lower zone of higher pressure to said upper zone and for removing fines from said flowing mass which comprises the steps of: confining said flowing mass between said zones as a compact moving stream of uniform cross-sectional area throughout substantially its entire length; flowing at least a portion of said stream laterally at an intermediate level to form a surface thereof inclined at the angle of repose for said granular material; exposing a portion of said inclined surface having an area less than one half the cross-sectional area of said stream; introducing seal gas into the lower end of said stream at a pressure at least as great as the pressure within said lower zone, whereby seal gas is caused to flow countercurrently through the moving mass of granular material; disengaging at least a substantial major portion of the seal gas from said mass at the exposed portion of said inclined surface; collecting said disengaged seal gas together with entrained fines directly into a confined collecting zone having said exposed surface portion as its lowermost boundary and having an outlet at its upper end, said collecting zone being of such cross-sectional flow area, at least in the region immediately adjacent to said exposed surface, as to maintain therein

a velocity of gas flow at least as great as the velocity of gas flow within the portion of said moving stream below said intermediate portion but less than the velocity required to lift granular material other than fines from said exposed surface; and withdrawing seal gas together with entrained fines at a controllable rate from said collecting zone.

2,713,950

PLAQUE DISCHARGING MECHANISM  
Ernest J. Roth, Rockleigh, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware  
Application September 19, 1951, Serial No. 247,308  
12 Claims. (Cl. 214—309)



1. Apparatus for handling and feeding raised dough formations including a supporting structure, a pair of spaced supporting rails adjacent one end of said structure adapted to support a rigid plaque containing a flexible apron having a plurality of raised dough formations spaced thereon, a table-top surface covering a portion of said structure, an endless conveyor operating over and under said table-top surface, said conveyor having a plurality of longitudinally spaced apron receiving means extending transversely thereof and adapted to receive one edge of an apron, means for withdrawing said rail supports to drop said plaques below said rail supports, and means for operating said conveyor.

2,713,951

# TRAILER ATTACHMENTS FOR LAUNCHING, TRANSPORTING, AND HANDLING SMALL BOATS

James B. Davies, New Orleans, La.  
Application August 12, 1952, Serial No. 303,912  
6 Claims. (Cl. 214—506)



1. In combination with a towing vehicle, a boat-carrying trailer adapted to be drawn by said vehicle and having a tongue and having a wheeled supported frame including a cross-piece connected with the tongue; a pair of transversely aligned rocker arms freely pivotally mounted intermediate their ends on said cross-piece and adapted to freely rockably engage the bottom of said boat carried by the trailer frame, the pivotal mounting of said rocker arms permitting same to freely conform with the pitch of the boat bottom; an extension frame longitudinally slidably mounted on the trailer tongue in rear of the trailer wheels and adapted in one position to underlie the boat supported on the trailer frame, and in another position to have its rear end resting on the ground with its front end disposed substantially opposite the said rocker arms to provide a skid whereby the boat may be pulled up the extension frame onto the rocker arms or discharged onto the ground from said rocker arms when said extension frame is positioned in said other position; and means on said trailer frame for pull-



ing the boat onto the extension frame and onto the rocker arms when the extension frame is disposed in said other position.

2,713,952

**BOTTLE WITH INTEGRAL POURING MEANS**  
Carl A. Tessen, Manawa, Wis., assignor to ten per cent to Gerald K. Anderson, Manawa, Wis.  
Application May 3, 1951, Serial No. 224,290  
1 Claim. (Cl. 215-31)



A bottle including a neck portion, said neck having a closure, a spout extending from said neck intermediate the ends thereof, a cork in said spout, said spout having a lug thereon, a lid for said spout hinged to said lug, a seal disposed over said neck portion in sealing engagement with said cork and said closure and retaining said lid against said neck.

2,713,953

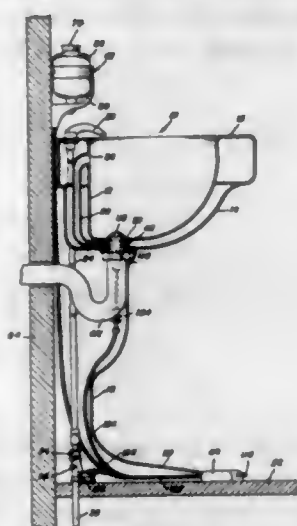
**VALVED CLOSURE**  
Raymond L. Jewell, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania  
Application May 8, 1952, Serial No. 286,657  
9 Claims. (Cl. 215-74)



1. A closure for a flask containing sterilized liquids comprising a sleeve of resilient material removably telescoped over the mouth of the flask and having a flange overlying the upper edge of the mouth of the flask and a projecting flexible collar, a cap removably mountable on the sleeve having a top wall extending over the mouth of the flask and side walls loosely depending around the collar and sleeve, the side walls of the cap having a groove therein loosely receiving the collar and having width greater than the thickness of the collar, the collar and groove cooperating to yieldably retain the cap on the sleeve and to permit movement of the cap toward the sleeve and removal of the cap from the sleeve, an annular lip of resilient material on and flaring outward and upward from the flange toward the top wall of the cap and having a rim engaging the top wall and serving as a check valve permitting outflow of air and vapor from the flask but preventing back flow into the flask, a shoulder on the cap radially outside the lip and above and cooperating directly with the flange on the sleeve as the cap is moved downward by vacuum within the flask to make a vacuum-tight seal, said shoulder being supported spaced above and out of sealing engagement with the flange by the lip in the absence of vacuum in the flask, and vent means outside the lip for the outflow of air and vapor during steam sterilizing and the cooling off period following the sterilizing when the pressure within the flask is higher than the pressure outside the flask.

2,713,954

**FOOT CONTROLLED WATER TAP**  
Joseph F. Spenner, Stayton, Ore.  
Application February 8, 1951, Serial No. 209,989  
1 Claim. (Cl. 222-179)



A soap holding and dispensing device comprising a wall mounted bracket, a container supported by the bracket and having a bottom wall with an opening therein, a delivery nozzle about said opening and depending from said bottom wall and having a vertical slot therein, a vertically swingable plate pivoted to the bracket and slidably received in the slot, said plate having an opening disposed within the nozzle to permit a detergent in the container to pass through the nozzle, a valve having a stem pivotally attached to the plate and a head seatable in the opening in said bottom wall, a spring in the nozzle about the stem and biased between said bottom wall and said plate to urge the plate downwardly relative to said bottom wall and the valve downwardly into the opening in said bottom wall, a casing under the container, a foot actuable spring urged plunger slidably carried by said casing, and a Bowden wire connecting the plunger to the plate to actuate the plate as the plunger is moved in one direction.

2,713,955

**HOPPER DUMPING SECTIONAL CLOSURE**  
Henry C. Harbers, San Gabriel, Calif., assignor to Cook Bros. Equipment Co., Los Angeles, Calif., a corporation of California  
Application April 17, 1950, Serial No. 156,478  
11 Claims. (Cl. 222-502)

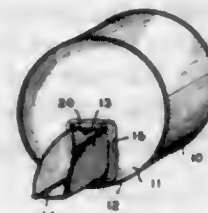


1. In combination with a hopper; first and second closures each partially controlling the mouth of the hopper and pivoted about a common horizontal axis; a first lever for turning the first closure from a horizontal closed position downwardly to an open position; releasable means for securing the first lever in a position to maintain the first closure in closed position; mechanism for turning the second closure downward to open position from a horizontal closed position, having an arm fixed to the second closure, a first link pivoted to the arm, a second link pivotally connecting the first link to the first lever, a second lever fixed to the first link, and a stop fixed on the first lever engageable by one of the links to maintain the mechanism in a position in which the second closure is in closed position when the first lever

is secured by said releasable means; and a latch on one of said levers movable to connect the other lever thereto so that turning one lever both levers are turned to simultaneously move the second closure upwardly to open position and the first closure downwardly to open position, the latch when unconnected to the other lever enabling the second lever to be turned and the mechanism actuated to move the second closure downwardly to open position.

2,713,956

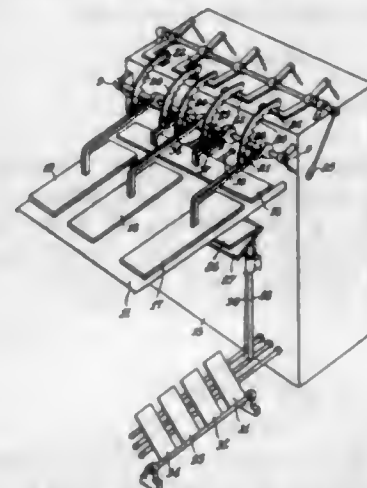
**HERMETICALLY SEALED COFFEE CAN**  
John E. Everett, Wilmette, Ill.  
Application August 26, 1953, Serial No. 376,668  
6 Claims. (Cl. 222-532)



1. A coffee can comprising a cylindrical container having an opening in one end located between the center and the circumference, that portion of the opening adjacent the circumference being of a configuration to facilitate pouring from the container and from its lower portion when on its side, a swingable closure for said opening pivoted substantially at right angles to a line drawn from the pouring portion of said opening through the diameter of the same, the end of the container being provided with a groove in its exterior surface around the margin of said opening, said closure having an annular ridge of a size and shape to fit within the opening in the container, and a sealing ring of a size and configuration to snugly overlie the joint between the closure and the wall of the container about said opening and a fusion ring on the underside of said sealing ring whereby upon the application of heat upon said sealing ring, said fusion ring will be caused to melt and seal the joint between the sealing ring and the closure, said fusion ring having a loop extending from beneath said sealing ring to permit engagement and rupture of the seal.

2,713,957

**METHOD OF PROCESSING GARMENTS**  
Sidney Stribling, Asan, Guam, Guam  
Application September 27, 1951, Serial No. 248,593  
2 Claims. (Cl. 223-73)

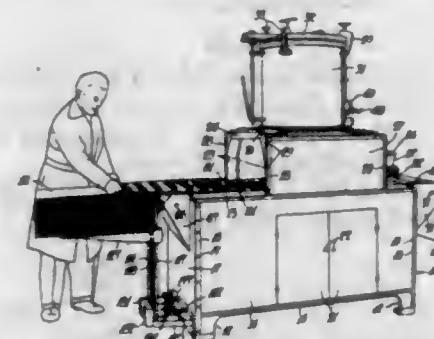


1. In a garment processing device employing an inflatable porous container adapted to insertion into the said garment in a collapsed condition and inflatable within the said garment; a perforated padded plate disposed within the said container, bracket means of securing the said plate to a frame and securing the said plate in the horizontal plane, trouser leg supporting arms detachably secured to the said plate; a plurality of per-

forated padded clamps coaxially mounted on a shaft, the said clamps being individually rotatable on the said shaft, the said shaft being endedly and nonrotatably secured by bracketing means to the said frame, ratchet means of securing the said clamps over the said plate; wedge members coaxially and nonrotatably mounted on a shaft, the said shaft being endedly and rotatably secured by bracketing means to the said frame, the said clamps being positioned individually on the surface of the said padded plate, held in this position by the said wedge members; a handle provided on the said shaft mounting the said wedge members whereby all clamps are released by a single motion of the said handle; a portion of the said inflatable porous container and a portion of an article of wearing apparel interposed between the said perforated padded plate and the said perforated padded clamps.

2,713,958

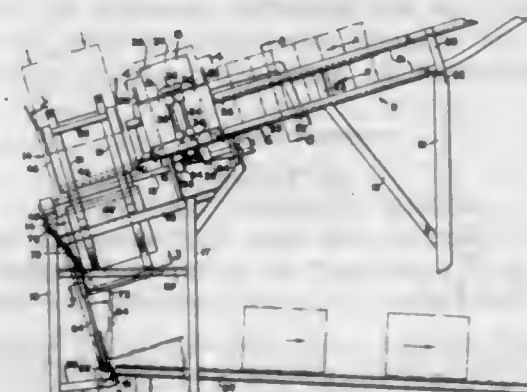
**APPARATUS FOR HANDLING RAISED DOUGH FORMS**  
Ernest J. Roth, Rockleigh, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware  
Application August 2, 1951, Serial No. 239,920  
3 Claims. (Cl. 226-14)



1. In apparatus for handling dough formations and the like, a supporting structure having a table-like top surface, a conveyor for moving a plurality of aprons in spaced relation longitudinally of said table top, an elevator mounted adjacent the discharge end of said table top for supporting a plurality of stacked plaques which are to be used one at a time as a support for each of said aprons, and means for operating continuously said conveyor and raising said elevator synchronously and continuously whereby the top plaque of said stack is maintained in substantial horizontal alignment with said table top at the time its apron is positioned thereon.

2,713,959

**CAN PACKAGING MACHINE**  
Frank U. S. Gilbert, Lakewood, Joseph Harrison, Jr., Cleveland, and George A. Kruse, East Cleveland, Ohio, assignors to The Cleveland Cleaner and Paste Co., Cleveland, Ohio, a corporation of Ohio  
Application May 25, 1953, Serial No. 357,092  
20 Claims. (Cl. 226-15)



1. A can packer comprising can handling means to receive cans in single file and to discharge cans in stacked rows bounded by a given rectangular geometric figure,

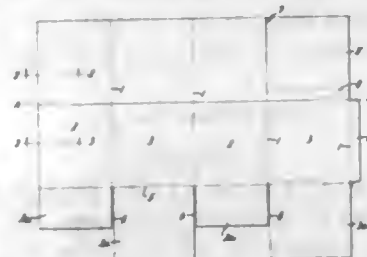
said can handling means having a discharge end, a plurality of carton supporting can receiving rectangular forms defining a space substantially equal to that occupied by said geometric figure, said carton supporting can receiving forms being mounted for rotation around a given axis in the same planes of rotation and generating a cylindrical surface of rotation, said discharge end terminating at one side of said planes of rotation and lying within the axial projection of said cylindrical surface of rotation, said discharge end also extending substantially parallel to said given axis, means to intermittently advance said forms to a station opposite said discharge end, the sides of said rectangular forms facing radially outwardly from said given axis and the sides of said rectangular forms facing toward said one side being completely obstruction free, whereby cans may enter from said one side and be discharged radially outwardly, the remaining sides of said rectangular forms comprising can and carton supporting members, conveyor means extending through said planes of rotation below said cylindrical surface of rotation, and arcuate retaining means extending around one side of said cylindrical surface of rotation from a point above the mid-height level of said cylindrical surface to a point adjacent the bottom of said cylindrical surface.

2,713,960

**FEEDING AND HANDLING MECHANISM FOR CONTAINER FILLING MACHINES**  
Norman A. Siegal, Chicago, Ill., assignor to Irvin Swartzberg, Chicago, Ill.  
Application November 22, 1950, Serial No. 197,008  
10 Claims. (Cl. 226-72)



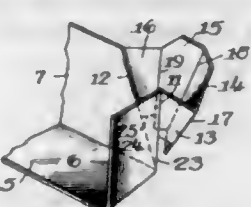
proximately one-half the height of the wall panels being of double wall corrugated board, and the remainder of the wall panels being of single thickness corrugated board with the termination of the double wall section at the exterior of the container section, and the inner edge



of the single wall portion of a panel at one end of the blank being cut from the adjacent wall panel from the top of the blank to a point adjacent the top of the double wall portion and with the said end wall panel scored transversely for folding outwardly and downwardly during packing of a formed lower container section.

2,713,962

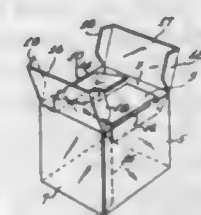
**REINFORCED CONTAINER**  
Charles R. Camp and Charles E. Chamberlin, Chattanooga, Tenn., assignors to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee  
Application April 2, 1953, Serial No. 346,444  
2 Claims. (Cl. 229-31)



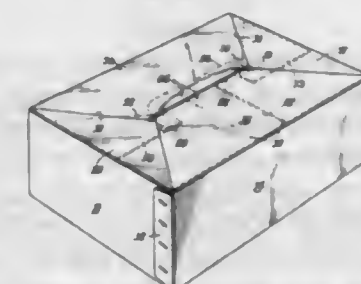
side walls adjacent said intermediate wall, bellows folds connecting each of said side walls to said intermediate wall, a portion of said folds being adhered to the outside face of said side walls, locking means on the inside face of said intermediate wall operable to hold said side walls perpendicular to said bottom wall when the tray portion is set up, said locking means comprising a flap having end portions two plies thick connected to the top edge of said intermediate wall, said flap being folded to overlie the inside surface of said intermediate wall, and a single ply cover locking flap formed by cut lines in said first named flap connected to the top edge of said intermediate wall and folded to extend outwardly therefrom, said cover portion having a top wall, a pair of opposed side walls and an intermediate wall each connected to said top wall and a glue flap on each of said cover side walls adhered to the inside surface of said cover intermediate wall, each of said glue flaps having its upper edge spaced substantially distant from said cover-top wall to engage said cover locking flap when the cover is closed over the tray, to lock the cover portion in carton-closed position.

2,713,964

**BATTERY CONTAINER**  
Edward F. Repking, Clifford D. Fallert, and Walter C. George, St. Louis, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland  
Application June 2, 1950, Serial No. 165,766  
2 Claims. (Cl. 229-38)

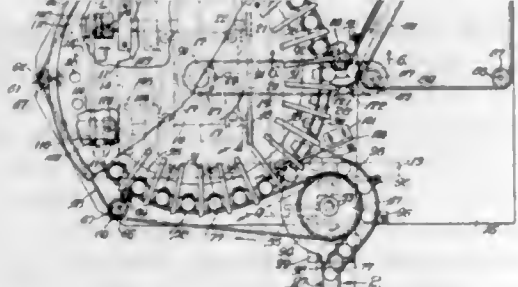


bottom closure wherein the underlying flap is of substantially uniform width and of a length sufficient so that it extends substantially more than half way across said container, said underlying flap also having its central end portion cut back to a line substantially half way across said container and having short slots extending laterally from said cut back portion along said line, there being score lines in said underlying flap diverging from said short slots to its lateral edges at points spaced substantially equal distances from the line of juncture between said underlying flap and its associated side wall panel, the two opposing intermediate flaps have the sides thereof adjacent said underlying flap cut back at an angle slightly greater than 45° to a point slightly more than half way across the width thereof to form rectangular



portions at their free ends, and the overlying flap extends substantially more than half way across said container and has its sides cut back at an angle slightly less than 45° to a point substantially half way across said container to form a tongue portion at its end, said tongue portion being engageable over said rectangular portions and beneath said underlying flap to lock said closure with the angular edges of the intermediate flaps crossing said score lines in the underlying flaps, whereby said closure is securely locked if internal pressure of contents or the like is exerted on the portions of said under-





6. In a machine for filling large-mouth containers with materials capable of being packed more closely by vibration, a horizontal turntable, means to rotate the turntable, means to vibrate the turntable, means on the turntable to support an inner resilient annular belt and a portion of an outer endless belt extending over a major portion of the periphery of the turntable, means to support a return portion of the outer belt while not interfering with the access of empty containers to the turntable and the removal of filled containers therefrom, means to provide such access and removal, and means to maintain a predetermined peripheral spacing between the containers while on the turntable, whereby the containers while on the turntable, are resiliently held between the belts regardless of the rotation and vibration of the turntable.

#### 2,713,961 CORRUGATED CARTONS

Seldon G. Mitchell and Alan C. McDonald, Jr., High Point, N. C., assignors to Carolina Container Company, High Point, N. C., a corporation of North Carolina

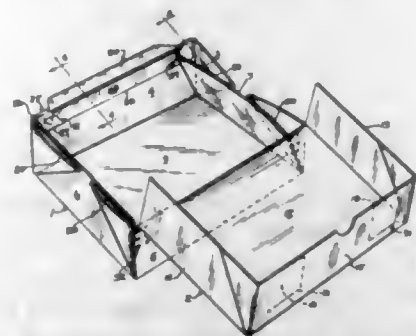
Application March 18, 1952, Serial No. 277,124  
2 Claims. (Cl. 229-23)

1. A blank for the formation of the lower section of a container, said blank comprising a corrugated board sheet cut and scored to provide four wall panels and bottom flaps integral therewith, the bottom flaps and ap-

1. A paperboard tray comprising a bottom panel, two end walls, two side walls, and four corner portions, each corner portion being integrally joined at one end with the end of an end wall and at its other end with the adjacent end of a side wall, each corner portion being divided into four sections by score lines extending angularly outwardly from the intersection of the end and side wall connected thereby, the sections being folded in opposite directions along the score lines to superimpose two corner sections against the end wall and the other two corner sections against the adjacent end of the side wall to reinforce each tray corner, each corner portion being cut away adjacent said intersection to space the lower edge of the corner reinforcement from the lower edge of the tray and thereby facilitate folding of the corner portions.

#### 2,713,963 CARTON

David B. Andrews, Neenah, and Harold F. Riege, Wausau, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin  
Application September 26, 1950, Serial No. 186,804  
6 Claims. (Cl. 229-33)



1. In a folding carton comprising a tray portion and an overlying cover portion, said tray portion having a bottom wall, an intermediate wall, and a pair of opposed

1. A container for storage batteries having fragile projections above the top edge of the battery case, said container comprising pairs of opposed side walls and end walls adapted to snugly enclose said battery case and extend above said battery projections, said side walls having integral flanges folded downwardly against the inner face thereof, thence reversely upwardly parallel to said side walls, forming U-shaped downwardly projecting load carrying ledges adapted to seat on the top edge of said battery case with the upper edges of the walls of said U-shaped ledges substantially above said battery projections, said side wall flanges each having an integral extension extending from the upper edge of the inner wall of each of said U-shaped ledges, said extensions folded inwardly in edgewise abutting relation to form the inner ply of the cover of the container and to maintain said U-shaped ledges in flat-wise position against said side walls, said end walls having upper marginal flaps folded inwardly in edgewise abutting relation to form the out-er ply of the cover of the container, said end wall flaps having tabs thereon, said tabs being adapted to be inserted in the longitudinal slot in the open end of said U-shaped ledges.

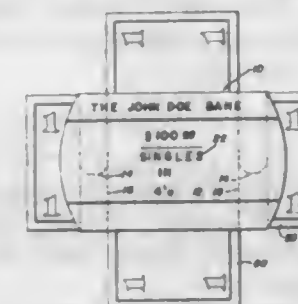
#### 2,713,965

#### PAPERBOARD CONTAINER WITH INTER-LOCKING FLAP CLOSURE

Ralph E. Acker, Fort Worth, Tex., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware

Application May 14, 1953, Serial No. 355,077  
1 Claim. (Cl. 229-39)

In a container of paperboard material including four side wall panels hingedly joined in tubular form and a bottom closure flap hingedly joined to each of said side wall panels along the lower edge thereof, the improved



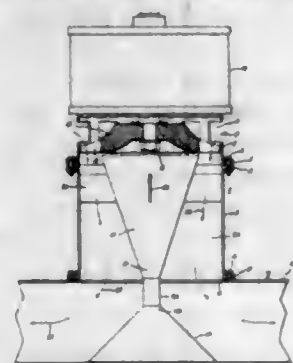
A money package including stacks of alternately crossed currency, and a wrapper comprising a substantially rectangular sheet of a width corresponding to that of the currency and superimposed longitudinally on one of the stacks, straps extending in parallel pairs outwardly from the sides of the sheet at the ends thereof with the inner edges of the pairs spaced apart the width of the currency, said sheet being longer than the width of the currency by the width of two straps, said pairs of straps straddling the other stack in edge-abutting engagement with the currency therein and being bent around and beneath said one stack with the free end portions of one pair lapped with the corresponding portions of the other pair, and means for securing the lapped free end portions of said straps together.

#### 2,713,967

#### VENTILATING DEVICE

Fred B. Schneider and Anthony C. Scillano, Wesleyville, Pa., assignors to General Electric Company, a corporation of New York

Application June 11, 1952, Serial No. 292,804  
3 Claims. (Cl. 230-47)



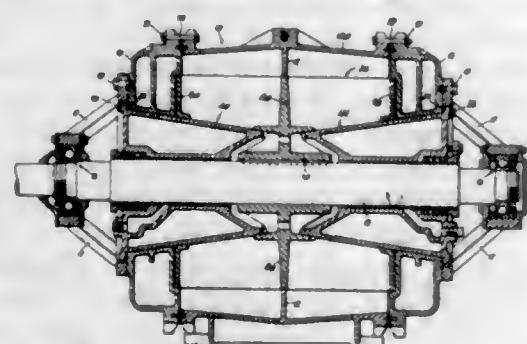
1. A ventilating system comprising a first duct, a driving means mounted on one end of said first duct and closing said one end, an axial flow blower operably connected to said means and mounted in said first duct to force said air into and axially through said first duct, a plurality of openings formed in the circumferential surface of said first duct between said means and said blower for admitting air into the interior of said duct, a second duct arranged substantially at right angles to said first duct and communicating with the other end thereof to receive air therefrom, axially extending vanes mounted transversely in said first duct to reduce swirling motion of the air initiated by said blower, a first conical member positioned axially within said first duct secured to said vanes and having its base adjacent to said blower on the side remote from said openings with its apex end adjacent said other end, said base having a cross-sectional area approximately half that of said first duct and said apex end having a cross-sectional area less than a tenth of the cross-sectional area of said first duct thereby defining a diverging annular passage with the interior wall of said first duct whereby said air is substantially decelerated in said first duct to provide an increase in static pressure, and a second conical member in said second duct having its base resting on an interior wall of said second duct remote from said cylindrical duct, its apex end within said second duct and being coaxial with said first conical member thereby to reduce the kinetic energy loss during the deflection of the decelerated air, said second conical member having an outer surface that is at an angle of substantially 45 degrees with respect to its axis, said surface defining with the lower edge of said first duct a continuously expanding duct in the region of the deflection of said air.

#### 2,713,968

#### HYDROTURBINE PUMP

Harold E. Adams, Norwalk, Conn., assignor to Nash Engineering Company, South Norwalk, Conn., a corporation of Connecticut

Application February 15, 1951, Serial No. 211,166  
24 Claims. (Cl. 230-79)



1. In a hydroturbine gas pump, in combination, a rotor, chamber forming means enclosing the rotor and

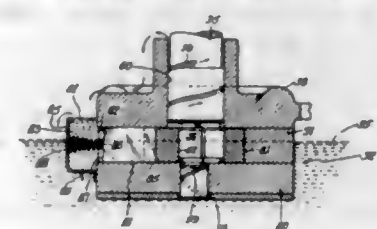
comprising an inner cone and a surrounding outer casing, said casing characterized by the fact that it is formed to define lobes which are of progressively increasing depth with respect to the rotor axis from the end at which the diameter of the cone is greatest toward the end at which the diameter of the cone is least.

#### 2,713,969

#### COMPRESSOR UNLOADER

Frank E. La Flame, Twin Lakes, and Earl F. Hubacker, Muskegon, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application June 8, 1951, Serial No. 230,506  
5 Claims. (Cl. 230-138)



1. A sealed unit containing a fluid compressor and a motor for operating said compressor, said compressor including a stationary member having a compression chamber therein and inlet and outlet ports communicating with said chamber, a cylindrical member arranged within said compression chamber and rotatable therein by said motor, means adapted to cause fluid to be compressed between said members including a blade slidably mounted in a slot formed in said stationary member and cooperating with both of said members to define low and high pressure sides within the compression chamber, an oil reservoir having a normal oil level below a radial edge of said blade, means for supplying lubricant to operating parts of said unit, means including a cup-shaped bracket disposed exteriorly of said stationary member and disposed adjacent said blade and adapted to receive lubricant during operation of the motor to a level to submerge said blade to provide a liquid seal between said blade and said slot to prevent leakage of discharge pressure gases from said high pressure side through said slot, said oil in said cup-shaped bracket being subjected to discharge pressure gas in said sealed unit during operation of said compressor, bleed hole means in said cup-shaped bracket effective to lower the oil level in said cup-shaped bracket to the normal oil level in the oil reservoir during inoperation of the motor to break the liquid seal thereby to permit leakage of discharge pressure gases into the low side of the compression chamber to balance the pressures and unload the compressor, and means including a spring one end of which being in engagement with portions of said cup-shaped bracket and the other end of which being in engagement with said blade to exert a force in a direction tending to urge said blade toward said rotatable member arranged in said compression chamber.

#### 2,713,970

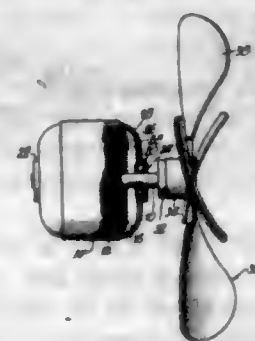
#### SILENT, READILY-SERVICED ELECTRIC FAN CONSTRUCTION

John J. Kueser, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware

Application June 30, 1952, Serial No. 296,338  
1 Claim. (Cl. 230-259)

A silent, readily-serviced fan construction comprising in combination; a motor having a frame, a shaft, and a rotor mounted on the shaft, the shaft having a knurled portion of limited extent outboard the frame, said knurled portion providing a multiplicity of axially-elongated protuberances extending in height outside the confines of the shaft and a corresponding multiplicity of alternate indentations extending in depth into the shaft, the depth

of said indentations being substantially equal to the height of said protuberances; a fan blade having a cylindrical hub of size to fit over the shaft with an annular clearance space; and an elastic grommet sandwiched between



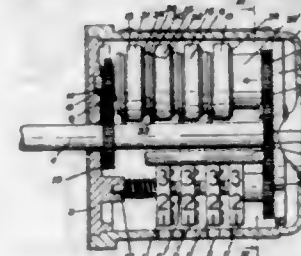
the shaft and the hub in a compressed condition and extending outboard each side of said knurled portion of the shaft, the frictional engagement between the grommet and the hub being substantially equal to the frictional engagement between the grommet and the shaft.

#### 2,713,971

#### COUNTING DEVICES

Hans Bud, Southgate, London, and Harry Greenhow, Chingford, London, England, assignors to English Numbering Machines Limited, Enfield, England, a British company

Application September 14, 1951, Serial No. 246,552  
Claims priority, application Great Britain April 2, 1951  
4 Claims. (Cl. 235-91)



1. A counting device comprising a counting mechanism including a plurality of number wheels arranged for rotation around a common axis, a driving shaft substantially parallel to said axis, a stationary spindle substantially parallel to said driving shaft, a plurality of epicyclic trains mounted on said spindle and arranged for operating in cascade to constitute a reduction gear, the first of any two successive epicyclic trains operating in cascade having a terminating eccentric member and the second of said two successive epicyclic trains having an initial apertured gear member being substantially equally apertured, the terminating eccentric member of said first of two successive epicyclic trains being in contact with the initial apertured gear member of the second of said two successive epicyclic trains to form a direct coupling between said first and second epicyclic trains, means coupling said driving shaft to one of the plurality of epicyclic trains for driving the reduction gear on rotation of said driving shaft, and means coupling another epicyclic train to said counting mechanism for actuating the same.

#### 2,713,972

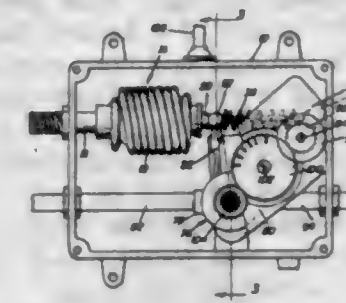
#### THERMOSTATIC MIXING VALVE

Alvin E. Geise, Yakima, Wash., assignor of twenty per cent to Gordon A. Geise and twenty per cent to Marjorie Likely

Application July 17, 1953, Serial No. 368,730  
6 Claims. (Cl. 236-12)

1. A hot and cold water mixing assembly comprising a housing, a valve sleeve rotatably received in said housing, a valve body disposed concentrically of said sleeve and rotatable with respect thereto, said sleeve having hot and cold water inlet apertures, said body having openings

registerable with said apertures, temperature responsive means for moving said body, means for resisting motion



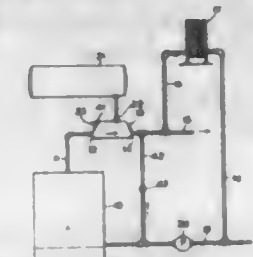
of said body, means for adjusting said resisting means, said last means being connected to said sleeve for imparting rotation thereto.

#### 2,713,973

#### HEATING SYSTEMS

Harold G. Hencken, Greenwich, Conn., and Rudolph T. Schoerner, Oaklawn, R. I., assignors to Taco Heaters, Incorporated, Providence, R. I., a corporation of New York

Application June 20, 1951, Serial No. 232,522  
10 Claims. (Cl. 237-63)



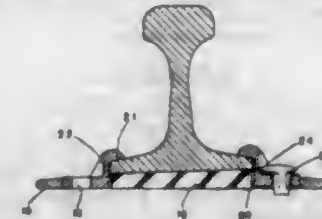
1. In a hot water heating system having heat transfer devices therein, the combination including a boiler, an expansion tank, a circulating pump in the system, supply pipe means leading from said boiler to said devices, an air removal chamber in said supply pipe means, a baffle means interposed in the path of water flowing through said chamber and in line therewith, said baffle means having apertures therein dividing the waterflow and stripping off water with air from the water flowing through said chamber and directing said air toward the top of said chamber, a transverse plate means extending downwardly from the top of said chamber and separating it into two upper zones, said plate means being spaced above said baffle means, means connecting said expansion tank to one of said zones, and means connecting an air release valve to the other of said zones.

#### 2,713,974

#### CUSHIONED TIE PLATE

Edgar K. Lofton, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio

Application April 26, 1950, Serial No. 158,248  
2 Claims. (Cl. 238-283)

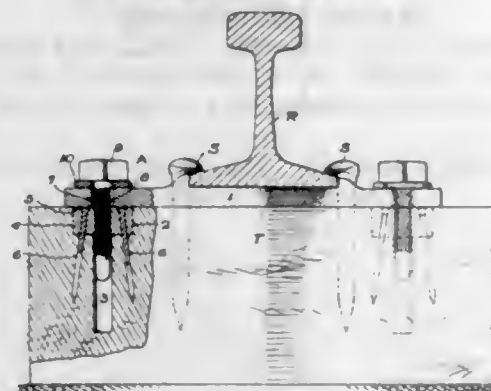


2. A railway tie plate assembly comprising a rectangular steel body portion secured to a railway tie, a rectangular central opening in said body member, spaced, parallel vertically projecting shoulders along two opposite sides of said opening receiving the base flange of a rail therebetween, a resilient cushioning member positioned in said opening between said shoulders and projecting above said body member and supporting the base of the rail,



an opening in each side of the tie plate adjacent said shoulders, a rail clamping member positioned in each of said side openings having a base portion secured to the railway tie by means of a headed fastening member passing vertically through said base portion, said clamping member having a vertically extending portion providing an upwardly extending recessed portion adjacent the base flange of said rail and a lip portion overhanging and engaging the top surface of said rail flange, the head of said fastening member engaging the side of said vertical portion and forcing said lip portion into firm engagement with said rail flange.

**2,713,975**  
**TIE PLATE ASSEMBLY**  
Edgar E. Martin, Altoona, Pa.  
Application January 19, 1951, Serial No. 206,885  
3 Claims. (Cl. 238—297)

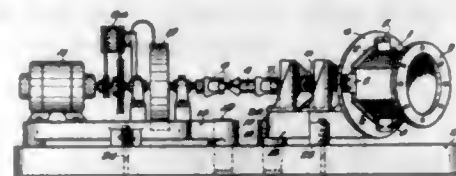


1. In an assembly for mounting rails, the combination including, a wood tie having pre-formed cavities accessible from the top side thereof, a tie plate having a shoulder positioned on the top of the tie and having its outer edge portions overlying said cavities, said plate having spike openings in the shoulder thereof for receiving cut spikes whose shanks are driven directly into the wood tie and whose heads engage the base flanges of the rail, said plate also having untapped bolt receiving holes in addition to and outwardly of said spike openings, metallic tie chafing guard means confined in said cavities of the tie beneath the outer edge portions of the tie plate and having the upper face thereof substantially flush with the top of the tie and supporting the tie plate, said chafing guard means having a central threaded opening and also having a plurality of dowel receiving openings between said central threaded opening and the outer edges thereof, dowel fastenings for anchoring the chafing guard means to the wood tie passing through the afore-said dowel receiving openings, and threaded bolt means passing through a related untapped hole in the tie plate and engaging the registering related threaded hole in said chafing guard means rigidly to hold the tie plate to said chafing guard means which is anchored to the tie, thereby holding the tie plate stationary relative to the tie and the wave motion of the rail being permitted by the cut spikes without movement of the tie plate.

**2,713,976**  
**BALL MILL GRINDING USING CYCLICLY VARYING ROTATIONAL MOTION**  
William O. Youngnickel, Fitchburg, Mass., assignor to Union Machine Company, Fitchburg, Mass., a corporation of Massachusetts  
Application June 16, 1951, Serial No. 231,933  
4 Claims. (Cl. 241—26)

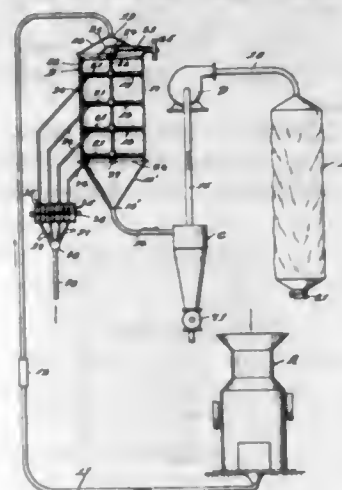
1. In the process of grinding by means of a ball mill or the like that improvement which comprises rotating the mill including its charge about a substantially horizontal axis at a cyclicly varying angular velocity the average of which is greater than the critical speed, at least one cycle occurring per revolution of the mill, each cycle including a high speed pulse and a low speed dwell,

the maximum speed being at least 1.2 times the average speed and the minimum speed being no higher than 1/1.2 times the average speed, the period during which the speed is higher than average being less than 0.9 times



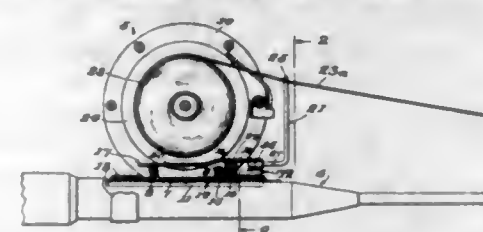
the period during which the speed is lower than average, there being included during each low speed dwell a period during which the speed is below the critical speed and of sufficient duration to prevent centrifuging of the charge.

**2,713,977**  
**MILLING APPARATUS FOR GRAINS AND OTHER MATERIALS**  
Heinrich A. Noll, Dusseldorf, Germany, assignor to H. H. and H. Manufacturing Co., Chicago, Ill., a corporation of Illinois  
Application December 29, 1950, Serial No. 203,491  
6 Claims. (Cl. 241—79)



3. In a system of flour milling, a grinder mechanism having an inlet and an outlet for grinding material to be made into flour, a separator including a chamber having an inlet connected with the outlet from said grinder and an outlet therefrom, a plurality of successively finer screens arranged in spaced relation to one another within said chamber and across the flow path of material flowing from the chamber inlet to the outlet thereof, means for removing from the receiving side of each screen the material retained by such screen, a settling chamber having an inlet connected with said outlet from said separator chamber, and a blower having an inlet connected with said settling chamber outlet and having a discharge outlet, whereby material flow will be established in a path from said grinder through said separator and settling chamber to said blower in succession.

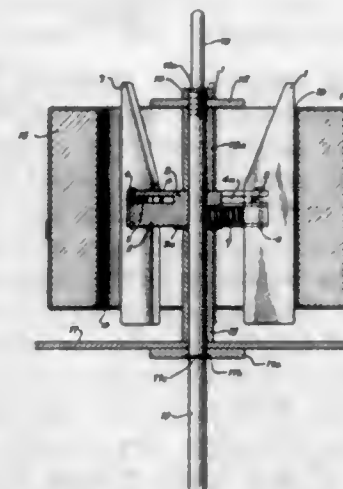
**2,713,978**  
**LINE SLACK ELIMINATOR FOR REELS**  
Daniel J. Daniel, Fort Smith, Ark.  
Application May 22, 1953, Serial No. 356,839  
5 Claims. (Cl. 242—84.5)



1. In combination, a fishing rod having a reel seat, a reel having a supporting foot engaged with said seat,

means detachably securing said foot to said rod, a thin plate inserted between said foot and said seat and having upstanding ears straddling said foot, a brake lever pivoted to said ears to engage the wound line on the reel, said brake lever having a line-engaging yoke to hold said brake lever against operation when there is more than a predetermined degree of tension on the line during casting, and spring means for operating said brake lever with gradually increasing force as the line tension gradually decreases below said predetermined degree.

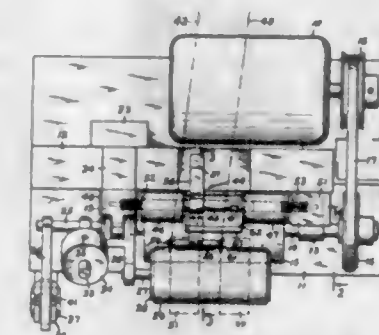
**2,713,979**  
**YARN CAKE HOLDER**  
Norman D. Sigman, Bluff City, Tenn.  
Application March 8, 1951, Serial No. 214,517  
4 Claims. (Cl. 242—130)



1. A device for supporting hollow cakes of processed synthetic yarn or thread while the yarn or thread is being unwound comprising a shaft, a plurality of fingers for supporting a cake of synthetic yarn, means for pivotally mounting said fingers around said shaft, said means comprising a disc positioned on said shaft, said disc having a radially extending groove formed therein, said disc having a plurality of slots cutting across said groove for receiving said fingers, pivot pins on said fingers loosely fitted into said groove so that said fingers are movable toward or away from said shaft in said slots, and means supported by said disc to limit the movement of said finger pivot pins away from said shaft, said fingers being disposed substantially equidistantly spaced around said shaft, an expandible sleeve adapted to be supported by said fingers inside of the cake of synthetic yarn, and spring means positioned between said shaft and said fingers for engaging each of said fingers on one side of said mounting means for tilting all of the corresponding ends of said fingers towards said shaft to facilitate placing the synthetic yarn cake and said expandible sleeve on said fingers and for pressing said fingers away from said shaft and to expand said expandible sleeve snugly into said cake of yarn.

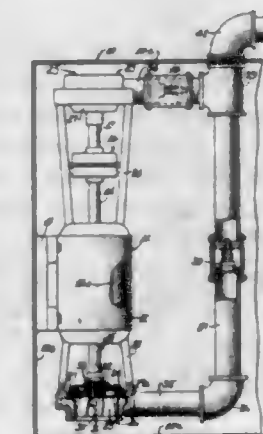
**2,713,980**  
**TRAVERSE MECHANISM**  
Samuel B. Roberts, Greenwich, Conn., Robert H. Roughsedge, Ramsey, N. J., and Abraham Edelman and George E. Koslow, New York, N. Y., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware  
Application November 9, 1951, Serial No. 255,642  
9 Claims. (Cl. 242—158)

1. In a traverse mechanism, the combination with a reciprocating element comprising a magnet operatively connected to a yarn guide, of electromagnetic means acting alternately to attract and repel each pole of said magnet for moving said reciprocating element through its traverse stroke, said electromagnet means including



said magnet whereby the tendency to demagnetize said magnet is kept at a minimum.

**2,713,981**  
**METHOD OF DELIVERING LIQUID FROM AN AIRCRAFT CELL UNDER ALL FLIGHT CONDITIONS**  
Paul J. Lansing, Los Angeles, Calif., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application March 6, 1951, Serial No. 214,181  
4 Claims. (Cl. 244—135)



1. The method of delivering a constant uninterrupted stream of liquid from an aircraft fuel cell under all flight conditions of the aircraft which comprises pumping liquid under positive pressure from within the body of liquid adjacent the bottom of the aircraft fuel cell when the flight condition of the aircraft is such that the liquid is resting on said bottom of the cell, pumping liquid under positive pressure from within the body of liquid at the top of the aircraft fuel cell when flight conditions cause the liquid to be supported at the top of the fuel cell, and continuously delivering liquid fuel from the cell from either adjacent the bottom of the cell or adjacent the top of the cell in vapor-free uninterrupted stream under positive pressure.

**2,713,982**  
**SPRING HANGER**  
Walter A. Sherbrooke, Great Kills, N. Y., assignor to Piping Specialties, Inc., New York, N. Y., a corporation of New York  
Application June 22, 1951, Serial No. 233,013  
7 Claims. (Cl. 248—54)

1. A pipe hanger having a pair of fixed spaced end plates and an intermediate movable member, a supporting spring disposed for compression between one of said end plates and said movable member, a connecting member joining said end plates together and extending along the path of movement of said movable member and engaging a portion of the movable member to prevent rotation



thereof relative to said connecting member, and removable means for operatively interconnecting said



members and holding the movable member against movement to and fro along said connecting member.

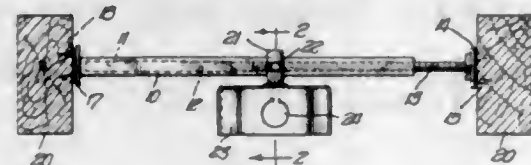
2,713,983

### EXPANSIBLE HANGER BARS FOR SUPPORTING ELECTRIC OUTLET BOXES

Michael Kay, Chicago, Ill.

Application February 9, 1953, Serial No. 335,700

3 Claims. (Cl. 248—57)



1. A hanger bar of the class described comprising a tubular portion, said tubular portion being formed out of an oblong metallic strip to define a pair of opposed sides and a connecting member therebetween at one of the ends thereof, adjacent the opposite end each of said sides carrying an integrally formed block on the inner face thereof, each of said blocks being provided with a longitudinally complementary threaded groove, the grooves in the two blocks defining a threaded bore when said blocks are brought in a face to face relation, binding means for maintaining said blocks in a face to face relation, a threaded rod received within said threaded bore, a prong-carrying plate affixed to the said connecting member, said plate being in a swivelled relation with said connecting member, and a prong-carrying plate affixed to the free end of said threaded rod.

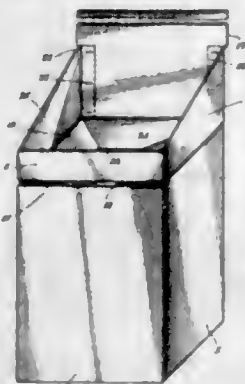
2,713,984

### DISPLAY STAND

Richard E. Paige, New York, N. Y.

Application July 12, 1951, Serial No. 236,316

6 Claims. (Cl. 248—174)



1. A display stand of sheet material with score lines and bent to form a base and a tray over the base, and sections between the tray and said base, the sections being cut free from one another but hinge-connected to said tray and base along some of said score lines, and being folded inward along a transverse score line upon each section to close the tray at the bottom, some of said sections

being straight along their sides and another section having indentations in both sides, the sections having straight sides being overlapped by said other section.

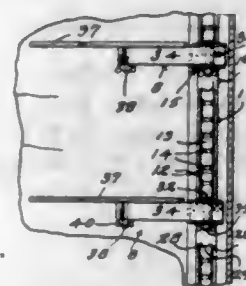
2,713,985

### ADJUSTABLE DISPLAY SUPPORT

Marion B. Kleckner and Milton W. Luck, Akron, Ohio

Application March 19, 1952, Serial No. 277,438

2 Claims. (Cl. 248—243)



1. A supporting unit of the character described for displaying merchandise, comprising an upright strip-like supporting member having vertically spaced openings, a clip formed from a strip of resilient metal having one end defining an upper portion of the clip, said upper portion including a distal end having a tongue extending inwardly through one of the openings of the supporting member and having a part extending upwardly at an angle to said upper portion and bearing against an inner side of the supporting member when said upper portion is disposed to extend outwardly therefrom, said clip including an intermediate portion extending downwardly from an opposite outer end of said upper portion and terminating in an inwardly curved part defining a lower portion of said clip, said lower portion extending inwardly and toward the supporting member and having a downwardly inclined tongue at the distal end thereof extending downwardly and inwardly through a lower opening of the supporting member, the distal ends of said upper and lower portions having legs laterally spaced from the tongues thereof and bearing against the outer side of the supporting member; a clamp connected to the intermediate clip portion and having upper and lower jaws extending outwardly therefrom, and a shelf supporting arm having an inner end fitting between and secured to the clamp jaws, the weight of said arm acting to deflect the intermediate clip portion downwardly and inwardly for exerting a downward and inward pressure on the lower clip portion for urging the lower tongue downwardly and inwardly through said lower opening engaged thereby and into camming engagement with a part of the supporting member disposed beneath said last mentioned opening, whereby the clip is tightly anchored to the supporting member by the weight of the parts supported thereby.

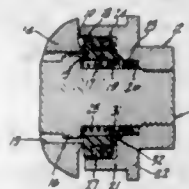
2,713,986

### SELF-ALIGNING POPPET VALVE

Robert A. Suthann, Burbank, Calif., assignor to Hydro-Aire, Inc., Burbank, Calif., a corporation of California

Application March 30, 1953, Serial No. 345,546

3 Claims. (Cl. 251—86)



1. In a self-aligning poppet valve structure, a valve seat, a valve stem mounted adjacent said seat and movable perpendicularly of the plane thereof, a poppet mounted loosely over said valve stem and shaped to sealingly engage said valve seat, a back-up element mounted

on said stem on the side of said poppet remote from said seat, said back-up element and said poppet having cooperating surfaces engaging each other when the valve is in closed condition and shaped to permit the poppet to remain in an aligned position relative to said valve seat during and after the closing of the valve, and a compression spring mounted between said poppet and said back-up element and effecting location of said cooperating surfaces in spaced relation when said valve is in open condition, said compression spring permitting said poppet to assume an aligned condition relative to said valve seat upon engaging the same during valve closing and to cushion the engagement of said cooperating surfaces during the valve-closing operation.

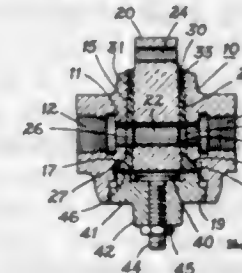
2,713,987

### VALVE FOR CORROSIVE FLUIDS

Robert C. Schenck, Dayton, Ohio, assignor to The Duriron Company, Inc., Dayton, Ohio, a corporation of New York

Application February 28, 1950, Serial No. 146,645

3 Claims. (Cl. 251—188)



1. A lined plug valve of the character described comprising a valve body having a tapered bore therethrough and flow passages opening into said bore, a tapered plug receivable in said bore and having a port therethrough adapted for alignment with said flow passages, the corresponding tapered surfaces of said plug and said bore both being metallic and tapered at small angles within the range of tapers normally causing a gripping and non-rotating action between metallic surfaces, a liner receivable between said surfaces of said plug and said bore and having flow passages matching said flow passages in said body, said liner being formed of plastic material having anti-frictional properties and capable of limited cold flow under pressure substantially in excess of the normal operating pressure and being press fitted by cold flow to have close sealing engagement with said bore and with said plug over substantially the entire inner and outer conical surfaces of said liner, said liner material also having the property of retaining said press fitted sealing engagement with said plug and said bore without cold flow in response to development of said normal pressure through axial pressure on said plug to establish said sealing engagement with said bore and said plug over said substantially entire inner and outer surfaces of said liner on both sides of said port and flow passages at said normal operating pressures, means for applying a predetermined axial pressure on said liner to retain the same in sealing relation within said body, and means for applying a predetermined axial pressure on said plug towards the small end thereof to maintain said normal pressure sealing engagement of said liner with said bore and said tapered plug surface while allowing for ready turning of said plug in sealing engagement with said liner.

2,713,988

### DRAWING VALVE FOR LIQUID CONTAINERS

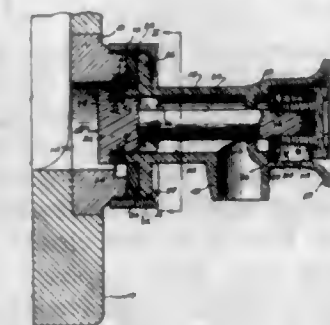
Donald M. Kitterman, Kansas City, Kans.

Application April 27, 1953, Serial No. 351,068

1 Claim. (Cl. 251—322)

In a valve assembly for a liquid container having an elongated tubular body provided with a longitudinal bore,

a discharge opening communicating with the bore intermediate its ends, an elongated, reciprocable stem within the bore, a valve seat on the body at one end of the bore, and a valve head on one end of the stem adapted to engage said seat for closing said one end of the bore when the stem is fully reciprocated toward the opposite end of the bore, means for closing the bore between the discharge opening and said opposite end of the bore comprising a shoulder on said stem facing the end of the stem adjacent said opposite end of the bore; a resilient, annular disc on the stem and disposed against said shoulder;



a knob having a sleeve portion rigidly mounted on the stem and tightly engaging a central portion of the disc to hold the latter rigidly against the shoulder, said sleeve being provided with an outturned flange at the extremity thereof remote from the disc; an internal shoulder in the bore between the discharge opening and said opposite end of the bore and facing the latter, said last-mentioned shoulder being adapted to receive an outer portion of the disc; and a spring compressed between the flange on the sleeve and said outer portion of the disc to bias the latter into tight engagement with said shoulder of the bore.

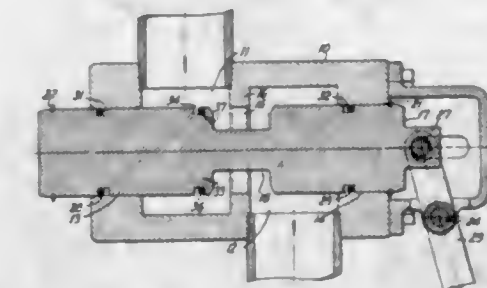
2,713,989

### VALVE CONSTRUCTION

Austin U. Bryant, Berkeley, Calif., assignor, by mesne assignments, to Grove Valve and Regulator Company, a corporation of California

Application January 22, 1948, Serial No. 3,728

13 Claims. (Cl. 251—324)



1. In a valve construction, an outer body member, an inner valve member, said members being relatively movable with respect to each other between open fluid flow and closed valve operating positions, one of said members being formed to provide a fluid pressure inflow passage for connection to a source of fluid under pressure and an outlet passage for connection to a low pressure system to which fluid is to be supplied, a portion of the body member providing an opening serving to connect the passages for open position of the valve, the inner member having a portion cooperating with said first named portion, said two portions having annular surfaces which are positioned in close proximity on an annular interface area, which generally surrounds said opening for closed position of the valve and which surfaces are displaced apart for open position of the valve, an annular recess formed in one of said portions and interrupting the corresponding annular surface of the same, said recess having a bottom surface extending generally in spaced



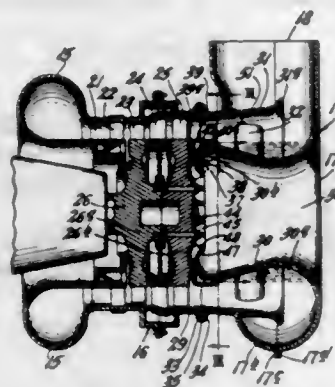
parallel relationship to said interface area and two opposed side faces which extend generally laterally with respect to the interface area, an O-type seal ring of resilient material loosely accommodated in said recess, said seal ring being dimensioned to be normally compressed across one diameter of its section between said bottom recess surface and the annular surface of the other portion to establish a seal between said portions when said members are in closed valve operating position with said annular surfaces in close proximity, differential fluid pressure between the inlet and outlet passages for closed valve position serving to compress the seal ring across a diameter of its section which is generally at right angles to said first named diameter and also serving to urge said ring into sealing engagement with one of said two side faces of the recess, means serving to vent that corner of said recess which is formed by intersection of the bottom surface with said one side face, to the outflow passage, when the valve is in closed position, and means for effecting relative movement between said members between full open fluid flow and closed valve operation positions, said seal ring being exposed for dislodgment from said recess during such relative movement and being held against such dislodgment by fluid pressure acting on the same in a direction to urge the seal ring toward said corner.

2,713,990

**EXHAUST STRUCTURE FOR GAS TURBINE**

Leon R. Wosika, San Diego, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California

Application December 21, 1948, Serial No. 66,532  
5 Claims. (Cl. 253-69)



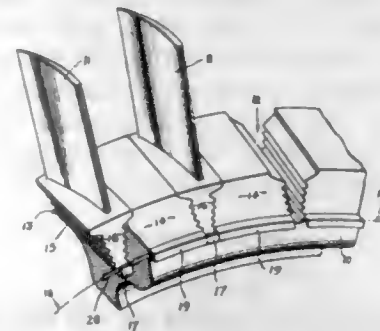
5. An exhaust structure for an axial flow gas turbine, compressor or the like comprising an exhaust duct defining an annular passage of progressively increasing area toward the discharge end; a rotor unit at the end remote from the discharge end of said duct supplying exhaust gases to said duct at sub-ambient pressure and appreciable rotational velocity which tends to cause said gases to stratify at the periphery of said duct; air injection means within said duct comprising an annular wall closely surrounding the inner wall of the exhaust duct at said end and a generally radially inwardly directed lip extending from said annular wall toward said rotor and into spaced overlapping relation to the inner wall of said duct to form an injection passage to inject air in the direction of flow of said exhaust gases and along the inner boundary of the annular passage defined by said duct; and a blower for supplying air to said air injection passage at a velocity substantially greater than the velocity of said exhaust gases whereby said air injection passage delivers high velocity air to said duct in the direction of flow of said exhaust gases to aspirate said exhaust gases inwardly and expand said exhaust gases to fill the exhaust duct, reduce the velocity of said exhaust gases, and increase the pressure of said exhaust thereby reducing the effective back pressure and obviating objectionable stratification of the exhaust gases.

2,713,991

**ROTOR BLADE LOCKING DEVICE**

Lloyd C. Secord, Toronto, Ontario, and Joseph Thompson Purvis, North York Township, York County, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation

Application May 5, 1951, Serial No. 224,744  
5 Claims. (Cl. 253-77)



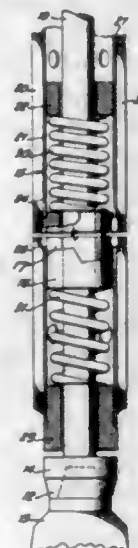
1. Fastening means for a blade of a rotary power conversion machine of the type having a blade supporting member and blades provided with blade root members, the said members each having an exposed end face and all the said faces being disposed generally in the same plane, the blade root members being in slidable relationship with the supporting member in a direction intersecting the said plane and in interlocking relationship with the supporting member in another direction whereby they are demountably secured to the supporting member, the said means preventing movement of the blades relative to the supporting member in the said first-mentioned direction and comprising a lip projecting from the exposed face of each of the blade root members and providing a groove having its open side facing in one sense of the said other direction, a second lip projecting from the exposed face of the supporting member and providing a groove having its open side facing in the other sense of the said other direction, the said grooves being in end-to-end registration, and a shear resistant member extending into both of said grooves.

2,713,992

**IMPACT DRILL**

Robert E. Snyder, Pasadena, Calif., assignor to Snyder Oil Tool Corporation, a corporation of California  
Continuation of application Serial No. 734,989, March 15, 1947. This application February 11, 1952, Serial No. 271,014

16 Claims. (Cl. 255-3)



1. An impact drill of the class described which includes: a rotatable shank having a bit-receiving portion thereon; a tubular hammer body concentrically mounted on said shank for reciprocation and rotation with respect thereto and provided with retarding means; an anvil rigidly connected to said shank below said hammer body to receive impacts from said hammer body; a driving cam

rigidly and concentrically connected to said shank for rotation therewith; a driven cam connected to said hammer body for rotation therewith and concentrically and slidably mounted on said shank for overriding said driving cam and impacting against the latter when said cams rotate with respect to one another, whereby said driven cam is reciprocated with respect to said shank, and said cam impact is transmitted by said shank to said bit; and resilient means coupling said hammer body and said driven cam for transmitting longitudinal movement of said driven cam through said resilient means to said hammer to reciprocate the latter and cause it to impact against said anvil.

2,713,993

**MINING BITS**

Elmer J. Huckshold, St. Louis, Mo., assignor to Central Mine Equipment Company, St. Louis, Mo., a corporation of Missouri

Application April 9, 1951, Serial No. 219,982  
1 Claim. (Cl. 255-324)

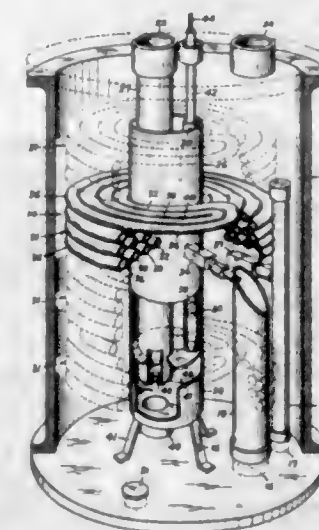


In a rotary cutting head of the type having a shank, a pair of axially-offset arms projecting from said shank and a pair of generally circular bits adjustably secured to said arms, said bits having front and rear faces; the improvement comprising said bits being fixed with their rear faces seated against said arms and with generally exposed front faces is opposed, overlapped and closely adjacent relationship to one another, said front faces also being divergent from one another in the direction toward said shank, and means adjacent said shank extending partially across said front faces of the bits, said front faces bearing on said means and, at a part of their overlapped area remote from said means, on one another.

2,713,994

**HEAT EXCHANGER**

Henry W. Angelery, Englewood, N. J.  
Application May 3, 1950, Serial No. 159,695  
5 Claims. (Cl. 257-2)



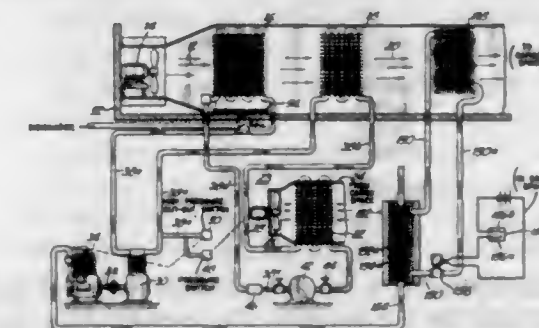
1. A heat exchanger comprising a tank for receiving liquid, a substantially vertical inlet tube having an open inner end within said tank to introduce cold liquid into said tank, an aspirator in said inlet tube for creating a zone of reduced pressure, an outlet to discharge liquid from said tank, a conduit spaced from said inlet

2,713,995

**AIR HEATING AND COOLING SYSTEM**

Fred G. Arkoosh and Gilbert E. Carpenter, Omaha, Nebr., assignors to Wilkinson Manufacturing Company, Omaha, Nebr., a corporation of Nebraska

Application May 14, 1951, Serial No. 226,262  
10 Claims. (Cl. 257-3)



10. A refrigeration and heating unit operable to heat or cool air flowing through a passage to a cargo space, comprising; upstream and downstream heat exchangers in said passage, each defining a path for refrigerant in thermal proximity to the air in the passage, a compressor having suction and discharge ports, a third heat exchanger thermally remote from said passage and defining a path for a refrigerant, means defining a closed path for refrigerant through the heat exchangers and compressor in series, the upstream heat exchanger of the pair being connected to the suction port of the compressor and the downstream heat exchanger being connected to the discharge port of the compressor, an expansion valve located in the intake side of said upstream heat exchanger, means operable in response to the discharge pressure of the compressor to supply coolant to the third heat exchanger when the discharge pressure exceeds a predetermined value, a fourth heat exchanger in the passage downstream of said upstream and downstream heat exchangers defining a path for flow of heat exchange fluid in thermal proximity to air in the passage, an internal combustion engine driving the compressor, a heater adapted to receive exhaust gases from said engine and having a passage for heat exchange fluid in thermal proximity to the exhaust gases, means defining a closed path for heat exchange fluid through said last passage and the passage in said fourth heat exchanger, a valve located at the intake side of said last passage, and thermostatic elements responsive to the temperature of the space operable to open the valve when the temperature falls below the value at which the coolant supplied to said third heat exchanger is discontinued.

2,713,996

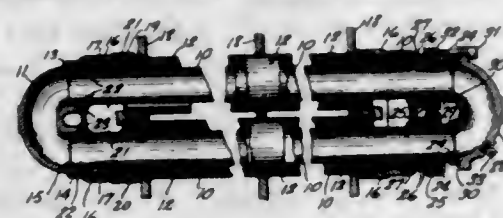
**HEAT EXCHANGER**

John E. Pottharst, Jr., New Orleans, La.  
Application October 23, 1952, Serial No. 316,481  
13 Claims. (Cl. 257-247)

1. A heat exchanger comprising, a plurality of concentrically mounted inner and outer tubes, connecting means between the ends of pairs of outer tubes, connecting means between the ends of pairs of inner tubes, threaded



means adjustable to produce relative axial movement between the inner and outer tubes to secure the outer tubes

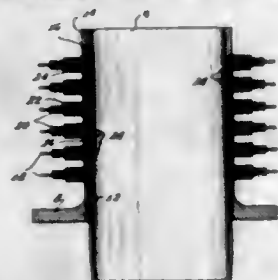


and the outer tube connecting means associated therewith in fluid tight relationship and to exert tension on said inner tubes.

2,713,997

**ENGINE COOLING FIN ASSEMBLY**

Glover E. Ruckstell, Los Angeles, Calif., assignor, by mesne assignments, to Ruckstell Corporation, Los Angeles, Calif., a corporation of California  
Application September 1, 1950, Serial No. 182,703  
3 Claims. (Cl. 257-262.16)

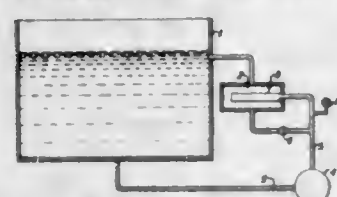


1. In combination, a hollow tubular metallic body and an annular cooling fin transversely surrounding said body and attached thereto in thermally conductive relationship, said cooling fin comprising three laminations of ferrous sheet material bonded together by copper, said copper covering the entire area of the mutually contacting surfaces of the laminations, a first of the laminations extending a greater distance from the body than the second and third of the laminations, said second and third laminations extending equal distances from the body and being on opposite sides of the first lamination, whereby the fin tapers from its narrowest width at its greatest distance from the body to its widest width adjacent the metallic body.

2,713,998

**MEANS FOR EMULSIFYING SIZING AND THE LIKE PRODUCTS**

Henri Elcken, known as Estienne, Lyon, France  
Application April 29, 1954, Serial No. 426,420  
Claims priority, application France May 18, 1953  
4 Claims. (Cl. 259-95)



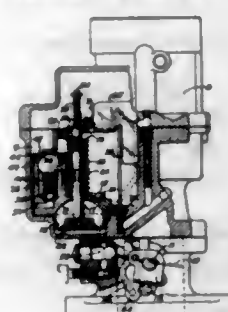
1. An arrangement for emulsifying a bath of a sizing product or the like, comprising a container for at least a part of the bath to be emulsified, a tube including a threaded section and a terminal frustoconical nozzle adjacent the threaded section and opening into the bath in the container through a slot with parallel sides, tongues closing the smaller ends of said slots, a nut screwed over the threaded section of the tube, an intermediate frustoconical ring engaged by the said nut for longitudinal motion therewith and fitted over said frustoconical nozzle to adjust the cross-sectional area of the slot in the latter in accordance with the relative longitudinal position of the ring with reference to the nozzle, means feeding a fraction of the bath to said nozzle through said tube to produce a jet through said slot, a plate immersed in the container in a plane registering substantially with the plane of the jet produced by said rectilinear slot of the

nozzle, said immersed plate being adapted to vibrate at supersonic frequency under the action of the jet the supersonic vibrations of the plate being transmitted to the surrounding part of the bath.

2,713,999

**SLOW CLOSING THROTTLE CHECK**

Leland B. Read, Normandy, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware  
Application December 3, 1951, Serial No. 259,609  
10 Claims. (Cl. 261-34)

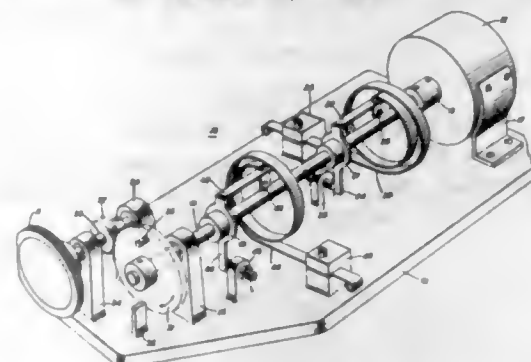


8. In a carburetor, a mixing tube, a throttle valve in said tube, a fuel bowl for supplying fuel to said mixing tube, a pump receiving fuel from said bowl, a linkage operatively connecting said throttle and said pump, a dash pot integral with said pump, receiving fuel from said bowl through an inlet and having a metering discharge passage, flexible fluid-tight means on said dash pot above said discharge passage, means on said throttle linkage for deforming said flexible means during throttle-closing action, means for restricting reverse flow through said inlet, and a piston for said dash pot below said discharge passage.

2,714,000

**SPRING RETURN MECHANISM**

Thomas J. O'Connor, Hanover, and Clayton H. Williams, Dover, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application December 31, 1953, Serial No. 401,599  
12 Claims. (Cl. 267-1)

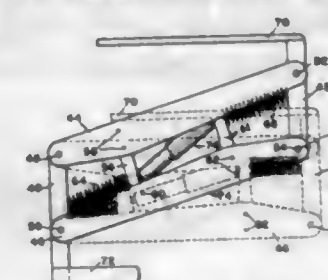


1. A spring return means for re-positioning an instrumentality, which has been positioned to either side of a neutral point under external influence, that comprises a shaft connected to said instrumentality, a frame for mounting the shaft, two collars mounted for free rotation on said shaft; spiral spring means, one associated with each collar with its inner end attached to the collar and its outer end adjustably anchored to the frame, one each of said springs being respectively for clockwise or counterclockwise return of said shaft; driving pins on said shaft for rotation therewith, one associated with each collar and its attached spring to impart clockwise windup to the counterclockwise return spring and counterclockwise windup to the clockwise return spring; a stop arm on each collar and adjustable stop members on the frame, one in the path of each stop arm, and located with respect thereto to prevent rotation of the clockwise return spring and its collar during the windup of the counterclockwise return spring and vice versa.

2,714,001

**RESILIENT SUPPORT**

Arthur J. Hersey, Minneapolis, and Kenneth J. Hersey, Hopkins, Minn.  
Application December 26, 1951, Serial No. 263,376  
4 Claims. (Cl. 267-20)

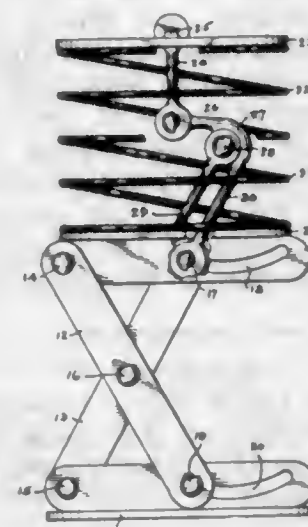


1. A support for connecting a load supporting member to a load carrying member comprising spaced apart substantially vertically extending posts, one of said posts connected to the load supporting member and the other post connected to the load carrying member, two pairs of spaced apart and substantially parallel bars pivotally connected to the posts, one pair of said bars positioned above the other pair of said bars, a member connected to and extending substantially downwardly from one of said pair of bars, a member connected to and extending upwardly from the other pair of parallel bars, and compressible means operatively connected to one of the said vertically extending posts and the downwardly extending member and between the other vertically extending post and the upwardly extending member.

2,714,002

**SPRING COMPENSATING DEVICE**

Rollin E. Taylor, Dayton, Ind.  
Application January 25, 1954, Serial No. 405,802  
3 Claims. (Cl. 267-20)



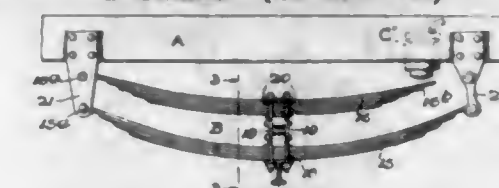
1. A spring construction comprising a supporting member; a lower member substantially parallel thereto; a lever hinged to the supporting member and extending diagonally downwardly thereunder; said lower member having a slot therethrough toward one end thereof; a bearing member carried by the lower portion of said lever and riding in said slot; a second lever hinged to said lower member substantially vertically under the hinge of the first lever to said supporting member; said second lever extending diagonally upwardly crossing said first lever; said supporting member having a slot therealong; a bearing member carried by the second lever and resting in said supporting member slot; said two levers being rockably interconnected at their mid points between their hinged axes and said bearing members; a spring having one end bearing on said supporting member; a bearing member at the other end of said spring; a lever rockably supported by said spring supporting member; one end of said last lever being rockably engaged with said second

lever slot bearing; and a link rockably inter-connecting the other end of said last lever with said other spring end bearing member.

2,714,003

**SPRING SUSPENSIONS FOR VEHICLES**

Nevin S. Focht, Garden City, N. Y.  
Application September 19, 1951, Serial No. 247,255  
2 Claims. (Cl. 267-45)

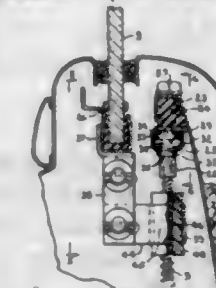


1. In a vehicle including a chassis and an axle, a leaf spring connected at its ends to said chassis and rigidly connected intermediate its ends to said axle, an auxiliary leaf spring overlying and spaced above said first mentioned leaf spring, a connection between one end of said auxiliary leaf spring and said chassis at a point fixed with respect to said chassis, a connection between said axle and said auxiliary leaf spring, and means rendering said auxiliary leaf spring ineffective to resist loads of predetermined weight and effective to resist loads in excess of said predetermined weight imposed on said chassis, the connection between said auxiliary leaf spring and said axle being rigid longitudinally with respect to the vehicle so that said auxiliary leaf spring acts as a radius rod to limit longitudinal movement of said axle relative to said chassis, the connection between said auxiliary leaf spring and said axle additionally being flexible transversely with respect to the vehicle so that the axle may tilt vertically relative to the chassis in a plane including the longitudinal axis of the axle without imposing torque upon said auxiliary leaf spring.

2,714,004

**WINDOW LIFT ASSEMBLY**

Ralph H. Wise, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana  
Application May 11, 1953, Serial No. 354,191  
1 Claim. (Cl. 268-133)



In a lift assembly for a vehicle window, the window being retractable into a vehicle door or the like and having a lower marginal edge enclosed in a supporting channel, an elongated member carried by said door and having a peripheral helical screw thread, means for rotating said member, and thread-engaging means encompassing a peripheral portion of said member and movable axially thereof as said member is rotated, the improvements which comprise a bracket secured to said channel, rigid supporting means carrying said thread-engaging means, and an elastomeric block interposed between said bracket and said means to provide a resiliently distortable connection therebetween.

2,714,005

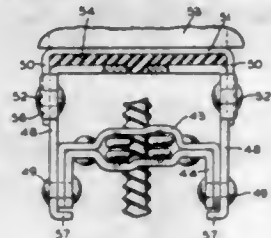
**MOTION TRANSMITTING DEVICE**

Ralph H. Wise, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana  
Application September 28, 1953, Serial No. 385,002  
21 Claims. (Cl. 268-133)

10. In a device of the class described, driving and driven members disposed for relative rotational and lon-



itudinal movement, one of said members having a periphery forming a helical thread having an appreciable longitudinal lead, the other of said members comprising a carrier encompassing a portion of said thread, and a plurality of thread-engaging elements retained by said carrier and freely rotatable relative thereto about separate axes respectively substantially parallel to the axis of said

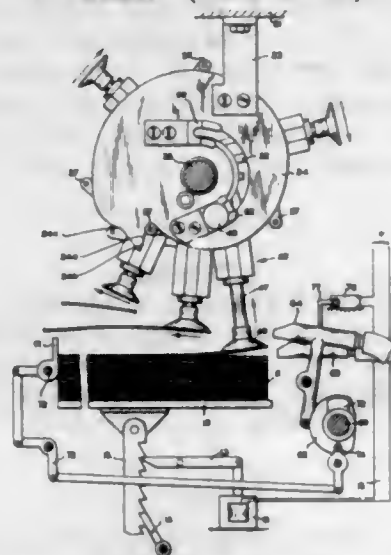


one member, said elements being grouped peripherally about said one member and having thread-engaging portions contacting said one member, said elements each having a toroidal thread-engaging peripheral contour substantially mating with, but smaller than, the thread contour of said one member, so that the convex exterior surface of said elements and the thread surfaces are in only point-to-point contact.

2,714,006

## SHEET FEEDER

Paul W. Layden, Salem, Ohio  
Application April 11, 1951, Serial No. 220,375  
12 Claims. (Cl. 271-28)



6. In a sheet feeder having a plurality of telescoping suckers each having a plunger mounting a suction cup at its outer free end and operative automatically in response to the application of suction to impart an outward movement to said plunger and cup until said cup is closed by impingement on a sheet after which the plunger and cup are retracted, a carrier for moving said suckers laterally and in one direction only onto a pile of sheets from over one edge thereof with the cups thereof directed to the top surfaces of the sheets of the pile, means associated with said carrier to move said suckers through a predetermined pattern of movement wherein each of said cups have the lateral movement thereof arrested independently of the other cups for a predetermined interval of time while it moves into impingement with the sheet and retracts the sheet upwardly, and means to apply suction to said suckers during a predetermined portion of the pattern of movement of the successive suckers.

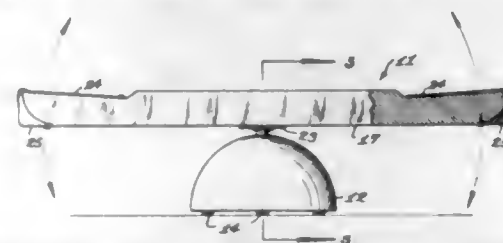
2,714,007

## EXERCISING DEVICE

Samuel Lightfoot Jordan, Montgomery, Ala.  
Application August 10, 1951, Serial No. 241,205  
1 Claim. (Cl. 272-57)

In an exercising device, a substantially hemispherical base disposed to rest with its flat side on a supporting sur-

face, a post projecting upwardly from the rounded top of the base and secured rigidly thereto, a bearing ball on the upper end of the post formed integrally therewith, a treadle bar of a length for the outer ends thereof to extend outwardly past the vertically projected confines of the base and for the lower surfaces of said outer ends to engage the supporting surface without engaging the base, there being a socket on the underside of said treadle bar



at the longitudinal mid-point thereof in which said ball fits thereby supporting the treadle bar for universal rotation about the ball, inwardly sloping flat surfaces on the upper surfaces of the treadle bar at the ends thereof disposed to receive the feet of a person using the device, and pads of resilient material secured under the outer ends of the treadle bar and disposed to cushion the engagement of the ends of the treadle bar with the supporting surface.

2,714,008

## EXERCISERS

Anthony B. Urban, Chicago, Ill.  
Application June 5, 1953, Serial No. 359,679  
2 Claims. (Cl. 272-83)

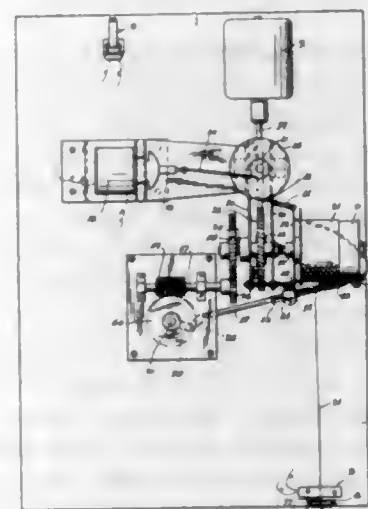


1. An exerciser comprising an elongated bar formed of two sections separated endwise, handles carried by the outer ends of the sections, and tension means between the sections designed to resist manual effort to swing the sections at an angle from each other, said tension means comprising a coil spring with ends applied to the inner ends of said sections, the same having cavities in the facing ends, an internal coil spring extending within the first-mentioned coil spring, the end portions of the internal coil spring loading in said cavities, and means to secure said end portions to the respective sections.

2,714,009

## TETHERED GOLF BALL APPARATUS

Barton H. Noland, Hollywood, Md.  
Application June 20, 1952, Serial No. 294,592  
13 Claims. (Cl. 273-200)



1. A tethered-ball apparatus comprising a golf ball, a retrieving line to the end of which the ball is attached, a drum upon which said line is wound, means for mount-

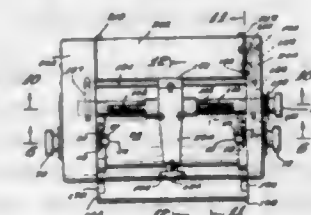
ing the drum for bodily movement between a paying-off position in which the axis is substantially aligned with the direction of ball propulsion and a rewinding position at right angles thereto, a motor for rotating the drum on its axis, and a clutch between the motor and drum to allow disconnection when the drum moves into the paying-off position.

2,714,010

## MAGNETIC TRANSDUCING UNIT

Morris M. Gruber, New York, N. Y., and George J. Saliba, Englewood, N. J., assignors to Presto Recording Corporation, Paramus, N. J., a corporation of New York

Application July 7, 1948, Serial No. 37,324  
12 Claims. (Cl. 274-4)



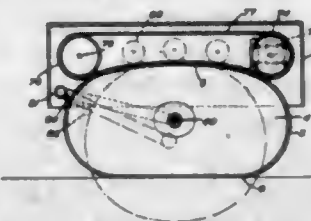
1. A lead screw system for a magnetic transducer apparatus comprising a cylindrical magnetic record medium, a magnetic head, a lead screw extending collaterally of the cylinder for moving the head along the cylinder, means to drive said cylinder and said lead screw, means on said head engaging said lead screw, said head being oscillatable about said lead screw to raise or lower the same relative to the cylinder, arms at the ends of said apparatus oscillatable about the axis of the lead screw, a rod extending rigidly between said arms and offset from said lead screw, means on said head slidably encompassing the rod, and means for controlling the position of said rod and consequently for positively raising or lowering said head.

10. Transducing apparatus comprising a drum dimensioned to releasably receive a rectangular flexible magnetic sheet therearound, the length of the sheet being greater than the circumference of the drum, so that the ends of the sheet overlap, stationary stop means on said drum near the ends of said drum for accurately and reproducibly locating the starting edge of the sheet on the drum, said stops being spaced apart an amount less than the width of the sheet in order to engage the starting edge of the sheet, clamp means at the ends of said drum for readily releasably holding both ends of the sheet against the drum, the surface of the drum between said locating means and between said clamp means at the ends of the drum being smooth and clear, a magnetic transducing head, means for rotating said drum relative to said head, and means for relatively moving said head and drum axially.

2,714,011

## LAND VEHICLE OR LOAD-MOVING DEVICE COMPRISING A FLEXIBLE-WALLED, FLUID-CONTAINING, PERIPHERALLY-LOADED ROLLER

William H. Albee, Carmel, Calif.  
Application January 7, 1952, Serial No. 265,296  
16 Claims. (Cl. 280-1)



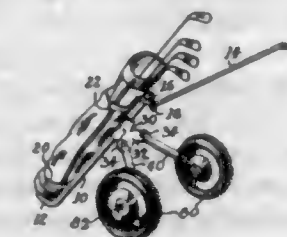
4. A load-moving device comprising an axially elongated, flexible-walled, fluid-distensible roller for supporting a load applied to its outer surface and, in journaled relation thereto, a load-sustaining structure and revoluble

means journaled on said structure and running upon the outer surface of said roller for applying the force of the load to the roller.

2,714,012

## FOLDING GOLF CART

Bernard A. Berger, Westmount, Quebec, Canada  
Application September 4, 1953, Serial No. 378,601  
7 Claims. (Cl. 280-40)

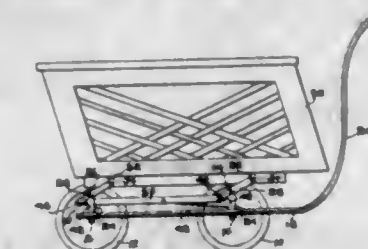


1. A foldable golf cart comprising in combination, a main elongated supporting member, leg supporting plates extending from said member, a pair of supporting legs each including an outer member and an inner member slidably mounted within said outer member, said outer members being pivotally connected to said leg supporting plates and said inner members each being pivotally connected to one of a pair of wheel supporting members, a pair of wheels mounted for rotation on said wheel supporting members, said leg supporting plates and wheel supporting members being provided with cam surfaces including detent recesses, detent means within each of said supporting legs inner and outer members adjacent each end adapted to engage with said respective cam surface recesses, and control means for releasing said supporting leg detent means.

2,714,013

## MULTIPLE FULCRUM CARRIAGE FOR INFANTS

George E. O'Hearn, Gardner, Mass.  
Application June 3, 1953, Serial No. 359,410  
2 Claims. (Cl. 280-47.41)



1. Child's vehicle comprising a frame, front and rear wheels thereon, spaced pairs of forward and rearward uprights on the frame, a link pivoted to each upright for extended, aligned condition on each respective upright, or selectively for inclined, semi-folded condition thereon, a carriage body pivotally secured to the links and being movable therewith between an upward, forward position and a rearward down position relative to the frame, stop means to prevent excessive forward and rearward motion of the carriage body, resilient means cushioning the downward motion of the carriage body and returning the same to upward, forward position, said links forming multiple fulcrums for the carriage body.

2,714,014

## AXLE LOAD EQUALIZING ASSEMBLY

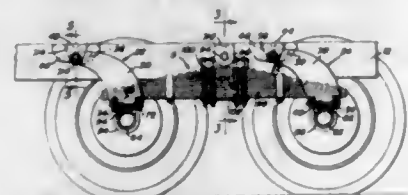
Van L. Frazier, Springfield, Mo., assignor to Frazier Tandem Systems, Inc., Springfield, Mo., a corporation of Missouri

Application October 15, 1951, Serial No. 251,373  
7 Claims. (Cl. 280-104.5)

1. An axle load equalizing assembly comprising forward and rear stabilizer arms adapted to be fixed to forward and rear parallel axles, spring seats forming part of

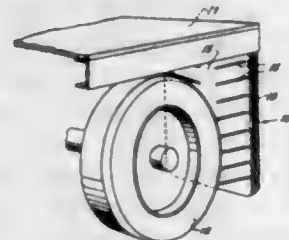


said arms for disposition directly above the axles to which the stabilizer arms are adapted to be fixed, a leaf spring extending between said arms and terminally slidably seated on said spring seats, forward and rear brackets adapted to be mounted on a frame in front of said arms, upper pitmans connecting the arms to the brackets, lower



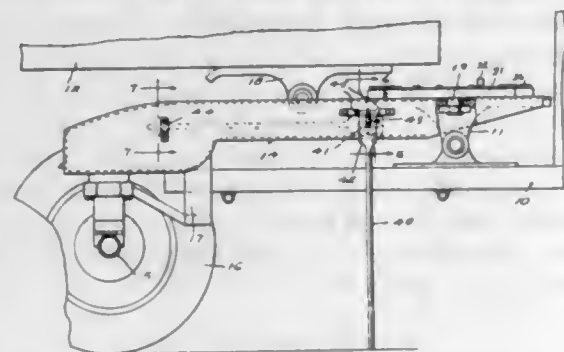
pitmans also connecting the arms to the brackets and paralleling the upper pitmans, and a mounting bracket disposed between and spaced from the rear bracket and the forward arm and pivotally supporting the spring and adapted for attachment to the frame supporting the forward and rear brackets.

**2,714,015**  
**SPLASH GUARD FOR VEHICLE WHEELS**  
Chester E. Sherman, Dallas, Tex.  
Application July 19, 1954, Serial No. 444,023  
5 Claims. (Cl. 280—154.5)



1. As a new article of manufacture, a splash guard for a vehicle wheel comprising a rubber sheet of substantially rectangular shape, a rib coextensively parallel with and adjacent to each longitudinal edge of said sheet on the surface thereof confronting said wheel, and a plurality of longitudinally spaced inclined ribs on said surface and directed downwardly toward a blank intermediate portion of said sheet, said longitudinal and inclined ribs defining baffles effective to constrain slush thrown against said sheet by said wheel to flow inwardly into said intermediate portion and downwardly thereon for discharge at the bottom of said sheet.

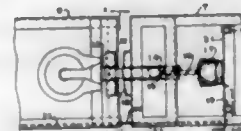
**2,714,016**  
**TANDEM TRAILER DOLLY WITH ADJUSTABLE KING PIN**  
Otho W. Smith, Bedford, Ind.  
Application March 29, 1954, Serial No. 419,503  
3 Claims. (Cl. 280—418)



1. A dolly construction for interposing an auxiliary axle between a tractor and trailer, comprising a frame of substantially L-shape having a horizontal side and a vertical depending side, an axle carried by said vertical side, wheels on said axle, a fifth wheel member carried by said horizontal side between the ends thereof, a king pin adapted for connection with the fifth wheel of the tractor, a longitudinally extending guide carried by said horizontal side of said frame, a plate fixed to

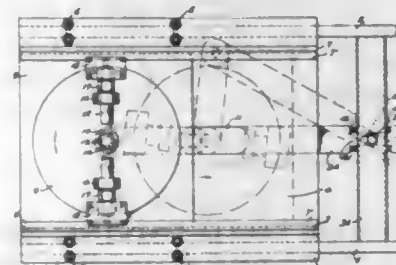
said king pin and engaging said guide, locking means carried by said plate, and a keeper plate engaging said guide and immovable relative thereto for association with said locking means on said first named plate for locking said first named plate in longitudinally adjusted position.

**2,714,017**  
**ANTI-JACKKNIFE DEVICE FOR HALF-TANDEM OF SEMI-TRAILER**  
Charles E. Mendez, Tampa, Fla.  
Application September 6, 1951, Serial No. 245,303  
1 Claim. (Cl. 280—432)



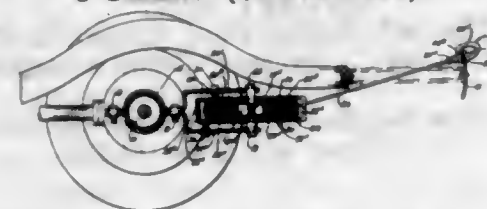
In combination with a tractor including a chassis having front and rear wheels, a fifth wheel on the chassis adjacent the rear end thereof, a half-tandem frame having a forward extension pivotally connected to said fifth wheel and provided with a trailing axle supported by wheels, the rear end of said chassis being provided with a bumper plate at the center of which is disposed a channel member having opposed vertical side walls, a channel member supported by the half-tandem frame and having vertical side walls longitudinally aligned with the side walls of said first channel member when the rear tractor wheels and the said wheels supporting the half-tandem frame are longitudinally aligned, a bolt supported in said last channel member for longitudinal sliding movement thereon and for vertical angular movement along the side walls, a coil spring engaged with said bolt for normally retracting same into said last channel member, and a pneumatic cylinder supported by said half-tandem frame and operatively engaged with said bolt for moving same into said first channel member when said tractor and half-tandem frame wheels are aligned for retaining such alignment to facilitate backing of the tractor and attached half-tandem frame.

**2,714,018**  
**TRACTOR TRAILER CONNECTION DEVICE FOR PROVIDING TURNING CLEARANCE THERE-BETWEEN**  
Jesse Colpo, Orchard Park, N. Y.  
Application July 21, 1953, Serial No. 369,447  
10 Claims. (Cl. 280—438)



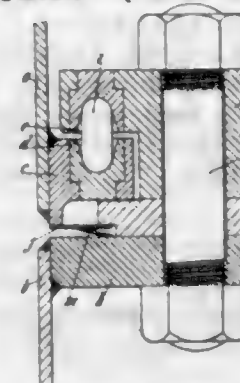
1. A tractor-trailer connection device comprising, in combination with a tractor unit, a first member mounted on said tractor unit for movement longitudinally thereof, a second member carried by said first member for movement therewith longitudinally of said tractor unit and arranged for rotation relative to said first member, trailing vehicle attaching means carried by said second member for movement therewith, and articulated arm means including a first part connected to said second member for movement therewith and a second part pivotally connected to said first part and to said tractor unit at a point spaced rearwardly of its connection to said first part for moving said first and second members longitudinally of said tractor unit automatically upon relative rotation between said first member and said second member.

**2,714,019**  
**AUTO TOW CABLE**  
John L. Williams and Walter F. Ritcheson,  
Memphis, Tenn.  
Application March 26, 1952, Serial No. 278,658  
3 Claims. (Cl. 280—480)



1. Automobile tow cable means, comprising a yoke having horizontally disposed upper and lower arms, a vertical shaft carried by said arms, a casing oscillatably mounted on said vertical shaft, a cable, a reel housed in said casing and carrying said cable, said reel being journaled on said shaft for rotation in a horizontal plane for extension and retraction of said cable, said casing having a tangential aperture remote from said yoke for movement of said cable to and from said casing, stop lugs mounted on said casing and positioned in the plane of said yoke arms, said lugs being radially spaced apart and respectively disposed to engage said yoke under casing oscillation to limit said oscillation against opposite overtravel, the oscillatable mounting of said casing permitting shift of said casing in the plane of rotation of said reel to align said tangential opening with an object engaged by said cable, whereby pull along said cable is transmitted along a line substantially tangent to said reel and casing, and means for rigidly fixing said yoke to an automobile.

**2,714,020**  
**FLEXIBLE PIPE JOINTS**  
Henry George Yates, Riding Mill, England, assignor to  
The Parsons and Marine Engineering Turbine Research  
and Development Association, Wallsend, England  
Application October 19, 1951, Serial No. 252,038  
Claims priority, application Great Britain August 2, 1951  
3 Claims. (Cl. 285—90)

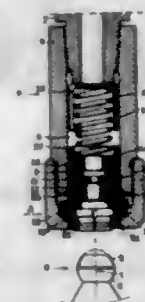


1. A pipe joint comprising a flange on one end of each of two adjacent pipe lengths, a clamping ring, a seat ring, a plurality of bolts and nuts clamping said seat ring between said clamping ring and one of said flanges, said latter flange, said seat ring and said ring together loosely straddling the other of said flanges so as to provide axial clearance between said seat ring and said other flange, a plurality of sockets in said other flange individually in register with a plurality of sockets in said clamping ring, a compression pin interposed between each pair of opposing sockets and a flexible flat sealing ring engaging said seat ring and the end of one of said pipe lengths.

**2,714,021**  
**PRESSURE-LUBRICATING DEVICES**  
Oscar Froidevaux, Antony, France, assignor to Société  
so-called: Tecalemit, Société Anonyme, Paris, France  
Application March 19, 1951, Serial No. 216,302  
Claims priority, application France March 21, 1950  
3 Claims. (Cl. 285—168)

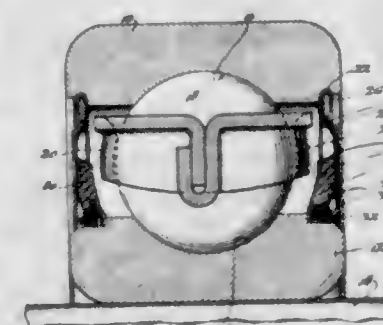
1. A coupler for connecting a source of lubricant under pressure with a fitting of the type comprising a head

having a frustoconical upper half and a spherical lower half, said coupler comprising a coupling socket having a predetermined inner diameter, formed with a constricted front aperture and an internally-threaded rear aperture, gripping jaws located in said socket formed with front end portions engaging the edge of said constricted front aperture of said socket, said jaws being disposed ringwise and having a flat rear surface, a cup member of a diameter substantially smaller than the inner diameter of said coupling socket, having a flat front surface engaging said flat rear surface of said gripping jaws projecting with its outer periphery radially from said flat rear surface of said jaws, being adapted to slide radially in relation to and within said coupling socket, and having a flat rear surface and a central hole of circular contour therein, the profile of said hole being adapted to fit in fluid-tight relationship on said frustoconical upper half of said fitting head, a substantially cylindrical adaptor having a smaller inner diameter than said cup member, said



adaptor having its front end screwed in said internally-threaded rear aperture of said coupling socket and its rear end adapted to be connected with the source of lubricant under pressure, a sleeve mounted for longitudinal sliding movement in said coupling socket, formed with a flat front end engaging said flat rear surface of said cup member and permitting the radial sliding movements thereof in said coupling socket, a resilient tubular gasket engaging through its outer cylindrical wall the inner wall of said sleeve, the front end surface of said gasket engaging with its outer marginal portion the inner marginal portion of the rear surface of said cup member and with its inner marginal portion the fitting head, and means mounted in said adaptor, behind said sleeve and said resilient tubular gasket to provide a seal between said adaptor, said sleeve and said resilient tubular gasket during the periods in which compressed lubricant is admitted through the coupler, and to urge said sleeve and said resilient tubular gasket forwards, against said cup member and gripping jaws, outside said periods.

**2,714,022**  
**SEAL FOR ANTI-FRICTION BEARINGS**  
Charles Nelson, Jr., Chicago, Ill., assignor to Ahlberg  
Bearing Company, Chicago, Ill., a corporation of  
Illinois  
Application August 19, 1950, Serial No. 180,437  
4 Claims. (Cl. 286—5)



1. A seal for an anti-friction bearing assembly having spaced relatively rotatable inner and outer raceways comprising an annular closure plate secured in the outer raceway and having a cylindrical flange at its inner edge, a supporting ring secured to the inner raceway, said support-



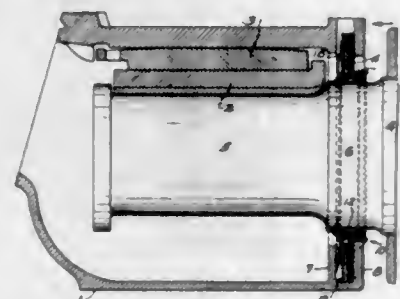
ing ring having a flanged portion extending around and substantially parallel to the flange portion of the closure plate, and a lubricant sealing member secured to the outer surface of the flange of the supporting ring, said sealing member when unstressed being in the shape of the frustum of a hollow right circular cone the surfaces of which have parallel generating lines, said sealing member being made of a lubricant resistant synthetic rubberlike material which is flexible and elastic and which is deformed to engage the inner surface of the closure plate throughout a substantial area.

2,714,023

## DUST GUARD AND OIL SEAL

James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware

Application August 9, 1951, Serial No. 241,016  
6 Claims. (Cl. 286—6)

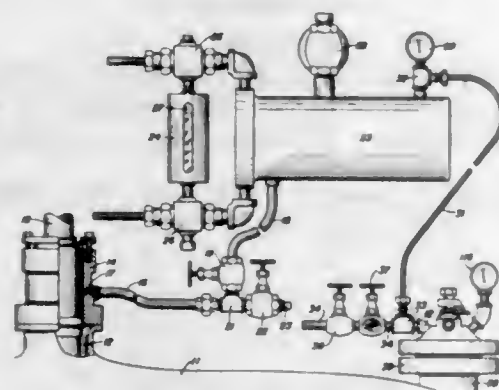


1. In a railway axle box oil retainer and dust guard, a ring-like part of flexible material with an intumed rim having an aperture to snugly receive a portion of an axle, there being a sleeve projecting lengthwise from said rim axially of said aperture and spaced radially from the inner periphery of said aperture, there being a retainer of relatively unyielding material surrounding said rim to limit the distortion of its aperture periphery, and an annular disc-like part spaced from said retainer and having an aperture of less diameter than said sleeve, surrounding and compressing the sleeve and extending radially therefrom to engage a wall of a journal box dust guard pocket.

2,714,024

## APPARATUS FOR LUBRICATING AND SEALING A STUFFING BOX

Otto W. Greene, Rochester, N. Y., assignor to The Pfaudler Company, a corporation of New York  
Application April 1, 1949, Serial No. 84,908  
13 Claims. (Cl. 286—9)



1. In a reactor wherein an agitator shaft extends into the reactor and is provided with a stuffing box, in combination, a chamber containing a lubricant under pressure, means for supplying lubricant from said chamber under a pressure above atmospheric to the stuffing box, means for maintaining the lubricant under a pressure above that of the reactor comprising a diaphragm exposed on one of its sides to reactor pressure and on its other side to a counterbalance pressure above that of the reactor, said latter means including a source of inert fluid under a pressure above that of the reactor, and

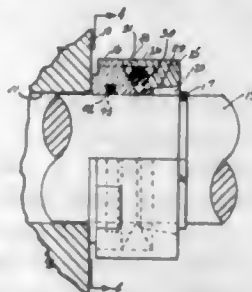
means including a connection between said other side of the diaphragm and said chamber for exposing the lubricant in said chamber to said counterbalance pressure.

2,714,025

## ROTARY SEAL

August H. Heinrich, Euclid, Ohio, assignor to Metal Seal & Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application October 24, 1952, Serial No. 316,701  
6 Claims. (Cl. 286—11.15)



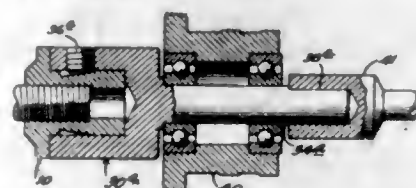
1. In a fluid seal for a shaft rotatably extending through a fluid housing wall the combination comprising, a radially flexible annular driving member loosely disposed about the shaft in axial spaced relation from the housing wall and adapted to be clamped against the shaft for rotation therewith, stop means on the shaft for limiting the axial separation of said driving member from the housing wall, a pair of annular sealing members surrounding the shaft intermediate the housing wall and the stop means on the shaft, means coacting between the driving member and the adjacent sealing member in response to an axial force acting against said sealing member to clamp the radially flexible driving member against the shaft, and tension means coacting in compressed relation between said annular sealing members to exert an axial force in opposite directions against the respective sealing members, thereby providing a fluid seal between the shaft and the fluid housing.

2,714,026

## ROTATING TOOL CONNECTOR

George E. Schultz, Chicago, Ill., assignor to R. C. S. Engineering Corp.

Application August 3, 1954, Serial No. 447,593  
6 Claims. (Cl. 287—2)



1. An interchangeable connector for power driven tools having a drive shaft comprising, in combination, a spindle having a central bore and a slotted head, means in the bore of the spindle for attachment to the power tool drive shaft, a cup adapted to fit snugly over the body of the spindle, a tooth on the cup which rests within the spindle head slot, means for securing the cup against longitudinal displacement along the spindle, and a drive shaft extending from the closed end of the cup coaxial with the power tool drive shaft.

2,714,027

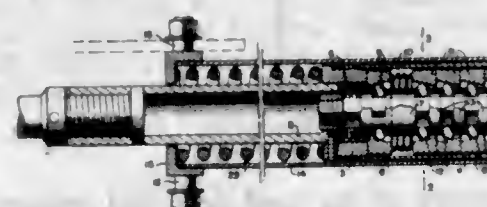
## LINK OF ADJUSTABLE LENGTH, PARTICULARLY FOR USE AS AN ADJUSTOR

Jean Bouvat-Martin, Paris, France, assignor to Societe Generale Isothermos, Paris, France

Application September 20, 1949, Serial No. 116,769  
5 Claims. (Cl. 287—58)

1. A link of adjustable length, namely for use as an adjustor, said link comprising a tubular rod having a forward end, a cylindrical hollow body rigidly secured to

said forward end and coaxial with the tubular rod, said hollow body having a rearward bottom and a forward circular inwardly turned flange encircling a large circular axial aperture of said hollow body, a prismatic rod having a head slidably engaged in the tubular rod and extending, axially in the hollow body and outwardly through the circular aperture of the hollow body, a roller guiding cage, slidably mounted around the prismatic rod and carrying rollers in engagement with the face of the prismatic rod, a sloping race slidably mounted in the hollow body, opposite said rollers and having inner forwardly diverging faces engageable with the rollers, a first spring bearing on the forward end of said tubular rod and urging the roller guiding cage forwards, a plurality of spaced apart spacing rings, slidably mounted around the prismatic rod, on the forward side of the roller guiding cage, a set of rollers in engagement with the faces of the prismatic rod, in each of the spaces between said spacing rings, lock races slidably mounted in the hollow body, each opposite to one of the sets of rollers and having inner rearwardly diverging faces engageable with the rollers of said sets, a second spring located in the hollow body between the



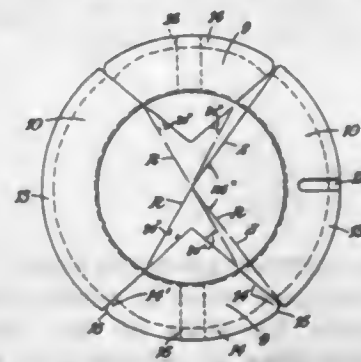
bottom of said hollow body and the lock races and urging said lock races away from said sloping race, a sheath having an apertured bottom slidably engaged around the tubular rod and having a forward circular edge extending beyond the circular inwardly turned flange of the hollow body, a sleeve rigid with said forward circular edge, the prismatic rod extending axially in and protruding forwardly beyond the sleeve, the sleeve having a rearwardly projecting tubular extension facing the lock races, a coil spring mounted inside the sheath, around the tubular rod and having a forward end bearing on the bottom of the hollow body and a rearward end pushing the bottom of the sheath rearwardly in respect to the hollow body and urging the rearwardly projecting tubular extension of the sleeve against the lock races, telescopic resilient means mounted in the sleeve around the prismatic rod, protruding rearwardly of the tubular extension and engaging a set of the rollers of the lock races and binding means mounted in the sleeve, around the prismatic rod and resisting any rearward sliding movement of the sleeve along the prismatic rod.

2,714,028

## SEALING AND PACKING RINGS

Percy Edward Lyddon, Croydon, Surrey, England, assignor to Morganite Incorporated, Long Island City, N. Y., a corporation of New York

Application July 29, 1953, Serial No. 371,000  
9 Claims. (Cl. 288—13)



1. An annular packing for use in a gland box around a reciprocating rod, said packing comprising two oppo-

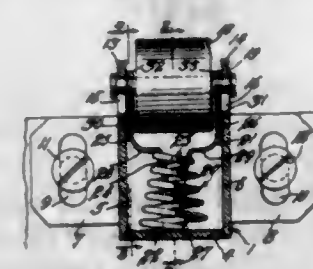
696 O. G.—38

2,714,029

## ROLLER CATCH

Morris Loeb, New York, N. Y.

Application December 7, 1954, Serial No. 473,571  
8 Claims. (Cl. 292—71)



1. In a roller catch, the combination of a bracket having a base and a four-sided enclosure, two of said sides extending beyond the other two sides and having slots near their free ends, a shaft extending through said slots, a yieldable roller on said shaft disposed between said latter two sides, a fork having a yoke which has two parallel arms and a shank, the free ends of said two arms being bifurcated to receive said shaft inside of said latter two sides, said shank being tapered to a diminished end at its free end, and a coil spring receiving said shank and tensed between said yoke and said base.

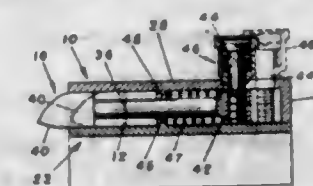
2,714,030

## LOCKING DEVICE

James Gardner, Alameda, Calif.

Application July 3, 1953, Serial No. 366,080  
4 Claims. (Cl. 292—178)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a locking device a housing having therein a longitudinally extending hollow channel open at one end and a longitudinal slot communicating with said channel near the opposite end thereof, said slot having an enlarged portion at one end, a bolt adapted for slidable movement within said channel and having a tongue at one end adapted to extend beyond the open end of said channel to a latching position, a pin member fastened at one end thereof to the other end of said bolt and positioned with its axis normal to the axis of said bolt, said pin member extending through said slot externally of said housing, a cover member encircling and in slidable engagement with the portion of said pin member external of said housing, said cover member having a shoulder adapted to rest within the enlarged portion of said slot to retain said bolt in the latching position, a first spring means for urging



said bolt and said pin member toward said opposite end of said housing to an unlatching position, a second spring means for urging the shoulder of said cover member into engagement within the enlarged portion of said slot, and means associated with said shoulder and said enlarged slot portion to facilitate automatic disengagement of the shoulder and the slot and allow movement of said pin member from said enlarged portion of said slot to the opposite end thereof on the application of a predetermined force against the extended tongue of said bolt whereby the bolt is actuated to the unlatching position.

2,714,031

**INLAY OF HANDBAG FRAME**

Thomas Friedman, Brooklyn, N. Y., assignor to Ideal Handbag Frame Mfg. Corp., Brooklyn, N. Y.  
Application April 27, 1953, Serial No. 351,379  
1 Claim. (Cl. 292—228)



In a handbag frame having an elongated opening along one frame element and a catch along another frame element opposite said elongated opening, an inlay consisting of two metal layers integrally connected along one of its longitudinal edges, one of said metal layers having lugs projecting substantially perpendicularly from said metal layers, the said inlay being inserted in the elongated opening of said one frame element and said lugs engaging the outer face of said one frame element to limit the insertion of said inlay in said elongated opening, a substantially L-shaped spring, one arm of said spring being secured and frictionally held between said metal layers adjacent said integrally connected longitudinal edges of the latter and the free end of the other arm of said L-shaped spring engaging the inner face of said one frame element to permit a torsion effect of said one arm of the spring upon angular rotation of said inlay, and a knob attached at its bottom face to said inlay, said knob having a groove at its bottom face opposite said catch in the closed position of said frame, and said groove being adapted to receive said catch in the closed position of the handbag frame, and, thereby, to retain said frame elements in closed position.

2,714,032

**LATCH FASTENER**

J Mills Summers, Englewood, N. J., assignor to Camloc Fastener Corporation, Paramus, N. J., a corporation of New York  
Application November 24, 1954, Serial No. 471,059  
11 Claims. (Cl. 292—247)



1. A latch fastener for drawing two bodies together and for securing them in rigid relationship against shear and tension loads, said fastener comprising two assembly units, one secured to each of said bodies, each assembly unit including a frame, a draw bolt pivotally mounted in one frame and constituting a bail-type hook with a loop at its outer end, the frame having aligned slots on their upper faces to receive the intermediate portion of

the draw bolt when the fastener is locked, a longitudinally adjustable shear pin assembly slidably mounted in the second frame and comprising a shear pin, a bolt having a transverse detent to receive the loop and having a forward threaded extension which is received by the shear pin, a draw bolt lever pivoted at one end in the first frame, the draw bolt pivot connecting the draw bolt with the lever intermediate its ends, said lever being movable to a below center position with a toggle action to lock the fastener with the shear pin in forward position.

2,714,033

**LOCKING DEVICE FOR WINDOWS**

Lawrence P. Lewgoud, Gary, Ind.  
Application February 23, 1952, Serial No. 273,066  
1 Claim. (Cl. 292—305)

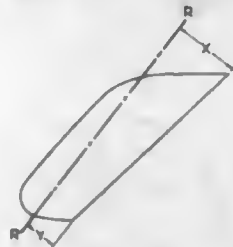


A locking device of the kind described comprising a first fitting having a rearwardly extending horizontal leg and a depending leg, a rod secured in an upstanding position to the free end of the horizontal leg, a hole provided in one of the legs so that fastening means can be inserted through the hole for securing the fitting to the upper part of a lower window sash, a second fitting having an upwardly extending leg and an outwardly extending leg respectively disposed in parallel relation to the depending and rearwardly extending legs of the first fitting, said outwardly extending leg being provided with an opening through which the rod slides, a hole provided in the upwardly extending leg of the second fitting through which means can be inserted to secure this fitting in place on the side rail of an upper sash, said last mentioned hole being placed in back of the rod so that a securing means extending therethrough cannot be removed when the rod is in front thereof, said forwardly extending leg of the second fitting being provided with a threaded aperture extending endwise into the leg, and a screw seated in the aperture and engageable with the rod for locking the second fitting on the rod.

2,714,034

**AIR-NOISE ELIMINATING AUTOMOBILE VENT WING WINDOW**

Donald J. Schrum, South Bend, Ind., assignor, by mesne assignments, to Studebaker-Packard Corporation, a corporation of Michigan  
Application August 31, 1951, Serial No. 244,532  
13 Claims. (Cl. 296—44)



4. In a vehicle wherein, upon movement of the vehicle through air, air pressure areas of varying magnitude are established adjacent the sides of the vehicle, the air pressure areas including a vacuum and zero pressure area immediately adjacent the side window portions of the vehicle and extending from adjacent the lower edge

of the side windows upwardly and outwardly and defining a generally triangular area, an area of relatively slow moving air immediately outwardly of the vacuum and zero pressure area and an area of fast moving air outwardly of the area of slow moving air; a vent wing window comprising a window pane adapted to be pivotally mounted on the vehicle at the side thereof for movement of the portions of said pane rearwardly of its pivotal axis to the exterior of the vehicle, the pivotal axis and the trailing edge of said pane being inclined with respect to one another and converging toward the lower edge of said pane, the distance between the trailing edge and the pivotal axis of said pane at the top and bottom thereof being substantially equal to the corresponding dimensions from the pivotal axis of said pane to the margin of said vacuum and zero pressure area, whereby said pane, in all open positions thereof, is positioned substantially within the said vacuum and zero pressure area.

2,714,035

**RETRACTABLE AUTOMOBILE BACK WINDOW**

Alfons A. Limberg and Thomas Robertson, Grosse Pointe, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application September 26, 1952, Serial No. 311,712  
16 Claims. (Cl. 296—44)



1. Apparatus of the character described, including: a closure panel; operating means movable in a given plane for moving said panel between two positions; guide means having a straight part extending generally parallel to said plane and a curved part angular to said plane and providing a curved path of movement for said panel; and means interconnecting said panel and said operating means and having a portion engageable with only the straight part of said guide means and a portion engageable with the curved part thereof to provide for movement of said panel in directions angular to said given plane upon movement of said operating means in said plane.

2,714,036

**RAIN SHIELD ATTACHMENT FOR VEHICLE SUN VISORS**

Albert Gentile, Brooklyn, N. Y.  
Application May 1, 1953, Serial No. 352,369  
4 Claims. (Cl. 296—97)



2. In combination with the sun visor of a motor vehicle, said sun visor being capable of up and down pivotal movement as well as front to side pivotal movement

with relation to the front windshield and side door of a motor vehicle, a rain shield, said rain shield comprising a panel of rain deflecting material, U-shaped spring clips pivotally secured along the side edges of said panel, said clips being adapted to receive the body of said sun visor for mounting said shield thereon whereby said rain shield when mounted upon said visor is projected through the door opening of a motor vehicle, upon the front to side pivotal movement of said visor.

2,714,037

**BURIED SPRINKLER SYSTEM**

Monroe J. Singer and George G. Singer,  
Garden City, N. Y.  
Application February 28, 1955, Serial No. 491,024  
28 Claims. (Cl. 299—60)



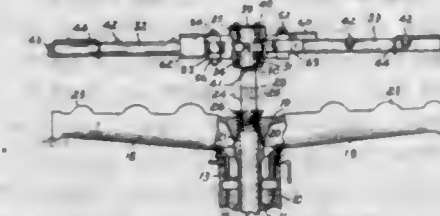
20. A sprinkler system comprising a flexible non-metallic conduit adapted to be buried in the earth, a plurality of elongated stand-pipes carried by and extending in the same direction from said flexible conduit and adapted to be buried in the earth together with said flexible conduit and with said stand-pipes disposed in a substantially vertical position, a spray head carried by the upper end of each stand-pipe and adapted to be located at the surface of the earth, said spray head including a spray opening for discharging water upwardly, means providing a water tight connection between the lower end of each stand-pipe and said flexible conduit at intervals along said flexible conduit and means rigidly associated with said first mentioned means for resisting rotation of said conduit about its axis due to torque generated by a lateral force exerted against the upper end of said stand-pipe from a source above the ground, said last mentioned means including a member embracing and engaging a substantial portion of the perimeter of said conduit and having at least one portion extending laterally from said conduit.

2,714,038

**DISHWASHER**

Gerald B. Fox, Troy, and Dewey B. Dickhart, Piqua, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio  
Original application October 3, 1946, Serial No. 700,878, now Patent No. 2,637,595, dated May 5, 1953. Divided and this application December 11, 1952, Serial No. 325,375

3 Claims. (Cl. 299—68)



1. In a quickly demountable rinse arm assembly for a dish washing machine of the character described having a wash arm mounted for rotation therein and including a hollow hub member mounted for coaxial rotation with respect to said wash arm and adapted to receive rinse fluid from a source thereof, said hub member having an open passage in its side communicating with the interior thereof and forming a socket, and a rinse pipe adapted at one end thereof for insertion in said socket, the combination of a collar mounted on said pipe in predeter-



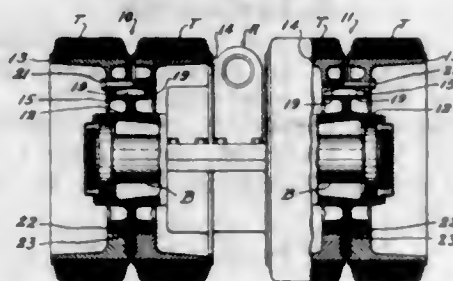
mined spaced relation with said one end thereof and adapted to abut said hub member upon insertion of said pipe end in said socket, a deflector plate carried by said collar and extending outwardly therefrom for intercepting a portion of the wash liquid discharged from said wash arm to cause rotation of said pipe and hub member with respect to said wash arm, complementary latch members carried by said hub member and said collar, one of said latch members comprising resilient material for resiliently holding said pipe with said end thereof inserted in said socket with said collar abutting against said hub member, and means cooperating with one of said latch members to index said collar in predetermined relation with said hub with said deflector plate in the path of a portion of the wash liquid discharging from said wash arm.

**2,714,039**  
**WHEEL BALANCE WEIGHT CONSTRUCTION**  
Harry E. Pouell, Kokomo, Ind.  
Application July 10, 1950, Serial No. 172,810  
1 Claim. (Cl. 301—5)



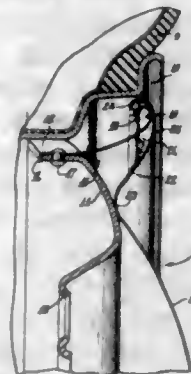
The combination with a motor vehicle wheel rim having an annular bead at its peripheral edge presenting a curved surface, and a wheel cover secured thereto, of a wheel balancing weight comprising a body curved in the arc of a circle fitted against said curved surface and said annular bead of said rim, said body having a groove extending throughout the length thereof and disposed in the outer surface of the body in which the curved edge of said wheel cover is held, a spring clip extending beyond the edge of the body at a point intermediate the ends thereof, said spring clip being extended rearwardly to clip over the edge and head of said wheel rim, and the lower inner edge of said body being cut away providing a stop against which the edge of a wheel rim chrome ring may rest.

**2,714,040**  
**DEMOUNTABLE WHEELS**  
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut  
Application October 22, 1951, Serial No. 252,540  
5 Claims. (Cl. 301—13)



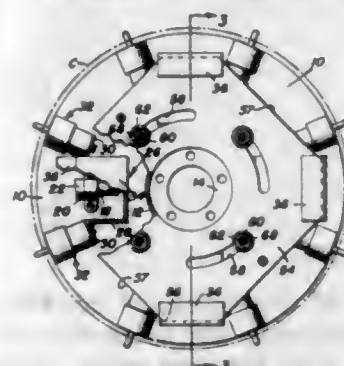
1. In a wheel of the class described, a hub having a peripheral ridge with surfaces inclined at each side toward the axis of said hub, an inner annular part for encircling said hub, spaced lugs on the inner periphery of said annular part, slots in the ridge of said hub for the passage of said lugs to allow said inner annular part to pass said hub in an axial direction, said lugs aligning with the inclined surfaces at the inner side of said ridge through rotation of said inner annular part after passing said hub, an outer annular part formed at its inner periphery to duplicate said inner annular part for the seating thereof upon the inclined surfaces at the outer side of said ridge, and means extending between said inner and outer annular parts radially outside said peripheral ridge of said hub for pulling said inner and outer annular parts toward each other into wedged relation with said ridge surfaces to form an integral wheel.

**2,714,041**  
**WHEEL COVER**  
George Albert Lyon, Detroit, Mich.  
Application February 1, 1952, Serial No. 269,392  
8 Claims. (Cl. 301—37)



1. In a wheel structure including wheel body and tire rim members, one of said members having projecting therefrom a plurality of circumferentially spaced cover retaining spring clips, and a circular wheel cover having an annular shoulder engageable on its radially inner side by said retaining spring clips and having an annular portion adjacent said shoulder formed with a plurality of axially outward spoke simulating indentations, each defining on its rear side a pocket for receiving the free end of one of said clips as the clips are engaged with said shoulder.

**2,714,042**  
**TRACTION ATTACHMENT FOR VEHICLE WHEELS**  
Edwin E. Kelly, Maywood, Ill.  
Application February 19, 1952, Serial No. 272,380  
11 Claims. (Cl. 301—47)

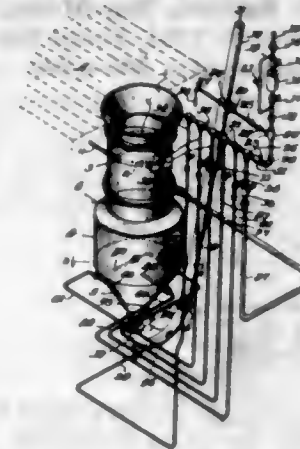


1. A traction attachment for a vehicle wheel comprising a base plate having a peripheral edge, said plate being attachable to a vehicle wheel, a plurality of circumferentially spaced cleat holding members slidably carried by the plate, each of said members having a channel shaped portion, a cam member rotatably supported on the plate slidably engaging the channel shaped portions for sliding the cleat holding members outwardly toward the peripheral edge of the plate, and a pair of cleat elements supported by each of the members.

**2,714,043**  
**CONVEYOR APPARATUS**  
Thaddeus J. Glaza, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation  
Application November 5, 1949, Serial No. 125,712  
4 Claims. (Cl. 302—57)

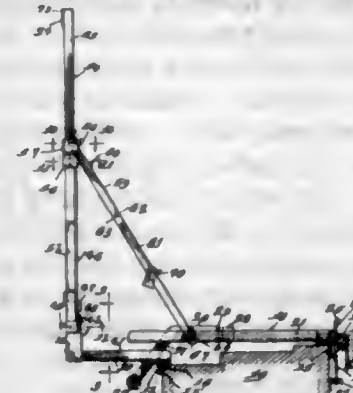
1. In a conveyor system for use with a receiver or the like, the combination comprising a forwarding chamber having an inlet opening, an enlarged chamber below said inlet opening, a funnel directly communicating with the said enlarged chamber, the said latter chamber defining the upper limits of the said funnel, air jet means interposed at the inlet opening to discharge transversely therein, a plurality of air inlets discharging tangentially at different planes and directions into the interior of the said funnel to prevent conveyed material from bridging within the said chamber and funnel, the said air inlets having independent

valve means for selectively supplying air to said inlets, an elbow fitting having a lower sweep portion communicating with the small end of the funnel, a single air jet means discharging into the sweep portion of the said elbow fitting



thereby to create an aspiratory effect upon the flow of conveyed material moving from the small end of the funnel directly into the sweep of the said elbow fitting, and conduits connected with said first and second named air jets means communicating with an air supply.

**2,714,044**  
**COMBINED WINDOW STAND AND SEAT ASSEMBLY**  
Shozaburo Otani, Chicago, Ill.  
Application June 4, 1952, Serial No. 291,640  
10 Claims. (Cl. 304—24)

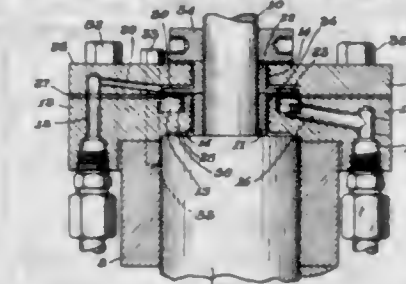


1. Mechanism for supporting a workman at the exterior of a window opening, comprising an adjustable support adapted to be mounted upon the window sill at the inner and outer edges thereof and including a transverse member adapted to be supported on the inner edge of the sill, side rails affixed at one end to the transverse member and free at their other end, an adjustable cross bar slidably mounted on the side rails, a second transverse member adapted to be supported on the outer edge of the sill, a stand for sustaining the weight of a workman thereon having side rails connected at one end to said second transverse member and with each side rail provided with a slot, and an inclined sliding bar extending through and movable relative to the side rails and stand, the lower end of said bar being free and the upper end being connected to the adjustable cross bar with the edge of said sliding bar intermediate its ends bearing against the second transverse member, whereby said stand is maintained fixed upon the window sill.

**2,714,045**  
**SEAL FOR HIGH SPEED ROTARY SHAFTS**  
Louis O. Simenson, Berkeley, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware  
Application March 5, 1953, Serial No. 340,494  
2 Claims. (Cl. 308—36.3)

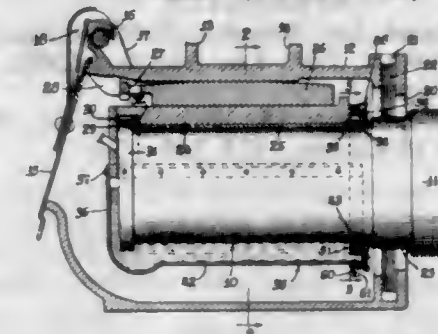
1. A seal assembly for a high speed shaft passing through the wall of a vessel comprising a bearing on said shaft spaced from said vessel wall; a collar on said shaft

revolvably seated on said bearing; a fixed housing member provided with a recess for and seated on said bearing, having a hub which is shorter and of greater diameter than said collar; a circular channel in the opposite face of said housing from the bearing, outside of said hub and in communication with a radially bored drainage outlet; a spinner member comprising a collar on said shaft seated on the first said collar, a transverse disk extending partially over said channel, and a cylindrical



skirt projecting from said disk into said circular channel; a cap ring coaxial with the shaft, bored for free rotation of the shaft, chamfered in one face to cooperate with said circular channel so as to provide a chamber with clearance for the spinner disk, and bored radially to the periphery of the spinner chamber for admission of sealing liquid; means for securing the seal to the vessel wall; means for holding the sealing elements together; and means for lubricating the end of the bearing adjacent the seal.

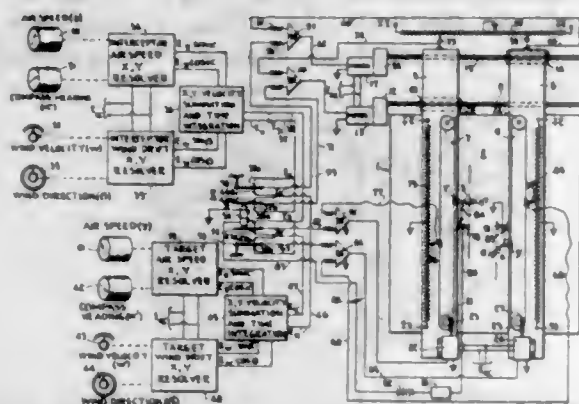
**2,714,046**  
**LUBRICATING MEANS FOR RAILWAY CAR TRUCK JOURNAL BEARINGS**  
Franklin D. Barber, Flossmoor, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a corporation of New Jersey  
Application February 26, 1952, Serial No. 273,371  
5 Claims. (Cl. 308—83)



1. The combination with a railway car axle journal the outer and inner limits of which are defined, respectively, by an end collar and a dust guard bearing surface, a bearing member supported thereon and a lubricant reservoir member open at one end and suspended from the journal bearing member and cooperating therewith to encompass said axle journal, of means providing a flexible closure for the open end of said reservoir member so as to support a body of lubricating oil therein in contact with and partially surrounding said journal and to provide a sealed connection between the journal and the inner end of the journal bearing member to prevent ingress of foreign matter and leakage of said oil from said reservoir member, said flexible closure and sealed connection comprising a seal ring immediately surrounding said axle journal at a location intermediate the inner end portion of said bearing and said dust guard bearing surface and having an axially extending annular flange of some resilience in contact with the journal, a garter spring encompassing said annular flange and exerting pressure thereon to press the said annular flange into resilient sealing engagement with the journal, and a flexible diaphragmatic wall member extending outwardly from said seal ring and secured in sealing engagement with the inner ends of said journal bearing member and said reservoir member.

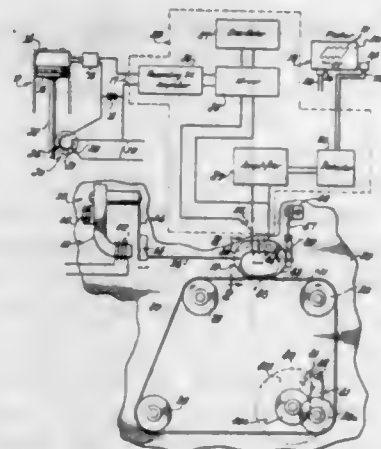


**2,714,047**  
**RECORDING APPARATUS FOR MULTIPLE**  
**COURSE TRACING**  
 Richard C. Dehmel, Short Hills, N. J.  
 Application December 23, 1950, Serial No. 202,456  
 20 Claims. (Cl. 346—8)



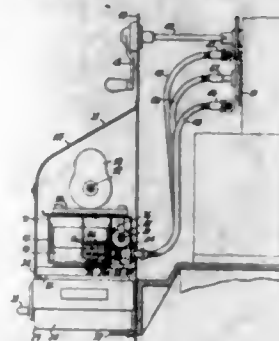
1. Apparatus for multiple course recording comprising a chart, a plurality of recording pens for tracing respective contemporaneous courses on said chart, separate respective actuating means for said pens, means for controlling said actuating means according to respective course variations, sensing means responsive to relative positioning of said pens at concurrence or intersection of said courses, and transfer control means responsive to said sensing means, said transfer control means causing interchange of course control of said actuating means whereby the functions of said pens are interchanged.

**2,714,048**  
**MAGNETIC RECORDING AND REPRODUCING**  
**APPARATUS**  
 Raymond C. Baird, Los Angeles, Calif., assignor to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California  
 Application September 15, 1952, Serial No. 309,722  
 10 Claims. (Cl. 346—74)



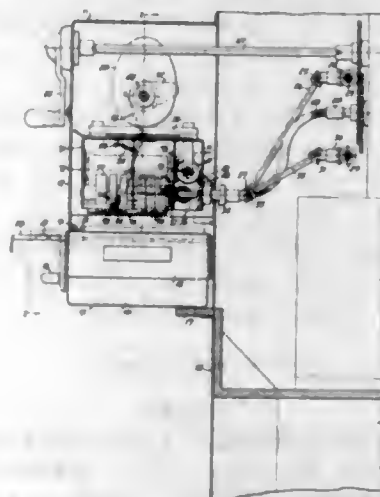
1. Apparatus comprising means operable to progressively advance a magnetic record track along a predetermined path, two electromagnetic signal pick-up heads positioned in flux linkage relationship to different relatively offset portions of said track so that the two heads are associated respectively with two different series of magnetic signals along said track, a common indicator responsive to energization of both of said heads by said magnetic signals and operable to produce a composite graphical indication of said two series of signals together, and means operable to relatively move said pickup heads with respect to said record track through predetermined repeating cycles as the track is advanced and in addition to said advancing movement to amplify the signals to said indicator.

**2,714,049**  
**CREDIT CARD COMPUTING DEVICE**  
 Kenneth R. Germann, Berkeley, Calif., assignor of one-third to Richard R. Hanna, Hillsborough, and one-third to Charles S. Barbara, San Mateo, Calif.  
 Application October 9, 1951, Serial No. 250,506  
 3 Claims. (Cl. 346—94)



1. In an invoice printing device, said device being adapted to be used externally in conjunction with the sale of gasoline from a conventional installed gasoline pump having totalizing means and resetting means, the combination comprising two sets of printing wheels mounted parallel to each other, a pair of connecting means for driving said printing wheels from said totalizer means, said connecting means serving to drive said printing wheels in a step-by-step manner whereby the printing wheels will be advanced to the next step only after said totalizing means have been advanced over one half of the way towards the next number, means connected to the resetting means of said pump for resetting said printing wheels to zero, removable invoice retaining means located below said printing wheels, said invoice means comprising a box adapted to contain invoices, a backing plate in the upper portion of said box, means for withdrawing an invoice from said chamber and advancing it to a position above the backing plate, a recess in said backing plate adapted to receive an embossed credit card, a printing ribbon between the printing wheels and the invoice carried above said backing plate, means for advancing said ribbon, and means for urging said printing wheels into engagement with the invoice carried above said backing plate whereby said printing wheels will leave an imprint on said invoice and said credit card will be pressed against said invoice to record the information contained thereon upon said invoice.

**2,714,050**  
**PRINTING WHEEL ALIGNING MEANS**  
 Kenneth R. Germann, Berkeley, Calif.  
 Application December 15, 1952, Serial No. 326,097  
 4 Claims. (Cl. 346—94)



1. In an invoice printing device for totalizing pump having a plurality of printing wheels, invoice retaining means, an embossed credit card retaining means, a printing ribbon disposed between the invoice in said invoice retaining means and the printing wheels, and

means for bringing the invoice into contact with said printing wheels and with an embossed credit card in said holding means; means for translating the continuous rotary motion of the totalizer of said pump into intermittent step-by-step motion to intermittently rotate the printing wheels from one predetermined printing position to another predetermined printing position comprising a driving shaft connected to said totalizer, a driving disc fixed on said shaft, a parallel driven disc connected to said printing wheels, lost motion means inter-connecting

said two discs, spring pressed detent means engaging said driven disc for retaining said printing wheels at one predetermined printing position until the driving disc has advanced one half of the angular distance between adjacent numbers on one of the printing wheels, and means for storing energy for advancing said driven disc to the next predetermined printing position when said driving disc has advanced more than one half of the angular distance between adjacent numbers on one of the printing wheels.

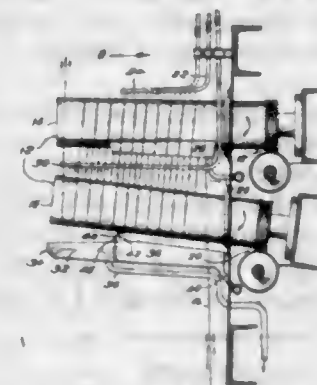
## CHEMICAL

**2,714,051**  
**PROCESS FOR PREVENTING THE FULLING**  
**SHRINKAGE OF WOOL**  
 Charles R. Barnes, Pittsburgh, Pa., assignor to Albany Felt Company, Albany, N. Y., a corporation of New York

No Drawing. Application April 15, 1949,  
 Serial No. 87,854  
 11 Claims. (Cl. 8—128)

1. The method of preventing the fulling shrinkage of wool by treating it in a water solution of three substances comprising an acid, and a metal bromate and a metal bromide capable of yielding in said water solution bromic and hydrobromic acid, respectively, when combined with said acid; said method comprising, first immersing the wool in a water solution of any two of said substances, and thereafter forming nascent bromine in said solution by adding said third substance thereto at a comparatively slow rate and less than that which will effect a substantial brownish discoloration of said solution; whereby to effect the formation of said nascent bromine in said solution at a rate approximating the rate it reacts with the wool and to prevent the formation of free molecular bromine in said solution; said bromate and said bromide being used in stoichiometrical amounts producing nascent bromine in a total quantity constituting from about 1% to about 5%, by weight, of the wool.

**2,714,052**  
**METHOD OF WASHING A GELLED THREAD**  
**OF AN ACRYLONITRILE POLYMERIZATION**  
**PRODUCT**  
 Irvin Wison, Stamford, Percival W. Cummings, Jr., Cos Cob, and Arthur Cresswell, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine  
 Application April 11, 1952, Serial No. 281,938  
 2 Claims. (Cl. 8—151.1)



1. A method of washing a wet-spun gelled thread of an acrylonitrile polymerization product which has been produced by extruding a solution of said polymerization product through a spinneret into a liquid coagulating bath comprising an aqueous solution containing from about 3% to about 25%, by weight, of a water-soluble

thiocyanate which yields highly hydrated ions in an aqueous solution, said coagulating bath being at a temperature not exceeding +10° C. and said acrylonitrile polymerization product being dissolved in a concentrated aqueous solution of the same water-soluble thiocyanate which is a component of the said liquid coagulating bath, said method comprising passing the said thread through a helical path having a multiplicity of turns the axis of which is at an angle to the horizontal and in which the thread moves from the feed-on end to the take-off end of the said path; washing the continuously moving thread at the feed-on end of the said helical path and also the helices of thread adjacent to said feed-on end by applying thereto a liquid medium at a temperature not exceeding +10° C. and comprising an aqueous solution containing from about 3% to about 25%, by weight, of the same water-soluble thiocyanate used in the aforementioned liquid coagulating bath; next washing the advancing helices of thread with water at a temperature not higher than +10° C.; and finally washing the advancing helices of thread as they approach the take-off end of their helical path with water at a temperature higher than the temperature of the water used in the preceding washing stage.

**2,714,053**  
**PROCESS FOR THE RECOVERY OF CRYOLITE**  
**FROM THE CARBON BOTTOMS OF FUSION**  
**ELECTROLYSIS CELLS**  
 Otto Albert, Braunau (Inn), and Herbert Mader, Ach, Austria, assignors to Vereinigte Aluminium-Werke Aktiengesellschaft, Oeffentliche Verwaltung der Betriebe Braunau am Inn und Unterlaussa, Braunau, Austria

No Drawing. Application November 23, 1953,  
 Serial No. 393,936  
 Claims priority, application Austria November 26, 1952  
 3 Claims. (Cl. 23—88)

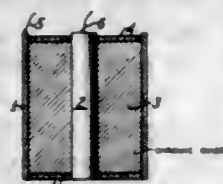
1. In a process for recovering cryolite from the carbon bottoms of fusion electrolysis cells by treating the ground bottom carbon with aqueous alkali metal hydroxide solution, filtering off the insoluble matter from the liquid, and precipitating the cryolite from the liquid by the introduction of a member selected from the group consisting of carbon dioxide and alkali metal bicarbonate, the step of adding fluorine ions to the liquid prior to the precipitation step in an excess of at least 30% by weight beyond that which corresponds to the stoichiometric ratio between aluminum and fluorine in cryolite.

**2,714,054**  
**METHOD OF TREATING CHROMIC OXIDE**  
 Sterling E. Voltz, Norwood, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware  
 Application February 15, 1952, Serial No. 271,762  
 3 Claims. (Cl. 23—145)

1. A method of making a temperature responsive resistance element having a negative temperature coefficient comprising treating a mass of chromic oxide



with oxygen at 350° C. until substantially all of said chromic oxide has the atomic ratio of two atoms of



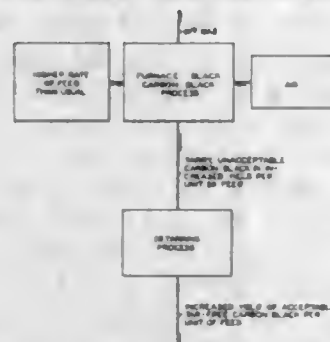
chromium to three atoms of oxygen, and forming said mass into a predetermined shape.

2,714,055

# PROCESS OF PRODUCING INCREASED YIELDS OF TAR-FREE CARBON BLACK

Martin R. Cines, Bartlesville, Okla., and Joseph C. Krejci, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application December 27, 1949, Serial No. 135,084  
14 Claims. (Cl. 23-209.4)



1. The process of producing an increased yield of tar-free carbon black acceptable to the rubber industry for compounding with a rubber selected from the group comprising natural rubber, and rubbery polymers obtained by polymerizing a conjugated diene, characterized by the fact that a standard chloroform extract of tar from said carbon black will transmit at least 85% as much light as the chloroform used will before the extraction, which comprises the steps of passing an axial stream of hydrocarbon in gaseous form surrounded by a helically moving blanket of hot gas into a reaction zone, which blanket of hot gas forms carbon black in said axial stream by pyrochemical reactions, and which hot blanket permits the amount of hydrocarbon in said axial stream to be greatly increased without substantial carbon deposits in said reaction zone, feeding said hydrocarbon into said reaction zone at a rate higher than that which will produce a maximum yield of said tar-free carbon black and said rate being so high that an increased yield of tarry unacceptable carbon black having an alkaline pH, the standard chloroform extract from which has less than 80% light transmission than said chloroform is produced over the amount of tar-free carbon black that could be produced in said reaction zone from the same weight of said hydrocarbon cooling said tarry black, and detarring and reducing the pH of said tarry carbon black by intimate mixing with, and exposure to, an oxidizing gas comprising free oxygen under an oxidizing temperature of from 400° F. to 1200° F. to produce said tar-free carbon black the light transmission of a standard chloroform extract of which is at least 85% of said chloroform in an increased yield per unit of hydrocarbon feed and per reaction zone over the yield of said tar-free carbon black that could be produced from said feed in said reaction zone.

2,714,056

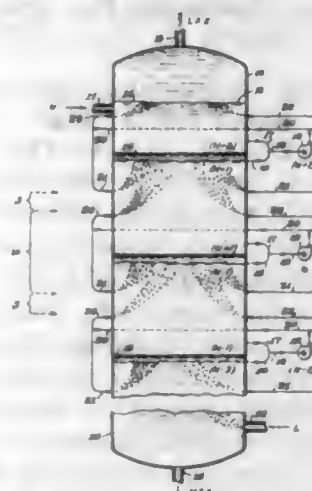
# METHOD OF OPERATING MIXER-SETTLER EXTRACTORS

Noland Poffenberger, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application October 20, 1952, Serial No. 315,761  
3 Claims. (Cl. 23-310)

1. The method which comprises introducing heavy liquid H near the top and light liquid L substantially

immiscible therewith near the bottom of a vertical mixer-settler extractor, having alternate mixing and settling zones throughout its length, at volumetric rates of flow  $F_H$  for the heavy liquid and  $F_L$  for the light liquid in the zones to which they are fed initially, and withdrawing heavy liquid at a rate  $F_{H+x}$  from the bottom and light liquid at a rate  $F_{L-x}$  from the top of the column, X being a variable representing the total volume change of each phase due to liquid-liquid interchange between phases in their passage through the extractor; regulating one of the flows  $F_H$  and  $F_L$  so as to maintain a single continuous interface across the extractor at a preselected settling zone; circulating into a given mixing zone N from the next higher settling zone (N+1) an amount of the heavy liquid significantly greater than either of the rates  $F_H$  and  $F_{H+x}$ , while circulating into said mixing zone N from the next lower settling zone (N-1) an amount



of the light liquid significantly greater than either of the rates  $F_L$  and  $F_{L-x}$ , each liquid H and L being introduced into zone N through interzonal passages of such small size that the velocity of each stream to the mixing zone prevents counterflow therethrough of the other liquid phase; mixing in zone N the stream of liquid H from zone (N+1) and the stream of liquid L from zone (N-1); impelling the mixed liquids toward other restricted interzonal passages distant from any point of entry of liquids to zone N; and displacing a portion of the mixed liquids upwardly through such passages from zone N to zone (N+1) and the remainder of the mixed liquids downwardly through such passages from zone N to zone (N-1), the velocities of the so-displaced portions of the mixed liquids each being such as to prevent counterflow of settled liquid through the last said passages from the adjacent settling zones.

2,714,057

# STABILIZATION OF ORGANIC COMPOUNDS

Joseph A. Chenicek, Bensenville, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 21, 1951,

Serial No. 238,007

10 Claims. (Cl. 44-63)

1. Burner oil tending to undergo discoloration in storage, containing, as a retardant of said discoloration, from about 0.0001% to about 1% by weight of a 2-amino-4-alkyl-6-alkylphenylamino-1,4-dihydro-1,3,5-triazine.

2,714,058

# METHOD AND APPARATUS FOR MAKING OIL GAS

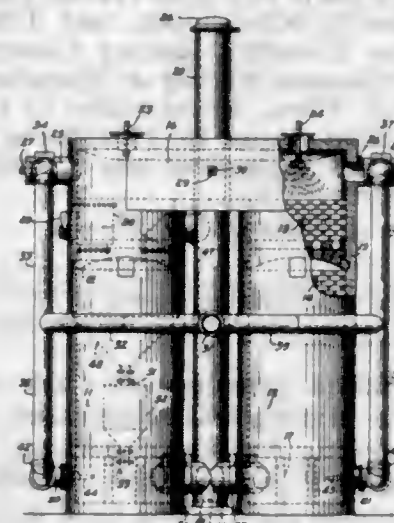
Kenneth W. Stookey, Cleveland Heights, and William E. Steinwedell and Robert T. Kyle, Cleveland, Ohio, assignors to The Gas Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application October 3, 1949, Serial No. 119,364

4 Claims. (Cl. 48-74)

1. A process for making oil gas by pyrolytic treatment of oil in an oil gas set having two shells each containing

an oil cracking zone and a cross-over zone connecting the two shells at the top thereof, said process comprising heating one of said shells by passing air upwardly through said other shell, introducing heat oil into the top of one of said two shells, burning said fuel therein, the combustion products of the air and fuel passing downwardly through said first mentioned shell to supply heat thereto, heating said other shell by passing air upwardly through



said first mentioned shell, introducing heat oil into the top of one of said two shells, burning said fuel therein, the combustion products of the air and fuel passing downwardly through said other shell to supply heat thereto, introducing make oil simultaneously into the top of both of said shells for conversion into oil gas, passing said oil and converted oil gas downwardly through said shells and withdrawing oil gas simultaneously from the bottoms of each of said shells.

2,714,059

# MEANS AND METHOD FOR PRODUCING FUEL GAS

Louis C. Bearer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 19, 1949, Serial No. 133,929

14 Claims. (Cl. 48-197)



1. The continuous method of forming fuel gas of a desired B. t. u. value from a hydrocarbon which comprises the steps of heating a flowing contiguous mass of pebbles in a pebble heating zone; passing said heated pebbles into a gas heating zone, said pebbles being heated in said pebble heating zone to a temperature so that said gas heating zone is maintained at a temperature within the range of between 1650° F. and 2500° F.; passing steam through said gas heating zone in direct heat exchange with said heated pebbles, whereby said steam is superheated; passing a mass of relatively cool pebbles through a conversion zone; passing said superheated steam into said conversion zone; introducing a hydrocarbon material into said conversion zone and reforming said hydrocarbon with said steam to form carbon monoxide and hydrogen; depositing carbon resulting from said reforming reaction on said pebbles in said conversion zone; passing said carbon-bearing pebbles from said conversion zone into said gas heating zone; converting said carbon to water gas by reaction with said steam in said gas

696 O. G.—37

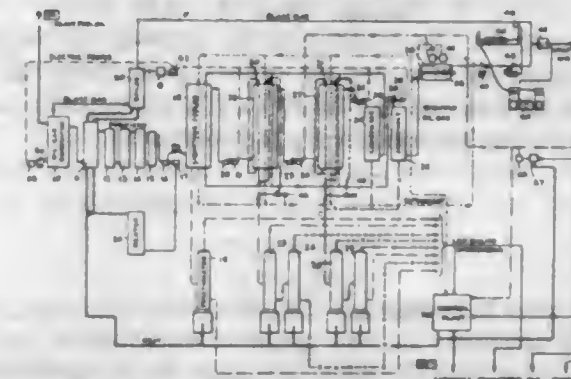
2,714,060

# PROCESS OF TREATING OILGAS TO PRODUCE UTILITY GAS OF LOW HEAT CONTENT AND LOW GRAVITY WITH VALUABLE BY-PRODUCTS

Virgil Stark, Forest Hills, N. Y.

Application March 7, 1951, Serial No. 214,252

6 Claims. (Cl. 48-211)



1. The process of producing utility gas from petroleum derivatives containing heavy hydrocarbons which comprises heating said petroleum derivatives to a cracking temperature from 1500° F. to 1700° F. and gasifying them, using a hot blast produced by combustion to oxidize the carbon deposited, utilizing the heat of said hot blast gas and cracked gaseous products at least in part to produce steam, compressing said cracked gaseous products to 200 p. s. i. g. to 1200 p. s. i. g. and cooling them in successive stages from 0° F. to -120° F. to liquify low boiling constituents, removing the condensate and permitting it to vaporize and expand and utilizing it in cooling said cracked gaseous products, heating and fractionating said vaporized and expanded condensate by means of steam produced in the process, expanding the stripped gaseous products to generate power and produce self-refrigeration, cooling a liquid at sub-atmospheric temperature by heat exchange with said expanded gaseous products and using it in cooling the cracked gaseous products in the stripping stages, and mixing sufficient hot blast gas with said stripped gaseous products to produce a satisfactory utility gas for distribution as such.

2,714,061

# NONLUMINOUS PYROTECHNIC MIXTURE FOR A PROJECTILE

Raymond H. Heiskell, Compton, Calif.

No Drawing. Application June 29, 1948,

Serial No. 35,961

3 Claims. (Cl. 52-2)

(Granted under Title 35, U. S. Code (1952), sec. 266)

2. A non-luminous igniter for initiating ignition of the burster charge of a projectile comprising a peroxide of an alkaline earth metal 60% to 70.7%, antimony sulfide 21.3% to 35%, a bitumen mineral substance 1-4%, and a friction reducing substance.

2,714,062

# COMPOSITION FOR AND PROCESS OF RESTORING THE GREEN COLOR OF GRASS

Andrew J. Lockrey and Frank W. Koinig, Southampton, N. Y.; said Koinig assignor to said Lockrey

No Drawing. Application January 7, 1955,

Serial No. 480,594

12 Claims. (Cl. 71-1)

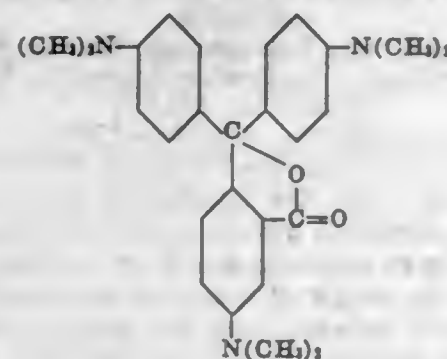
1. The process of reviving nitrogen deficient grass, which comprises applying to the grass an aqueous solu-







marking fluid, including the steps of preparing marking-fluid-receiving record material by sensitizing selected areas of the record material by applying thereto particles of attapulgite; preparing a marking fluid having a normal color and having therein a substantially colorless fluid vehicle in which has been dispersed 3,3 bis(p-dimethylaminophenyl) 6-dimethylamino phthalide, having the structure



and selectively applying the fluid to sensitized and unsensitized areas of the record material, as desired.

2,714,075

# DILUTE AQUEOUS DISPERSIONS AND THEIR APPLICATION

Frederick K. Watson and John L. Ludlow, Wilmington, and John R. Kateley, Newport, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 27, 1951, Serial No. 258,522

14 Claims. (Cl. 117—65)

11. A process which comprises contacting a substrate with an aqueous dispersion having a pH of 2.0 to 7.5 comprising a dispersing agent and from 0.01% to 0.5%, based upon the total weight of the dispersion, of an N-alkoxymethylpolyhexamethylene adipamide having an average particle size of between 0.1 and 2.0 microns and having alkoxymethyl groups attached to from 20% to 60% of the amide nitrogen atoms, in the presence of a water-soluble salt of a nitrogen-containing base and an acid having an ionization constant for the first hydrogen of at least  $1 \times 10^{-5}$ , at a pH of from 2.0 to 6.6, whereby the dispersion is substantially completely exhausted onto the substrate.

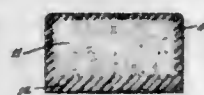
2,714,076

# PLASTICIZED PELLET OF THERMOPLASTIC MATERIAL AND PROCESS OF MAKING SAME

Peter H. Seckel, New York, N. Y., assignor to Richard A. Fisch

Application February 28, 1951, Serial No. 213,153

8 Claims. (Cl. 117—100)



1. In a process of forming pellets consisting primarily of a thermoplastic material for use in subsequent molding processes which pellets are substantially uniformly impregnated with a plasticizer for the thermoplastic material and which pellets are substantially free from chipping and spalling, the steps comprising dry mixing finely divided thermoplastic material with a liquid plasticizer-containing composition at a temperature below the melting point of the thermoplastic material, the amount of liquid being such as to be completely absorbed by said thermoplastic material so as to coat the individual particles with a layer of said plasticizer, forming the coated particles into compacted pellets at a temperature below the melting point of said thermoplastic material and only thereafter heating said pellets to a temperature around the melting point of the unplasticized thermoplastic ma-

terial whereby the plasticizer diffuses throughout the pellet and the surface region of the pellet vitrifies and forms a hard shell when the pellet is cooled.

2,714,077

# COATED NON-IRRITATING COAL TAR PITCH

Burgess P. Wallace, Brooklyn, N. Y., assignor to Whitehead Brothers Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 8, 1953, Serial No. 379,075

4 Claims. (Cl. 117—100)

1. Bland coal tar pitch, containing a noxious substance selected from the group consisting of phenols, cresols and chrysenes, which pitch is non-irritating to the human skin consisting essentially of finely divided particles of such pitch each of which is individually enveloped by a sealing coat of a member of the group consisting of an oil and a wax which is insoluble in such pitch and in which the pitch is insoluble, the amount of such sealing coat ranging between one-quarter per cent and two and one-half per cent, by weight, of the amount of the pitch.

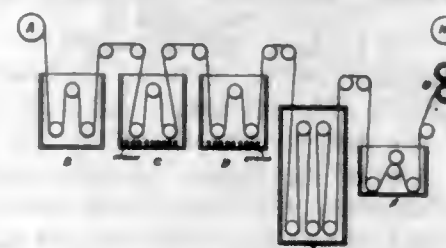
2,714,078

# METHOD OF INCREASING THE STRENGTH OF TEXTILE MATERIAL

Luis Llobet Nicolau, Barcelona, Spain

Application March 18, 1953, Serial No. 343,148

6 Claims. (Cl. 117—139.5)



1. The method of increasing the strength of textile material comprising homogeneously impregnating the textile material with a terpene hydrochloride selected from the group consisting of pinene hydrochloride and bornyl chloride, removing hydrogen chloride from the terpene hydrochloride in situ in said textile material by means of an alkaline solution to convert the same to camphene, oxidizing the camphene impregnated textile material in situ to a mixture of campholide and camphor, reacting the campholide and camphor impregnated textile material in situ with an organic nitric ester having the formula  $R-NO_2$ , wherein R is hydrocarbon radical, and finally heating and drying the textile material thus treated.

2,714,079

# VAPOR DEGREASING APPARATUS AND METHOD

Francis M. Stodgell, Vallejo, Calif.

Application July 10, 1953, Serial No. 367,377

5 Claims. (Cl. 134—22)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for cleaning the interior surfaces of an open-ended elongate object, said apparatus comprising a boiler for containing a liquid solvent, means for heating the boiler to vaporize said solvent, a vapor conduit extending from said boiler into one of said object's open ends for directly introducing vapor into and progressing it through the object by boiler pressure, and thermostatic means operable in response to vapor heat in said object for controlling said boiler pressure sufficiently to arrest said vapor progress short of said object's other open end.

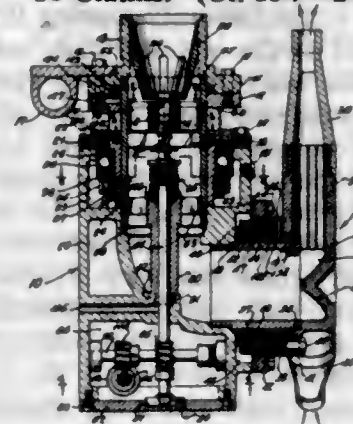
2,714,080

# TANK CLEANING DEVICE AND METHOD

Merritt T. Kennedy, Jr., Port Washington, and Lamont F. De Wald, Great Neck, N. Y., assignors to Pyrate Sales, Inc., Bayside, N. Y., a corporation of Nevada

Application December 31, 1952, Serial No. 328,886

18 Claims. (Cl. 134—24)



1. A method of cleaning the walls of a tank comprising projecting a stream of cleaning liquid against said walls, rotating said stream about a first axis, rotating said stream at the same time about a second axis substantially perpendicular to the first axis and at a constant rate with respect to the rotation of the stream about the first axis, generating a considerable number of successive impingement stripe convolutions on said walls for each turn of the stream about the second axis, and causing phasic offsetting of the generated stripe convolutions for a plurality of successive turns of the stream about the second axis, whereby a rough cleaning coverage of the walls from top to bottom is attained for the first turn of the stream about the second axis and whereby the stripe impingement convolutions generated for each subsequent turn of the stream about the second axis cut inbetween the stripe impingement convolutions generated during previous turns of the stream about the second axis.

6. A device for cleaning all surfaces of a tank comprising, a turret mounted for rotation about a first axis at a predetermined rate, a nozzle supported on said turret for rotation therewith about said axis and for rotation at a predetermined rate about a second axis substantially at right angles to the first axis, said nozzle being constructed to direct a stream of cleaning liquid against said tank surfaces, and means for driving said turret and said nozzle simultaneously about their respective axes and at a speed ratio to cause said nozzle to make a fractional number of turns approximating one turn about the second axis for a considerable whole number of revolutions of the turret about the first axis, whereby phasic offsetting of the impingement stripes of said cleaning liquid projected upon the surfaces by said nozzle for successive turns of said nozzle about the second axis is effected.

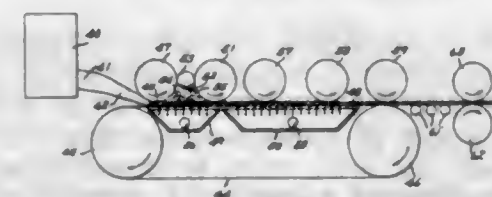
2,714,081

# PROCESS OF FORMING FIBROUS SHEETS

William J. Burgon, New Westminster, British Columbia, Canada, assignor of fifty-one per cent to William H. Rambo, Portland, Oreg.

Application March 17, 1950, Serial No. 150,204

3 Claims. (Cl. 154—101)



1. The process of making fiber boards comprising subjecting lignocellulosic fibers to steam in a high pressure zone until the fibers are plasticized, permitting the con-

tinuous escape of steam to a zone of steam at lower pressure and utilizing the steam to entrain fibers in hot, plasticized condition, resisting movement of the entrained fibers at the point of release from the zone of high pressure so as to build up a wall of interlaced fibers between the two zones of pressure, continuously and mechanically withdrawing the built-up wall of fibers through the zone of lower pressure steam so as to form a continuous mat of plasticized fibers interlaced in the longitudinal direction of the mat, and compressing the mat into a self-sustaining sheet while moving the same away from association with steam.

2,714,082

# NEW OXAZOLINE DERIVATIVES

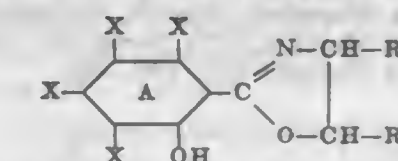
William Harris Davies, Angus Marks, and George Alan Snow, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 11, 1953, Serial No. 354,433

Claims priority, application Great Britain May 16, 1952

9 Claims. (Cl. 167—33)

1. Oxazoline derivatives of the formula



wherein R and R' stand for a member selected from the group consisting of hydrogen and lower alkyl radicals and wherein one of the X substituents on the phenyl nucleus A is a halogen atom and each of the other X substituents is selected from the group consisting of hydrogen, halogen and lower alkyl radicals.

2,714,083

# APPETITE SATIENT

Edgar A. Ferguson, Jr., Brooklyn, N. Y.

No Drawing. Application August 7, 1951, Serial No. 240,788

4 Claims. (Cl. 167—55)

1. An appetite satient composition adapted to be dissolved slowly in the saliva of the mouth, whereby the inner mouth surfaces, including the tongue, are lined with a mild, taste-insulating coating which temporarily covers the taste buds and destroys keenness of taste and appreciation of food, said composition being in substantially solid form and containing, as its active ingredient, a mixture of about four parts of sodium carboxymethylcellulose and one part of tartaric acid.

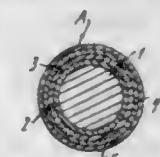
2,714,084

# ENTERIC COATED TABLETS AND METHODS OF MAKING THE SAME

Victor M. Hermelin, Olivette, Mo.

Application October 11, 1954, Serial No. 461,353

9 Claims. (Cl. 167—82)



5. A pharmaceutical tablet comprising a drug-containing compressed core, an initially applied coating layer disposed entirely around the surface of the core, said initially applied coating layer containing finely pulverized anhydrous silica gel, and a subsequently applied coating layer disposed entirely around the outer surface of the initially applied coating layer, said subsequently applied coating layer being an enteric coating.



2,714,085

**THERMAL CONVERSION OF HYDROCARBONS IN THE PRESENCE OF AN OXYCHLORINE COMPOUND**

Carlisle M. Thacker, Wilmington, Del., and Hillis O. Folkins, Crystal Lake, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Continuation of application Serial No. 34,556, June 22, 1948, which is a continuation of application Serial No. 564,180, November 18, 1944, now Patent No. 2,460,200, dated January 25, 1949. This application June 4, 1952, Serial No. 291,776

4 Claims. (Cl. 196—52)

1. The process of cracking higher boiling hydrocarbon oils to lower boiling liquid motor fuel hydrocarbons which consists in subjecting said hydrocarbons to cracking conditions of time, temperature, and pressure in the presence of a small amount of an explosive compound selected from the group consisting of chlorine tetroxide, chlorine dioxide, and lead chlorite.

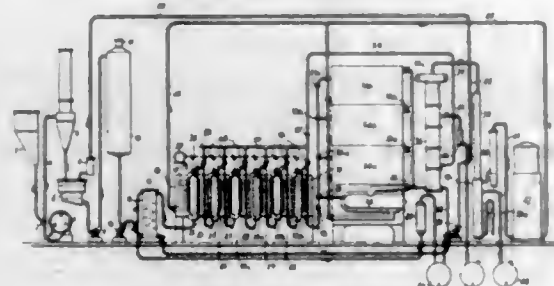
2,714,086

**CHEMICAL MODIFICATION OF COAL INTO HYDROCARBON OILS AND COKE**

Erwin Blumner, Munich, Germany

Application March 6, 1951, Serial No. 214,069

6 Claims. (Cl. 196—56)



1. A continuous process for the production of light and medium hydrocarbon oils and hard coke from bituminous coal which consists in mixing the coal in finely comminuted form with a heavy oil to form a paste mixture, forcing the mixture through a continuous enclosed passage comprising a plurality of successively arranged treatment zones, maintaining a pressure of at least of the order of 20 kg./cm.<sup>2</sup> in said enclosed passage whilst the mixture is forced therethrough, heating the mixture rapidly to a temperature approximating to the lowest conversion temperature of the coal whilst it is passing through a first treatment zone, applying heat at such a rate to the mixture whilst it is continuously passing through a second treatment zone of larger volume than said first treatment zone that the temperature of the mixture will be maintained substantially at said lowest conversion temperature, the volume of said second treatment zone being such that the conversion at said temperature will be substantially completed during the passage of the mixture through said second treatment zone, applying heat at such a rate to said modified mixture as it passes continuously through a third treatment zone of smaller volume than said second treatment zone that the temperature of the modified mixture will be raised during its passage through said third treatment zone to a temperature approximating to a higher conversion temperature of the coal but below the cracking temperature, applying heat at such a rate to the modified mixture whilst it is continuously passing through a fourth treatment zone of larger volume than said third treatment zone that the temperature of the modified mixture will be maintained substantially at said higher conversion temperature, the volume of said fourth treatment zone being such that the conversion at said higher conversion temperature will be substantially completed during the passage of the modified mixture through said fourth treatment zone, applying heat at such a rate to said further modified mixture as it passes

continuously through a fifth treatment zone of smaller volume than said fourth treatment zone that the temperature of the further modified mixture will be raised during its passage through said fifth treatment zone to a temperature approximating to a cracking temperature, applying heat at such a rate to the further modified mixture whilst it is continuously passing through a sixth treatment zone of larger volume than said fifth treatment zone that the temperature of the further modified mixture will be maintained substantially at said cracking temperature, the volume of said sixth treatment zone being such as to permit cracking at such temperature to be substantially completed during the passage of the mixture through said sixth treatment zone, discharging the cracked mixture from said sixth treatment zone with release of pressure into one of a plurality of retorts whilst removing and separating the volatile components from the non-volatile residues until the retort is filled to the desired extent whereupon the cracked mixture is discharged into a further one of said retorts, heating the filled retort to heat the non-volatile residues therein to a coking temperature and release further volatile components, collecting the volatile components, and removing the formed coke from said retort.

2,714,087

**STABILIZATION OF PHENOL ALKYLATES**  
Donald R. Stevens, Wilkesburg, and Samuel C. Camp, Richland Township, Allegheny County, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 31, 1949,

Serial No. 124,722

14 Claims. (Cl. 202—57)

1. In a method of inhibiting the dealkylation of crude acidic alkylated phenols having a saponification number in excess of 2, at temperatures normally causing dealkylation thereof, the improvement which comprises washing said alkylated phenols with a nonacidic aqueous medium to lower the saponification number to a value not more than about 2, and then adding to the washed alkylate, and maintaining therein, a stoichiometric quantity of an alkaline agent, said quantity of alkaline agent being sufficient to neutralize the non-phenolic acidic matter remaining in said washed alkylate, said alkaline agent selected from the group consisting of alkali metal phenates and alkali metal alcoholates, said alcoholates having at least two carbon atoms.

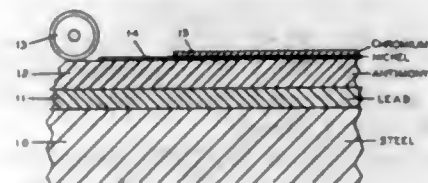
2,714,088

**ELECTRODEPOSITED COATINGS**

Walter P. Karash, Cleveland, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application January 8, 1952, Serial No. 265,450

15 Claims. (Cl. 204—36)



1. A process of producing a bright, electrodeposited coating wherein chromium is applied subsequent to antimony comprising electrodepositing on a bright antimony metal surface a film of a metal of the class consisting of nickel, cobalt, zinc, iron, white brass and copper of a thickness from 0.000002 to 0.0001 of an inch and electrodepositing a layer of chromium over said film, said bright antimony metal surface being the surface of an electrodeposit of antimony on and firmly adherent to a metallic base.

2,714,089

**ELECTRODEPOSITING IRON**

Walter R. Meyer, Hamden, Conn., assignor to Enthone, Incorporated, New Haven, Conn., a corporation of Connecticut

No Drawing. Application January 26, 1953,

Serial No. 333,358

6 Claims. (Cl. 204—48)

1. The process of electroplating iron onto an article which includes the step of preparing a bath containing water, from 0.5 to 5 molar alkali hydroxide, from 0.5 to 5 molar organic amine, from 0.02 to 0.5 molar ferric compound, and a salt of ethylenediaminetetraacetic acid in a molar ratio relative to the iron of from 0.5 to 1.5, the solution having a pH greater than 11, making the article to be coated a cathode in an electroplating cell, and passing an electric current through the cell at a current density of from 3 to 300 amperes per square foot of cathode surface.

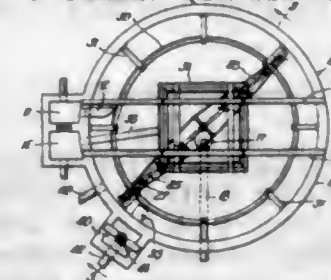
2,714,090

**CLARIFICATION DEVICE**

Henry L. Thompson, Portland, Oreg., and John A. Montgomery, Chicago, Ill., assignors to Lakeside Engineering Corporation, Chicago, Ill., a corporation of Illinois

Original application February 13, 1951, Serial No. 210,742. Divided and this application May 27, 1952, Serial No. 290,126

3 Claims. (Cl. 210—3)



1. In a settling device, in combination, a circular tank having a vertical cylindrical wall and an approximately horizontal bottom wall, a substantially cylindrical skirt depending within the tank in spaced relation to the vertical and bottom walls of the tank, said skirt dividing the tank into an annular race extending around the skirt and into a centrally disposed clarifying chamber within the skirt, an inlet conduit supplying incoming liquid to the annular race in a tangential manner to cause flow of the liquid around the race in addition to normal downward flow, a launder positioned within the clarifying chamber for withdrawing clarified liquid, a scum outlet located in the annular race and angularly spaced from the tangential inlet at least 180 degrees in the direction of liquid flow, a recirculation pipe extending through the vertical wall of the tank and into the annular race for drawing off some of the liquid from the race for recirculation purposes, said depending skirt being eccentrically positioned with respect to the vertical wall of the tank in a manner to provide an annular race of progressively decreasing width from the inlet conduit to approximately the scum outlet, and said recirculation pipe being located in the vicinity of the scum outlet and below the liquid level in the race but not deeper than approximately half the height of the depending skirt.

2,714,091

**PREPARATION OF LUBRICATING GREASE**

Ira Edwin Puddington and Aurelio Frederick Srianni, Ottawa, Ontario, Canada, assignors to National Research Council, Ottawa, Ontario, Canada, a body corporate of Canada

No Drawing. Application September 8, 1952,

Serial No. 308,526

Claims priority, application Canada September 2, 1952

14 Claims. (Cl. 252—16)

1. A process for the preparation of lubricating grease comprising adding to a mineral lubricating oil 5-25 parts

by weight of a solid, hydrophilic, finely divided, low bulk density, absorbent material per 100 parts of the lubricating oil and a drying oil in the proportion of 10-100% by weight of the absorbent material, and heating the mixture for 2-3 hours at 100-150° C.

2,714,092

**LITHIUM BASE GREASE CONTAINING GROUP II DIVALENT METAL ALKYL SALICYLATE, SUCH AS ZINC ALKYL SALICYLATE, AS COPPER CORROSION INHIBITOR**

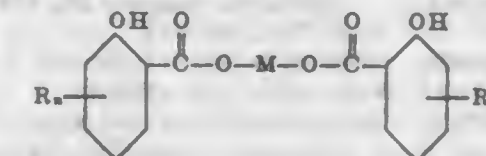
Charles H. Culnane, Grosse Ile, Mich., and John P. Dilworth, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application March 4, 1953,

Serial No. 340,396

9 Claims. (Cl. 252—36)

1. A lubricating grease composition comprising as the essential constituents an oleaginous liquid lubricating base of which at least the major proportion is a liquid aliphatic dicarboxylic acid ester within the lubricating viscosity range, about 10-30% by weight of a lithium soap of a saturated soap-forming fatty material, said grease normally being corrosive to copper, and from 0.25 to 5% by weight based on said composition of an oil-soluble metal alkyl salicylate of the formula



where R is an alkyl radical having from 5 to 30 carbon atoms, n represents the number of hydrogen atoms on the benzene nucleus which have been substituted by R and is a whole number from 1 to 3, the total number of carbon atoms in the said alkyl substitution on each benzene nucleus being at least 10 and M is a divalent metal of group II of the periodic table selected from the group consisting of zinc, magnesium, barium, calcium and strontium, said salicylate being in sufficient proportion to enable said grease composition to pass the copper corrosion test of U. S. Army Specification 2-134.

2,714,093

**METHOD OF PREPARING DETERGENT COMPOSITIONS**

Armin Blumenthal, Johannesburg, Union of South Africa

No Drawing. Application January 5, 1954,

Serial No. 402,409

8 Claims. (Cl. 252—113)

1. Process of producing a non-soapy detergent composition in massive form, which comprises melting together, at an elevated temperature not materially exceeding 100° C., 7 to 20 parts by weight of stearic acid, 2 to 16 parts by weight of a paraffin wax having a melting point lying between 52° and 60° C., and 0.5 to 2.0 parts by weight of an ester gum, continuing the heating and stirring until the bubble formation ceases, continuing the stirring without heating until the mixture assumes a creamy consistency, maturing the mixture by allowing it to stand for several days, preparing a hot aqueous solution of from 2.5 to 5.0 parts by weight of sodium carbonate, melting the matured mixture and thoroughly dispersing the same in said hot aqueous solution, with stirring, gradually adding to and thoroughly dispersing in the resulting hot partially emulsified mixture 5 to 15 parts by weight of a water-soluble alkyl benzene sulphate detergent the length of the alkyl chain of which is from C<sub>9</sub> to C<sub>16</sub>, serially incorporating 10 to 20 parts by weight of an inert filler and an aqueous suspension of 5 to 15 parts by weight of starch into the hot sulphate-containing mass, raising the temperature of the mass to approximately 100° C. and dispersing 5 to 15 parts by



weight of water glass (sodium silicate) therethrough, and thereafter working up and forming the resulting composition into massive form.

**2,714,094**  
**CERAMIC SURFACE CLEANSER**  
Michael J. McNally, Suffern, N. Y.  
No Drawing. Application October 22, 1952,  
Serial No. 316,323  
2 Claims. (Cl. 252-152)

1. A ceramic surface cleansing composition of matter whose active ingredients consist essentially of (a) ammonium bi-fluoride, (b) ammonium chloride, and (c) a normally solid, water soluble and compatible detergent, the ratio by weight of (a) to (b) being 6-25 parts of (a) to 12-70 parts of (b) and the ratio by weight of (c) to the sum of the weights of (a) and (b) being 1 part of (c) to 18-95 parts of the sum of the weights of (a) and (b).

**2,714,095**  
**MAGNESIUM BOROARSENATE PHOSPHOR**  
Yoshimasa Kobuke, Shinagawa-Ku, Tokyo, and Yasuo Uehara, Ota-Ku, Tokyo, Japan, assignors to Tokyo Shibaura Electric Co., Ltd., Kawasaki-Shi, Kanagawa-Ken, Japan  
No Drawing. Application January 25, 1954,  
Serial No. 406,048  
Claims priority, application Japan February 3, 1953  
4 Claims. (Cl. 252-301.4)

1. A phosphor whose ground material is a compound containing the three elements magnesium, arsenic and boron and corresponding to  $m\text{MgO} \cdot n\text{As}_2\text{O}_5 \cdot p\text{B}_2\text{O}_3$ , wherein  $m=4$  to 8 and  $n=0.8$  to 0.05, and which contains manganese as an activator.

**2,714,096**  
**NON-LINEAR RESISTANCES**  
Jacques Suchet, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil, societe anonyme francaise, Paris, France  
Application March 25, 1953, Serial No. 344,573  
Claims priority, application France March 31, 1952  
2 Claims. (Cl. 252-516)

1. A non-linear resistance comprising a shaped, sintered mass of finely divided particles of silicon carbide and between 20-40% of a semi-conductor oxide being partially reduced and having a deficiency of oxygen in the crystalline form thereof and being selected from the group consisting of incompletely oxidized oxides of vanadium, zinc and titanium.

**2,714,097**  
**AQUEOUS DISPERSIONS OF N-ALKOXYMETHYL-POLYHEXAMETHYLENE ADIPAMIDES AND THEIR APPLICATION**  
Frederick K. Watson and John L. Ludlow, Wilmington, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
No Drawing. Application November 27, 1951,  
Serial No. 258,521  
14 Claims. (Cl. 260-29.2)

1. An aqueous dispersion comprising from 1% to 50%, based upon the total weight of the dispersion, of an N-alkoxymethylpolyhexamethylene adipamide in the form of particles having an average diameter of less than 10 microns and having alkoxymethyl groups attached to from 20% to 60% of the amide nitrogen atoms; a dispersing agent; and from 0.5% to 10%, based upon the weight of the N-alkoxymethylpolyhexamethylene adipamide, of a water-soluble salt derived from a nitrogen-containing base and an acid having an ionization constant for the first hydrogen of at least  $1 \times 10^{-5}$ , said salt being decomposable by heat to yield an acidic residue at a temperature of less than  $170^\circ \text{C}$ .; said dispersion having a pH within the range of from 7.5 to 11.5.

**2,714,098**  
**PHENOLIC RESINOUS COMPOSITIONS**  
Robert W. Martin, Lafayette, Calif., assignor to General Electric Company, a corporation of New York  
No Drawing. Application May 15, 1952,  
Serial No. 288,026  
17 Claims. (Cl. 260-38)

1. A composition of matter consisting of a phenol-aldehyde novolac resin, 6 to 20 percent, by weight of the resin, of hexamethylenetetramine, from about 5 to 20 percent, by weight of the resin, of a monomeric epoxide selected from the class consisting of epichlorohydrin, glycidyl allyl ether, styrene monoxide, and butadiene monoxide and by weight, from about 0.2 to 2 parts of a filler per part of said initial resin.

**2,714,099**  
**VINYL CONTAINING ORGANOSILOXANE FLUIDS**  
Donald R. Weyenberg, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan  
No Drawing. Application January 11, 1954,  
Serial No. 403,428  
1 Claim. (Cl. 260-46.5)

A copolymeric siloxane composed essentially of from 20 to 75 mol per cent phenylvinylsiloxane, from 25 to 80 mol per cent phenylmethylsiloxane, and up to 5 mol per cent siloxane of the unit formula  $\text{R}_3\text{SiO}$ , where R is selected from the group consisting of methyl, phenyl, and vinyl radicals.

**2,714,100**  
**DIALLYL MONOCHLOROMETHANEPHOSPHONATE AND POLYMERS**  
Arthur Dock Fon Toy, Park Forest, and Kenneth H. Rattenbury, Chicago Heights, Ill., assignors to Victor Chemical Works, a corporation of Illinois  
No Drawing. Application August 5, 1952,  
Serial No. 302,835  
4 Claims. (Cl. 260-80)

1. The new compound: diallyl monochloromethane-phosphonate.

**2,714,101**  
**PROCESS OF CONDUCTING EXOTHERMIC BULK POLYMERIZATION**  
James L. Amos, Joseph C. Frank, and Kenneth E. Stober, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware  
Application January 6, 1950, Serial No. 137,255  
2 Claims. (Cl. 260-93.5)

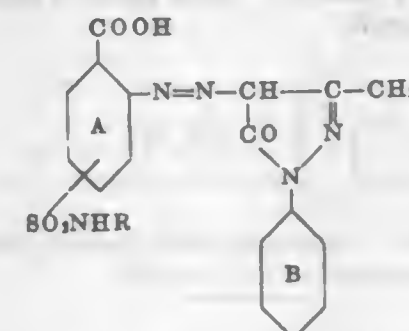


2. A method for the mass polymerization of styrene which comprises introducing the styrene into a zone having hollow indirect heat-transfer conduits extending through it, the conduits being so arranged that substantially every portion of the styrene is within two inches of the external surface of a conduit and being of such size as to present an outside surface area in the zone between 3 and about 30 square feet per cubic foot of styrene, starting polymerization by heating the conduits to raise the styrene to a predetermined polymerizing temperature, allowing polymerization to proceed while periodically detecting the temperature of the polymerizing styrene at a plurality of points spaced throughout the zone at a frequency of one point for at most every six cubic

feet of styrene and passing cooling fluid at a temperature below the polymerizing temperature through the inside of all conduits whenever the temperature of any of the detecting points exceeds the predetermined polymerizing temperature, and withdrawing polystyrene from the zone when polymerization is substantially complete.

**2,714,102**  
**O-HYDROXY-O'-CARBOXY AZO DYESTUFFS**  
Guido Schetty, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm  
No Drawing. Application January 9, 1952,  
Serial No. 265,733  
Claims priority, application Switzerland January 23, 1951  
6 Claims. (Cl. 260-147)

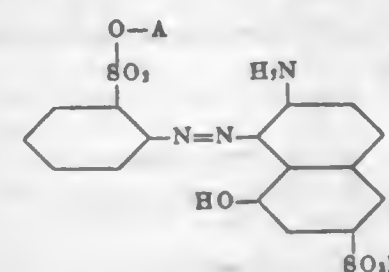
1. A member selected from the group consisting of the o-hydroxy-o'-carboxy azo dyestuffs corresponding to the formula:



and the complex chromium compounds thereof, wherein the substituent  $\text{SO}_2\text{NHR}$  with R as a member selected from the group consisting of H and hydroxyethyl is in one of the positions 4 and 5 of nucleus A and wherein the benzene nucleus B contains a substituent selected from the group consisting of H,  $\text{CH}_3$ ,  $\text{NO}_2$ ,  $\text{OCH}_3$ ,  $\text{OC}_2\text{H}_5$  and Cl.

**2,714,103**  
**MONOAZO DYESTUFFS**  
Achilles Conzetti, Lugano, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm  
No Drawing. Application January 28, 1954,  
Serial No. 406,882  
Claims priority, application Switzerland February 18, 1953  
7 Claims. (Cl. 260-198)

1. A monoazo dyestuff having the general formula:



wherein A represents an aromatic radical of the benzene series free from water-solubilizing groups.

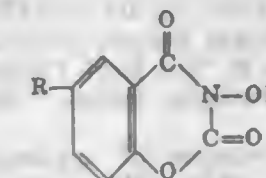
**2,714,104**  
**PREPARATION OF P-ALKYLAMINOAZO-BENZENES**  
Joseph A. Chenicek, Bensenville, and William K. T. Gleim, Orland Park, Ill., assignors to Universal Oil Products Company, Des Plaines, Ill., a corporation of Delaware  
No Drawing. Application July 31, 1953,  
Serial No. 371,727  
15 Claims. (Cl. 260-205)

1. A process for the preparation of an alkylamino-azoaryl compound which comprises diazotizing a primary aryl amine with a diazotizing agent selected from the group consisting of sodium nitrite and nitrous acid in

the presence of lactic acid of a concentration of from about 75% to about 90%, and directly coupling the resultant diazonium lactate with an N-alkyl aniline.

**2,714,105**  
**BENZOXAZINE DIONES AND METHODS OF PREPARING THE SAME**  
William B. Wright, Jr., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine  
No Drawing. Application December 31, 1953,  
Serial No. 401,725  
10 Claims. (Cl. 260-244)

1. A compound having the formula:



in which R is a member of the group consisting of hydrogen, halogen and hydroxyl radicals.

**2,714,106**  
**N-GLYCOLYLARSANILATE SALTS OF CHLOROQUINE**  
Emery W. Dennis and Alexander R. Surrey, Albany, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware  
No Drawing. Application August 10, 1953,  
Serial No. 373,452  
6 Claims. (Cl. 260-271)

1. A compound selected from the group consisting of the di- and tri-(N-glycolylarsanilate) salts of 7-chloro-4-(4-diethylamino-1-methylbutylamino)quinoline.

**2,714,107**  
**RACEMIZATION PROCEDURE FOR 1-(P-METHOXYBENZYL)-2-METHYL-1,2,3,4,5,6,7,8-OCTAHYDROISOQUINOLINE**  
Arnold Brossi, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey  
No Drawing. Application August 5, 1954,  
Serial No. 448,142  
Claims priority, application Switzerland August 13, 1953  
6 Claims. (Cl. 260-288)

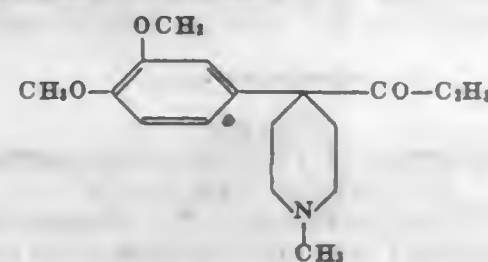
1. A process for racemizing optically active 1-(p-methoxybenzyl)-2-methyl-1:2:3:4:5:6:7:8-octahydroisoquinoline, comprising oxidizing an optically active 1-(p-methoxybenzyl)-2-methyl-1:2:3:4:5:6:7:8-octahydroisoquinoline with hydrogen peroxide, treating the obtained mixture of optically active N-oxide of 1-(p-methoxybenzyl)-2-methyl-1:2:3:4:5:6:7:8-octahydroisoquinoline and optically inactive 2-(N-methyl-hydroxyaminoethyl)-4'-methoxy-3:4:5:6-tetrahydrostilbene with an alkali hydroxide solution at elevated temperature and distilling the obtained uniform optically inactive 2-(N-methyl-hydroxyaminoethyl)-4'-methoxy-3:4:5:6-tetrahydrostilbene under reduced pressure.

**2,714,108**  
**PIPERIDYL ALKYL KETONES**  
Karl Miescher, Riehen, and Hans Kaegi, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.  
No Drawing. Application December 9, 1952,  
Serial No. 325,024  
Claims priority, application Switzerland January 29, 1952  
3 Claims. (Cl. 260-294.7)

1. A compound selected from the group consisting of



1 - methyl - 4 - [3':4' - dimethoxy - phenyl] - piperidyl-(4)-ethyl-ketone of the formula



and acid addition salts thereof.

2,714,109

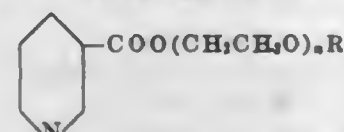
### PROCESS FOR THE PRODUCTION OF NICOTINIC ACID ESTERS

August Kottler and Ernst Seeger, Biberach an der Riss, Germany, assignors to "Dr. Karl Thomae G. m. b. H., Chemisch-pharmazeutische Fabrik," Biberach an der Riss, Germany

No Drawing. Continuation of application Serial No. 250,562, October 9, 1951. This application September 15, 1953, Serial No. 380,341

Claims priority, application Germany October 9, 1950 1 Claim. (Cl. 260-295.5)

Nicotinic acid esters having the formula:



wherein n is a numeral taken from the group consisting of 1 and 2, and R is an alkyl group having up to 4 carbon atoms, phenyl and benzyl.

2,714,110

### SUBSTITUTED TRIAZOLES AND METHOD OF PREPARING SAME

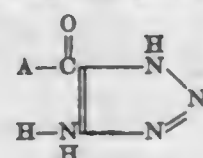
John S. Webb, Warren Township, Somerset County, and Andrew S. Tomcufcik, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 19, 1954,

Serial No. 417,500

9 Claims. (Cl. 260-308)

1. Compounds having the general formula:



in which A is a member of the group consisting of hydroxyl, amino and hydrazino radicals.

2,714,111

### PREPARATION OF THIENYL AMIDO-1,3-PROPANEDIOLS

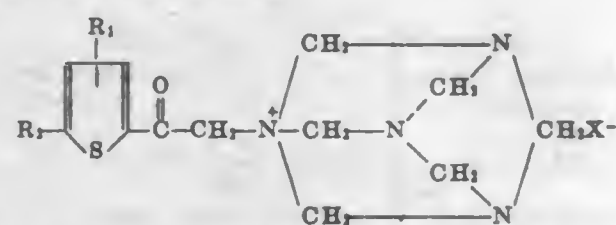
Edward C. Hermann, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 23, 1951,

Serial No. 243,361

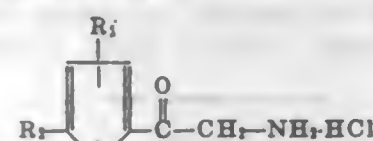
5 Claims. (Cl. 260-332.2)

1. A process which comprises the steps of hydrolyzing a compound of the formula,

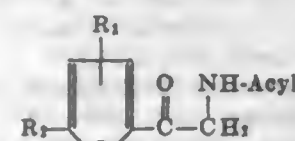


where R<sub>1</sub> is a member of the class consisting of hydrogen and lower alkyl radicals R<sub>2</sub> is a member of the class con-

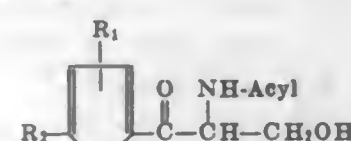
sisting of hydrogen, halogen, nitro and lower alkyl radicals, and X is a member of the class consisting of chloro and bromo radicals, with a mineral acid, to obtain a compound of the formula,



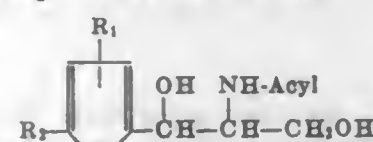
acylating the latter compound, recovering a compound of the formula,



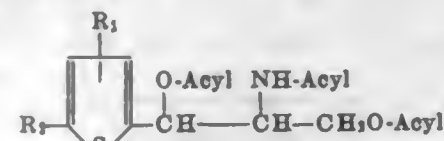
thus formed, reacting the latter compound with formaldehyde in the presence of dilute alkali to obtain a compound of the formula



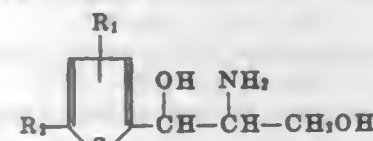
reacting the latter compound with sodium borohydride, recovering a compound of the formula,



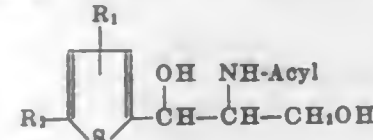
acylating the latter compound, recovering a triacyl compound of the formula,



hydrolyzing the latter compound with acid in an aqueous medium, neutralizing the acid with alkali, recovering a compound of the formula,



and mono acylating the latter compound to obtain a compound of formula,



2,714,112

### PROCESS FOR THE MANUFACTURE OF UNSATURATED COMPOUNDS OF THE ANDROSTANE SERIES

Karl Miescher, Riehen, and Albert Wettstein and Karl Heusler, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc.

No Drawing. Application July 3, 1952,

Serial No. 297,176

Claims priority, application Switzerland July 6, 1951

5 Claims. (Cl. 260-397.1)

1. A process for the preparation of unsaturated compounds of the androstane series with a double bond, which comprises subjecting an ester of an aliphatic sulfonic acid with a nuclearily saturated 7-hydroxy-androstane to the action of an alkaline dehydrosulfonating agent, whereby the esterified hydroxy group is split off at the 7-position and the hydrogen atom is eliminated at the 8-position, with formation of a 7,8-double bond.

2,714,113

### METHOD OF MAKING A PARTIAL ESTER COMPOSITION OF IMPROVED STABILITY

Noel H. Kuhrt, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 12, 1951,

Serial No. 251,138

6 Claims. (Cl. 260-410.7)

1. The process of preparing a partial ester composition of improved inherent stability against rancidity which comprises providing a reaction mixture containing a fatty material normally subject to oxidative rancidity, an excess of a polyhydric alcohol, and an alkali metal salt of ethylene diamine tetra-acetic acid, reacting said fatty material and said polyhydric alcohol in said reaction mixture at a temperature of at least 100° C. and thereby forming a reaction product containing a substantial amount of fatty acid partial ester of said polyhydric alcohol in admixture with unreacted polyhydric alcohol and said alkali metal salt of ethylene diamine tetra-acetic acid, separating from said reaction product unreacted polyhydric alcohol having dissolved therein substantially all of said salt of ethylene diamine tetra-acetic acid and recovering a fatty acid partial ester composition having improved inherent stability against oxidative rancidity but being substantially free of said salt of ethylene diamine tetra-acetic acid.

2,714,114

### CONTINUOUS PROCESS AND APPARATUS FOR REFINING GLYCERIDE OILS

Cleveland R. Scott, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 19, 1949, Serial No. 133,815

10 Claims. (Cl. 260-425)



8. In a countercurrent flow-type process for refining a glyceride oil by contacting such an oil with an aqueous alkaline treating agent, wherein soapstock is concomitantly formed and deposits on the walls of a chamber forming the zone of said contacting, the improvement comprising agitating the resulting mixture of countercurrently flowing liquids and concomitantly passing soapstock from said chamber by scraping the said chamber walls, and removing the said soapstock from the zone of said contacting.

10. Apparatus comprising an upright cylindrical chamber; an axially disposed rotatable shaft in said chamber; a screw segment in said chamber, having a bottom helical surface, and axially attached to said rotatable shaft; a horizontally disposed plate member bound by a sector of a circle, positioned in said chamber above said screw segment, and affixed to said screw segment.

2,714,115

### ETHANOL-MISCIBLE METHYL PHENYLBUTOXY-POLYSILOXANE

Norman G. Holdstock, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application July 2, 1954,

Serial No. 441,159

3 Claims. (Cl. 260-448.8)

1. A methyl phenyltertiarybutoxypolysiloxane obtained by hydrolyzing at a temperature below 80° C. a mixture of chlorosilanes consisting, by weight, of from 25 to 30 parts dimethyldichlorosilane, from 22 to 26 parts trimethylchlorosilane and from 45 to 50 parts phenyltrichlorosilane, employing as the hydrolyzing medium a

mixture of ingredients consisting, by weight, of from 90 to 110 parts tertiary butyl alcohol and from 200 to 400 parts water per 100 parts of the mixture of the aforesaid organochlorosilanes.

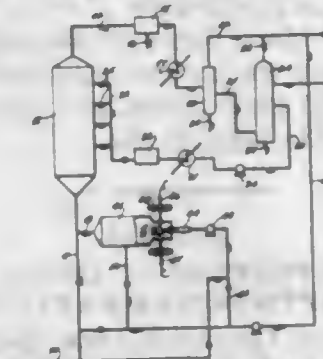
2,714,116

### HYDROCARBON SYNTHESIS WITH CATALYST OF LESS THAN ONE MICRON

Charles F. Teichmann, Crestwood, and James H. Graham, Mount Vernon, N. Y., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application March 31, 1950, Serial No. 153,246

11 Claims. (Cl. 260-449.6)



1. In the catalytic synthesis of hydrocarbons by contacting synthesis gas comprising hydrogen and carbon monoxide with a catalytic material to form a product mixture comprising desired hydrocarbons together with a normally gaseous effluent product fraction, the steps which comprise subjecting a material of the class consisting of metals of the iron group and ruthenium to a temperature above its melting point to convert said catalytic metal to a fluid, distending the fluid metal in a high velocity stream of expanding gas comprising said normally gaseous effluent product fraction, thereby providing a catalyst conditioning atmosphere, effecting the said distention of the fluid metal by projecting said expanding gas stream at the fluid metal at a rate sufficient to atomize the fluid into particles less than 1 micron in diameter and thereafter cause rapid cooling thereof to form a smoke phase composed essentially of active catalytic particles less than about one micron in diameter, mixing said smoke phase with synthesis gas at a temperature and pressure at which the catalyst is effective to convert substantial proportions of synthesis gas into said desired hydrocarbons, and recovering the desired product hydrocarbons.

2,714,117

### PRODUCTION OF ACETOACETIC ACID AMIDES

Richard Norman Lacey and Ernest Edward Connolly, Hull, England, assignors to British Industrial Solvents Limited, London, England, a British company

No Drawing. Application August 12, 1952,

Serial No. 304,005

Claims priority, application Great Britain August 27, 1951 10 Claims. (Cl. 260-471)

1. A process for the production of a pale-coloured acetoacetic acid amide which comprises reacting an arylamine having at least one -NH- group and having a dissociation constant smaller than 9×10<sup>-11</sup> with diketene at a temperature between room temperature and 100° C. in the presence in the reaction mixture of an enolisizing catalyst selected from the group consisting of tertiary amines and salts of such tertiary amines with weak acids, said arylamine and said catalyst being free from groups which interfere with the reaction under the conditions stated.

6. A process for the production of the acetoacetic acid amide of methyl anthranilate which comprises reacting methyl anthranilate with diketene at a temperature between room temperature and 100° C. in the presence in the reaction mixture of triethylamine.



### 2,714,118 RECOVERY OF CHEMICALS FROM BLACK LIQUOR

James E. Copenhaver, William A. Biggs, Jr., William H. Baxley, and John T. Wise, Hartsville, S. C., assignors to Sonoco Products Company, a corporation of South Carolina

No Drawing. Application July 22, 1953,  
Serial No. 369,742

8 Claims. (Cl. 260—527)

1. A process of treating black liquor obtained from pulping processes selected from the group consisting of neutral and alkaline pulping processes, comprising concentrating said black liquor to a solids concentration within the range of approximately 25% to 60%, acidifying the concentrated black liquor to liberate the acetic acid content, extracting the concentrated and acidified black liquor with methyl ethyl ketone, and separating the acetic acid from the methyl ethyl ketone.

### 2,714,119 PROCESS FOR PREPARING AMIDES OF ALPHA-MERCAPTO LOWER FATTY ACIDS

Nathan N. Crounse, Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application August 7, 1953,  
Serial No. 373,050

10 Claims. (Cl. 260—561)

1. The process for preparing an amide of an alpha-mercapto lower fatty acid which comprises ammonolyzing a 2-(lower alkoxy)ethyl ester of the said alpha-mercapto lower fatty acid with an agent of the class consisting of ammonia, hydrazine, and primary and secondary amines.

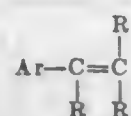
### 2,714,120 METHOD OF PREPARING ARALKYLATED PHENOLIC COMPOUNDS

Henry J. Kehe, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 23, 1950,  
Serial No. 163,808

6 Claims. (Cl. 260—619)

1. The method of preparing aralkylated phenolic compounds which comprises condensing a phenolic compound with an aryl-substituted alkene hydrocarbon having the formula



where Ar is an aryl group and R is a member selected from the class consisting of hydrogen and alkyl groups in the presence of from 0.01 to 5% by weight of a condensation catalyst selected from the class consisting of hydrocarbon sulfonic acids and aqueous sulfuric acid of a concentration from 25% to 50% H<sub>2</sub>SO<sub>4</sub> by weight, for each molar part by weight of said hydrocarbon.

### 2,714,121 PROCESS FOR PRODUCTION OF HALOHYDRINS

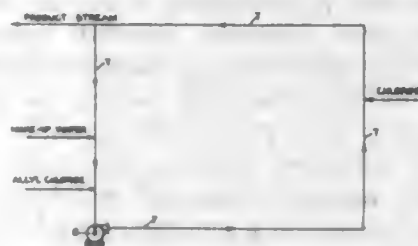
John Anderson and George F. Johnson, La Porte, and William C. Smith, Houston, Tex., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application May 25, 1951, Serial No. 228,216

9 Claims. (Cl. 260—633)

1. In a process for producing halo-hydrins by reacting an olefinic compound the group consisting of olefinic hydrocarbon, olefinic halo-substituted hydrocarbons, ole-

finic alcohol, olefinic ketones and olefinic aldehydes in the liquid state having at least one olefinic double bond in an aliphatic radical and a solubility in water of less than 1% at 20° C. with a hypohalous acid in an aqueous reaction medium containing a water-immiscible organic phase of by-products of the reaction, the method of reducing the formation of said by-products which comprises dis-



solving said olefinic compound in an aqueous reaction medium using at least 250 volumes of said medium per volume of said olefinic compound, adding halogen to the solution after solution of said olefinic compound is substantially complete, maintaining the mixture under reaction conditions until the added halogen has reacted while keeping the said organic by-product phase present in the form of particles of less than 100 microns in diameter.

### 2,714,122 PRODUCTION OF DICHLOROHYDRINS

William C. Smith, Houston, John Anderson, La Porte, and Justin L. Bloom, Pasadena, Tex., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application May 25, 1951,  
Serial No. 228,372

3 Claims. (Cl. 260—633)

3. In a process for producing dichlorohydrin by reaction of allyl chloride in the liquid phase with chlorine in aqueous solution, the steps comprising circulating an aqueous reaction mixture through a conduit system; continuously adding make-up water to the circulating mixture; continuously adding allyl chloride and chlorine to the circulating mixture, with the allyl chloride being employed in from 0.01 to 1% excess over the equimolar amount theoretically required, for reaction with the chlorine; retaining the resulting mixture in the system until reaction between the allyl chloride and chlorine is complete; continuously withdrawing from the system, as product, a portion of the mixture containing the reacted allyl chloride and chlorine; and recycling the balance of the mixture through the system.

### 2,714,123 PRODUCTION OF DICHLOROHYDRIN FROM ALLYL CHLORIDE

George F. Johnson, La Porte, Tex., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application May 31, 1951, Serial No. 229,200

6 Claims. (Cl. 260—633)

1. In a continuous process for producing an aqueous solution of dichlorohydrin, the method of reducing by-product losses in the reaction which comprises reacting allyl chloride, water and chlorine in a plurality of reaction zones in series in which reacted mixture is withdrawn from each zone and fed to the succeeding zone in the series, continuously feeding substantially all of said water into the first of said reaction zones, continuously feeding into each of the several reaction zones allyl chloride and chlorine in substantially equimolar proportions and withdrawing aqueous dichlorohydrin solution as product from the last of said reaction zones whereby the reaction is carried out at a higher average dilution.

### 2,714,124 MANUFACTURE OF OCTACHLOROCYCLOPENTENE

Aylmer Henry Maude and David Solomon Rosenberg, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

No Drawing. Application March 20, 1951,  
Serial No. 216,652

9 Claims. (Cl. 260—648)

1. The method which includes: maintaining a reaction zone containing a solid porous surface active catalyst at a temperature between about 280 degrees and about 550 degrees centigrade; passing a C<sub>5</sub> chlorohydrocarbon containing hydrogen and more than two chlorine atoms per molecule, and chlorine into said zone; maintaining the reaction mixture in the vapor phase; and separating octachlorocyclopentene from the gaseous effluent so produced.

### 2,714,125 PREPARATION OF 2,4,5-TRICHLOROBENZYL-CHLORIDE

Fritz Gerner, Ingelheim-Mitte, Germany, assignor to the firm "C. H. Boehringer Sohn," Ingelheim am Rhein, Germany, a partnership

No Drawing. Application April 10, 1951,  
Serial No. 220,359

Claims priority, application Germany April 20, 1950  
5 Claims. (Cl. 260—651)

3. A process for the preparation of 2,4,5-trichlorobenzyl-chloride in which 1,2,4-trichlorobenzene is reacted with chloromethyl ether at temperatures in the range of -20° to +40° C. in a 2 to 10 fold excess of fuming sulphuric acid over the molar proportion, said fuming sulphuric acid containing up to 10% of free sulphur trioxide.

### 2,714,126 METHOD OF EFFECTING CONVERSION OF GASEOUS HYDROCARBONS

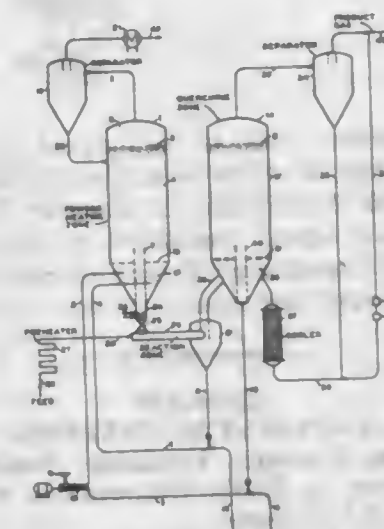
Percival C. Keith, Peapack, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Original application July 19, 1946, Serial No. 684,684. Divided and this application January 28, 1950, Serial No. 141,149

4 Claims. (Cl. 260—679)

1. A process for the conversion of normally gaseous

hydrocarbons which comprises intermingling preheated gaseous hydrocarbons with a hot refractory powder while said powder is above 1800° F., the amount of said powder being sufficient to rapidly heat said hydrocarbons to the desired reaction temperature, passing the resulting suspension of powder and gases through an elongated reaction zone, thereafter discharging the resulting effluent of gaseous reaction products and powder into the bottom of an enlarged vertical zone in which the velocity of the gases is reduced sufficiently to cause said powder to segre-



gate into a relatively dense, fluid layer in the bottom portion of said enlarged zone, maintaining said layer within said enlarged zone at a temperature materially below the desired reaction temperature to rapidly cool said reaction products and prevent secondary reactions, withdrawing a separate stream of powder from the lower portion of said enlarged zone below the level of said layer, heating at least a portion of the powder so removed to a temperature above 1800° F. and again intermingling said heated powder with additional gaseous hydrocarbons to be converted.

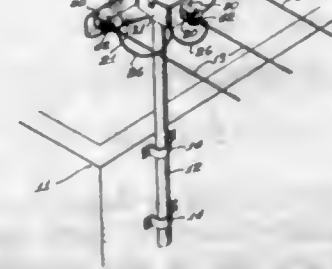
## ELECTRICAL

### 2,714,127 WITHDRAWN

### 2,714,128 ELECTRICAL SERVICE HEAD CONSTRUCTION

Michael Thomas, Los Angeles, Calif.  
Application May 24, 1954, Serial No. 431,771

5 Claims. (Cl. 174—81)



1. An integral electrical service head construction for supporting insulators in spaced horizontal relation comprising, in combination: an elongated L-section member adapted to support an insulator at each end and includ-

ing a back wall and reinforcing web at right angles thereto; a forwardly extending wall at the central portion of the member, integral with said web, and provided with means for connecting said service head construction to an associated supporting mast and having an opening for passage therethrough of service wires; an upstanding front wall integral with the forwardly extending wall and adapted to support an insulator between ends of said member; side walls integrally connecting the front wall with the back wall, the forwardly extending wall and said web for reinforcing the front wall; all of said walls defining a hollow receptacle; and a cover for said receptacle including a peripheral depending flange extending over and enclosing top margins of said walls.

### 2,714,129 AMPLIFYING SYSTEMS

Edwin A. Goldberg, Princeton Junction, N. J., assignor to Radio Corporation of America, a corporation of Delaware

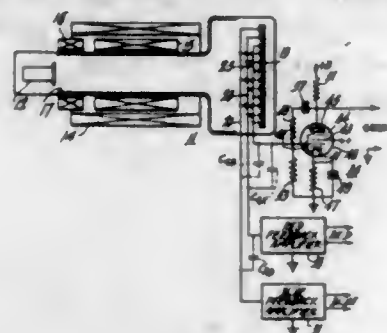
Application April 14, 1953, Serial No. 348,764

4 Claims. (Cl. 178—5.4)

1. In a color television system, apparatus comprising the combination of a camera tube having a plurality of



related means for deriving respective component color signals from a common current source, said common current source comprising a scanning cathode ray beam, and each of said related deriving means including a set of mutually connected signal strips interleaved with the signal strips of the other signal deriving means, a plurality

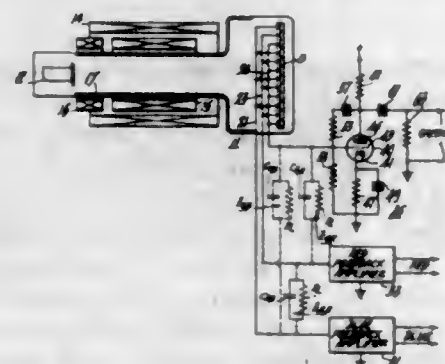


of signal amplifiers, each of said signal amplifiers being coupled to a respective one of said signal deriving means, and means for establishing a negative feedback path in each of said signal amplifiers so as to reduce the effective input impedance of each of said signal amplifiers to a relatively low value.

2,714,130

## AMPLIFYING SYSTEMS

Harold Borkan, Franklin Township, Somerset County, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 29, 1953, Serial No. 351,840  
7 Claims. (Cl. 178—5.4)



1. In a color television system including a cathode ray tube comprising a plurality of sets of signal strips for deriving respective component color signals, cross-coupling impedances existing between said signal strip sets, said impedances being essentially capacitive over a given range of signal frequencies, a signal amplifying system comprising the combination of a plurality of signal amplifying means, each of said signal amplifying means being coupled to a respective one of said signal strip sets, means for establishing a negative feedback path in each of said signal amplifying means, each of said negative feedback paths being essentially capacitive over said given range of signal frequencies so that the effective input impedance of each of said signal amplifying means bears a predetermined ratio to said cross-coupling impedances over said given range.

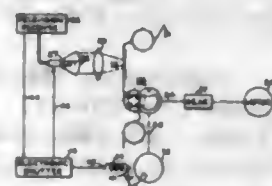
2,714,131

## TELEVISION RECORDING APPARATUS

Frank N. Gillette, Raymond L. Garman, and Louis L. Pourclau, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York  
Application October 12, 1948, Serial No. 54,042  
12 Claims. (Cl. 178—7.4)

1. An apparatus for recording received television images in which the images displayed on a cathode ray tube screen are projected on a sensitized film strip comprising, a camera including an intermittent periodically advancing said film strip, a signal generator operated by

said camera intermittent generating a signal of short time duration immediately succeeding the operation of the intermittent in advancing the film strip, means controlled by said generated signal for initiating the illumination

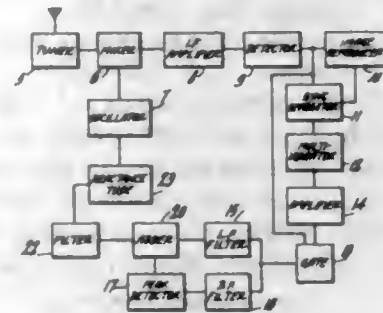


tion of the cathode ray tube screen and means controlled by the received television horizontal synchronizing signals for terminating such illumination after a time interval corresponding to the time required to receive one complete television picture.

2,714,132

## AUTOMATIC FREQUENCY CONTROL CIRCUIT

Gordon L. Fredendall, Huntingdon Valley, Pa., assignor to Radio Corporation of America, a corporation of Delaware  
Application February 27, 1952, Serial No. 273,691  
4 Claims. (Cl. 178—69.5)

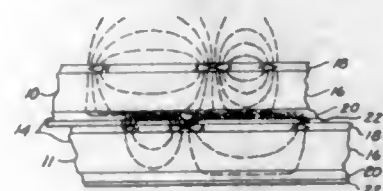


1. Apparatus for controlling the frequency of a local oscillator said local oscillator cause to provide a suitable heterodyne signal in a heterodyne circuit, said heterodyne circuit employed to heterodyne a composite signal having a low frequency component of fixed amplitude and a high component of fixed amplitude comprising in combination, means for separating said low frequency signal from said composite signal, means for separating said high frequency signal from said composite signal, signal adding means coupled between said low frequency separating means and said high frequency separating means for deriving a control signal representing the difference in amplitude between said low and high frequency signals, and an oscillator frequency controlling means coupled between said signal adding means and said local oscillator for controlling the frequency of said local oscillator in response to said control signal.

2,714,133

## MAGNETIC SHIELDING MEDIUM

Leonard Dodge Barry, Detroit, Mich.  
Application June 18, 1952, Serial No. 294,279  
4 Claims. (Cl. 179—100.2)



1. On a magnetic recorder, a magnetic medium which comprises, a magnetic recording layer and a magnetic shielding layer on one side of said recording layer, said shielding layer having low coercivity and high permeability under low magnetizing forces; a magnet located against said shielding layer and arranged to magnetize said shielding layer transversely; a magnetic playback

head located against said recording layer opposite said magnet, whereby said magnet magnetizes said shielding layer rerouting to said head longitudinal flux closed through said shielding layer from a recording on said recording layer when under said head.

2,714,134

## HEADSET RECEIVER

Martin L. Touger, Audubon, and Alfred H. Kettler, Collingswood, N. J., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Air Force  
Application February 27, 1951, Serial No. 213,022  
7 Claims. (Cl. 179—115.5)



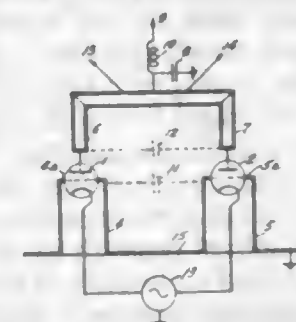
1. In a sound translating device for use in a fluid medium having relatively great variations in density and including a magnetic field structure, a vibratory system comprising a diaphragm mounted for vibratory movement, a voice coil attached to said diaphragm for movement therewith, the mass of said voice coil being equal to the mass of said diaphragm, said diaphragm and said magnetic field structure cooperating to provide an acoustically closed cavity for controlling diaphragm movement thereby to obtain maximum sensitivity over the ranges of density of said fluid medium, and means for equalizing the density of the medium, said last mentioned means including a restricted passageway connecting said cavity with the fluid medium within which said device is disposed, said passageway being restricted so as to provide a high impedance to audio frequency sound waves.

2,714,135

## WIDE BAND HIGH FREQUENCY THERMIONIC VALVE CIRCUITS

Eric McPhail Leyton, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company  
Application November 23, 1949, Serial No. 128,943  
Claims priority, application Great Britain November 25, 1948

3 Claims. (Cl. 179—171)

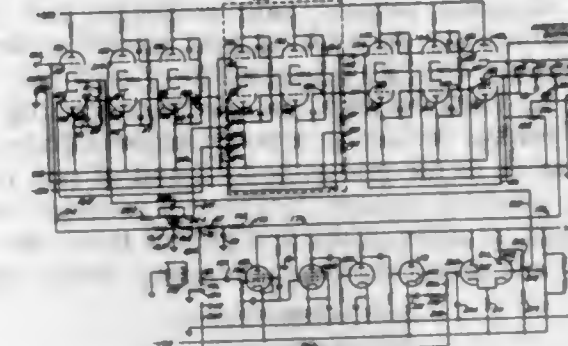


1. A wide-band high frequency thermionic valve circuit comprising a thermionic valve having at least an anode, a cathode, and a control electrode between said anode and cathode, an inductor in the form of a tubular conductor connected at one end to said control electrode, means grounding the other end of said tubular conductor for high frequency oscillations, a source of input signals, an input circuit including a lead extending longitudinally through said tubular conductor from said source to said cathode, and an inductor connected from said anode to ground, said first and second inductors being tuned to resonance by stray and distributed capacity to constitute a tuned output circuit screened from said input circuit by said tubular conductor:

2,714,136

## STABILIZED DIRECT-COUPLED AMPLIFIER

Ivan A. Greenwood, Jr., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York  
Application February 27, 1951, Serial No. 212,980  
2 Claims. (Cl. 179—171)

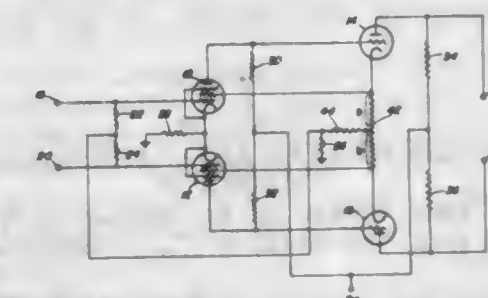


1. An amplifier of the character described comprising, a direct-coupled amplifier including a plurality of amplifier stages, means for impressing a control signal potential on the input thereof, a degenerative feedback circuit therefor, means connected to a terminal of said direct-coupled amplifier located at a point subsequent to at least the first stage thereof for deriving therefrom a reference potential the magnitude of which is equal to the signal developed at that point divided by the gain of the direct-coupled amplifier up to that point, a first balanced series resistor network having said control signal potential impressed on one end thereof and said reference potential impressed on the other end thereof, an alternating current amplifier having its input connected to the electrical midpoint of said first series resistor network, means connected to an intermediate terminal of said direct-coupled amplifier for deriving therefrom a potential whose amplitude is double that of said control signal potential, a second resistor network having said double amplitude potential impressed on one end and the other end connected to the control signal potential terminal of said first resistor network, the resistance of said second resistor network being equal to the resistance of that portion of said first resistor network included between said control signal terminal and said electrical midpoint, means for periodically grounding said electrical midpoint whereby the signal input of said alternating current amplifier alternates between potential limits defined by ground and the potential of said electrical midpoint, means for converting the output signal of said alternating current amplifier to a direct current signal, and means controlled by said direct current signal for adjusting the static potential of a selected portion of said direct-coupled amplifier to compensate for the zero drift thereof.

2,714,137

## STABILIZED AMPLIFIER

George S. Dzwnos, Tulsa, Okla., assignor to the United States of America as represented by the Secretary of the Navy  
Application October 12, 1944, Serial No. 558,413  
3 Claims. (Cl. 179—171)



1. In a D. C. amplifier circuit, a first pair of amplifying tubes including screen grids, said first pair of tubes including a grid cathode circuit and being connected in

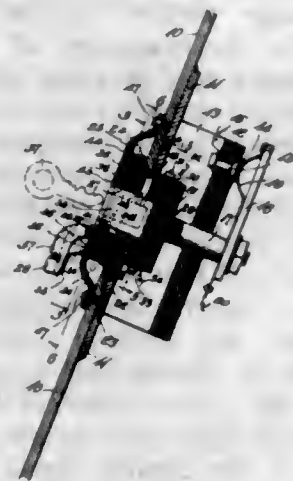


push-pull circuit arrangement, means for applying a signal potential to the grids of said first pair of amplifying tubes, a second pair of tubes, means for connecting the plates of said first pair of tubes with the grids of said second pair of tubes respectively, a potentiometer comprising a resistance element disposed between the cathodes of said second pair of tubes and a sliding contactor, a voltage divider disposed between said contactor and ground, means connecting the ends of said potentiometer resistance element with the screen grids of said first pair of tubes in feedback relation, and means connecting a point on said voltage divider to a point removed from ground and common to the grid-cathode circuit of said first pair of tubes whereby negative feedback is provided from the second pair of tubes to the first pair of tubes, the adjustment of said potentiometer maintaining circuit balance.

2,714,138

# SWITCH CONSTRUCTION FOR CONTROL SYSTEM FOR AUTOMOBILE HEADLIGHTS AND IGNITION SYSTEM

Anthony Arnejo, Detroit, Mich.

Application November 14, 1952, Serial No. 320,419  
4 Claims. (Cl. 200-44)

1. A device of the character described comprising in combination with a vehicle control panel and a lamp circuit controlling shaft, the provision of a hollow cylinder formed at the rearward end of said shaft and extending revolvably through said panel, a cap affixed to the rearward end of said hollow cylinder and having a central opening therein, a cylindrical block of dielectric material revolvably mounted in said hollow cylinder, an arcuate band of electrically conductive material affixed in the peripheral portion of said block, a pair of fixed contacts mounted at diametrically opposed points upon the inner wall of said cylinder and adapted to abut said band, an ignition circuit including said fixed contacts, a cylindrical lock centrally affixed in said block, said cylinder having a recess in its inner wall, a radially extending bolt operable by said lock and receivable in said recess, a downwardly and outwardly disposed handle affixed to the outer face of said cap, and a cover plate for said cap affixed to said panel and having a central circular opening for the exposed rearward end of said lock, and an arcuate slot communicating with said central circular opening for the extension of said handle there-through.

2,714,139

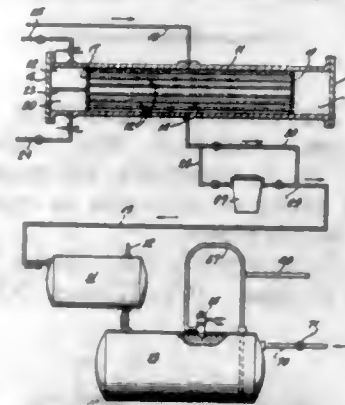
# FUEL OIL HEATER AND SAFETY MEANS THEREFOR

Henry F. Yula, Bronx, N. Y., assignor to Yula Water Heaters, Inc., New York, N. Y., a corporation of New York

Application August 7, 1952, Serial No. 303,135  
6 Claims. (Cl. 200-61.05)

1. In a device of the character described, a fuel oil heater having walls confining the separate flow of fuel oil

and steam therethrough for heating the fuel oil, a discharge pipe line connected with the heater for carrying off the condensate of the steam, a tank arranged in said pipe line below said fuel oil heater for collecting the condensate, a circuit breaker carried by said tank having

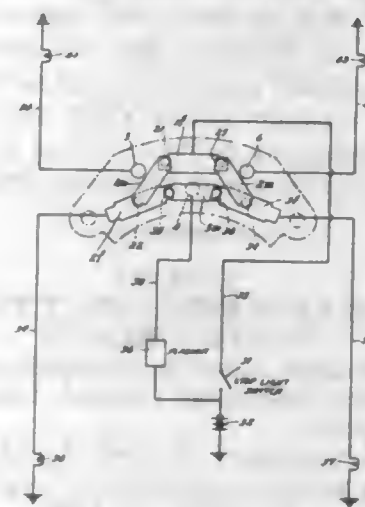


spaced electrical terminals normally closed through the condensate in said tank and being adapted to be opened by fuel oil leaking through breaks in the walls of said heater flowing with the condensate and displacing the condensate between said terminals.

2,714,140

# SWITCH FOR AN AUTOMOBILE TURN INDICATING SYSTEM

John J. Spicer, Jr., Philadelphia, Pa., assignor to United Specialties Company, Philadelphia, Pa., a corporation of Delaware

Application December 26, 1952, Serial No. 328,095  
11 Claims. (Cl. 200-61.34)

1. For an automobile signaling system, a control switch comprising: six stationary terminals mounted in an insulating base, each having a flat contacting surface, three of said terminals being generally elongated in shape, the axes of two of which lie along a first line and the axis of the third of which lies along a second line substantially parallel to the first, the fourth of the terminals lying along said first line interjacent said two, and the fifth and sixth fixed terminals lying along said second line and disposed respectively at opposite ends of said third terminal; and a plurality of elongated electrical independent bridging connectors mounted in a carrier providing movement thereof over the surfaces of said fixed terminals, the carrier having a neutral and two settable positions.

2,714,141

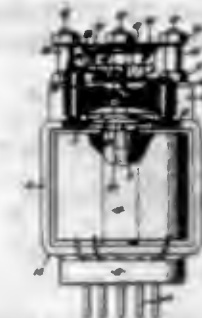
# SHOCK AND VIBRATION RESISTANT SOLENOID RELAY

George M. Urey, Charles H. Porch, Donald R. Jarrett, and Winford M. Crawford, Los Angeles, Calif., assignors to Deltronic Corporation, Los Angeles, Calif., a corporation of California

Application December 8, 1952, Serial No. 324,770  
6 Claims. (Cl. 200-87)

1. A shock and vibration resistant relay comprising a solenoid having an axial core, an armature adapted to

be attracted thereby when the solenoid is energized, said armature being arranged in axial alignment with the core and having one end slidably guided by said core so as to be held against lateral displacement, the other end of the armature being resiliently supported by a substantially flat spiral spring which holds that end of the armature against lateral displacement but permits axial movement thereof, said spring having a plurality of arms

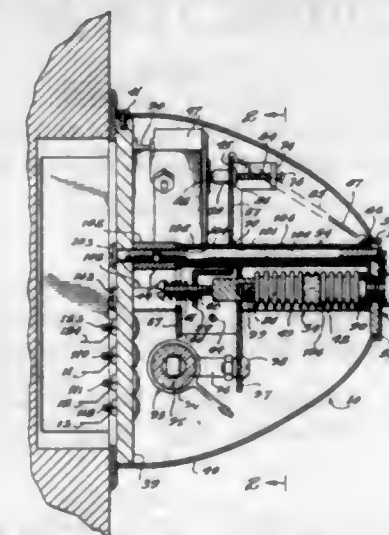


which are of unequal width and which taper outwardly from a hub portion that is connected with the armature to finite end portions which are fixed to support said armature, a contactor operatively connected to the armature so as to be moved thereby, contacts engageable and disengageable by the contactor, and an arched snap-over spring exerting pressure on the contactor to urge the contactor into either of its extreme positions.

2,714,142

# RADIANT RAY AND CONVECTION RESPONSIVE THERMOSTAT

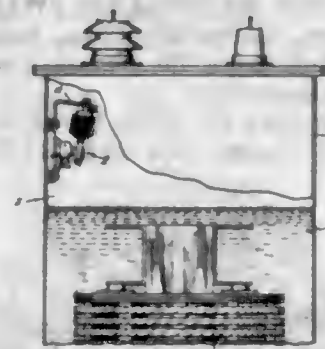
Thomas Napier Adlam, West Orange, N. J., assignor to Sarcotherm Controls, Inc., New York, N. Y., a corporation of Illinois

Application November 19, 1951, Serial No. 257,120  
7 Claims. (Cl. 200-122)

1. In a thermostat, a casing including a base and a metallic shell of parabolic formation in cross-section secured to said base, a thermodynamic element, means securing said thermodynamic element to said casing to extend through the focal point of the shell for receiving radiant rays focused thereon by the parabolic formation of the shell, an electric switch, means carried by said casing securing said switch in operative position, electrical conductors connecting said switch in an electric circuit, a lever, means carried by said casing supporting said lever intermediate said thermodynamic element and said switch for operation of the switch by the expansion of said thermodynamic element against said lever in response to the combined heating effect of the atmosphere surrounding said casing and the radiant rays on said shell upon said thermodynamic element.

2,714,143

# CIRCUIT BREAKER

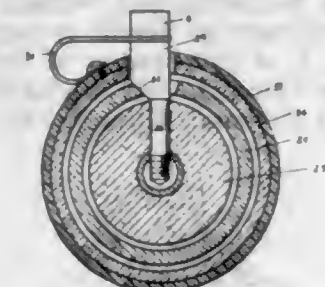
Lawrence C. Whitman, Pittsfield, Mass., and James R. Barr, Rome, Ga., assignors to General Electric Company, a corporation of New York  
Application May 6, 1954, Serial No. 427,904  
5 Claims. (Cl. 200-140)

2. In an electrical apparatus submerged in a dielectric cooling liquid within a closed casing, said liquid partially filling said casing, said liquid having a predetermined boiling point temperature whereby high pressure vapors of said liquid are formed in said casing when a predetermined maximum operating temperature of said apparatus is exceeded, a pair of contacts in the electrical circuit of said apparatus and means for automatically opening said contacts when said maximum operating temperature is exceeded and for automatically closing said contacts subsequent to said opening subsequent to a predetermined decrease in the temperature of said apparatus below said maximum operating temperature comprising a bellows actuator disposed in said high pressure vapors, said bellows actuator collapsible and operable in response to said high pressure vapors to open said contacts and expandable and operable in response to said predetermined decrease to close said contacts.

2,714,144

# CIRCUIT INTERRUPTER

Rosal H. Amundson, Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application April 22, 1953, Serial No. 350,443  
6 Claims. (Cl. 200-146)

4. A load break switching mechanism consisting of a main switch means for electrically connecting and disconnecting an electric line and an auxiliary circuit interrupter normally in parallel circuit relation to said main switch means and adapted to carry the entire load for an interval after said main switch means is operated to disconnect said electric line, said circuit interrupter including a vented tubular housing having an insulating surface defining an axial bore, a first contact communicating with said bore, a second contact contained within said bore and normally releasably engaged in circuit closing position with said first contact, a stationary supporting cylinder coaxially positioned within said bore and having an insulating surface jointly defining an annular arc-extinguishing chamber with the insulating surface of said housing, a tubular rotatable arc cutoff member disposed within said chamber and having its longitudinal axis substantially concentric with the longitudinal axis of said housing and said cylinder, said cut-

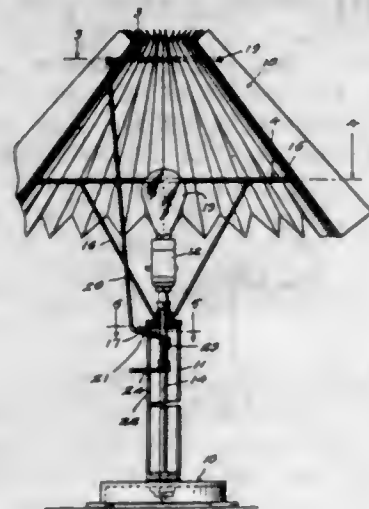






### 2,714,154 INVERTIBLE LAMPSHADE

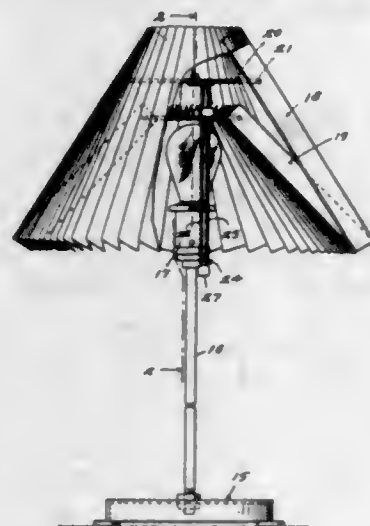
Erick Johnson, Coral Gables, Fla., assignor of one-half to  
Mem C. Weir, Coral Gables, Fla.  
Application December 13, 1951, Serial No. 261,466  
1 Claim. (Cl. 240—108)



An invertible lamp shade structure comprising a base, a hollow supporting column rising from said base, a socket support carried by said column, a light socket carried by said support, a ring-shaped member positioned substantially above said socket, means including elongated angularly disposed uprights, carried by said column supporting said ring-shaped structure, a frusto-conical pleated shade supported by said ring-shaped member, said shade having aligned apertures through the pleats thereof at the small end of the shade, a ring passing through said apertures, said ring being substantially smaller in diameter than said ring-shaped member, said column having an elongated vertical slot therein, a rod extending vertically through said column, a slide member on said rod, a vertical angularly disposed bar extending from said slide to said ring and movable to vary the position of said ring in a vertical direction relative to said ring-shaped member, means exteriorly of said column for moving said slide, and a slide locking member fixed to said slide and projecting through said slot connected to said means for moving said slide.

### 2,714,155 ADJUSTABLE LAMP SHADE

Erick Johnson, Coral Gables, Fla., assignor of one-half to  
Mem C. Weir, Coral Gables, Fla.  
Application December 13, 1951, Serial No. 261,467  
1 Claim. (Cl. 240—108)

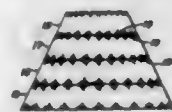


An adjustable lamp shade comprising an upstanding bracket, a ring at the upper end of said bracket, an outer flexible frusto-conical shade, an inner flexible frusto-

conical shade connected at the base thereof to said outer shade, said ring being secured to the upper end portion of said outer shade, a vertically adjustable slide engaging said bracket, a ring carried by said slide secured to the upper end portion of said inner shade, and means adjusting said slide relative to said bracket, said means being movable to a point at which said inner shade assumes a substantially flat circular shape at the base of said outer shade.

### 2,714,156 LAMPSHADES

Gilbert T. Robertshaw, Slatersville, R. I.  
Application July 8, 1952, Serial No. 297,598  
1 Claim. (Cl. 240—108)

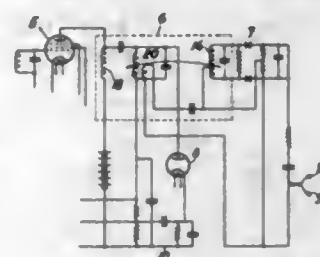


A lampshade comprising a plurality of superposed annular sections having interfitting and mating contiguous edges for retaining the sections in superposed relatively rotatable relation, said sections being provided with designs thereon at said edges spaced around the same and rotatable into different positions by relative rotation of the sections, the designs at the contiguous edges of at least two of said sections mating in one position of the designs and forming composite designs spaced apart around said edges, the designs at said contiguous edges being relatively staggered and mating in another position thereof to form another composite and continuous design.

### 2,714,157

#### RADIO RECEIVING CIRCUIT

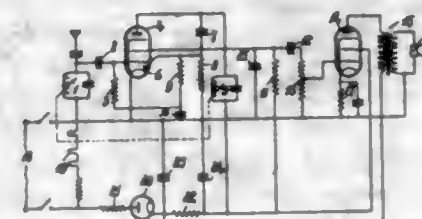
Willem Wigger Boelens, Eindhoven, Netherlands, assignor to  
Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application December 20, 1949, Serial No. 133,990  
Claims priority, application Netherlands January 27, 1949  
1 Claim. (Cl. 250—20)



An adapter for receiving frequency-modulation signals and provided with a power supply operative at a predetermined level, said adapter being intended for use with a low-frequency amplifier provided with a power supply operative at a level at variance with that of said adapter; said adapter comprising an amplifying stage responsive to said frequency-modulation signals and including an output impedance, a discriminator network for translating said frequency-modulation signals to amplitude-modulation signals and including a primary winding coupled to said output impedance and a secondary winding coupled to said primary winding, a rectifying circuit for demodulating said amplitude-modulation signals and including a pair of unidirectional elements each having one terminal connected to a respective end of said secondary windings and an output resistance interconnecting the other terminals of said elements, and a coil inductively coupled to said primary winding, one end of said coil being coupled to the electrical centers of said secondary winding and said resistance, the other end of said coil being connected to one end of said resistance.

### 2,714,158 RADIO RECEIVER CIRCUIT WITH REFLEX MEANS

Jan Schreur and Johan Hendrik van Wageningen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application July 30, 1951, Serial No. 239,205  
Claims priority, application Netherlands August 10, 1950  
3 Claims. (Cl. 250—20)

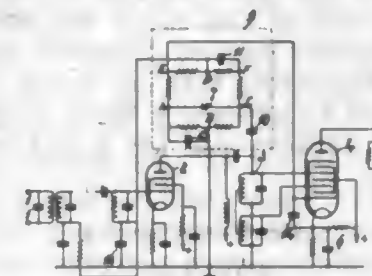


1. A receiver for an incoming high-frequency wave modulated by a low-frequency signal comprising a reflex amplifying stage including an electron discharge tube having a cathode, a control grid, a screen grid and an anode, a first high-frequency resonant circuit coupled between the control grid and cathode of said tube, a second high-frequency resonant circuit coupled between the anode and cathode of said tube, said resonant circuits each including an inductance and permeability tuning means therefor, means ganging said tuning means for simultaneous adjustment, means to detect the high-frequency oscillations set up across said second circuit to derive the low-frequency signal therefrom, first and second serially-connected resistors, means to supply said detected signal through said resistors to said control grid, a capacitor connecting the junction of said resistors to the cathode of said tube, and means to derive the amplified low-frequency signal from said screen grid.

### 2,714,159

#### CIRCUIT-ARRANGEMENT FOR QUIET-TUNING RADIO-RECEIVERS

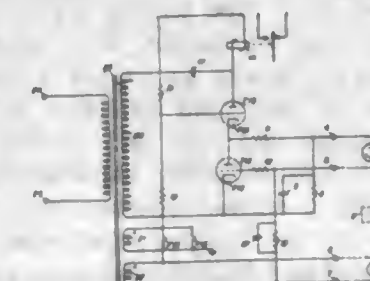
Antonius Boekhorst, Eindhoven, Netherlands, assignor to  
Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application September 10, 1952, Serial No. 308,849  
Claims priority, application Netherlands September 17, 1951  
2 Claims. (Cl. 250—20)



1. In a radio receiver including an intermediate-frequency stage having input and output circuits and a succeeding stage coupled to said output circuit, a silent tuning device for said receiver comprising means to block said succeeding stage for applied intermediate-frequency signals falling below a predetermined amplitude level, a four-terminal impedance bridge network, a rectifier coupling said output circuit to said network to apply a voltage thereto depending on the amplitude of said intermediate-frequency signals, means for coupling a first terminal of said four terminals to a point of constant potential, means connecting a point in said network to said succeeding stage to apply thereto a releasing voltage having a gradually increasing positive potential with respect to that of said first terminal with an increase in the amplitude of said intermediate-frequency signals, whereby said network develops at said point a voltage unblocking said succeeding stage, and means for deriving an

automatic gain control voltage from a second of said four terminals having a substantially constant direct potential at a low amplitude of said intermediate-frequency signals and a gradually increasing negative direct potential with an increase in the amplitude of said intermediate-frequency from the moment said releasing voltage exceeds a predetermined value.

2,714,160  
PHOTOELECTRIC CONTROL APPARATUS  
Donald J. MacDougall, Framingham, Mass., assignor to  
Electronics Corporation of America, a corporation of  
Massachusetts  
Application June 30, 1951, Serial No. 234,495  
4 Claims. (Cl. 250—27)



1. A control circuit comprising: a source of alternating potential having a plurality of terminals, a first and a second electron tube, each having an anode, a cathode and a control electrode, an output device responsive to current flow therethrough, means including said output device connecting the anode of said first electron tube to a terminal of said source, a direct connection between the cathode of said first tube and the anode of said second tube, means connecting the cathode of said second tube to another terminal of said source, a potential divider having a tap thereon, means connecting said potential divider across said source, a connection between the tap of said potential divider and the control electrode of said first electron tube, a capacitor, means including said capacitor connecting the anode to the cathode of said second tube, a variable conductance device and a resistive load in series therewith, means to connect said variable conductance device and said load between the anode and the cathode of said second electron tube, a connection from the junction of said variable conductance device and of said load to the control electrode of said second electron tube, and means to apply a biasing potential to said second electron tube.

### 2,714,161 VIBRATION ARRESTER FOR MULTI-ELEMENT ANTENNA ARRAYS SUCH AS USED IN TELEVISION AND F. M.

Arthur H. Featherstun, Mount Vernon, Ill.  
Application October 12, 1951, Serial No. 250,981  
4 Claims. (Cl. 250—33)



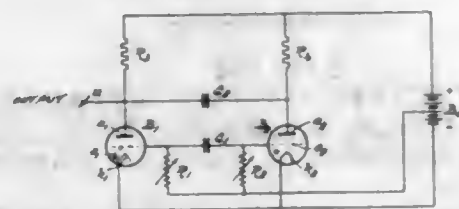
1. In a multi-element antenna array, the combination of a horizontally extending element having at least one free end, and vibration damping means comprising a housing rigidly secured to said free end and having an internal cavity extending in the same direction as said element, and a movable damping weight contained in said cavity, said weight comprising a unitary body having a volume which occupies a substantial portion of the volume of said cavity but which is substantially smaller both longitudinally and transversely than said cavity, whereby the weight is free to move both transversely and longitudinally in the cavity.



2,714,162

## RELAXATION GENERATOR

Willem Six and Jacobus Domburg, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application May 9, 1951, Serial No. 225,306  
Claims priority, application Netherlands June 29, 1950  
3 Claims. (Cl. 250-36)



1. A relaxation oscillator for producing a periodically altered voltage, said oscillator comprising two gaseous discharge tubes, each tube having a cold cathode, a control electrode, and an anode, first, second, third and fourth resistances, means to supply a first positive potential relative to said cold cathodes to the anodes of said tubes through said first and second resistances respectively, said anodes being capacitively intercoupled, means to supply a second positive potential relative to said cathodes to the control electrodes of said tubes through said third and fourth resistances respectively, said control electrodes being capacitively intercoupled, and means to derive said periodically altered voltage from the anode of one of said tubes.

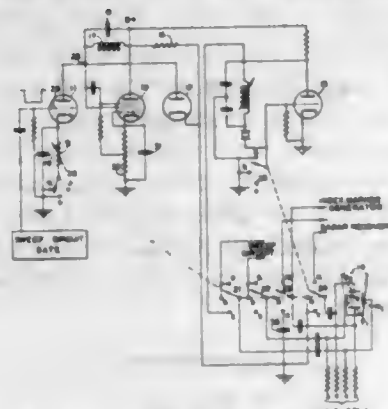
2,714,163

## KEYED OSCILLATOR

La Verne R. Philpott, Caldwell, N. J., assignor to Radar Incorporated, Washington, D. C.  
Original application May 25, 1944, Serial No. 537,286, now Patent No. 2,643,288, dated June 23, 1953. Divided and this application January 26, 1953, Serial No. 333,399

6 Claims. (Cl. 250-36)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an oscillator circuit of the type having at least one tuned circuit, means for keying said oscillator into operation in such manner as to produce a discontinuous train of oscillation with each train maintaining a common phase relationship, comprising a normally conducting vacuum tube having at least a plate electrode and a plate supply source, said vacuum tube having the tuned circuit of said oscillator interposed between its plate and plate supply and means for periodically rendering said tube non-conducting thereby shock exciting said oscillator into operation.

2,714,164

## MASS SPECTROMETER SAMPLING SYSTEM

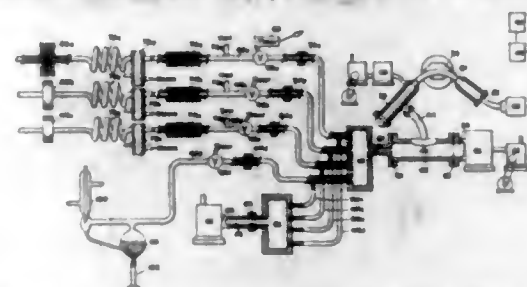
John W. Riggle, New Castle, and John B. Roberts, Wilmington, Del., assignors to the United States Atomic Energy Commission

Application February 23, 1954, Serial No. 412,130

14 Claims. (Cl. 250-41.9)

1. Apparatus for introducing gas samples into a region of high vacuum from a plurality of sources comprising a

sample manifold, a plurality of conduits connecting said manifold with sample sources, a valve in each said conduit for introducing said samples in sequence, a sample chamber communicating with said sample manifold and with said region, pump means for evacuating said sample chamber to cause gas to flow through said manifold and sample chamber in series, a flow restriction between said sample manifold and said sample chamber, a second flow

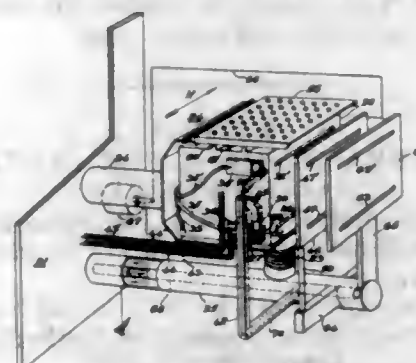


restriction between said sample chamber and said evacuating means and means for controlling the pressure in said sample manifold at more than twice that in said sample chamber, said evacuating means being adapted to maintain the pressure downstream of said second flow restriction at a value less than about half that in said sample chamber, said flow restrictions being adapted to pass said gas at its acoustic velocity.

2,714,165

## ISOTOPE SEPARATING APPARATUS

John D. Reid, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
Application June 28, 1946, Serial No. 679,882  
10 Claims. (Cl. 250-41.9)



1. In isotope separating apparatus, in combination, an evacuated tank, a face plate adapted to seal an opening in said tank, a source of ions within said tank, a horizontal metallic supporting member extending inwardly from said plate and supporting said ion source in cantilever beam fashion, and a compression block of insulating material interposed between said ion source and said supporting member.

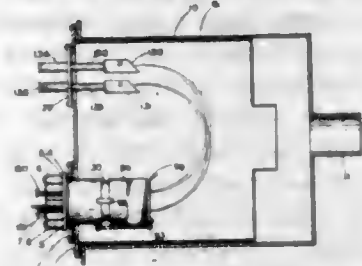
2,714,166

## CALUTRON STRUCTURE

Chauncey Starr, Pacific Palisades, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application October 27, 1947, Serial No. 782,442

14 Claims. (Cl. 250-41.9)



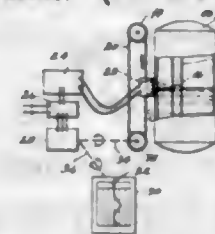
14. In electromagnetic isotope separating apparatus, in combination, a closed tank, means for evacuating said tank to a high vacuum, means for forming a high intensity

magnetic field traversing said tank from one side thereof to the other, said tank having at one end thereof a generally cylindrical hollow open ended re-entrant portion, a generally cylindrical hollow member of insulating material having one end open and the other end substantially closed, means forming a vacuum-tight connection between the inner end of said re-entrant portion and the open end of said cylindrical member, an ion source supported by said cylindrical member and disposed exteriorly thereto adjacent the closed end thereof, slotted accelerating electrode means disposed adjacent said ion source on the side away from said cylindrical member for accelerating positive ions from said source in a direction at right angles to the magnetic field, the closed end of said cylindrical member having an elongated protuberance extending both inwardly and outwardly therefrom, said ion source having an opening therein disposed to accommodate the outward extension of said protuberance, said protuberance having a central bore therethrough, a metal rod extending through said bore and connected electrically and mechanically to said accelerating electrode means, an open ended sleeve-like member of insulating material disposed around said accelerating electrode means, said ion source, and at least a portion of said cylindrical member, and means forming a supporting connection between said re-entrant portion and said sleeve-like member.

2,714,167

## LIQUID LEVEL MEASURING APPARATUS

Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware  
Application April 11, 1950, Serial No. 155,257  
7 Claims. (Cl. 250-43.5)



1. A device for indicating liquid level in a vessel comprising a source of radiation and a radiation detector disposed normally substantially at the liquid level, means for moving said source and detector in a vertical direction, said detector being responsive to radiation from said source, amplifying means for said detector response, a reversible electric motor, a source of electrical supply for said motor, a polarized relay connected to said amplifying means and between said motor and said motor supply source and adapted to energize said motor in a direction corresponding to an increase or a decrease in the response of said detector caused by a change in said liquid level, a constant speed chart recorder having a pen arm, and actuating means connecting said motor with said means for moving said detector and with said pen arm, the arrangement being such that movements of the liquid between the source and detector produce changes in the detector response which cause said relay to energize said motor so as to drive said detector moving means in a direction to follow the liquid level and to drive said pen arm to record on said chart the movements of the detector and thus the height of the detector and the liquid level.

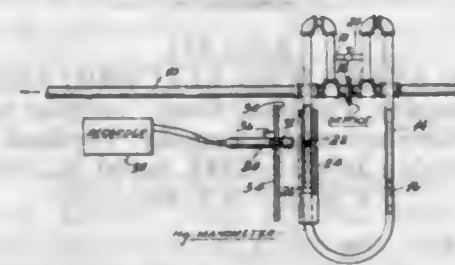
2,714,168

## RADIOACTIVITY FLOW METER

William R. Hencke, Old Tappan, N. J., and Edward L. Cole, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware  
Application December 29, 1951, Serial No. 264,116  
2 Claims. (Cl. 250-43.5)

1. An apparatus for measuring the rate of flow through a conduit of recycle gas in a high pressure hydrogenation

system, comprising an orifice plate disposed in said conduit in the path of said fluid, a manometer formed of metal tubing connected to said conduit at opposite sides of said orifice, said manometer containing a body of liquid, a radioactive source adapted to float upon said liquid in one leg of said manometer, radiation detecting

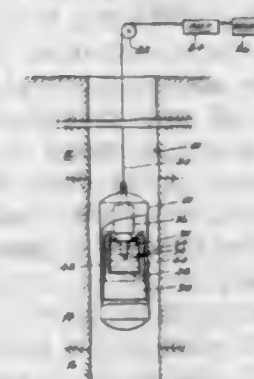


means adapted to be moved vertically adjacent and in parallel to said manometer leg, a layer of radiation shielding material substantially encasing said manometer and having a vertical slit facing toward said detecting means, a maximum output of said detecting means indicating the vertical position of said source and thus the rate of flow of said gas through said conduit.

2,714,169

## GAMMA RAY MEASURING

Fontaine C. Armistead, Marblehead, Mass., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware  
Application December 22, 1951, Serial No. 262,922  
12 Claims. (Cl. 250-71)



1. A device for detecting penetrative radiation, comprising a quantity of fluid luminophor in which scintillations are produced on bombardment by said radiation, a photosensitive device disposed in proximity to said luminophor and means for cooling and circulating said luminophor past said photosensitive device, the arrangement being such that the luminophor serves both as the substance in which scintillations are produced and as a coolant for said photosensitive device.

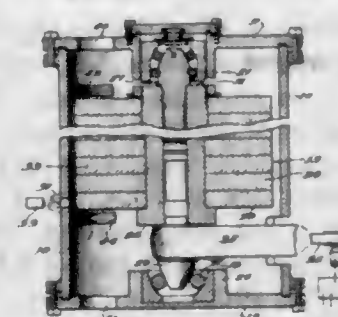
2,714,170

## NEUTRON SELECTOR

Ingram Bloch, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application May 24, 1946, Serial No. 671,980

2 Claims. (Cl. 250-84)



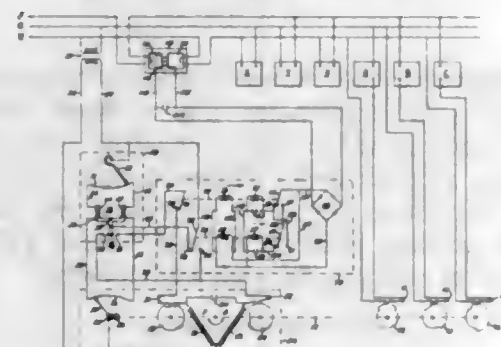
1. Apparatus for selecting neutrons of a predetermined velocity comprising a member rotatable on an axis adapted



to be located generally parallel to an associated beam of neutrons, said member being constructed of boron steel and being provided with a helical duct around the axis of rotation and within the rotatable member containing air, and means to continuously rotate the member within the beam of neutrons.

2,714,171

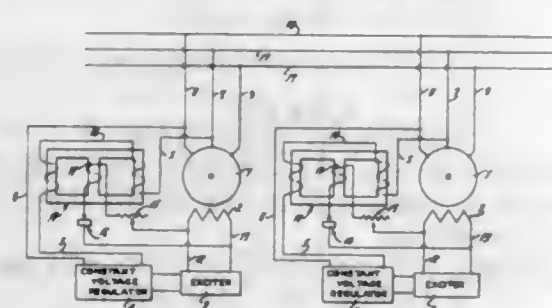
**LOAD STABILIZED ELECTRIC SYSTEM**  
Errol F. Kingsley, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.  
Application July 16, 1953, Serial No. 368,398  
5 Claims. (Cl. 307—35)



5. A total load stabilized electric system comprising a source of power, multiple electric loads adapted to be usefully connected to said source of power, some of said loads being of different relative importance, motor means adapted for connecting said some of said loads to said source of power in the order of their relative importance and for disconnecting said some of said loads from said source of power in the inverse order of their relative importance, means for sensing the total power supplied by said source to all of said multiple electric loads and means adapting said sensing means to operate said motor sequentially to connect in the order of their relative importance said some of said loads to said source of power when said total power is below a preset value and means adapting said sensing means to operate said motor sequentially to disconnect in the inverse order of their relative importance said some of said loads from said source of power when said total power is above a preset value.

2,714,172

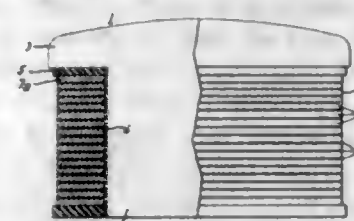
**CROSS CURRENT COMPENSATED ALTERNATING GENERATORS**  
Edward Bretch, University City, Mo.  
Application August 17, 1951, Serial No. 242,275  
14 Claims. (Cl. 307—51)



1. The combination in an alternating current generator connected in parallel with another voltage source, of a generator having an armature winding and a field winding circuit, a plurality of leads connected to said armature winding, an exciter interconnected with said field winding circuit, a regulator for said exciter, a voltage sensitive circuit interconnecting the armature winding leads and the regulator, a magnetic core having a plurality of windings thereon, means connecting at least one of said windings in said voltage sensitive circuit, and means connecting at least one of the windings of said magnetic core in the field winding circuit.

2,714,173

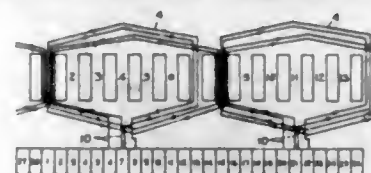
**EDGEWOUND COIL CONSTRUCTION**  
Robert W. Wieseman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York  
Application May 28, 1954, Serial No. 433,081  
10 Claims. (Cl. 310—194)



1. A rotatable salient pole construction for a dynamo-electric machine comprising a pole piece formed of magnetic material, an edgewound coil for said pole piece, means insulating said coil from said pole piece and means insulating adjacent turns of said coil from each other, said last-mentioned means comprising bonding material and permeable positive spacing means to insure a minimum thickness of insulation between adjacent turns, said spacing means being partially embedded in the turns to increase the shear strength of the adhesive bond between the insulation and the turns.

2,714,174

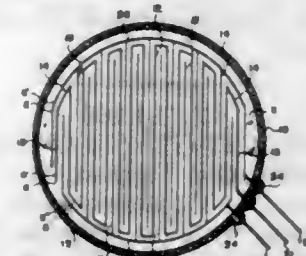
**ARMATURES FOR ELECTRIC GENERATORS, MOTORS AND THE LIKE**  
Robert B. Applegate, Cleveland, Ohio, assignor to Cleveland Electrical Equipment Co., Inc., Cleveland, Ohio, a corporation of Ohio  
Application June 23, 1951, Serial No. 233,223  
2 Claims. (Cl. 310—265)



1. The method of winding a slotted armature having a commutator at one end formed with twice as many commutator bars as armature slots, which comprises the steps of simultaneously winding pairs of wires into a number of pairs of coils corresponding to the number of armature slots by placing one side of each turn of each pair of coils into one armature slot and the other side of successive turns of each pair of coils alternately in only two adjacent armature slots, one of which is substantially diametrically opposite such one slot, and connecting the ends of each pair of coils respectively to three adjacent commutator bars of which the intermediate bar is common to the end of the coil formed by one of the pair of wires and to the start of the coil formed by the other one of the pair of wires.

2,714,175

**COLOR TELEVISION SYSTEM AND DISPLAY THEREFOR**  
Sidney Levy, Garden City, N. Y.  
Application September 17, 1954, Serial No. 456,823  
7 Claims. (Cl. 313—92)

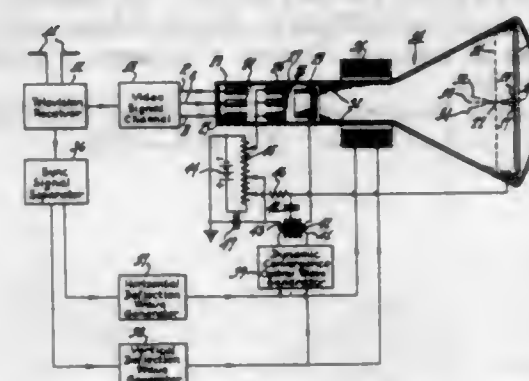


1. A cathode ray image reproducing tube including a source of an electron beam and a fluorescent screen, said

screen being comprised of a transparent plate, a plurality of groups of areas of mutually insulated conductive material mounted on said plate, each of said groups being provided with a coating of material capable of emitting light of different colors when excited by said beam, a common electrical connection for each group of areas, one of said conductive areas being arranged in the form of a sinuous line and a group of strips arranged in interlaced relation with said first group.

2,714,176

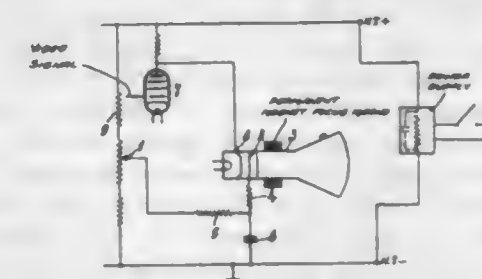
**BEAM-CONTROLLING SYSTEMS FOR MULTI-BEAM CATHODE RAY TUBES**  
Albert W. Friend, Gladwyne, Pa., assignor to Radio Corporation of America, a corporation of Delaware  
Application June 28, 1952, Serial No. 296,174  
17 Claims. (Cl. 315—17)



1. In an image-reproducing system including a cathode ray tube having a target electrode, a beam-accelerating anode and wherein a plurality of electron beam components traverse pre-deflection paths that are spaced about the longitudinal axis of the tube, a beam-controlling system comprising, means concurrently deflecting said plurality of beam components angularly both horizontally and vertically to scan a raster at said target electrode, electron-optical means adjacent said pre-deflection beam paths and of a character to effect convergence of said beam components at said target electrode, a source of a wave having an amplitude varying as a function of the angle of said beam deflection, means impressing said wave in predetermined magnitude upon said electron-optical means to effect substantial convergence of said beam components at all points of said scanned raster, and means impressing said wave in less than said predetermined magnitude upon said beam-accelerating anode to produce substantial rectangularity of said scanned raster.

2,714,177

**TELEVISION RECEIVER**  
Emlyn Jones, Horley, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application February 5, 1952, Serial No. 270,065  
Claims priority, application Great Britain February 9, 1951  
3 Claims. (Cl. 315—20)

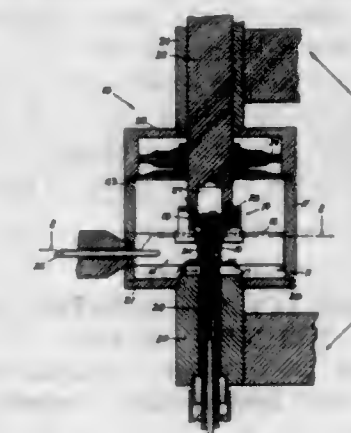


1. In a television receiver which utilizes a permanent magnet for focussing a cathode-ray beam and wherein a switch is provided for cutting off power to a power supply filter network which has a capacitive element for

696 O. G.—38

2,714,178

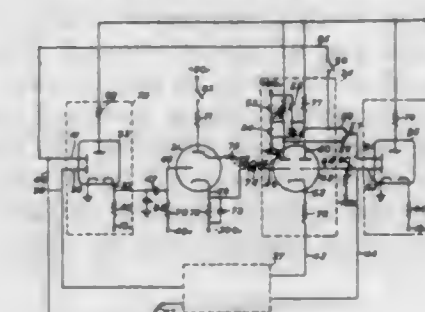
**TUNABLE MAGNETRONS**  
Erich Nevin Kather, South Lincoln, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
Application May 26, 1951, Serial No. 228,401  
9 Claims. (Cl. 315—39.61)



1. An electron-discharge device comprising a cathode, an anode structure spaced from said cathode, said anode structure defining a cavity resonator having a plurality of cavities, and a tuning structure comprising a plurality of tuning elements movably positioned with respect to said cavity resonator, tuning elements of said tuning structure extending respectively, into different cavities of said resonator, adjacent tuning elements being separated from each other by spaces, adjacent ones of said spaces having different dimensions with respect to each other.

2,714,179

**MULTI-ELECTRODE GASEOUS-DISCHARGE TUBE CIRCUITS**  
David Gurney Arnold Thomas, Deerpark, Walton, near Gloucester, and Edmund Harry Cooke-Yarborough, Faringdon, England, assignors to The National Research Development Corporation, London, England  
Application February 19, 1952, Serial No. 272,312  
7 Claims. (Cl. 315—163)



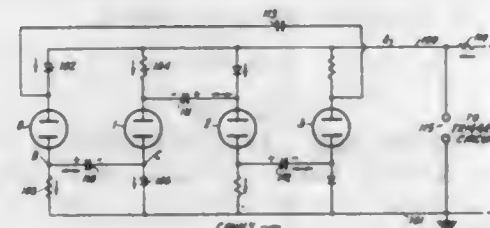
1. A transfer circuit comprising a first multi-cathode gaseous-discharge tube, pulse generating means to cycle the discharge in said tube, means for deriving a control pulse when that discharge reaches the output electrode of said tube and switch means operated by the control pulse for switching a pulse train to a second multi-cathode gaseous-discharge tube whereby a count is derived in the second tube dependent upon the count in the first tube.



2,714,180

**ELECTRONIC COUNTER**

John C. Manley, Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States  
Application July 1, 1949, Serial No. 102,582  
32 Claims. (Cl. 315-166)



1. In an impulse counting device, a source of electrical potential, a plurality of digit manifesting units connected with said source, each of said units comprising at least two impedances and a discharge device, at least one of said impedances including a unidirectional device, an impulse transferring means linking each unit to an adjacent unit, and means for producing a change in the potential applied to said units for each impulse to be counted.

2,714,181

**STATIC ELECTRICITY ELIMINATOR FOR MOTOR VEHICLE SEATS**

Andrew J. Azbill, Reno, Nev., assignor to Shok-Pruf Manufacturers and Distributing Company, a corporation of Nevada  
Application July 14, 1952, Serial No. 298,815  
2 Claims. (Cl. 317-2)



2. A static electricity eliminator for motor vehicle seats including an electric conductor attachment for the vehicle seats, one end of the attachment being engageable with one end of the seat, an elastic band, the opposite end of the attachment being mounted between the free ends of said elastic band, a binding clip encasing and fixedly securing the free ends of the band and the end of the attachment, and a hook secured to said band, the bill of said hook being engaged with the other end of the seat.

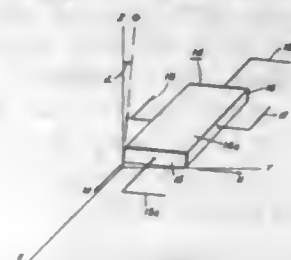
2,714,182

**HALL EFFECT DEVICES**

William H. Hewitt, Jr., Mendham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application June 21, 1952, Serial No. 294,940  
10 Claims. (Cl. 317-234)

1. A Hall effect unit comprising a monocrystalline body of semiconductive material having three mutually perpendicular geometric axes, one crystallographic axis of said body being displaced from a first of said geo-

metric axes about a second of said geometric axes by a multiple of 45 degrees, and another crystallographic

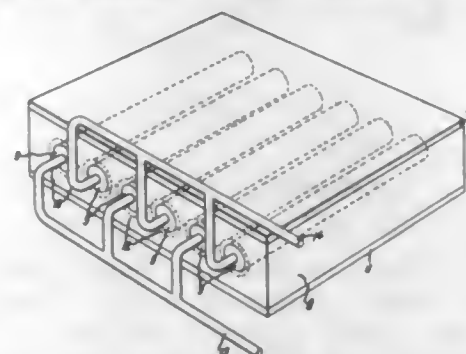


axis being inclined by substantially 12½ degrees to said second geometric axis.

2,714,183

**SEMI-CONDUCTOR P-N JUNCTION UNITS AND METHOD OF MAKING THE SAME**

Robert N. Hall and William E. Burch, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York  
Application December 29, 1952, Serial No. 328,437  
14 Claims. (Cl. 317-235)

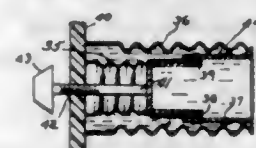


1. A P-N junction device comprising a semi-conductor body of one conductivity type having a bore therein containing an activator element of the opposite conductivity type fused therein to form a rectifying junction with said semi-conductor body.

2,714,184

**HERMETICALLY SEALED ADJUSTABLE DEVICES**

David B. Peck, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts  
Application August 21, 1951, Serial No. 242,870  
4 Claims. (Cl. 317-245)



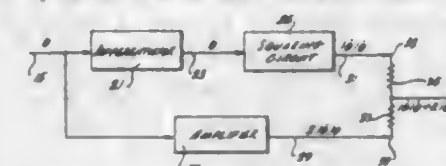
1. A new and improved variety of hermetically sealed electrical device which comprises a wall having front and back sides, a first bellows means dependent from the back side of said wall, said bellows structure having the general shape of a cylinder, first sealing means sealing the portion of said bellows removed from said wall, a second bellows means having the general shape of a cylinder dependent from the back side of said wall within said first bellows means, second sealing means sealing the portion of said second bellows means removed from said wall, a first electrical component portion attached to the first sealing means, a second electrical component portion attached to the second sealing means, said first and said second electrical component portions cooperating to provide an adjustable electrical circuit component, a fluid dielectric means insensitive to atmospheric pressure changes filling the space between said first and second bellows means, said wall and said first and second sealing means, adjusting control means positioned on the front side of said wall and projecting through said wall into the area enclosed by said second bellows means, and attached to adjust the position of one of the sealing

means with respect to said wall and to simultaneously cause the difference in bellows sizes to effect through the fluid a somewhat different amount of movement of the other sealing means so that the electrical circuit component is automatically adjusted in proportion to the amount represented by the movement of the adjusting control means alone.

2,714,185

**ANTI-HUNT MEANS FOR ELECTRIC MOTOR FOLLOW-UP SYSTEM**

Thomas E. Woodruff, Los Angeles, Calif., assignor, by mesne assignments, to Hughes Aircraft Corporation, a corporation of Delaware  
Original application July 29, 1949, Serial No. 107,558, now Patent No. 2,701,328, dated February 1, 1955.  
Divided and this application September 14, 1954, Serial No. 455,833  
6 Claims. (Cl. 318-18)

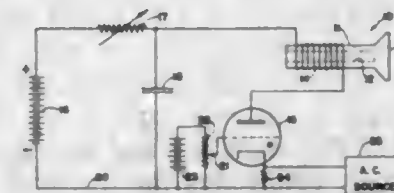


1. A servo system for returning a displaced load to a predetermined position, said system comprising: a reversible motor for driving the load; selectively actuatable means for fully energizing said motor in either direction to return the load to the predetermined position; first means responsive to the displacement of the load for continuously producing a first electrical signal corresponding to the load displacement; second means including an amplifier circuit coupled to said first means and responsive to said first signal for continuously producing a second electrical signal whose magnitude and polarity are represented by the term  $2\theta|\dot{\theta}|$ , where  $\theta$  represents the load displacement and  $|\dot{\theta}|$  represents the absolute magnitude of the load acceleration or deceleration; third means coupled to said first means and responsive to said first signal for continuously producing a third electrical signal whose magnitude and polarity are represented by the term  $\dot{\theta}|\dot{\theta}|$ , where  $\dot{\theta}$  represents the time rate of change of the load displacement, said third means including a differentiating circuit coupled to said first means and responsive to said first signal for producing a velocity signal corresponding to the term  $\dot{\theta}$ , and a squaring circuit connected to said differentiating circuit and responsive to said velocity signal for producing said third signal; and means coupled to said second and third means and responsive to the algebraic sense of the summation of said second and third signals for selectively actuating said selectively actuatable means to energize said motor in a restoring direction.

2,714,186

**VARIABLE FREQUENCY MAGNETOSTRICTIVE TRANSDUCER**

William H. Henrich, East Norwalk, Conn., assignor to Sorensen & Company, Incorporated, Stamford, Conn., a corporation of Connecticut  
Application September 12, 1952, Serial No. 309,235  
12 Claims. (Cl. 318-118)



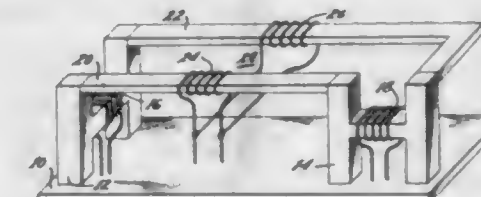
1. A magnetostrictive transducer for converting electrical energy into mechanical vibrations comprising, a bar of metal surrounded by a coil of wire, circuit means for

supplying an electrical pulse to the coil, and means for continuously varying the free period of oscillation of the metal bar, said means comprising a change of one of the physical characteristics of said bar on which the free period depends.

2,714,187

**VARIABLE HIGH FREQUENCY COUPLING TRANSFORMER**

Hunter C. Goodrich, Jr., Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application July 2, 1951, Serial No. 234,698  
6 Claims. (Cl. 323-56)

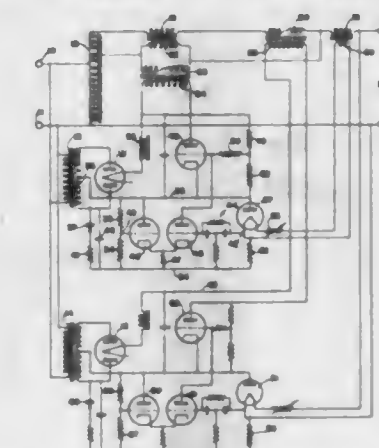


1. A high frequency coupling transformer for tunable signal circuits and the like, for providing variable coupling and comprising, in combination, a magnetically permeable core structure, a primary winding on one portion of said core structure, a secondary winding on a second portion of said core structure, means including a saturating winding having at least one saturating coil for applying a saturating flux to said core structure; said core structure having a configuration such that said saturating winding provides two parallel independent flux paths in said structure and in which said primary and secondary windings provide separate series flux paths threading all of said windings.

2,714,188

**VOLTAGE REGULATOR**

Bernard L. Scherer, Stamford, Conn., assignor to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut  
Application October 4, 1954, Serial No. 459,984  
7 Claims. (Cl. 323-66)



1. A voltage regulator for an alternating current supply system comprising, a coupling circuit which transfers alternating current power from a pair of input terminals to a pair of output terminals connected to a load, a first sensing system which is coupled to the output terminals and applies an amplified direct current control signal to a first saturable reactor connected to said coupling circuit for altering the transmitted voltage, and a second sensing system coupled in series arrangement with the coupling circuit and arranged to produce a signal which is proportional to the current taken by the load, said second sensing system arranged to apply a direct current control signal to a second saturable reactor which is connected in parallel arrangement with a first winding of a transformer, a second winding of which is in series connection between the input and output terminals.



2,714,189

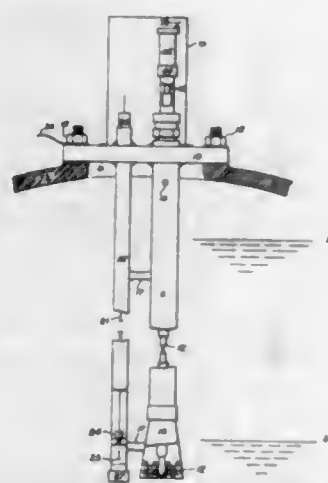
**ELECTROLYTIC METHOD AND CELL**  
William C. Ballard, Jr., Ithaca, N. Y.; Robert O. Klausmeyer, executor of said William C. Ballard, Jr., deceased, assignor to Ruth B. Klausmeyer  
Application July 17, 1951, Serial No. 237,255  
2 Claims. (Cl. 324—30)



1. A method of determining the red cell count of blood which includes subjecting a sample of blood to the passage of an electric current and measuring the resistance offered to such current flow, thereafter subjecting said sample to the action of centrifugal force to cause the red cells to be displaced towards one end of the body of fluid plasma within which they are associated, then passing an electric current through a predetermined area of the sample which has been subject to centrifugation and in measuring the resistance to the passage of the latter current flows.

2,714,190

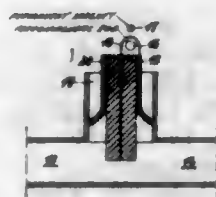
**ELECTRODE ASSEMBLY**  
James L. Pfisterer, Scott Township, Allegheny County, Pa., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware  
Application March 10, 1954, Serial No. 415,362  
4 Claims. (Cl. 324—32)



1. In an assembly for alloy analysis including an elongated capsule normally projecting below the surface of a fused alloy and containing a metal reference specimen thereby positioned below said surface, the improvement comprising an open ended guard tube of larger internal diameter than and surrounding at least the portion of the capsule normally below the alloy surface, and means for supporting the guard tube, the guard tube having a portion adjacent the end of the capsule having divergent walls, said divergent wall portion having apertures therein generally adjacent the reference metal specimen and corresponding to at least about one-third the extended area of the capsule wall containing the reference metal specimen.

2,714,191

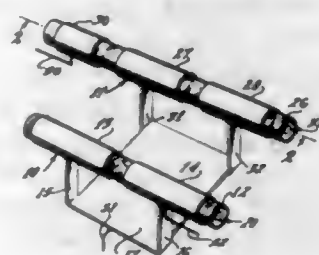
**AMPLITUDE-MODULATION SYSTEM FOR ULTRA-HIGH FREQUENCIES**  
Jacques Cayzac, St. Hilaire, France, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application October 1, 1952, Serial No. 312,521  
Claims priority, application France October 19, 1951  
4 Claims. (Cl. 332—51)



1. An electromagnetic device for amplitude modulation of a given high-frequency wave passing through a main wave-guide, said device comprising a non-conductive ferromagnetic member having a natural gyro-magnetic resonance frequency which is less than that of said given high-frequency wave, means coupled to said member to produce a pre-magnetized modulating field variably to damp the given high-frequency wave, and a co-axial stub wave-guide coupled to said main wave-guide and comprising an outer conductor and an inner conductor one end of which constitutes a probe penetrating into said first wave-guide, the other end of said inner conductor being looped about said member and terminating in a connection to said outer conductor.

2,714,192

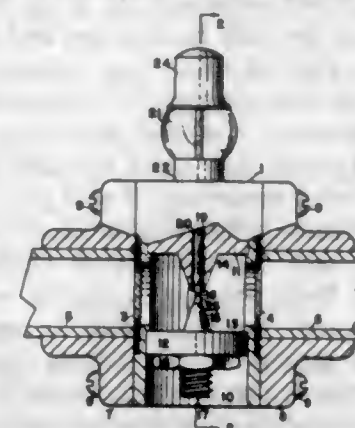
**U. H. F. BAND PASS FILTER STRUCTURES**  
Wen Yuan Pan, Collingswood, and David J. Carlson, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware  
Application July 2, 1951, Serial No. 234,752  
11 Claims. (Cl. 333—73)



1. A filter structure for U. H. F. signals comprising a first and a second resonant circuit structure, said first circuit structure including a first, a second and a third conductive capacitance member disposed in predetermined spaced relation, a first pair of conductors having inductance and connected individually to said first and second members, a first conductive element movably disposed with respect and adjacent to and insulated from said members to provide capacitance between each of said members and said first element; said second circuit structure including a fourth and a fifth conductive capacitance member disposed in predetermined spaced relation with respect to each other and to said first, second and third capacitance members, a second pair of conductors having inductance disposed to provide a predetermined amount of inductive coupling with said first pair of conductors and connected individually to said fourth and fifth members, a second conductive element movably disposed with respect and adjacent to and insulated from said fourth and fifth members to provide capacitance between each of said fourth and fifth members and said second element; means conductively connecting the free ends of said conductors, means including the third capacitance member and said connecting means providing one external circuit structure, and means providing a second external circuit connection with the second circuit structure.

2,714,193

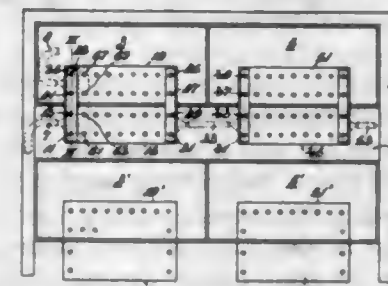
**RESONANT CAVITY ATTENUATOR**  
Richard J. Broderick, Beverly, Mass., assignor to Bomac Laboratories Inc., Beverly, Mass., a corporation of Massachusetts  
Application July 14, 1953, Serial No. 367,938  
5 Claims. (Cl. 333—98)



1. A radar signal attenuator for use in protecting a radio receiver comprising a metallic housing having a resonant cavity therein, a pair of conical electrode members with opposed convergent ends in axial alignment within said resonant cavity defining a gap, at least one of said conical electrode members being hollow, a third electrode extending into said hollow electrode member, a strip of a metal of the group consisting of magnesium, magnesium base alloys, aluminum and aluminum base alloys having one end attached to said third electrode, said strip extending co-axially across said gap with its other end attached to the opposed conical electrode member.

2,714,194

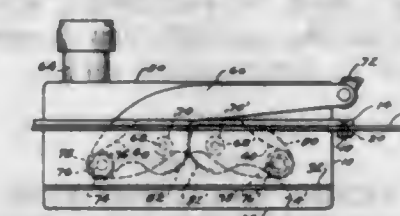
**INTERCONNECTING DEVICE FOR HIGH-FREQUENCY CURRENTS**  
Willem Beynink, Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
Application November 10, 1951, Serial No. 255,760  
Claims priority, application Netherlands December 16, 1950  
2 Claims. (Cl. 339—18)



1. Apparatus for connecting a two-wire high-frequency line to an electrical unit comprising a frame, an electrical unit having two input leads and detachably mounted on said frame, said unit being provided with a panel having first and second pairs of contacts thereon disposed at the corners of a rectangle and wire means diagonally cross-connecting said first and second pairs of contacts, said input leads being connected to said cross-connected pairs of contacts, a panel fixedly secured to said frame and provided with third and fourth pairs of contacts disposed at the corners of a rectangle, said third and fourth pairs being colinearly disposed relative to said first and second pairs respectively, wire means diagonally cross-connecting said third and fourth pairs of contacts, said two-wire line being connected to said cross-connected third and fourth pairs, and two bridging plugs each having four aligned pins, one of said plugs having its pins inserted in said first and third pairs of contacts to effect a connection therebetween, the other plug having its pins inserted in said second and fourth pairs of contacts to effect a connection therebetween.

2,714,195

**QUICK CONNECT-DISCONNECT ELECTRICAL CONNECTORS**  
John W. Beatty, Dayton, Ohio  
Application September 19, 1951, Serial No. 247,351  
3 Claims. (Cl. 339—45)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A quick electrical connector device comprising a trough-like pin housing having contact pins insulatingly fixed in the bottom thereof, a mating socket housing having cooperating socket members fixed therein aligned with the respective contact pins and adapted to be connected in nesting relation with the pin housing, first cam means including recessed portions arranged on the inner surface of opposite sides of the pin housing, two pair of interengaged lever means pivotally connected to the opposite sides of the socket housing, each pair of lever means comprising two geared lever members, said two geared lever members of each pair having their pivots arranged in a single plane in spaced relation, second cam means arranged on each of said lever members and cooperatively engaging said first cam means, said second cam means being arranged so as always to be in a plane parallel to the plane of the pivots of its lever members, whereby on actuation of said lever means said second cam means engages in the recessed portions of said first cam means to draw said pins and said socket members uniformly and positively into locking engagement.

2,714,196

**SELF-HOLDING TOOL FOR TESTING ELECTRIC CIRCUITS**  
George M. Melehan, Lodi, N. J.  
Application March 16, 1953, Serial No. 342,325  
1 Claim. (Cl. 339—97)



An electric testing tool comprising a hollow cylindrical casing made of non-conducting material having finger grip means projecting outwardly adjacent its upper end and having an axial bore extending therethrough, said bore being substantially enlarged at its upper end and having a transverse slot connecting with its lower end, a metal rod mounted slidably within said bore and having a hook on its lower end, said rod being longer than said casing, means including a spring mounted within said casing for urging said rod normally upwardly whereby its upper end projects above said casing and its lower hooked end is withdrawn within said slot, means for limiting the movement of said rod within said bore, a cap of



non-conducting material mounted over the upper end of said rod and spaced from said casing, said cap having a reduced depending sleeve formed integrally therewith adapted to fit slidably within said enlarged upper bore, and a wire connected to the upper end of said rod and extending outwardly through said cap, the lower end of said rod having a hook for encircling a wire, said hook having barbs projecting upwardly and downwardly from opposite sides of its lower arcuate portion.

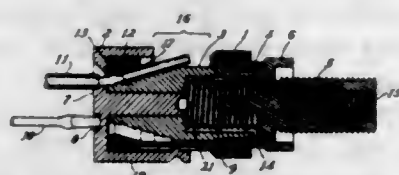
2,714,197

## ELECTRICAL CONNECTORS

Armistead Wharton and Frederic Milton Benz, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York

Application March 1, 1952, Serial No. 276,376

1 Claim. (Cl. 339-255)



In an electrical connector, the combination of a body member having an inner annular anvil portion and having means for securing said body member to a stationary mounting such as a panel; a movable wedge of generally conical shape centrally disposed within said body member; a plurality of serrations formed on the conical surface of said wedge, each of said serrations extending in a circumferential direction around the conical surface of said wedge and forming a sawtooth contour extending toward the base of said conical wedge; resilient means biasing said serrations against said anvil portion; a cap member coupled for movement with said wedge, said cap member having a top portion and a skirt portion, said top portion having a screw driver slot and a funnel-shaped wire-receiving passage formed therein, said body having a longitudinal recess formed therein connecting said passage with the interior of said cap; said skirt portion carrying a rider located and dimensioned to mate with said recess, thus permitting said cap to be moved axially against the pressure of said resilient means but preventing, by means of said rider and said recess, the rotation of said cap relative to said body member; whereby force may be applied by a tool blade between said screw driver slot and said mounting to compress said resilient means, and a wire can be passed through said passage into the resulting space between said serrations and said anvil portion; said body member having a cut-away portion located adjacent said anvil portion such that the end of said wire may project through said cut-away portion, said wire being secured between said serrations and said anvil portion upon the removal of said force.

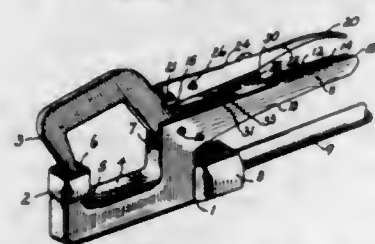
2,714,198

## GROUND CONNECTOR FOR ELECTRIC WELDING

Harry F. Schloetzer, Topeka, Kans.

Application May 17, 1954, Serial No. 430,026

3 Claims. (Cl. 339-261)



1. A ground connector for use in electric welding comprising, a stationary jaw member of relatively high electrical conductivity having a bar portion with a forward end terminating in an anvil portion at one side thereof

and a rear end having connection with a ground conductor in a welding circuit, a leg member extending from the bar portion intermediate the ends thereof at the same side as the anvil portion, a handle having one end rigidly connected to the leg member on the stationary jaw and extending rearwardly therefrom, a substantially C-shaped movable jaw disposed substantially in a common plane with the stationary jaw and having one end portion pivotally mounted on the stationary jaw adjacent the handle whereby the other end portion is swingable toward the anvil of the stationary jaw, an operating lever having one end pivotally connected to the movable jaw in spaced relation to the pivotal mounting of said jaw and extending rearwardly therefrom substantially in a common plane with the handle, said operating lever having movement toward and away from the handle on the stationary jaw, an abutment member on the handle in spaced relation to the stationary jaw, and a stub lever having one end pivotally connected to the operating lever in spaced relation to the pivotal connection thereof with the movable jaw, the other end of the stub lever being adjustably engaged with the abutment member whereby movement of the operating lever toward the handle swings the said other end portion of the movable jaw toward the anvil on the stationary jaw to a relative spacing determined by the relative spacing of the pivotal mounting of the movable jaw and said other end of the stub lever.

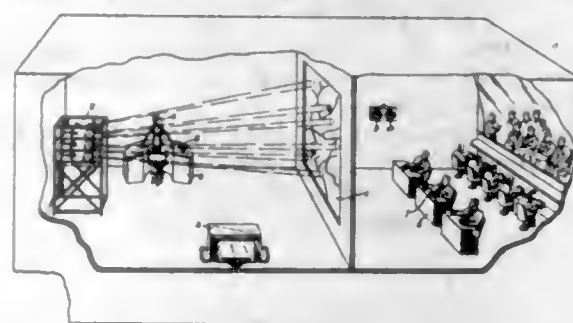
2,714,199

## PROJECTION DISPLAY APPARATUS

Paul R. Adams, Cranford, and John L. Allison, Nutley, N. J., assignors to International Telephone and Telegraph Corporation, a corporation of Maryland

Application February 25, 1950, Serial No. 146,279

24 Claims. (Cl. 340-24)



1. A system for controlling the movement of a projected image movable on a screen in first and second orthogonal coordinates, comprising projector means, separate motor means for moving said projector means to move said image in the respective coordinates, a source of drive energy for said motor means, means to establish separate initial coordinate reference drive positions for said motor means, means for providing distance simulating and azimuth simulating components, means for combining effects of said distance and azimuth components to produce respective corresponding coordinate control components, and means for applying said coordinate control components respectively to said motor means to establish the position of said projected image.

2,714,200

## AIRCRAFT LANDING GEAR WARNING SIGNAL

John W. Teegarden, Dayton, Ohio

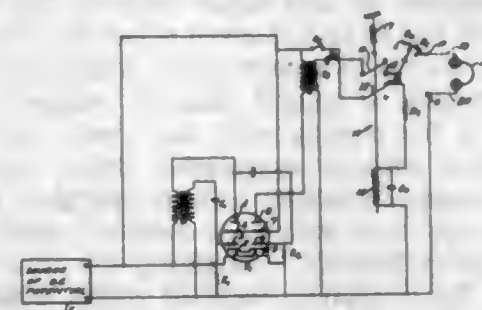
Application April 21, 1953, Serial No. 350,272

5 Claims. (Cl. 340-27)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A landing gear warning device for use in aircraft in which means are provided for closing a first electric circuit whenever the air speed falls below a predetermined minimum with the landing gear not fully extended, said device comprising a source of audio frequency electrical oscillations, an output circuit for said source of audio frequency electrical oscillations, nor-

mally open electrical contacts in said output circuit and means for causing said normally open contacts in said



output circuit to cyclically open and close when said first electric circuit is closed.

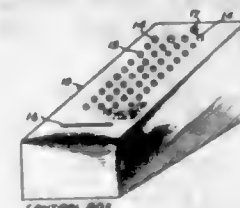
2,714,201

## IDENTIFICATION SELECTOR

Ned Whitehead, San Juan, Puerto Rico

Application November 18, 1953, Serial No. 392,930

8 Claims. (Cl. 340-149)



1. A system for authenticating a card having a plurality of columns of digit positions with an identifying mark in each column on a digit position, said system comprising a slot into which said card is inserted, a plurality of mark sensing means, means to retain said card in said slot, means in said slot responsive to the insertion of said card to energize said card retaining means and said mark sensing means to sense the digit positions marked, a plurality of columns of keys identified with the columns of digit positions on said card, a plurality of first switches corresponding to each of the digit positions in each of said columns, means to close one of said first switches in each column upon the actuation of a key in each column corresponding to the digit positions of said marks, an accept switch, means to interconnect different desired ones of said first switches associated with each column with each other to correspond to cards having certain digit positions marked, means responsive to a closure of said interconnected switches to close said accept switch, card ejection means, means responsive to a closure of said accept switch to inactivate said card retaining means and to actuate said card ejection means, alarm means, and means responsive to a closure of other than said interconnected switches to actuate said alarm means.

2,714,202

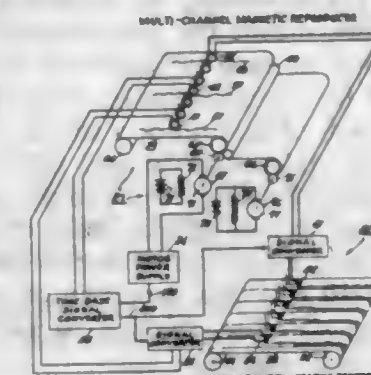
## RECORDING SYSTEM UTILIZING A SINGLE CONTROL SIGNAL CAPABLE OF CONTROLLING TWO CHARACTERISTICS OF THE SIGNAL

James Robert Downing, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois

Application October 19, 1948, Serial No. 55,358

8 Claims. (Cl. 340-174)

1. Apparatus for reproducing information previously recorded in the form of spaced signals on an elongated medium wherein a characteristic of the signals corresponds to said information and wherein said medium includes a second set of spaced signals made by a recurring signal whose frequency of recurrence was constant during recording comprising, a pair of reproducing heads co-operating respectively with said information signals and said second signals, means for moving said medium past said reproducing heads, means connected to said information reproducing head for converting the said characteristic of the signals into the information, means



to that during recording, and further means responsive to the frequency of said second set of signals for compensating said reproduced information.

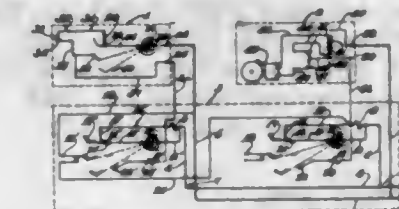
2,714,203

## ELECTRIC ALARM SYSTEM

Edwin L. Murphy, Monaca, Ill.

Application June 28, 1951, Serial No. 233,963

8 Claims. (Cl. 340-216)



2. An electric alarm system for use with an electric wiring circuit connected to a permanently energized power supply comprising an alarm element and a detection element both connected to said wiring circuit, means for transmitting a signal originating in said detection element to said wiring circuit, a circuit interrupting device in said wiring circuit to interrupt said circuit after receipt of said signal, said alarm element comprising an alarm device, means for connecting said device in said circuit after said circuit is interrupted, and means in said wiring circuit for restoring said circuit after said interruption to actuate said alarm device.

2,714,204

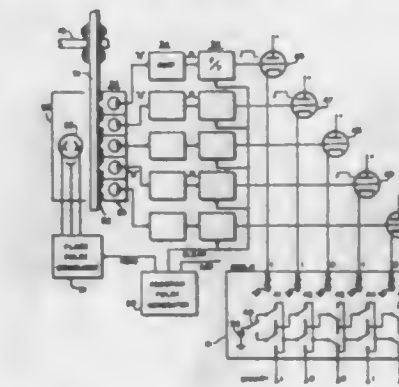
## TRANSLATOR FOR DIGITAL CODE GROUP SIGNALS

Bernard Lippel and Joseph A. Buegler, Red Bank, N. J., assignors to the United States of America as represented by the Secretary of the Army

Original application April 3, 1951, Serial No. 219,103, now Patent No. 2,679,644, dated May 25, 1954. Divided and this application April 30, 1952, Serial No. 285,526

2 Claims. (Cl. 340-347)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. Apparatus for parallel translation of digital code group signals from cyclic binary to standard binary code, comprising a plurality of relay operating switching units,



one for each digit position of the group, the first of said units corresponding to the most significant digit and the subsequent units corresponding in descending order to less significant digits, means for simultaneously applying an input digit signal to each of said units for actuating each relay, means for simultaneously deriving an output digit signal from each of said units, a source of potential, means for coupling said source to said first unit, means coupling each of said subsequent units to the next preceding unit and thereby to said source, each of said subsequent units comprising means responsive to the input digit signal applied thereto and to a condition of operation of said next preceding unit for coupling to said source to produce an output digit signal.

2,714,205

### RADAR APPARATUS FOR DISTINGUISHING BETWEEN MOVING AND STATIONARY OBJECTS

Harry Grayson, Longsight, Manchester, Denis Edwin Brown, Chilton, near Didcot, and Geoffrey Cecil Barker, Allestree, England, assignors to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

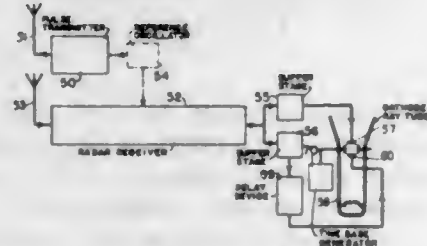
Application August 5, 1947, Serial No. 766,310

In Great Britain March 24, 1945

Section 1, Public Law 690, August 8, 1946

Patent expires March 24, 1965

14 Claims. (Cl. 343—7.7)



1. A radar apparatus comprising a continuously operating source of high frequency electric oscillation of stable repetition rate, a transmitter for radiating pulses of electro-magnetic energy, means coupling said source to said transmitter to phase lock the carrier wave of each radiated pulse to said oscillation, a single receiver for

ceiving reflected pulses, means coupling said source directly to said receiver, delay means comprising a first channel connected to said single receiver for delaying each and every one of said received pulses by a time equal to the time between two consecutive transmitted pulses, means comprising a second channel coupled to said single receiver for passing each and every one of said received pulses without appreciable delay, and signal subtracting means connected to both said first and said second channels and receiving each of said delayed and undelayed pulses for subtracting the said delayed pulses from the undelayed received pulses whereby, in the said subtracting means, each received signal is compared with a signal which preceded it.

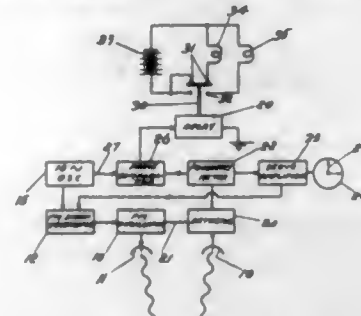
2,714,206

### SIGNAL RELIABILITY INDICATORS

Daniel Blitz, Boston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application September 12, 1951, Serial No. 246,249

9 Claims. (Cl. 343—14)



1. A signal transmitting and receiving system comprising means for transmitting a radio frequency signal, means for modulating said radio frequency signal with a modulation signal, means for superimposing a signal identifying wave form on said modulation signal, means for receiving and demodulating said radio frequency signal to produce a signal derived from said modulation signal and an identifying signal, and means for comparing said identifying signal with said wave form to produce a voltage when said identifying signal and said identifying wave form coincide in phase and frequency to indicate a true signal.

## DESIGNS

JULY 26, 1955

175,207

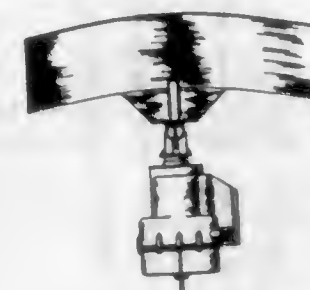
### RADAR TRANSMITTER

Eldon W. Ball, Melrose, and Culver J. Floyd, West Peabody, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application September 28, 1953, Serial No. 26,987

Term of patent 14 years

(Cl. D26—14)



175,208

### ELECTRIC LAMP BASE

David Borowitz, Chicago, Ill.

Application January 19, 1955, Serial No. 34,063

Term of patent 3½ years

(Cl. D48—20)



175,209

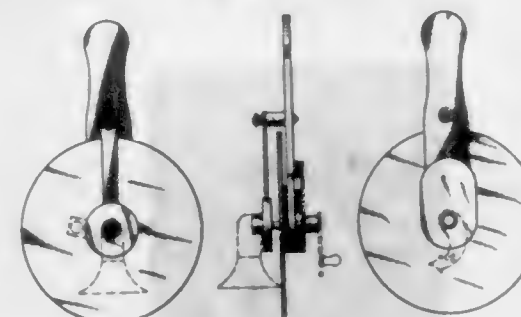
### TOY RECORD PLAYER

William Eugene Critzer, New York, N. Y.

Application September 23, 1954, Serial No. 32,405

Term of patent 14 years

(Cl. D56—1)



175,210

### SUCTION CLEANER

Henry Dreyfuss, South Pasadena, Calif., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application January 18, 1955, Serial No. 34,054

Term of patent 14 years

(Cl. D9—2)



175,211

### DOLL

Margaret H. Emery, Highland Springs, Va.

Application March 23, 1955, Serial No. 35,175

Term of patent 14 years

(Cl. D34—4)



175,212

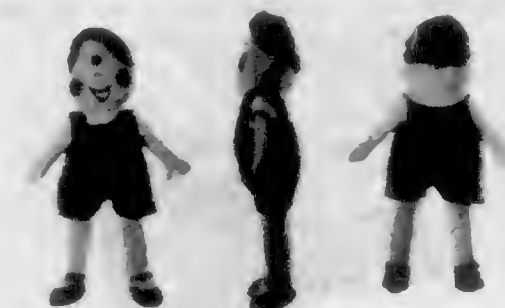
### DOLL

Margaret H. Emery, Highland Springs, Va.

Application March 23, 1955, Serial No. 35,174

Term of patent 14 years

(Cl. D34—4)

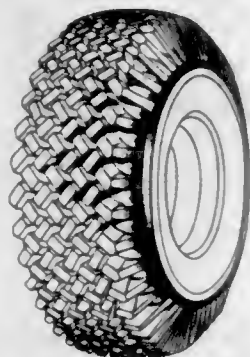




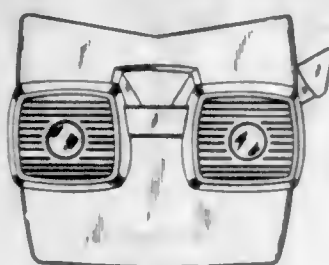
175,213  
CHESS PIECE  
Donald E. Folley, Fayetteville, N. Y.  
Application April 26, 1954, Serial No. 30,173  
Term of patent 3½ years  
(Cl. D34—5)



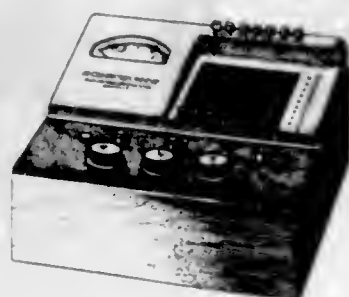
175,214  
TIRE  
Elby Edward French, Littleton, Colo., assignor to O. K. Rubber, Inc., Littleton, Colo., a corporation of Colorado  
Application January 14, 1955, Serial No. 33,985  
Term of patent 14 years  
(Cl. D90—20)



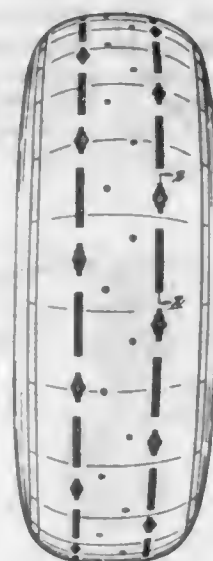
175,215  
STEREOSCOPIC VIEWER  
Channing W. Gilson, Los Angeles, Calif., assignor to Sawyer's Inc., Progress, Oreg., a corporation of Oregon  
Application November 18, 1954, Serial No. 33,161  
Term of patent 14 years  
(Cl. D61—1)



175,216  
NEUROLOGICAL DIAGNOSTIC UNIT  
Campbell D. Harris, Mountain Lakes, N. J., assignor to Radio Frequency Laboratories, Inc., Boonton, N. J., a corporation of New Jersey  
Application July 6, 1954, Serial No. 31,280  
Term of patent 14 years  
(Cl. D83—1)



175,217  
TIRE  
Raymond P. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota  
Application November 22, 1954, Serial No. 33,177  
Term of patent 14 years  
(Cl. D90—20)



175,218  
COMPOSITION FLOOR COVERING OR THE LIKE  
Thomas P. Hayes, Arlington, Mass., assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts  
Application January 12, 1955, Serial No. 33,938  
Term of patent 14 years  
(Cl. D92—4)



175,219  
TEXTILE FABRIC  
William Edward Holt, Jr., Philadelphia, Pa., assignor to E. W. Twitchell, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application January 12, 1955, Serial No. 33,946  
Term of patent 3½ years  
(Cl. D92—1)



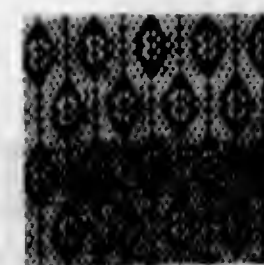
175,220  
TEXTILE FABRIC  
William Edward Holt, Jr., Philadelphia, Pa., assignor to E. W. Twitchell, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application January 12, 1955, Serial No. 33,947  
Term of patent 3½ years  
(Cl. D92—1)



175,221  
TEXTILE FABRIC  
William Edward Holt, Jr., Philadelphia, Pa., assignor to E. W. Twitchell, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application January 12, 1955, Serial No. 33,948  
Term of patent 3½ years  
(Cl. D92—1)



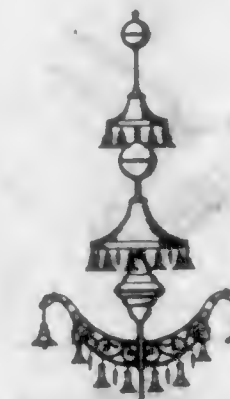
175,222  
TEXTILE FABRIC  
William Edward Holt, Jr., Philadelphia, Pa., assignor to E. W. Twitchell, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application January 12, 1955, Serial No. 33,949  
Term of patent 3½ years  
(Cl. D92—1)



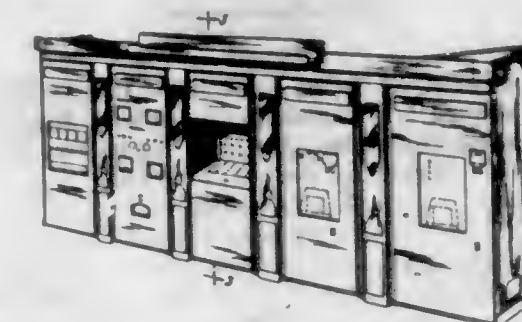
175,223  
TEXTILE FABRIC  
William Edward Holt, Jr., Philadelphia, Pa., assignor to E. W. Twitchell, Inc., Philadelphia, Pa., a corporation of Pennsylvania  
Application January 12, 1955, Serial No. 33,950  
Term of patent 3½ years  
(Cl. D92—1)



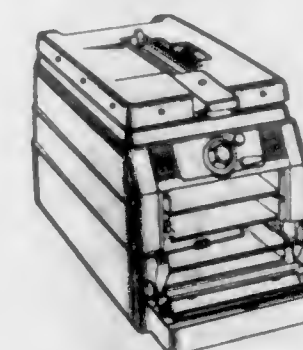
175,224  
BELL TREE MUSICAL INSTRUMENT  
Grover C. Jenkins, Decatur, Ill., assignor to G. C. Jenkins Co., Decatur, Ill.  
Application June 22, 1954, Serial No. 31,106  
Term of patent 3½ years  
(Cl. D56—1)



175,225  
PANEL FRONT FOR COIN DISPENSING MACHINES OR SIMILAR ARTICLE  
Stuart H. Lane, Coshocton, Ohio  
Application November 18, 1954, Serial No. 33,147  
Term of patent 14 years  
(Cl. D52—3)



175,226  
PHOTOGRAPHIC COPYING MACHINE  
Harold L. Malone and Rex B. Husted, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application December 24, 1954, Serial No. 33,673  
Term of patent 14 years  
(Cl. D61—1)





175,227

**SUCTION CLEANER NOZZLE**

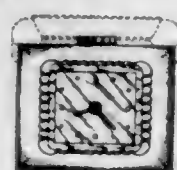
Eugene F. Martinec, East Cleveland, Ohio, assignor to Health-Mor, Inc., Chicago, Ill., a corporation of Illinois  
Application March 21, 1955, Serial No. 35,135  
Term of patent 14 years  
(Cl. D9—2)



175,228

**CUFF LINK WATCH OR SIMILAR ARTICLE**

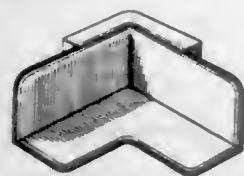
Jacques Meyer, Paris, France, assignor to Arthur E. Manheimer, Chicago, Ill.  
Application March 23, 1954, Serial No. 29,665  
Term of patent 3½ years  
(Cl. D17—7)



175,229

**CORNER BLOCK FOR MOLD STRIPS**

Leonard C. Neufeld, Des Moines, Iowa  
Application November 23, 1953, Serial No. 27,721  
Term of patent 14 years  
(Cl. D54—2)



175,230

**COMBINED MILEAGE AND COIN KEEPER**

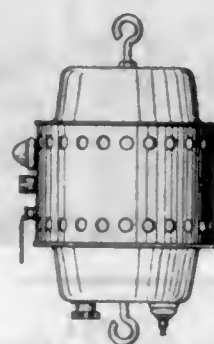
Archie A. Paseka, Lansing, Mich.  
Application November 12, 1954, Serial No. 33,081  
Term of patent 14 years  
(Cl. D14—6)



175,231

**POULTRY STUNNING DEVICE**

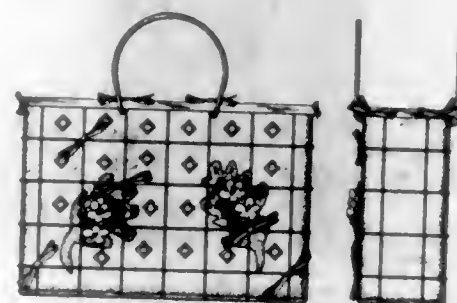
Robert Donald Pitts, Cedar Rapids, Iowa, assignor to Pickwick Company, Cedar Rapids, Iowa, a corporation of Iowa  
Application November 16, 1953, Serial No. 27,611  
Term of patent 14 years  
(Cl. D12—2)



175,232

**HANDBAG OR SIMILAR ARTICLE**

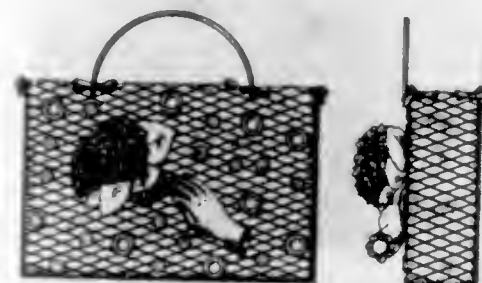
Stella Reichman, New York, N. Y.  
Application November 2, 1954, Serial No. 32,911  
Term of patent 3½ years  
(Cl. D87—3)



175,233

**HANDBAG OR SIMILAR ARTICLE**

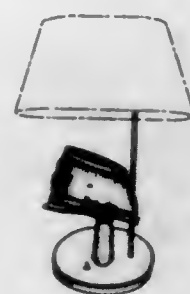
Stella Reichman, New York, N. Y.  
Application November 2, 1954, Serial No. 32,912  
Term of patent 3½ years  
(Cl. D87—3)



175,234

**LAMP OR SIMILAR ARTICLE**

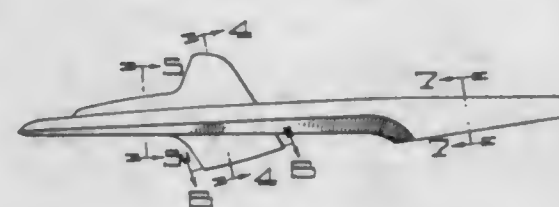
Sidney Rubeck, New York, N. Y.  
Application March 8, 1955, Serial No. 34,920  
Term of patent 14 years  
(Cl. D48—20)



175,235

**HOOD ORNAMENT FOR AN AUTOMOBILE**

John E. Schwarz, Oak Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware  
Application January 26, 1955, Serial No. 34,233  
Term of patent 14 years  
(Cl. D14—18)



175,236

**SPECTACLE FRONT**

Raymond F. E. Stegeman, Greece, N. Y.  
Application November 30, 1954, Serial No. 33,330  
Term of patent 14 years  
(Cl. D57—1)



175,237

**SPECTACLE FRONT**

Raymond F. E. Stegeman, Greece, N. Y.  
Application November 30, 1954, Serial No. 33,331  
Term of patent 14 years  
(Cl. D57—1)



175,238

**MITE BOX**

Lloyd J. Ten Pas, Cedar Grove, Wis.  
Application January 7, 1955, Serial No. 33,895  
Term of patent 14 years  
(Cl. D34—11)



175,239

**ELECTRIC RADIANT HEATER**

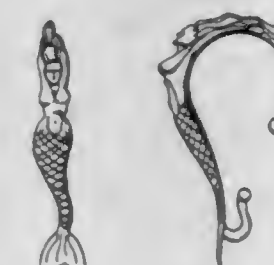
John P. Theisen, Jacksonville, Ill., assignor to New York Shipbuilding Corporation, New York, N. Y., a corporation of New York  
Application October 18, 1954, Serial No. 32,706  
Term of patent 14 years  
(Cl. D81—10)



175,240

**CURTAIN HOOK**

Warren R. Williamson, Santa Rosa, Calif.  
Application March 1, 1954, Serial No. 29,260  
Term of patent 14 years  
(Cl. D17—12)





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145: 2,714,054	70—150: 2,713,785	128—122: 2,713,856	194—43: 2,713,930	255—36: 2,714,162	71: 2,714,029
209.4: 2,714,055	71—2.3: 2,714,063	129—139: 2,713,857	195—52: 2,714,065	256—41.9: 2,714,163	178: 2,714,030
310: 2,714,056	72—37: 2,713,787	130—124: 2,713,858	56: 2,714,066	257—43.5: 2,714,164	228: 2,714,031
49: 2,713,706	73—30: 2,713,788	131—125: 2,713,859	196—52: 2,714,065	258—71: 2,714,165	247: 2,714,032
100: 2,713,707	38: 2,713,789	132—40: 2,713,860	197—138: 2,713,932	259—71: 2,714,166	305: 2,714,033
196: 2,713,708	60: 2,713,790	133—40: 2,713,861	198—14: 2,713,933	260—44: 2,714,167	44: 2,714,034
131: 2,713,710	101: 2,713,791	134—22: 2,714,070	199—33: 2,713,934	261—84: 2,714,168	97: 2,714,035
153: 2,713,712	321: 2,713,793	135—24: 2,714,080	200—44: 2,714,138	262—84: 2,714,169	269—60: 2,714,037
33: 2,713,713	398: 2,713,795	136—58: 2,713,866	201—61.05: 2,714,139	263—188: 2,713,987	68: 2,714,038
95: 2,713,714	336.5: 2,713,796	137—172: 2,713,867	202—61.34: 2,714,140	264—322: 2,713,988	5: 2,714,039
155.57: 2,713,715	425: 2,713,799	138—58: 2,713,868	203—87: 2,714,141	265—324: 2,713,989	37: 2,714,041
402: 2,713,716	472: 2,713,800	139—68: 2,713,869	204—87: 2,714,142	266—36: 2,714,091	47: 2,714,042
167: 2,713,717	51: 2,713,801	140—197: 2,713,870	205—122: 2,714,143	267—113: 2,714,093	57: 2,714,043
200: 2,713,718	80—12: 2,713,802	141—382: 2,713,871	206—140: 2,714,144	268—152: 2,714,094	304—24: 2,714,044
254: 2,713,719	81—90: 2,713,803	142—447: 2,713,872	207—51: 2,714,145	269—301.4: 2,714,095	305—51: 2,714,172
32—10 Re.24,045	84—174: 2,713,804	143—513: 2,713,873	208—62: 2,714,147	270—516: 2,714,096	83: 2,714,046
14: 2,713,720	402: 2,713,805	144—403: 2,713,874	209—63: 2,714,148	271—69: 2,713,990	194: 2,714,173
32: 2,713,721	85—51: 2,713,806	145—403: 2,713,877	210—57: 2,714,149	272—77: 2,713,991	265: 2,714,174
74: 2,713,722	88—39: 2,713,807	146—78: 2,713,879	211—57: 2,714,150	273—324: 2,713,992	92: 2,714,175
78: 2,713,723	57: 2,713,808	147—221: 2,713,881	212—48: 2,714,151	274—2: 2,713,994	17: 2,714,176
104: 2,713,724	93: 2,713,810	148—37: 2,713,882	213—16: 2,713,937	275—247: 2,713,996	20: 2,714,177
174: 2,713,725	96: 2,713,811	149—330: 2,713,883	214—52: 2,713,938	276—262.16: 2,713,997	39.61: 2,714,178
211: 2,713,726	99: 2,713,812	150—154: 2,713,884	215—58: 2,713,939	277—250—95: 2,713,998	166: 2,714,180
34—135: 2,713,727	102—70: 2,713,825	151—28: 2,713,885	216—65: 2,713,940	278—260—20.2: 2,714,097	2: 2,714,181
35—10.4: 2,713,729	103—44: 2,713,816	152—37: 2,713,886	217—108: 2,713,941	279—38: 2,714,098	234: 2,714,182
36—22: 2,713,730	104—20: 2,714,068	153—101: 2,714,061	218—172.5: 2,713,945	280—46.5: 2,714,099	235: 2,714,183
37—34: 2,713,731	105—36: 2,713,817	154—8: 2,713,885	219—3: 2,714,090	281—80: 2,714,100	245: 2,714,184
38—36: 2,713,733	106—8: 2,714,066	155—11: 2,713,886	220—108: 2,713,944	282—93.5: 2,714,101	18: 2,714,185
39—9: 2,713,736	107—12.5: 2,713,818	156—22: 2,713,887	221—13: 2,713,947	283—196: 2,714,103	118: 2,714,186
40—43: 2,713,737	108—188: 2,713,819	157—124: 2,713,888	222—1: 2,713,948	284—205: 2,714,105	56: 2,714,187
41—64: 2,713,738	109—8: 2,714,067	158—143: 2,713,889	223—17: 2,713,949	285—244: 2,714,106	66: 2,714,188
42—16: 2,713,741	110—20: 2,714,068	159—184: 2,713,892	224—309: 2,713,950	286—271: 2,714,107	324—30: 2,714,189
43—42.38: 2,713,742	111—117: 2,714,069	160—188: 2,713,893	225—309: 2,713,951	287—294.7: 2,714,108	32: 2,714,190
44—43.12: 2,713,743	112—123: 2,713,822	161—199: 2,713,896	226—502: 2,713,955	288—295.5: 2,714,109	51: 2,714,191
45—44.99: 2,713,744	113—123: 2,713,823	162—21: 2,713,901	227—532: 2,713,956	289—332.2: 2,714,111	73: 2,714,192
46—92: 2,713,745	114—126: 2,713,824	163—29: 2,713,902	228—532: 2,713,957	290—410.7: 2,714,113	98: 2,714,193
47—98: 2,713,747	115—102—70: 2,713,825	164—60: 2,713,903	229—532: 2,713,958	291—448.8: 2,714,115	45: 2,714,195
48—153: 2,713,748	116—103—44: 2,713,827	165—78: 2,713,904	230—532: 2,713,959	292—471: 2,714,117	97: 2,714,196
49—26: 2,713,750	117—130: 2,713,828	166—119: 2,713,905	231—72: 2,713,960	293—561: 2,714,119	255: 2,714,197
50—33: 2,713,751	118—173: 2,713,829	167—63: 2,713,906	232—72: 2,713,961	294—619: 2,714,120	261: 2,714,198
51—55: 2,713,755	119—207: 2,713,830	168—67: 2,713,907	233—31: 2,713,962	295—633: 2,714,121	149: 2,714,201
102: 2,713,756	120—123: 2,713,910	169—70: 2,713,909	234—33: 2,713,963	296—648: 2,714,122	174: 2,714,202

## CLASSIFICATION OF DESIGNS

D 9—2: Des. 175,210	D17—12: Des. 175,240	D48—20: Des. 175,208	D57—1: Des. 175,236	D87—3: Des. 175,232	D92—1: Des. 175,221
Des. 175,227	D26—14: Des. 175,207	Des. 175,234	Des. 175,237	Des. 175,233	Des. 175,222
D12—2: Des. 175,231	D34—4: Des. 175,211	D52—3: Des. 175,225	D61—1: Des. 175,215	D90—20: Des. 175,214	Des. 175,223
D14—6: Des. 175,230	Des. 175,212	D54—2: Des. 175,229	Des. 175,226	Des. 175,217	4: Des. 175,218
18: Des. 175,235	5: Des. 175,213	D56—1: Des. 175,209	D81—10: Des. 175,239	D92—1: Des. 175,219	
D17—7: Des. 175,228	11: Des. 175,238	Des. 175,224	D83—1: Des. 175,216	Des. 175,220	



TRADEMARKS

NOTICES

Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

TM 140,650. (See TM 315,300.)

TM 226,693, TM 514,230, TM 517,496, TM 524,143, TM 524,389, TM 525,001, TM 526,246, TM 528,288, TM 529,040, TM 529,353, TM 530,555, TM 531,440, TM 532,724, TM 544,488, TM 545,822, TM 545,866, TM 548,964, TM 550,934, TM 563,528, TM 595,839 (Allstate), Sears, Roebuck and Co., Automobile supplies—namely, tires and tubes, door locks, sponges, etc.; TM 586,026, same, Automobile tractor and motor bike parts, etc.; TM 596,333, same, Automobiles and motor vehicle structural parts, etc.; TM 549,796 (Super Allstate), same, Automobile tires, filed May 6, 1955, D. C. N. J. (Newark), Doc. 430/55, *Sears, Roebuck and Co. et al. v. Allstate Auto Body Works*. Consent Decree for Injunction May 23, 1955.

TM 265,126. (See TM 315,300.)

TM 315,300 (Monsanto), Monsanto Chemical Co., Certain named organic chemicals; TM 265,126 ("Monsanto Chemical Works", etc. and design), same, Certain named chemicals; TM 140,650 ("Monsanto Chemicals of Quality", etc. and design), same; TM 362,119 (Saccharin Monsanto), same, Saccharin soluble and insoluble, filed Dec. 31, 1953, D. C., S. D. N. Y., Doc. 90/198, *Monsanto Chemical Co. v. Cosmos Chemical Corp.* Consent judgment for Injunction (notice May 19, 1955).

TM 391,900 (U-Control), American Junior Aircraft Co., Toy airplanes and controls therefor; 2,292,416, N. E. Walker, Controlled captive type toy airplane; 2,406,874, same, Retractable control element for toy airplanes, filed Sept. 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15889-C, *American Junior Aircraft Co. v. L. M. Cox Mfg. Co., Inc. et al.* Complaint dismissed with prejudice; Patent No. 2,292,416 and claims 2, 3, 4, 5, 6, 7, 8, 9, 12 and 13 held invalid, but if

valid held infringed by defendants; Patent No. 2,406,874 and claims 1, 2, 5 and 6 held valid but not infringed (notice May 17, 1955).

TM 443,393 (Anchor), Anchor Post Products, Inc., Metallic fencing, filed May 23, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15556, *Anchor Post Products, Inc. v. Abbott Fence Corp. et al.*

TM 514,230. (See TM 226,693.)

TM 517,496. (See TM 226,693.)

TM 524,143. (See TM 226,693.)

TM 524,389. (See TM 226,693.)

TM 525,001. (See TM 226,693.)

TM 526,246. (See TM 226,693.)

TM 528,288. (See TM 226,693.)

TM 529,040. (See TM 226,693.)

TM 529,353. (See TM 226,693.)

TM 530,555. (See TM 226,693.)

TM 531,440. (See TM 226,693.)

TM 532,724. (See TM 226,693.)

TM 544,488. (See TM 226,693.)

TM 545,822. (See TM 226,693.)

TM 545,866. (See TM 226,693.)

TM 548,702 (Stopette), J. B. Montenier, Body deodorants, filed May 27, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15571, *Jules Montenier Inc. v. Jane-Art Inc. et al.*

TM 548,964. (See TM 226,693.)

TM 549,796. (See TM 226,693.)

TM 550,934. (See TM 226,693.)

TM 562,119. (See TM 315,300.)

TM 563,528. (See TM 226,693.)

TM 586,026. (See TM 226,693.)

CONDITION OF TRADEMARK APPLICATIONS AS OF MAY 31, 1955

Total number of applications awaiting action (excluding renewals and republications)-----11,808

Date of oldest new application-----Nov. 3, 1954

Date of oldest amended application-----Nov. 15, 1954

MERCHANT, JOHN, Executive Examiner	Oldest Application	
	New	Amended
TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION		
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....	11-16-54	12-2-54
Renewals (All Classes).....	4-13-55	5-5-55
Republications (All Classes).....	3-31-55	4-25-55
II. KEYS, O. M., Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....	11-3-54	11-15-54
III. RACKNOR, M., Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.....	12-1-54	12-1-54

Applications Filed During Week Ended July 1, 1955—461

Registrations Issued-----410—No. 609,344 to No. 609,753

Renewals Issued-----95



TM 595,839. (See TM 226,693.)

TM 596,333. (See TM 226,693.)

TM 600,657 (Myzon), A. Meyerhoff, doing business as Meyerhoff Farms, Mineral and vitamin compound used as a supplementary dietary preparation in animal feeds, filed May 23, 1955, D. C. N. J. (Camden), Doc. 459/55, *Meyerhoff Farms et al. v. Wene Poultry Laboratories, Inc. et al.*

### Recording of Trademark Assignments

In accordance with a recommendation of the Patent Office Operational Review Committee, this Office proposes to adopt the revised procedure set out below for recording trademark assignments.

In essence, when an assignment of a trademark application is received for recording in the Office, the proposed revised procedure would involve making a copy of the assignment instrument, placing the copy in the affected application or registration file with appropriate notation on the file wrapper, and entering the name of the assignee on a numerical index card. No other copies, digests, or indexes would be prepared and the original document would be returned as in the past.

In detail, the proposed procedure would operate as follows in particular situations.

#### 1. Registered Trademark

The copy of the assignment instrument would be placed in the registration file and a notation "Assignment" with the date of filing would be made in the file contents. The name of the assignee would be entered on a previously prepared or newly prepared card indexed by registration number.

#### 2. Trademark Application

The copy of the assignment instrument would be placed in the application file, a notation "Assignment" with the date

of filing would be made in the file contents, the name of the assignee would be entered on the face of the file wrapper, and the name of the assignee would be entered on a previously prepared or newly prepared card indexed by application number. When registration is granted on the application, the registration number would be entered on the index card and the card would be transferred to the numerical card file of registrations under 1.

#### 3. "Blanket" Assignment

If an assignment covers a large number of trademark applications and/or registrations, the procedure would be the same as under 1 and 2 except that only one copy of the assignment instrument would be made and placed in the lowest-numbered application or registration file. The higher-numbered application or registration files would contain a cross-reference to the lowest-numbered file where the copy of the instrument would be found. A retention label would be placed on the file containing the copy of the assignment so that it would not be destroyed during the life of other trademarks covered by the assignment.

#### 4. Previously Assigned Trademarks

The Office has now separated the live trademark registration files from the files of marks which are no longer in effect. The percentage of live marks which has been assigned is not great and, over a period of time, title searches would be made for the live registrations and copies of the previously recorded assignments would be placed in the registration files, in accordance with 1 and 3. With the completion of this project, the Patent Office would be in position to dispose of the large volume of assignment records of a vintage prior to any live patents.

Comments as to the foregoing are invited and should be submitted within thirty days of the date of this publication.

ROBERT C. WATSON,

Commissioner.

July 1, 1955.

## TRADEMARK RULES

The following revision of the Rules of Practice in Trademark Cases, published in the Federal Register for July 7, 1955, has been adopted, to take effect on August 15, 1955, except as otherwise provided.

These rules shall apply to further proceedings in trademark applications pending on August 15, 1955, including applications filed under the act of 1905 or 1920 insofar as not inconsistent with said acts, and also to further action in inter partes cases pending on such date, except to the extent that, in the opinion of the Commissioner, their application to a particular case pending when these rules take effect, or to a particular action or paper in such case would not be feasible or would work injustice, in which event the rules in effect immediately prior to the date these rules take effect, shall apply to such case, action or paper.

Section 2.142 shall not apply to appeals from final rejections of the Examiner made before August 15, 1955, and appeals to the Commissioner from such rejections shall be governed by the applicable rules in effect prior to such date.

### PART 2—RULES OF PRACTICE IN TRADEMARK CASES

Sec.		Sec.	
2.1	Sections of Part 1 applicable.	2.74	Form of amendment.
2.6	Trademark fees.	2.75	Amendment to change application to different register.
	<b>Representation by Attorneys and Agents</b>		<b>Publication and Allowance</b>
2.11	Applicants may be represented by an attorney.	2.81	Publication in OFFICIAL GAZETTE.
2.12	Persons who may practice before the Patent Office in trademark cases.	2.82	Allowance of application.
2.13	Professional conduct.	2.83	Marks on Supplemental Register published only upon registration.
2.14	Advertising.	2.84	Jurisdiction over published or allowed applications.
2.15	Signature and certificate of attorney or agent.		<b>Classification</b>
2.16	Suspension or exclusion from practice.	2.85	Classification of goods and services.
2.17	Power of attorney or authorization of agent.	2.86	Plurality of goods or services comprised in single class may be covered by single application.
2.18	Correspondence held with attorney or agent.	2.87	Original application must be limited to goods or services comprised in a single class.
2.19	Revocation of power of attorney or authorization of agent.	2.88	Applications may be combined.
	<b>Application for Registration</b>		<b>Interferences</b>
2.21	Parts of application.	2.91	Interferences.
2.22	Application must be complete to receive filing date.	2.92	Preliminary to interference.
2.23	Serial number and filing date.	2.93	Declaration of interference.
2.24	Designation of representative by foreign applicant.	2.94	Interference motions.
2.25	Papers not returnable.	2.95	Decision on motion to dissolve.
2.26	Use of old drawing in new application.	2.96	Issues; burden of proof.
2.27	Application confidential prior to publication, access to applications.	2.97	Enlargement of issues.
	<b>The Written Application</b>	2.98	Adding party to interference.
2.31	Application must be in English.	2.99	Application to register as concurrent user.
2.32	Application to be signed and sworn to by applicant.		<b>Opposition</b>
2.33	Requirements for application.	2.101	Time for filing notice of opposition.
2.34	[Reserved.]	2.102	Extension of time.
2.35	Description of mark.	2.103	Notice filed by attorney or agent.
2.36	Identification of prior registrations.	2.104	Contents of notice of opposition.
2.37	Power of attorney, domestic representative.	2.105	Institution of opposition.
2.38	Use by predecessor or by related companies.	2.106	Answer.
2.39	Omission of allegation of use by foreign applicants.		<b>Cancellation</b>
2.41	Proof of distinctiveness under section 2(f).	2.111	Time for filing petition for cancellation.
2.42	Concurrent use.	2.112	Petition for cancellation.
2.43	Service mark.	2.113	Notice of filing of petition.
2.44	Collective mark.	2.114	Answer.
2.45	Certification mark.		<b>Procedure in Inter Partes Proceedings</b>
2.46	Principal Register.	2.117	Federal Rules of Civil Procedure.
2.47	Supplemental Register.	2.118	Undelivered Office notices.
	<b>Drawing</b>	2.119	Service of papers.
2.51	Drawing required.	2.120	Discovery procedure.
2.52	Requirements for drawings.	2.121	Assignment of times for taking testimony.
2.53	Transmission of drawings.	2.122	Matters in evidence.
2.54	Informal drawings.	2.123	Testimony in inter partes cases.
2.55	Patent Office may make drawings.	2.124	Testimony by written questions.
	<b>Specimens</b>	2.125	Copies of testimony.
2.56	Specimens.	2.126	Allegations in application not evidence on behalf of applicant.
2.57	Facsimiles.	2.127	Motions.
2.58	Specimens or facsimiles in the case of a service mark.	2.128	Final hearing and briefs.
	<b>Examination of Application and Action by Applicants</b>	2.129	Oral argument.
2.61	Action by examiner.	2.130	New matter suggested by Examiner of Trademarks.
2.62	Period for response.	2.131	Ex parte action by the Examiner of Interferences.
2.63	Re-examinations.	2.132	Failure to take testimony.
2.64	Final action.	2.133	Amendment of application or registration during proceedings.
2.65	Abandonment.	2.134	Surrender or cancellation of registration.
2.66	Revival of abandoned applications.	2.135	Abandonment of application, abandonment or disclaimer in whole of mark, concession of priority.
2.67	Suspension of action by Patent Office.	2.136	Status of application on termination of proceedings.
2.68	Express abandonment.		<b>Appeals</b>
2.69	Compliance with other laws.	2.141	Ex parte appeals to the Commissioner from the Examiner of Trademarks.
	<b>Amendment of Application</b>	2.142	Time and manner of ex parte appeals.
2.71	Amendments to application.	2.143	Appeal to the Commissioner from decision of Examiner of Interferences.
2.72	Amendments to description or drawing.	2.144	Reconsideration of decision on appeal.
2.73	Amendment to recite concurrent use.	2.145	Appeal to court.
			<b>Petition and Action by the Commissioner</b>
		2.146	Petition to the Commissioner.
		2.147	Cases not specifically defined.
		2.148	Commissioner may suspend certain rules.
			<b>Certificate</b>
		2.151	Certificate.
			<b>Publication of Marks Registered Under 1905 Act</b>
		2.153	Publication requirements.
		2.154	Publication in OFFICIAL GAZETTE.
		2.155	Notice of publication.
		2.156	Not subject to opposition; subject to cancellation.
			<b>Reregistration of Marks Registered Under Prior Acts</b>
		2.158	Reregistration of marks registered under acts of 1881, 1905 and 1920.
			<b>Cancellation for Failure to File Affidavit During Sixth Year</b>
		2.161	Cancellation for failure to file affidavit during sixth year.



- Sec.  
2.162 Requirements for affidavit.  
2.163 Acknowledgment of receipt of affidavit.  
2.164 Reconsideration of affidavit.  
2.165 Time of cancellation.

#### Affidavit Under Section 15

- 2.167 Affidavit under section 15.  
2.168 Combined with other affidavits.

#### Correction, Disclaimer, Surrender, Etc.

- 2.171 New certificate on change of ownership.  
2.172 Surrender for cancellation, disclaimer in whole.  
2.173 Amendment and disclaimer in part.  
2.174 Correction of Office mistake.  
2.175 Correction of mistake by registrant.  
2.176 Consideration of above matters.

#### Term and Renewal

- 2.181 Term of original registrations and renewals.  
2.182 Period within which application for renewal must be filed.  
2.183 Requirements of application for renewal.  
2.184 Refusal of renewal.

#### Assignment of Marks

- 2.185 Requirements for assignments.  
2.186 Action may be taken by assignee of record.  
2.187 Certificate of registration may issue to assignee.

#### Amendment of Rules

- 2.189 Amendments to rules.

**AUTHORITY:** §§ 2.1 to 2.189 issued under sec. 41, 60 Stat. 440, 66 Stat. 793; 15 U. S. C. 1123, 35 U. S. C. 6. Statutory provisions interpreted or applied are cited to text.

**§ 2.1 Sections of Part 1 applicable.** Sections 1.1 to 1.26 of this chapter are applicable to trademark cases except such parts thereof which specifically refer to patents. Other sections of Part 1 incorporated by reference or referred to in particular sections of this part are also applicable to trademark cases.

**§ 2.6 Trademark fees.** In addition to the fees prescribed by statute, the following fees and charges are established by the Patent Office for trademark cases:

- |                                                                                                                                                                                                                                                   |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| (a) For each printed copy of a registration with data entered of record as of date of mailing, relating to renewal, cancellation, publication under section 12 (c) of the 1946 Trademark Act, and affidavits under sections 8 and 15 of such act. | \$0.50 |
| (b) For photocopies of records and papers, per sheet.                                                                                                                                                                                             | .30    |
| (c) For photocopies of drawings.                                                                                                                                                                                                                  | .30    |
| (d) For making drawings, when they can be made by the Patent Office, the cost of making the same, minimum charge.                                                                                                                                 | 5.00   |
| (e) For correcting drawings, 30 cents for photoprint of uncorrected drawing, and the cost of making correction, minimum charge for making the correction.                                                                                         | 1.00   |

See § 1.21 for patent and miscellaneous fees.

#### Representation by Attorneys and Agents

**AUTHORITY NOTE:** §§ 2.11 to 2.19 interpret or apply 66 Stat. 795; 35 U. S. C. 31, 32.

**§ 2.11 Applicants may be represented by an attorney.** The owner of a trademark may file and prosecute his own application for registration of such trademark, or he may be represented by an attorney or other person authorized to practice in trademark cases. The Patent Office cannot aid in the selection of an attorney or agent.

**§ 2.12 Persons who may practice before the Patent Office in trademark cases.** (a) Attorneys at law: Attorneys at law in good standing admitted to practice before the highest court of any State or Territory of the United States or of the District of Columbia, may practice before the Patent Office in trademark cases. No register of attorneys who may practice before the Patent Office in trademark cases is maintained, and no application by an attorney at law for admission to such practice is required. A statement in the power of attorney, or in an accompanying paper, of the bar to which the attorney is admitted is required, and recognition is limited to each case.

(b) Non-lawyers: Persons who are not attorneys at law as specified in paragraph (a) of this section are not recognized to practice before the Patent Office in trademark cases, except that persons not attorneys at law who were recognized for such practice under the rules prior to August 15, 1953 (former § 100.42), and who in fact practiced in connection with applications for registration filed since July 5, 1947, will be

recognized as agents to continue practice in trademark cases in the Patent Office: *Provided*, That, before December 31, 1955, a statement is filed with the Commissioner of Patents requesting that recognition to practice be so continued, specifying the basis therefor.

(c) Foreign attorneys and agents: Any foreign attorney or agent not a resident of the United States who shall file proof to the satisfaction of the Commissioner that he is registered and in good standing before the patent or trademark office of the country in which he resides and practices, may be recognized to represent applicants located in such country before the United States Patent Office in the presentation and prosecution of trademark applications: *Provided*, That the patent or trademark office of such country allows substantially reciprocal privileges to those permitted to practice in trademark cases before the United States Patent Office. Such recognition shall continue only during the period that the conditions specified obtain.

(d) Recognition of any person under this section is not to be construed as sanctioning or authorizing the performance of any acts regarded in the jurisdiction where performed as the unauthorized practice of law.

(e) No persons other than those mentioned in paragraphs (a) and (b) of this section will be permitted to practice before the Patent Office in trademark cases. Any person may appear for himself, or for a firm of which he is a member, or for a corporation or association of which he is an officer and which he is authorized to represent, if such person, firm, corporation, or association is a party to the proceeding.

(f) Persons otherwise entitled to be recognized to practice under this section may, nevertheless, be refused recognition for cause.

**§ 2.13 Professional conduct.** Attorneys and other persons appearing before the Patent Office in trademark cases must conform to the standards of ethical and professional conduct generally applicable to attorneys before the courts.

**§ 2.14 Advertising.** (a) The use of display advertising, circulars, letters, cards, and similar material to solicit trademark business, directly or indirectly, is forbidden as unprofessional conduct, and any person engaging in such solicitation, or associated with or employed by others who so solicit, shall be refused recognition to practice before the Patent Office or suspended or excluded from further practice.

(b) The use of simple professional letterheads, calling cards, or office signs; simple announcements necessitated by opening an office, change of association, or change of address, distributed to clients and friends, and insertion of professional cards, listings in common form (not display) in a classified telephone or city directory, and listings and professional cards with biographical data in standard professional directories are not prohibited.

(c) No agent shall, in any material specified in paragraph (b) of this section or in papers filed in the Patent Office, represent himself to be an attorney, solicitor or lawyer.

**§ 2.15 Signature and certificate of attorney or agent.** Every paper filed by an attorney or other recognized person representing an applicant or party to a proceeding in the Patent Office must bear the signature of such attorney or person, except papers which are required to be signed by the applicant or party in person (such as the application itself and affidavits required of applicants or registrants). The signature of an attorney or such other person to a paper filed by him, or the filing or presentation of any paper by him, constitutes a certificate that the paper has been read; that its filing is authorized; that to the best of his knowledge, information, and belief there is good ground to support it; and that it is not interposed for delay. When an applicant or party is represented by a registered firm, such papers must carry the signature of the firm, or the signature of an individual member of the firm or an individual registered attorney or agent employed by the firm and duly authorized to sign on behalf of the firm in addition to the firm name, and the certification constituted by the signing or presentation of the paper shall be a certification by and on behalf of the firm and by the individual.

**§ 2.16 Suspension or exclusion from practice.** The Commissioner of Patents may, after notice and opportunity for a hearing, suspend or exclude, either generally or in any particular case, from further practice before the Patent Office any person, attorney, or agent shown to be incompetent or disreputable, or guilty of unethical or unprofessional conduct or gross misconduct, or who refuses to comply with the rules

and regulations, or who shall, with intent to defraud in any manner, deceive, mislead, or threaten any applicant or prospective applicant or other person having immediate or prospective business before the Patent Office, by word, circular, letter, or in any other manner. The reasons for any such suspension or exclusion shall be duly recorded. Proceedings for suspension, disbarment or exclusion from practice are conducted as provided in § 1.348. (See 35 U. S. C. 1952, sec. 32 for review of the Commissioner's action by the District Court of the United States for the District of Columbia.)

**§ 2.17 Power of attorney or authorization of agent.** Before any attorney or other recognized person will be allowed to inspect papers in any application prior to publication under § 2.81, or to take action of any kind in any application or proceeding, a written power of attorney or authorization, from the person or persons entitled to prosecute the application, or from the principal attorney or agent, must be filed in that particular application or proceeding.

**§ 2.18 Correspondence held with attorney or agent.** When an attorney or other recognized person shall have filed his power of attorney or authorization, duly executed, the correspondence will be held with him. Double correspondence with an applicant or other party and his attorney, or with two attorneys, will not be undertaken. If more than one attorney or agent be appointed, correspondence will be held with the one last appointed unless otherwise requested.

**§ 2.19 Revocation of power of attorney or authorization of agent.** A power of attorney or authorization of agent may be revoked at any stage in the proceedings of a case upon notification to the Commissioner; and, when it is so revoked, the Office will communicate directly with the applicant or with such other attorney or agent as he may appoint. An attorney or agent will be notified of the revocation of his power or authorization.

#### Application for Registration

**§ 2.21 Parts of application.** A complete application for registration comprises:

- A written application (see §§ 2.31 to 2.47);
- A drawing of the mark (see §§ 2.51 to 2.55);
- Five specimens or facsimiles (see §§ 2.56 to 2.58);
- The required filing fee;
- A certified copy of the registration in the country of origin if the application is based on such foreign registration pursuant to section 44 (c) of the act (see § 2.39).

**AUTHORITY NOTE:** §§ 2.21 to 2.47 interpret or apply sec. 1, 60 Stat. 427; 15 U. S. C. 1051.

**§ 2.22 Application must be complete to receive filing date.** An application will not be considered filed unless all the required parts specified in § 2.21, complying with the rules relating thereto, are received, but minor informalities may be waived subject to subsequent correction. If the papers are incomplete or so defective that they cannot be accepted, the applicant will be notified and the papers and fee held six months for completion. If the application is not completed within such time, the papers and fee will be returned to the applicant or otherwise disposed of; the drawing or fee of an unaccepted application may be transferred to a later application.

**§ 2.23 Serial number and filing date.** Complete applications will be numbered as received, and the applicant will be informed of the serial number and filing date of the application. The filing date of the application is the date on which the complete application is received in the Patent Office in acceptable form.

**§ 2.24 Designation of representative by foreign applicant.** If the applicant is not domiciled in the United States, he must designate by a written document filed in the Patent Office the name and address of some person resident in the United States on whom may be served notices or process in proceedings affecting the mark. If this document does not accompany or form part of the application, it will be required and registration refused unless it is supplied. Official communications of the Patent Office will be addressed to the domestic representative unless the applicant has appointed an attorney; the mere designation of such representative is not a power of attorney and the representative will not be recognized as the attorney unless qualified under § 2.12 and a power of attorney is filed.

**§ 2.25 Papers not returnable.** After an application is filed the papers will not be returned for any purpose whatever; but the Office will furnish copies to the applicant upon request and payment of the fee.

**§ 2.26 Use of old drawing in new application.** In an application filed in place of an abandoned or rejected application, or in an application for reregistration (§ 2.158), a new complete application is required, but the old drawing, if suitable, may be used. The application must be accompanied by a request for the transfer of the drawing, and by a permanent photographic copy, or an order for such copy, of the drawing to be placed in the original file. A drawing so transferred, or to be transferred, cannot be amended.

**§ 2.27 Application confidential prior to publication, access to applications.** (a) An index of pending applications stating the name and address of the applicant, a description of the mark, the goods or services with which the mark is used, the class number, the dates of use, and the serial number and filing date of the application will be available for public inspection as soon as practicable after filing. Access to files of pending trademark applications will not be given prior to publication under § 2.81 without the written authority of the applicant, or unless, in the opinion of the Commissioner, good cause has been shown for such access. Decisions of the Commissioner in applications and proceedings relating thereto are published or available for inspection or publication.

(b) After a mark has been registered, or published for opposition, the file of the application and all proceedings relating thereto are available for public inspection and copies of the papers may be furnished upon paying the fee therefor.

#### The Written Application

**§ 2.31 Application must be in English.** The application must be in the English language and plainly written on but one side of the paper. Legal size paper, typewritten double spaced, with at least a one and one-half inch margin on the left-hand side and top of the page, is deemed preferable.

**§ 2.32 Application to be signed and sworn to by applicant.** (a) The application must be made to the Commissioner of Patents and must be signed and verified (sworn to) by the applicant or by a member of the firm or an officer of the corporation or association applying.

(b) Re-executed papers or a verified statement of continued use of the mark may be required when the application has not been filed in the Patent Office within a reasonable time after the date of execution.

(c) The signature to the application must be the correct name of the applicant, since the name will appear in the certificate of registration precisely as it is signed to the application. The name of the applicant, wherever it appears in the papers of the application, will be made to agree with the name as signed.

**§ 2.33 Requirements for application.** (a) (1) The application shall include a request for registration and shall specify:

- The name of the applicant;
- The citizenship of the applicant; if the applicant be a partnership, the names and citizenship of the general partners or, if the applicant be a corporation or association, the state or nation under the laws of which organized;
- The domicile and post office address of the applicant;
- That the applicant has adopted and is using the mark shown in the accompanying drawing;
- The particular goods on or in connection with which the mark is used;
- The class of merchandise according to the official classification, if known to the applicant;
- The date of applicant's first use of the mark as a trademark on or in connection with goods specified in the application (see § 2.38);
- The date of applicant's first use in commerce of the mark as a trademark on or in connection with goods specified in the application, specifying the nature of such commerce (see § 2.38);
- The mode, manner or method of applying, affixing or otherwise using the mark on or in connection with the goods specified.

(2) If more than one item of goods is specified in the application, the dates of use required in subparagraph (1) (vii) and (viii) of this paragraph need be for only one of the items



specified, provided the particular item to which the dates apply is designated.

(3) The word commerce as used throughout this part means commerce which may lawfully be regulated by Congress, as specified in section 45 of the act.

(b) The application must also include averments to the effect that the applicant or other person making the verification believes himself or the firm, corporation, or association in whose behalf he makes the verification to be the owner of the mark sought to be registered; that the mark is in use in commerce, specifying the nature of such commerce; that no other person, firm, corporation, or association, to the best of his knowledge and belief, has the right to use such mark in commerce, either in the identical form thereof or in such near resemblance thereto as might be calculated to deceive; that the specimens or facsimiles show the mark as actually used in connection with the goods; and that the facts set forth in the application are true.

#### § 2.34 [Reserved.]

§ 2.35 **Description of mark.** A description of the mark, which must be acceptable to the Examiner of Trademarks, may be included in the application, and must be included if required by the Examiner. If the mark is displayed in color or a color combination, they should be described in the application.

§ 2.36 **Identification of prior registrations.** Prior registrations of the same or similar marks owned by the applicant should be identified in the application.

§ 2.37 **Power of attorney, domestic representative.** The power of attorney or authorization of agent (§ 2.17) and the appointment of a domestic representative (§ 2.24) may be included as a paragraph or paragraphs in the application.

§ 2.38 **Use by predecessor or by related companies.** (a) If the first use, the date of which is required by paragraph (a) (1) (vii) or (viii) of § 2.33, was by a predecessor in title, or by a related company (sections 5 and 45 of the act), and such use inures to the benefit of the applicant, the date of such first use may be asserted with a statement that such first use was by the predecessor in title or by the related company as the case may be.

(b) If the mark is not in fact being used by the applicant but is being used by one or more related companies whose use inures to the benefit of the applicant under section 5, such facts must be indicated in the application.

(c) The Office may require such details concerning the nature of the relationship and such proofs as may be necessary and appropriate for the purpose of showing that the use by related companies inures to the benefit of the applicant and does not affect the validity of the mark.

(Sec. 5, 60 Stat. 429; 15 U. S. C. 1055)

§ 2.39 **Omission of allegation of use by foreign applicants.** (a) The allegations of use, required by § 2.34, and the statements of the dates of the applicant's first use, required by § 2.33 (a) (1) (vii) and (viii), may be omitted in the case of an application, filed pursuant to section 44 (e) of the act, for registration of a mark duly registered in the country of origin of a foreign applicant, provided the application when filed is accompanied by a certificate of the trademark office of the foreign country showing that the mark has been registered in the country of origin of the applicant and also showing the mark, the goods for which registered and that said registration is then in full force and effect. A sworn translation of the certificate, if not in the English language, may be required after the application is filed.

(b) Such allegations and statements may also be omitted in the case of an application claiming the benefit of a prior foreign application in accordance with section 44 (d) of the act. The application in such case shall state the date and country of the first foreign application and, before the application can be considered as allowable, there must be filed a certificate of the trademark office of the foreign country showing that the mark has been registered in the country of origin of the applicant and also showing the mark, the goods for which registered and the date of filing of the application. In such cases the specification of goods shall not exceed the scope of that covered by the foreign registration or application.

(Sec. 44, 60 Stat. 441; 15 U. S. C. 1126)

§ 2.41 **Proof of distinctiveness under section 2 (f).** (a) When registration is sought of a mark which would be unreg-

istrable by reason of section 2 (f) but which is claimed to have become distinctive, the application shall allege that the mark is claimed to have become distinctive of applicant's goods as a result of substantially exclusive and continuous use in commerce for the five years next preceding the filing of the application, except that when the claim of distinctiveness is based on facts and circumstances other than five years' substantially exclusive use, the application shall allege that the mark is claimed to have become distinctive of applicant's goods as evidenced by proofs submitted.

(b) In either case, further evidence in support of the claim of distinctiveness may be required. Evidence in support of a claim of distinctiveness may be in the form of affidavits, depositions, or in such other form as may be appropriate.

(c) When the allegation of distinctiveness is added to the application subsequent to filing, facts stated in support thereof must be verified by the applicant.

(Sec. 2, 60 Stat. 428; 15 U. S. C. 1052)

§ 2.42 **Concurrent use.** (a) When an application to register is based on concurrent lawful use, the applicant shall state in the application, to the extent of his knowledge, the concurrent lawful use of the mark by others, setting forth their names and addresses; registrations issued to, or applications filed by, such others, if any; the areas of such use; the goods on or in connection with which such use is made; the mode of such use; the periods of such use; and the area, the goods, and the mode of use for which the applicant seeks registration.

(b) The verification shall be made with the stated exceptions.

(Sec. 2, 60 Stat. 428; 15 U. S. C. 1052)

§ 2.43 **Service mark.** In an application to register a service mark, the application shall specify and contain all the elements required by the preceding sections for trademarks, but shall be modified to relate to services instead of to goods wherever necessary.

(Sec. 3, 60 Stat. 429; 15 U. S. C. 1053)

§ 2.44 **Collective mark.** In an application to register a collective mark, the application shall specify and contain all applicable elements required by the preceding sections for trademarks, but shall, in addition, specify the class of persons entitled to use the mark, indicating their relationship to the applicant, and the nature of the applicant's control over the use of the mark.

(Sec. 4, 60 Stat. 429; 15 U. S. C. 1054)

§ 2.45 **Certification mark.** In an application to register a certification mark, the application shall specify and contain all applicable elements required by the preceding sections for trademarks. It shall, in addition, specify the manner in which and the conditions under which the certification mark is used; it shall allege that the applicant exercises legitimate control over the use of the mark and that he is not himself engaged in the production or marketing of the goods or services to which the mark is applied. See § 2.86.

(Sec. 4, 60 Stat. 429, 435; 15 U. S. C. 1054)

§ 2.46 **Principal Register.** All applications will be treated as seeking registration on the Principal Register unless otherwise stated in the application. Service marks, collective marks, and certification marks, registrable in accordance with the applicable provisions of section 2 of the act, are registered on the Principal Register.

§ 2.47 **Supplemental Register.** In an application to register on the Supplemental Register, the application shall so indicate and shall specify that the mark has been in continuous use in commerce, specifying the nature of such commerce, by the applicant for the preceding year, if the application is based on such use. When an applicant requests registration without a full year's use of the mark, in accordance with the last paragraph of section 23 of the act of 1946, the showing required must be separate from the application.

(Sec. 23, 60 Stat. 435; 15 U. S. C. 1091)

#### Drawing

**AUTHORITY NOTE:** §§ 2.51 to 2.55 interpret or apply sec. 1, 60 Stat. 427; 15 U. S. C. 1051.

§ 2.51 **Drawing required.** (a) The drawing of the trademark shall be a substantially exact representation thereof as actually used on or in connection with the goods.

(b) The drawing of a service mark shall be a substantially exact representation of the mark as used in the sale or adver-

tising of the services. The drawing of a service mark may be dispensed with in the case of a mark not capable of representation by a drawing, but in any such case the application must contain an adequate description.

(c) In the case of an application for registration on the Supplemental Register, the drawing, when appropriate and necessary (section 23, third paragraph, of the act), may be the drawing of a package or configuration of goods.

(d) If the application is for the registration only of a word, letter or numeral, or any combination thereof, not depicted in special form, the drawing may be the mark typed in capital letters on paper, otherwise complying with the requirements of § 2.52.

§ 2.52 **Requirements for drawings—(a) Character of drawing.** All drawings, except as otherwise provided, must be made with the pen or by a process which will give them satisfactory reproduction characteristics. A photolithographic reproduction or printer's proof copy may be used if otherwise suitable. Every line and letter must be black. This direction applies to all lines, however fine, and to shading. All lines must be clean, sharp, and solid, and they must not be too fine or crowded. Surface shading, when used, should be open. The requirements of this paragraph are not necessary in the case of drawings permitted and filed in accordance with paragraph (d) of § 2.51.

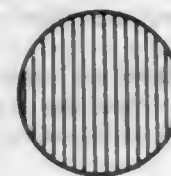
(b) **Paper and ink.** The drawing must be made upon pure white durable paper, the surface of which is calendered and smooth. A good grade of bond paper is suitable. India ink alone must be used for pen drawings to secure perfectly black solid lines. The use of white pigment to cover lines is not acceptable.

(c) **Size of paper and margins.** The size of the sheet on which a drawing is made must be 8 inches wide and 11 to 13 inches long. One of the shorter sides of the sheet should be regarded as its top. When the figure is longer than the width of the sheet, the sheet should be turned on its side with the top at the right. The size of the mark must be such as to leave a margin of at least one inch on the sides and bottom of the paper and at least one inch between it and the heading.

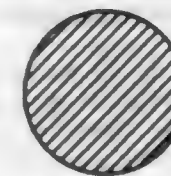
(d) **Heading.** Across the top of the drawing, beginning one inch from the top edge and not exceeding one-fourth of the sheet, there should be placed a heading, listing in separate lines, applicant's name, applicant's post office address, the dates of first use, and the goods or services recited in the application (or typical items of the goods or services if a number are recited in the application). This heading may be typewritten.

(e) **Linings for color.** Where color is a feature of a mark, the color or colors employed may be designated by means of conventional linings as shown in the following color chart:

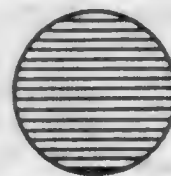
RED OR  
PINK



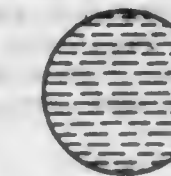
BROWN



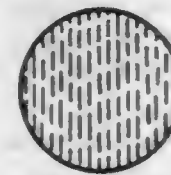
BLUE



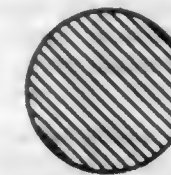
GRAY OR  
SILVER



VIOLET OR  
PURPLE



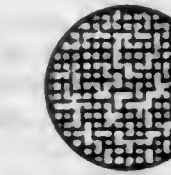
GREEN



ORANGE



YELLOW OR  
GOLD



§ 2.53 **Transmission of drawings.** Drawings transmitted to the Patent Office should be sent flat, protected by a sheet of heavy binder's board, or should be rolled for transmission in a suitable mailing tube to prevent mutilation. They should never be folded.

§ 2.54 **Informal drawings.** A drawing not in conformity with the foregoing rules may be accepted for purpose of examination, but the drawing must be corrected or a new one furnished, as required, before the mark can be published or the application allowed. The necessary corrections will be made by the Patent Office upon applicant's request and at

his expense. Substitute drawings will not be accepted unless they have been required by the Examiner or correction of the original drawing would require that the mark be substantially entirely redrawn.

§ 2.55 **Patent Office may make drawings.** The Patent Office, at the request of applicants and at their expense, will make drawings if facilities permit.

#### Specimens

**AUTHORITY NOTE:** §§ 2.56 to 2.58 interpret or apply sec. 1, 60 Stat. 427; 15 U. S. C. 1051.

§ 2.56 **Specimens.** The five specimens of a trademark shall be specimens of the trademark as actually used on or in connection with the goods in commerce, and shall be duplicates of the actually used labels, tags, or containers, or the displays associated therewith or portions thereof, when made of suitable material and capable of being arranged flat and of a size not larger than the size of the drawing.

§ 2.57 **Facsimiles.** When, due to the mode of applying or affixing the trademark to the goods, or to the manner of using the mark on the goods, or to the nature of the mark, specimens as above stated cannot be furnished, five copies of a suitable photograph or other acceptable reproduction, not larger than the size specified for the drawing and clearly and legibly showing the mark and all matter used in connection therewith, shall be furnished.

§ 2.58 **Specimens or facsimiles in the case of a service mark.** (a) In the case of service marks, specimens or facsimiles as specified in §§ 2.56 and 2.57, of the mark as used in the sale or advertising of the services shall be furnished unless impossible because of the nature of the mark or the manner in which it is used, in which event some other representation acceptable to the Commissioner must be submitted.

(b) In the case of service marks not used in printed or written form, three single face, unbreakable, disc recordings will be accepted. The speed at which the recordings are to be played must be specified thereon. If facilities are not available to the applicant to furnish recordings of the required type, the Patent Office may arrange to have made, upon request, and at applicant's expense, the necessary disc recordings from any type of recording the applicant submits.

#### Examination of Application and Action by Applicants

**AUTHORITY NOTE:** §§ 2.61 to 2.69 interpret or apply sec. 12, 60 Stat. 432; 15 U. S. C. 1062.

§ 2.61 **Action by Examiner.** (a) Applications for registration will be examined or caused to be examined by the Examiner of Trademarks, and, if the applicant is found not entitled to registration for any reason, he will be so notified

and advised of the reasons therefor and of any formal requirements or objections.

(b) The Examiner may require the applicant to furnish such information and exhibits as may be reasonably necessary to the proper examination of the application.

§ 2.62 **Period for response.** The applicant has six months from the date of mailing of any action by the Patent Office to respond thereto. Such response may be made with or without amendment and must include such proper action by the applicant as the nature of the action and the condition of the case may require.



**§ 2.63 Re-examinations.** After response by the applicant, the application will be re-examined or reconsidered, and if the registration is again refused or formal requirements insisted upon, but not stated to be final, the applicant may respond again.

**§ 2.64 Final action.** On the first or any subsequent re-examination or reconsideration the refusal of the registration or the insistence upon a requirement may be stated to be final, whereupon applicant's response is limited to an appeal or to a compliance with any requirement.

**§ 2.65 Abandonment.** If an applicant fails to respond, or to respond completely, within six months after the date an action is mailed, the application shall be deemed to have been abandoned.

**§ 2.66 Revival of abandoned applications.** An application abandoned for failure to respond may be revived as a pending application if it is shown to the satisfaction of the Commissioner that the delay was unavoidable. A petition to revive an abandoned application must be accompanied by a verified showing of the causes of the delay, and by the proposed response, unless the same has been previously filed.

**§ 2.67 Suspension of action by Patent Office.** (a) Action by the Patent Office may be suspended for a reasonable time specified upon request of the applicant for good and sufficient cause. Only one suspension will be granted by the Examiner, and any further suspension must be approved by the Commissioner. No such suspension can extend any time fixed by statute for a response by the applicant.

(b) If registration is refused on the basis of a prior registration and the applicant files a petition to cancel the reference registration, such action upon notice thereof being placed in the application file by the applicant within the time for reply, may be taken as a response to the rejection, and further action by the Office may, at applicant's request, be suspended pending the termination of the cancellation proceeding.

**§ 2.68 Express abandonment.** An application may be expressly abandoned by filing in the Patent Office a written declaration of abandonment signed by the applicant or, if assigned, by the assignee.

**§ 2.69 Compliance with other laws.** When the sale or transportation of any product for which registration of a trademark is sought is regulated under an Act of Congress, the Office may, before allowance, make appropriate inquiry as to compliance with such act for the sole purpose of determining lawfulness of the commerce recited in the application.

#### Amendment of Application

**AUTHORITY NOTE:** §§ 2.71 to 2.75 Interpret or apply sec. 12, 60 Stat. 432; 15 U. S. C. 1062.

**§ 2.71 Amendments to application.** (a) The application may be amended to correct informalities, or to avoid objections made by the Patent Office, or for other reasons arising in the course of examination. No amendments to the dates of use will be permitted unless such changes are supported by affidavit by the applicant and by such showing as may be required by the Examiner.

(b) Additions to the specification of goods or services will not be permitted unless the mark was in actual use on all of the goods or services proposed to be added by the amendment at the time the application was filed and unless the amendment is accompanied by additional specimens (or facsimiles) and by a supplemental affidavit by the applicant in support thereof.

(c) Amendment of the verification will not be permitted. If that filed with the application be faulty or defective, a substitute or supplemental verification must be filed.

**§ 2.72 Amendments to description or drawing.** Amendments to the description or drawing of the mark may be permitted only if warranted by the specimens (or facsimiles) as originally filed, or supported by additional specimens (or facsimiles) and a supplemental affidavit alleging that the mark shown in the amended drawing was in actual use prior to the filing date of the application. Amendments may not be made if the nature of the mark is changed thereby.

**§ 2.73 Amendment to recite concurrent use.** An application may be amended in the Examiner's discretion so as to be treated as an application for a concurrent registration, provided the application as amended satisfies the requirements of § 2.42.

**§ 2.74 Form of amendment.** (a) In every amendment the exact word or words to be stricken out or inserted in the application must be specified and the precise point indicated where the deletion or insertion is to be made. Erasures, additions, insertions, or mutilations of the papers and records must not be made by the applicant or his attorney or agent.

(b) When an amendatory clause is amended, it must be wholly rewritten so that no interlineation or erasure will appear in the clause, as finally amended, when the application is passed to registration. If the number or nature of the amendments shall render it otherwise difficult to consider the case or to arrange the papers for printing or copying, or when otherwise desired to clarify the record, the Examiner may require the entire statement to be rewritten.

**§ 2.75 Amendment to change application to different register.** An application for registration on the Principal Register may be changed to an application for registration on the Supplemental Register and vice versa by amending the application to comply with the rules relating to the requirements for registration on the appropriate register, as the case may be. The original filing date may be considered for the purpose of proceedings in the Patent Office provided the application as originally filed was sufficient for registration on the register to which amended. Otherwise, the filing date of the amendment will be considered the filing date of the application so amended. Only one such amendment will be permitted after an action by the Examiner.

#### Publication and Allowance

**§ 2.81 Publication in OFFICIAL GAZETTE.** If, on examination or re-examination of an application for registration on the Principal Register, it appears that the applicant is entitled to have his mark registered, the mark will be published in the OFFICIAL GAZETTE for opposition.

**§ 2.82 Allowance of application.** If no notice of opposition is filed within the time permitted (§§ 2.101 and 2.102), or if filed and dismissed, and if no interference is declared, the Examiner will sign the application file to indicate allowance and the application will be prepared for issuance of the certificate of registration as provided in § 2.151.

**§ 2.83 Marks on Supplemental Register published only upon registration.** In the case of an application for registration on the Supplemental Register the mark will not be published for opposition but if it appears, after examination or re-examination, that the applicant is entitled to have the mark registered, the Examiner will sign the application file to indicate allowance and prepare the application for issuance of the certificate of registration as provided in § 2.151. The mark will be published in the OFFICIAL GAZETTE when registered.

**§ 2.84 Jurisdiction over published or allowed applications.** (a) After publication or allowance the Examiner may exercise jurisdiction over an application by special authority from the Commissioner.

(b) Amendments may be made after the allowance of an application if the certificate has not been printed, on the recommendation of the Examiner approved by the Commissioner, without withdrawing the allowance.

#### Classification

**AUTHORITY NOTE:** §§ 2.85 to 2.89 Interpret or apply sec. 30, 60 Stat. 436; 15 U. S. C. 1112.

**§ 2.85 Classification of goods and services.** There is established, for convenience of administration, the classification of goods and services set forth in Part 6 of this Chapter. Such classification shall not limit or extend the applicant's rights.

**§ 2.86 Plurality of goods or services comprised in single class may be covered by single application.** A single application may recite a plurality of goods, or a plurality of services, comprised in a single class, provided the particular description of each of the goods or services be stated and the mark has actually been used on or in connection with all of the goods or in connection with all of the services specified.

**§ 2.87 Original application must be limited to goods or services comprised in a single class.** When a single application is filed to register a mark for both goods and services or for goods or services in different classes, registration will be refused, and the applicant will be required to restrict the application to goods or services comprised in a single class.

**§ 2.88 Applications may be combined.** (a) When several applications have been filed by the same applicant for registration on the same register of a mark shown in identical form on the drawings for goods in different classes, or services in different classes, and each of the applications has been allowed, a single certificate based on such several applications may be issued. A request for the issuance of a consolidated certificate must be made of record in each of the applications involved prior to the allowance of any of the applications.

(b) The issuance of any original certificate may be suspended upon request of the applicant, for a period not exceeding six months, to permit such consolidation.

#### Interferences

**AUTHORITY NOTE:** §§ 2.91 to 2.99 Interpret or apply secs. 16, 17, 60 Stat. 434; 15 U. S. C. 1066, 1067.

**§ 2.91 Interferences.** (a) Whenever application is made for registration on the Principal Register of a mark which so resembles a mark previously registered by another, or for the registration of which another has previously made application, as to be likely, when used on or in connection with the goods or services of the applicant, to cause confusion or mistake or to deceive purchasers, an interference may be declared to exist.

(b) An interference will not be declared between two applications unless a date of use prior to the filing date of the earlier filed application is asserted in the later filed application.

(c) An interference will not be declared between an application and a registration unless the date of use asserted in the application is prior to the filing date of the application which resulted in the registration, but in any case an interference will not be declared between an application and a registration issued prior to the filing date of the application except upon specific authorization of the Commissioner.

(d) Registrations and applications to register on the Supplemental Register, registrations under the act of 1920, and registrations of marks the right to the use of which has become incontestable are not subject to interference.

**§ 2.92 Preliminary to interference.** (a) Before the declaration of an interference, the marks which are to form the subject matter of the controversy must have been decided to be registrable by each party except for the interfering mark.

(b) The Examiner of Trademarks may require an applicant to put his application in condition for publication, within a time specified, not less than thirty days, in order that an interference may be declared. If any such applicant fails to put his application in condition for publication within the time specified, the declaration of interference will not necessarily be delayed.

(c) Whenever it shall be found that two or more parties whose interests are in conflict are represented by the same attorney, the Examiner of Trademarks shall notify each of said parties and also the attorney of this fact.

**§ 2.93 Declaration of interference.** An interference is declared and instituted by the mailing of a notice of interference to the parties. The notice shall be sent to each applicant, in care of his attorney or agent of record, if any, and if one of the parties is a registrant, the notice shall be sent to him or his assignee of record. The notice shall give the name and address of the adverse party and of his attorney or agent, if any, together with the serial number and date of filing and publication, if published, of each of the applications or registrations involved.

**§ 2.94 Interference motions.** (a) Motions to dissolve an interference may be brought on the ground (1) that no interference in fact exists, (2) that there has been such irregularity in declaring the same as will preclude a proper determination of the interference, or (3) that an applicant's mark is not registrable.

(b) Any party may bring a motion to add to the interference any other conflicting application which he may own.

(c) Motions under paragraph (a) or (b) of this section shall be made not later than forty days after the notice of interference is mailed and shall contain a full statement of the grounds relied upon. Such motions, if in proper form, will be transmitted to the Examiner of Trademarks for determination. Such transmittal will act as a stay of proceedings pending the determination of the motion. If the motion is not in proper form or if it is not brought within the time specified and no good cause is shown for the delay, it will not

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be considered, and the parties will be so notified. Any brief in support of a motion shall be embodied in or accompany the motion and any statement or brief in opposition to a motion shall be filed within twenty days after service of the motion; if not so filed, consideration thereof may be refused. Oral hearings will be held only at the request of any of the parties.

**§ 2.95 Decision on motion to dissolve.** The decision of the Examiner of Trademarks upon a motion for dissolution will be binding upon the Examiner of Interferences unless reversed or modified on appeal. Appeal may be taken to the Commissioner from a decision granting a motion to dissolve. No appeal may be had from a decision denying a motion to dissolve, but the question may be reviewed by the Commissioner on appeal from the final decision of the Examiner of Interferences.

**§ 2.96 Issues; burden of proof.** The issue in an interference between applications shall be the respective rights of the parties to registration on the applications presented, on the basis of priority of adoption and use. The issue in an interference between an application and a registration shall be the same, including, in the case of the registrant, the right to maintain the registration on the same basis, and if the final judgment is adverse to the registrant, the registration will be canceled unless good and sufficient reasons are presented for other action. The party whose application or registration involved in the interference has the latest filing date (the junior party) will be regarded as having the burden of proof.

**§ 2.97 Enlargement of issues.** Any party to an interference may, within fifty days after the notice of interference is mailed, file a pleading setting forth affirmatively any matter, other than the issue specified in § 2.96 on the basis of which, if proved, the other party would not be entitled to prevail or would not be entitled to obtain or maintain a registration. Such pleading may request affirmative relief by way of cancellation of a registration involved, but no defense attacking the validity of such registration may be otherwise raised in the proceeding. A reply to such request for affirmative relief is required within twenty days after service thereof, but no reply need be filed to other affirmative defenses.

**§ 2.98 Adding party to interference.** If, during the pendency of an interference, another case appears involving substantially the same registrable subject matter, the Examiner of Trademarks may request the suspension of the interference for the purpose of adding said case. Such suspension will be granted as a matter of course by the Examiner of Interferences if no testimony has been taken. If, however, any testimony has been taken, a notice for the proposed new party disclosing the issue in interference and the names and address of the interferants and of their attorneys or agents, and notices for the interferants disclosing the name and address of the said party and his attorney or agent, shall be prepared by the Examiner of Trademarks and forwarded to the Examiner of Interferences, who shall make such inquiries as are deemed necessary to determine the question of admissibility of the new party. If the Examiner of Interferences be of the opinion that the interference should be suspended and a new party added, he shall prescribe the terms for such suspension.

**§ 2.99 Application to register as concurrent user.** (a) An application for registration as a lawful concurrent user will be examined in the same manner as other applications for registration. When it is determined that the mark is ready for publication or allowance, except for questions relating to concurrent registration, the applicant may be required to furnish as many copies of his written application, specimens and drawing, as may be necessary. The Examiner of Trademarks shall prepare notices for the applicant and for each applicant, registrant, or user specified in the application for registration as a concurrent user. Such notices for the specified parties shall give the name and address of the applicant and of his attorney or agent, if any, together with the serial number and filing date of the application.

(b) The notices shall be sent by the Examiner of Interferences to each of the parties, in care of their attorneys, if they have attorneys of record, and if one of the parties is a registrant, a notice shall also be sent to him or his assignee of record. A copy of the application shall be forwarded with the notices to the parties specified in the appli-



cation. An answer to the notice is not required in the case of an applicant or registrant whose application or registration is specified in the application to register as concurrent user but a statement, if desired, may be filed within forty days after the mailing of the notice; in the case of other parties specified in the application to register as concurrent user, answer must be filed within forty days after the mailing of the notice.

(c) The procedure shall follow the practice in interference proceedings insofar as it is applicable and the time limitations prescribed in such practice shall be applicable herein. (Sec. 2, 60 Stat. 428, 434; 15 U. S. C. 1052)

#### Opposition

**AUTHORITY NOTE:** §§ 2.101 to 2.106 Interpret or apply secs. 13, 17, 60 Stat. 433, 434; 15 U. S. C. 1063, 1067.

§ 2.101 **Time for filing notice of opposition.** Any person who believes that he would be damaged by the registration of a mark upon the Principal Register may, upon payment of the required fee, oppose the same by filing a verified notice of opposition in the Patent Office within thirty days after the publication (§ 2.81) of the mark sought to be registered.

§ 2.102 **Extension of time.** A request to extend the time for filing a notice of opposition must be received in the Patent Office before the expiration of thirty days from the date of publication, and should be accompanied by a showing of good cause for the extension requested and specify the period of extension desired. In the event circumstances do not permit submission of such showing of good cause with the request, it should be furnished as promptly as possible and, in any event, within ten days after submission of such request.

§ 2.103 **Notice filed by attorney or agent.** An unverified notice of opposition may be filed by a duly authorized attorney or agent. The unverified notice and the required fee must be filed in the Patent Office within thirty days after publication (§ 2.81) of the mark sought to be registered, but such opposition will be null and void unless verified by the opposer and the verification or verified notice filed in the Patent Office within thirty days after such filing, or within such further time after such filing as may be fixed by the Commissioner upon request made before the expiration of said thirty days.

§ 2.104 **Contents of notice of opposition.** The notice of opposition must allege facts tending to show why the opposer would be damaged by the registration of the opposed mark and state the specific grounds for opposition. A duplicate copy of the notice of opposition including exhibits shall be filed.

§ 2.105 **Institution of opposition.** (a) When a notice of opposition is filed, the Examiner of Trademarks shall transmit the same, if regularly filed, to the Examiner of Interferences.

(b) A notice shall be prepared, identifying the title and number of the proceeding and the application involved, and designating a time, not less than thirty days from the mailing date of such notice, within which answer must be filed. Copies of this notice shall be forwarded by the Examiner of Interferences to the parties in care of their attorneys or agents, if they have attorneys or agents of record. The duplicate copy of the notice of opposition and exhibits shall be forwarded with the notice to the applicant.

§ 2.106 **Answer.** (a) If no answer is filed within the time set, the opposition may be decided as in case of default.

(b) An answer may contain any affirmative defense, including a request for affirmative relief by way of cancellation of a registration pleaded in the notice of opposition, but no defense attacking the validity of such registration may be otherwise raised in the proceeding. A reply to such a request for affirmative relief is required within twenty days after service thereof, but no reply need be filed to other affirmative defenses.

(c) The notice of opposition may be withdrawn without prejudice before the answer is filed. After answer is filed the notice may not be withdrawn without prejudice except with the consent of the applicant.

#### Cancellation

**AUTHORITY NOTE:** §§ 2.111 to 2.114 Interpret or apply secs. 14, 17, 24, 60 Stat. 433, 434; 15 U. S. C. 1064, 1067, 1092.

§ 2.111 **Time for filing petition for cancellation.** Any person who believes that he is or will be damaged by a registra-

tion may, upon payment of the required fee, apply to the Commissioner to cancel said registration. Such petition may be made at any time in the case of registrations on the Supplemental Register or under the act of 1920, or registration under the act of 1881 or the act of 1905 which have not been published under section 12 (c) of the act (§ 2.153), and in cases involving the ground specified in section 14 (c) and (d) of the act. In all other cases such petition must be made within five years from the date of registration of the mark under the act of 1946 or from the date of publication under section 12(c) of the act.

§ 2.112 **Petition for cancellation.** The petition to cancel, which must be verified, must allege facts tending to show why the petitioner believes he is or will be damaged by the registration, state the specific grounds for cancellation, and indicate the respondent party to whom notice shall be sent. A duplicate copy of the petition, including exhibits, and an order for a title report for Office use (or an abstract of title) of the mark sought to be cancelled shall be filed with the petition. Applications to cancel different registrations owned by the same party may be joined in one petition when appropriate, but the fee for each application to cancel a registration must accompany the petition.

§ 2.113 **Notice of filing of petition.** (a) When a petition for cancellation is filed, it shall be transmitted to the Examiner of Interferences, who shall make examination thereof to determine if it is formally correct. If he be of the opinion that the petition is defective as to form, he shall so advise the party filing the same and set a time for correcting the informality.

(b) When the petition is correct as to form a notice shall be prepared, identifying the title and number of the proceeding and the registration involved, and designating a time, not less than thirty days from the mailing date of such notice, within which answer must be filed. Copies of this notice shall be forwarded by the Examiner of Interferences to the parties in care of their attorneys or agents, if they have attorneys or agents of record. The duplicate copy of the petition and exhibits shall be forwarded with the notice to the registrant.

§ 2.114 **Answer.** (a) If no answer is filed within the time set, the petition may be decided as in case of default.

(b) An answer may contain any affirmative defense, including a request for affirmative relief by way of cancellation of a registration pleaded in the petition, but no defense attacking the validity of such registration may be otherwise raised in the proceeding. A reply to such a request for affirmative relief is required within twenty days after service thereof, but no reply need be filed to other affirmative defenses.

(c) The petition for cancellation may be withdrawn without prejudice before the answer is filed. After the answer is filed the petition may not be withdrawn without prejudice except with the consent of the registrant.

#### Procedure in Inter Partes Proceedings

**AUTHORITY NOTE:** §§ 2.117 to 2.136 Interpret or apply sec. 17, 60 Stat. 434; 15 U. S. C. 1067.

§ 2.117 **Federal Rules of Civil Procedure.** (a) Except as otherwise provided, procedure and practice in inter partes proceedings shall be governed by the Rules of Civil Procedure for the District Courts of the United States wherever considered applicable and appropriate.

(b) The party having the latest filing date in an interference, the opposer in an opposition proceeding, the petitioner in a cancellation proceeding, and the applicant to register as a concurrent lawful user (or such applicant having the latest filing date), shall be deemed to be in the position of plaintiff, and the other parties to such proceedings shall be deemed to be in the position of defendants.

(c) The notice of opposition and the petition to cancel, and the answers thereto, correspond to complaint and answer in court proceedings. Such pleadings as may be filed in interference and concurrent registration proceedings will be treated as complaints or affirmative defenses, depending upon the party filing, but the filing of a pleading in such proceedings shall not operate to change the position of the parties as set forth in the preceding paragraph.

(d) The assignment of testimony periods corresponds to setting a case for trial in court proceedings.

(e) The taking of depositions during the assigned testimony periods corresponds to the trial in court proceedings.

(f) Oral hearing corresponds to oral summation in court proceedings.

§ 2.118 **Undelivered Office notices.** When the notices sent by the Patent Office to any registrant are returned to the Office undelivered, or when one of the parties resides abroad and his representative in the United States is unknown, additional notice may be given by publication in the OFFICIAL GAZETTE for such period of time as the Commissioner may direct.

§ 2.119 **Service of papers.** (a) Every paper filed in the Patent Office in inter partes cases, including appeals, must be served upon the other parties as provided by § 1.248 except the notices of interference (§ 2.93), the notice of opposition (§ 2.105), the petition for cancellation (§ 2.113), and the notices of a concurrent use proceeding (§ 2.99), which are mailed by the Patent Office. Proof of such service must be made before the paper will be considered by the Office. A statement signed by the attorney or agent, attached to or appearing on the original paper, when filed clearly stating the time and manner in which service was made will be accepted as prima facie proof of service.

(b) When service is made by mail, the date of mailing will be considered the date of service. Whenever a party is required to take some action within a prescribed period after the service of a paper upon him by another party and the paper is served by mail, five days shall be added to the prescribed period.

§ 2.120 **Discovery procedure.** (a) **Interrogatories.** Any party to an opposition, interference, cancellation or concurrent use proceeding may, at any time after institution of the proceeding, but not later than thirty days prior to the date set upon which any testimony may be first taken, serve written interrogatories in duplicate on any adverse party. Within fifteen days after service of such interrogatories the party served, or an official thereof competent to testify as to the facts in its behalf, shall serve in duplicate on the interrogating party separate and full answers under oath: *Provided, however,* That within such fifteen-day period the party served may file in the Patent Office objections to such interrogatories, or any portion thereof, accompanied by the original of the interrogatories. Any brief in support of such objections shall be filed with the objections. Any brief in opposition to the objections must be filed within fifteen days after service thereof. Answers to interrogatories to which objections are made shall be deferred pending decision on the objections, at which time an answer date will be fixed if necessary.

(b) **Scope of interrogatories.** Interrogatories may relate to any unprivileged matter peculiarly within the knowledge and control of the interrogated party which may be relevant and material to the claim or defense of the interrogating party or reasonably calculated to lead to the discovery of admissible evidence in support of such claim or defense, except that interrogatories are limited to inquiries with respect to the following: (1) the issues of abandonment, non-use, title or fraud; (2) the existence, description, nature, custody or location of any books, documents or other tangible things; (3) the identity and addresses of persons having knowledge of designated facts material to the issues; (4) a more particular description of the goods of the interrogated party; and (5) the first date of use which the interrogated party may claim for his mark.

(c) **Effect of interrogatories and answers.** (1) Interrogatories and answers thereto shall not be considered as a part of the record in the case unless the interrogating party files, before the close of his testimony period, a notice of reliance thereon, setting forth in said notice each interrogatory and the answer thereto to be relied upon. Such interrogatories and answers shall thereupon be considered as forming part of the record.

(2) Answers to interrogatories may not be introduced into the record by the interrogated party.

(d) **Discovery depositions.** (1) Any party to an opposition, interference, cancellation or concurrent use proceeding may, within the time specified for serving interrogatories, take depositions for discovery of relevant and material evidence in support of the claim or defense of such party, provided that the interrogation of persons shall relate only to unprivileged matter peculiarly within the knowledge and control of the interrogated party and shall be limited to the inquiries permitted in interrogatories for discovery. Reasonable notice of taking such depositions, not less than ten days, shall be given to all adverse parties to the proceeding, and examination and cross-examination may proceed in accordance with Rule 43 (b) Federal Rules of Civil Procedure.

(2) Discovery depositions may be used in accordance with Rule 26 (d) (1), (2), and (4) (e) and (f) of the Federal Rules of Civil Procedure provided the party offering the deposition, or any part thereof, in evidence files before the close of his testimony period, a notice of reliance thereon, setting forth in said notice the specific portions to be relied upon. So far as admissible under the rules of evidence, the specified portions of such depositions shall be considered as record evidence.

(e) **Requests for admissions.** (1) Any party to an opposition, interference, cancellation or concurrent use proceeding may, within the time specified herein for serving interrogatories, serve in duplicate on any adverse party a written request for admission by the latter of the genuineness of any relevant documents described in and attached to the request (a photocopy may be attached provided the original is made available for inspection) or of the truth of any facts which are material and relevant to the issues and which are believed to be within the knowledge of both the party serving and the party served. Each of the matters in respect of which an admission is requested shall be deemed admitted unless, within fifteen days after service thereof, the party to whom the request is directed (1) serves upon the party requesting the admission a sworn statement denying specifically the matters in respect of which an admission is requested, or setting forth in detail the reasons why he cannot truthfully admit or deny those matters; or (2) files written objections on the ground that some or all of the requested admissions are privileged or immaterial or irrelevant, or that the request is otherwise improper in whole or in part. When objections are filed, any brief in support thereof shall accompany them, and the original of the request for admissions shall be attached to the objections filed. Any brief in opposition to the objections shall be filed within fifteen days after service thereof.

(2) If objections to a part of the requests are made, the remainder of the requests shall be answered within the period provided. Compliance with the requests to which objections are made shall be deferred pending decision on the objections, at which time a date will be fixed if necessary. A denial shall fairly meet the substance of the requested admission, and when good faith requires that a party deny only a part or a qualification of a matter of which an admission is requested, he shall specify so much of it as is true and deny only the remainder.

(f) **Effect of admissions.** (1) Any admission made by a party pursuant to such request is for the purpose of the pending action only and neither constitutes an admission by him for any other purpose nor may it be used against him in any other proceeding.

(2) Such admissions shall not be considered as a part of the record in the case unless one, or both, of the parties files, before the close of his testimony period, a notice of reliance thereon setting forth in said notice each request and admission relied upon. So far as admissible under the rules of evidence, such requests and admissions shall be considered as record evidence.

(g) **Motion to produce documents, etc. for inspection and copying.** Upon motion showing good cause therefor, an order may be entered requiring a party to produce and permit the inspection and copying or photographing, by or on behalf of the moving party, of any designated books, documents or other tangible things, not privileged, which constitute or contain material within the scope of inquiries permitted in interrogatories for discovery and which are in his possession, custody or control. The order shall specify a time for compliance therewith, and may prescribe such terms and conditions as may be just.

(h) **Refusal to make discovery.** If any party or deponent fails or refuses to answer any proper question propounded by interrogatories, or fails or refuses to answer proper questions in taking discovery depositions or fails or refuses to comply with an order to produce and permit the inspection and copying or photographing of designated things, the Examiner of Interferences may strike out all or any part of any pleading of that party, or dismiss the action or proceeding or any part thereof, or enter a judgment as by default against that party, or take such other action as may be deemed appropriate.

§ 2.121 **Assignment of times for taking testimony.** (a) Times will be assigned for the taking of testimony in behalf of each of the parties, and no testimony shall be taken except



during the times assigned. If there be more than two parties to an interference, the times for taking testimony will be so arranged that each shall have an opportunity to prove his case against prior parties, to rebut their evidence, and to meet the evidence of junior parties.

(b) The times will ordinarily be assigned in the notices sent by the Patent Office in interferences and in concurrent proceedings, and in a notice sent after the answers have been filed in cases of opposition and cancellation.

**§ 2.122 Matters in evidence.** (a) The files of the applications or registrations specified in the declaration of interference or in the notice in case of concurrent registration proceedings, of the application against which a notice of opposition is filed, and of the registration against which a petition for cancellation or an affirmative defense requesting cancellation is filed, form part of the record of the proceeding without any action by the parties, and may be referred to for any relevant and competent purpose.

(b) A registration of the opposer or petitioner pleaded in a notice of opposition or petition to cancel will be received in evidence and made part of the record if two copies of the printed registration accompany the notice or petition. The Office will take notice of the fact shown by its records of renewal of such registrations, the publication thereof under section 12 (c), the filing of affidavits under section 8, and the filing of affidavits under section 15, and such matters need not be proven by the parties. Notice will also be taken of a recorded assignment identified in a notice of opposition or petition to cancel or other pleading, and such pleaded recorded paper need not be otherwise proved by the parties.

**§ 2.123 Testimony in inter partes cases.** (a) Testimony of witnesses in inter partes cases may be taken (1) by depositions on oral examination in accordance with §§ 1.273 to 1.281, 1.283, 1.285, 1.286 of this chapter; or (2) by written questions as provided by § 2.124 and by § 1.284 of this chapter.

(b) If the parties so stipulate in writing, deposition may be taken before any person authorized to administer oaths, at any place, upon any notice, and in any manner, and when so taken may be used like other depositions. By agreement of the parties, the testimony of any witness or witnesses of any party, may be submitted in the form of an affidavit by such witness or witnesses. The parties may stipulate what a particular witness would testify to if called, or the facts in the case of any party may be stipulated.

(c) Printed publications such as books, periodicals and similar publications such as are available to the general public in libraries or are of general circulation, and official records, may be introduced as provided in § 1.282 of this chapter. When a copy of an official record of the Patent Office is filed, it need not be a certified copy.

(d) Evidence not obtained and filed in compliance with these sections will not be considered.

(66 Stat. 795; 35 U. S. C. 23)

**§ 2.124 Testimony by written questions.** (a) A party may take the testimony of a witness by written questions to be propounded by an officer before whom depositions may be taken, § 1.274 of this chapter. The question shall be served upon the other party within ten days after the opening date set for taking the testimony of the party submitting the questions, together with a notice stating the name and address of the person who is to answer them and the name or descriptive title and address of the officer before whom the deposition is to be taken. Within ten days thereafter a party so served may serve cross questions upon the party proposing to take the deposition. Within five days thereafter the latter may serve redirect questions upon a party who has served cross questions. Within three days after being served with redirect questions, a party may serve recross questions upon the party proposing to take the depositions. Written objections to questions may be served on the party propounding the questions, within the time allowed the objector for serving further questions, and in response thereto substitute questions may be served, within three days.

(b) A copy of the notice and copies of all questions served shall be delivered by the party taking the testimony to the officer designated in the notice, who shall proceed to take the testimony of the witness in response to the questions and to prepare, certify, and file the deposition, attaching thereto the copy of the notice and the questions received by him. Such depositions are subject to the same rules for filing and serving copies as other depositions.

(c) On motion made within ten days after service of the notice and written questions, it may be ordered, for good cause shown, that the testimony be not taken in accordance with this section but by oral examination of the witness.

**§ 2.125 Copies of testimony.** (a) One copy of the transcript of testimony (taken in accordance with §§ 1.275 to 1.278 of this chapter or § 2.124), together with copies of documentary exhibits, shall be served on each adverse party within thirty days after completion of the taking of such testimony. The original transcript and exhibits and one copy of the transcript, shall be filed in the Patent Office as promptly as possible.

(b) Each transcript and the copies thereof shall comply with § 1.253 of this chapter as to arrangement, indexing and form.

**§ 2.126 Allegations in application not evidence on behalf of applicant.** The allegation of dates of use in the application for registration of the applicant or registrant cannot be used as evidence in behalf of the party making the same nor are exhibits attached to pleadings, or specimens in application and registration files, considered as evidence of use on behalf of the party who filed them, unless identified and introduced in evidence as other exhibits.

**§ 2.127 Motions.** (a) Motions shall be made in writing and shall contain a full statement of the grounds therefor. Any brief or memorandum in support of a motion shall accompany or be embodied in the motion. Briefs in opposition to a motion shall be filed within fifteen days from the date of service of the motion unless another time is specified by the Examiner or the time extended on request. Oral hearings will not be held on motion except on order of the Examiner having jurisdiction.

(b) Petitions for reconsideration or modification of the decision must be filed within ten days after the decision or, if the decision is appealable, before the time for appeal expires.

(c) Appeal must be taken, in the case of such decisions as are appealable, within the time limit set in the decision, or within twenty days if no time limit is set.

**§ 2.128 Final hearing and briefs.** (a) The brief of a party in the position of plaintiff shall be filed not later than forty days after the closing date set for rebuttal testimony; the brief of a party in the position of defendant not later than thirty days after the date of service of the first brief; a reply brief by a party in the position of plaintiff, if filed, shall be due ten days after the date of service of the brief to which it is a reply. Only a single copy of any brief need be filed.

(b) Briefs may be submitted in typewritten or printed form, except that where they are in excess of thirty typewritten pages, they shall be printed in conformity with § 1.253 (c) of this chapter. Typewritten briefs may be written on letter or legal size paper and shall be double-spaced. Each brief shall contain an alphabetical index of cases cited therein.

(c) If either party desires an oral hearing, he shall so state by a separate notice filed not later than his brief, and the time for such hearing will be set in a notice sent to each party by the Office. If no request for oral hearing is made, the case will be decided on the record and briefs.

**§ 2.129 Oral argument.** (a) Oral arguments will be heard by the Examiner of Interferences at the time stated in the notice. If any party appears at the specified time, he will be heard. If the Examiner of Interferences is prevented from hearing the case at the time specified for the hearing, a new assignment will be made, or the case will be continued from day to day until heard. Unless otherwise permitted, oral arguments will be limited to one-half hour for each party. Any petition for rehearing or modification of the decision must be filed within thirty days from the date thereof.

(b) Hearings may be advanced or adjourned, as far as is convenient and proper, to meet the wishes of the parties and their attorneys or agents.

**§ 2.130 New matter suggested by Examiner of Trademarks.** If, during the pendency of an inter partes case, facts appear which in the opinion of the Examiner of Trademarks render the mark of any applicant involved unregisterable, the attention of the Examiner of Interferences shall be called thereto. The Examiner of Interferences may suspend the proceeding and refer the case to the Examiner of Trademarks for his determination of the question of regis-

## Appeals

trability, following the final determination of which the case shall be returned to the Examiner of Interferences for such further action as may be appropriate. The consideration of such facts by the Examiner of Trademarks shall be ex parte, but a copy of the action of the Examiner will be furnished to the other party or parties to the inter partes proceedings.

**§ 2.131 Ex parte action by the Examiner of Interferences.** If, in considering an inter partes case involving an application, facts appear which in the opinion of the Examiner of Interferences render the mark of the applicant involved unregisterable on grounds not placed in issue by the pleadings, or which have not been placed in evidence by the parties, he may:

(a) Incorporate in his decision on the case a recommendation to the Examiner of Trademarks that the application be re-examined in the light of such facts: The Examiner of Trademarks, should the application return to his jurisdiction for action, is authorized to re-examine the application accordingly, or

(b) Incorporate in his opinion in the case a decision refusing registration on the new reasons. Such action by the Examiner of Interferences is ex parte, and the opposing party is not entitled to be heard thereon. The applicant in such event may request reconsideration of the ex parte decision, which will then be reconsidered by the Examiner of Interferences, or he may appeal to the Commissioner within the time provided. If neither action is taken the decision refusing registration becomes the final decision on the application, without prejudice to the inter partes case.

**§ 2.132 Failure to take testimony.** (a) Upon the filing of a statement by any party in the position of a defendant, that the time for taking testimony on behalf of any party in the position of plaintiff has expired and that no testimony has been taken by him and no other evidence offered, an order may be entered that such party show cause within a time set therein, not less than ten days, why judgment should not be rendered against him, and in the absence of a showing of good and sufficient cause judgment may be rendered as by default.

(b) If no evidence other than Patent Office records is offered by the party in the position of plaintiff, any party in position of defendant, without waiving his right to offer evidence in the event the motion is denied, may move for dismissal on the ground that upon the law and the facts the party in the position of plaintiff has shown no right to relief. The party in the position of plaintiff shall be allowed fifteen days after service of the motion to file his argument in opposition to the motion. Judgment may be rendered against the party in position of plaintiff, or the Examiner of Interferences may decline to render judgment until all the evidence is in. In the latter event, testimony periods will be reset for the party in position of defendant and for rebuttal.

**§ 2.133 Amendment of application or registration during proceedings.** An application involved in a proceeding may not be amended, nor may a registration be amended or disclaimed in part, except with the written consent of the other party or parties and the approval of the Examiner of Interferences, or except upon motion duly filed and considered.

**§ 2.134 Surrender or cancellation of registration.** If a registrant involved in a proceeding applies to surrender or cancel his registration, under section 7 (d) of the act, and such action is permitted, the proceeding may be terminated or continued on such terms as may be appropriate.

**§ 2.135 Abandonment of application, abandonment or disclaimer in whole of mark, concession of priority.** If an applicant involved in a proceeding files a written abandonment of the application, or abandonment of the mark, or if a registrant applies to disclaim the mark in whole under section 7 (d) of the act and such disclaimer is permitted, or if a party to an interference files a written concession of priority, the proceeding will not be dismissed or dissolved at the request of said party unless with the consent of the other parties, but judgment may be entered against said party when warranted by the issues raised.

**§ 2.136 Status of application on termination of proceeding.** On termination of a proceeding involving an application, the application, if the judgment is not adverse, returns to the status it had before the institution of the proceeding. If the judgment is adverse to the applicant, the application stands refused without further action and all proceedings thereon are considered terminated.

**§ 2.141 Ex parte appeals to the Commissioner from the Examiner of Trademarks.** Every applicant for the registration of a mark may, upon final refusal by the Examiner of Trademarks, appeal to the Commissioner in person upon payment of the prescribed fee. A second refusal on the same grounds may be considered as final by the applicant for purpose of appeal.

(Sec. 20, 60 Stat. 435; 15 U. S. C. 1070)

**§ 2.142 Time and manner of ex parte appeals.** (a) Such appeal must be taken within sixty days from the date of the final rejection, or, if the rejection was not made final by the Examiner, within the time for response to the Examiner's action. Appeal is taken simply by filing a notice of appeal and payment of the appeal fee.

(b) The appellant's brief shall be filed within sixty days after the date of appeal. If the brief is not filed within the time allowed, the appeal may be dismissed. The Examiner may, within such time as may be directed by the Commissioner, furnish a written statement in answer to appellant's brief, supplying a copy to the appellant. The appellant may file a reply brief within twenty days from the date of such answer. By delegation from the Secretary of Commerce, such appeals may be heard and decided by an Assistant Commissioner or an Examiner-in-Chief. Cases which have been heard and decided on appeal to the Commissioner will not be reopened except by his order.

(c) The appellant shall indicate, not later than at the time of filing his brief, if he desires an oral hearing. If no request for oral hearing has been made, the appeal will be considered on brief. If the appellant has requested an oral hearing, a day of hearing will be set, and due notice thereof given. Hearings will be held as stated in the notice and oral argument will be limited to one-half hour unless otherwise permitted.

(Sec. 20, 60 Stat. 435; 15 U. S. C. 1070)

**§ 2.143 Appeal to the Commissioner from decision of Examiner of Interferences.** Any party to an interference, opposition, cancellation, or a concurrent use proceeding may appeal from the final decision of the Examiner of Interferences to the Commissioner within sixty days from the date of the decision. Appeal is taken simply by filing a notice of appeal and payment of the appeal fee. The appellant's brief shall be filed within sixty days after the date of appeal. If the brief is not filed within the time allowed, the appeal may be dismissed. The brief of the appellee shall be filed within thirty days after the serving of the appellant's brief. A reply brief, if filed, shall be due within twenty days after the serving of appellee's brief. Briefs and hearings on appeal shall be subject to §§ 2.128 and 2.129 insofar as applicable. The date for hearing will be fixed by the Commissioner in each case. By delegation from the Secretary of Commerce, such appeals may be heard and decided by an Assistant Commissioner or an Examiner-in-Chief.

(Sec. 20, 60 Stat. 435; 15 U. S. C. 1070)

**§ 2.144 Reconsideration of decision on appeal.** Any request or petition for rehearing or reconsideration, or modification of the decision, must be filed within thirty days from the date of the decision.

**§ 2.145 Appeal to court.** Any applicant for registration, any registrant who has filed an affidavit under section 8 of the act, or any party to an inter partes proceeding, who is dissatisfied with the decision of the Commissioner, may appeal to the United States Court of Customs and Patent Appeals or may proceed under 35 U. S. C. 145 or 146, as in the case of applicants for patents, under the same conditions, rules and procedure as are applicable in the case of patent appeals or proceedings. (See §§ 1.301 to 1.304 of this chapter and rules of the United States Court of Customs and Patent Appeals.)

(Sec. 21, 60 Stat. 435; 15 U. S. C. 1071)

## Petitions and Action by the Commissioner

**§ 2.146 Petition to the Commissioner.** (a) Petition may be taken to the Commissioner (1) from any repeated action or requirement of the Examiner of Trademarks, not subject to appeal under § 2.141, in the ex parte prosecution of an application; (2) in cases in which the statute or the rules specify that the matter is to be determined directly by or reviewed by the Commissioner other than by appeal; and



(3) to invoke the supervisory authority of the Commissioner in appropriate circumstances.

(b) Any such petition must contain a statement of the facts involved and the point or points to be reviewed and the action requested. Any brief in support thereof should accompany or be embodied in the petition; in contested cases any brief in opposition shall be filed within fifteen days after service of the petition. Where facts are to be proved in *ex parte* cases (as in a petition to revive an abandoned application), the proof in the form of affidavits (and exhibits, if any) must accompany the petition.

(c) An oral hearing will not be held except when considered necessary by the Commissioner.

(d) The mere filing of a petition will not stay the period for replying to an Examiner's action, nor stay other proceedings.

(e) Authority to act on a petition may, when appropriate, be delegated by the Commissioner.

(f) No fee is required for a petition to the Commissioner.

**§ 2.147 Cases not specifically defined.** All cases not specifically defined and provided for by the rules in this part will be decided in accordance with the merits of each case under the authority of the Commissioner, and such decision will be communicated to the interested parties in writing.

**§ 2.148 Commissioner may suspend certain rules.** In an extraordinary situation, when justice requires and no other party is injured thereby, any requirement of the rules in this part not being a requirement of the statute may be suspended or waived by the Commissioner.

#### Certificate

**§ 2.151 Certificate.** When the requirements of the law and of the rules have been complied with, and the Patent Office has adjudged a mark registrable, a certificate will be issued to the effect that the applicant has complied with the law and that he is entitled to registration of his mark on the Principal Register or on the Supplemental Register as the case may be. The certificate will state the date on which the application for registration was filed in the Patent Office, the act under which the mark is registered, the date of issue and the number of the certificate. Attached to the certificate and forming a part thereof will be a reproduction of the drawing of the mark and pertinent data from the application. A notice of the affidavit requirement of section 8 (a) of the act (§ 2.161) will be printed on the certificate.

#### Publication of Marks Registered Under 1905 Act

**AUTHORITY NOTE:** §§ 2.153 to 2.156 interpret or apply sec. 12, 60 Stat. 432; 15 U. S. C. 1062.

**§ 2.153 Publication requirements.** A registrant of a mark registered under the provisions of the acts of 1881 or 1905 may, at any time prior to the expiration of the period for which the registration was issued or renewed, upon the payment of the prescribed fee, file an affidavit setting forth those goods stated in the registration on which said mark is in use in commerce, specifying the nature of such commerce, and stating that the registrant claims the benefits of the Trademark Act of 1946. An order for a title report for Office use (or an abstract of title) shall accompany the affidavit.

**§ 2.154 Publication in OFFICIAL GAZETTE.** A notice of the claim of benefits under the act of 1946 and a reproduction of the mark will then be published in the OFFICIAL GAZETTE as soon as practicable. The published mark will retain its original registration number.

**§ 2.155 Notice of publication.** A notice of such publication of the mark and of the requirement for the affidavit specified in section 8 (b) of the act (§ 2.161) will be sent to the registrant.

**§ 2.156 Not subject to opposition; subject to cancellation.** The published mark is not subject to opposition on such publication in the OFFICIAL GAZETTE, but is subject to petitions to cancel as specified in § 2.111 and to cancellation for failure to file the affidavit specified in § 2.161.

#### Reregistration of Marks Registered Under Prior Acts

**§ 2.158 Reregistration of marks registered under acts of 1881, 1905, and 1920.** Trademarks registered under the act of 1881, the act of 1905 or the act of 1920 may be reregistered under the act of 1946, either on the Principal Register, if eligible, or on the Supplemental Register, but a new complete application for registration must be filed complying with the

rules relating thereto, and such application will be subject to examination and other proceedings in the same manner as other applications filed under the act of 1946. See § 2.26 for use of old drawing.

#### Cancellation for Failure To File Affidavit During Sixth Year

**AUTHORITY NOTE:** §§ 2.161 to 2.165 interpret or apply sec. 8, 60 Stat. 431; 15 U. S. C. 1058.

**§ 2.161 Cancellation for failure to file affidavit during sixth year.** Any registration under the provisions of the act of 1946 and any registration published under the provisions of section 12 (c) of the act (§ 2.153) shall be cancelled at the end of six years following the date of registration or the date of such publication, unless within one year next preceding the expiration of such six years the registrant shall file in the Patent Office an affidavit showing that said mark is still in use or showing that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark.

**§ 2.162 Requirements for affidavit.** (a) The affidavit required by § 2.161 must:

(1) Be executed by the registrant after expiration of the five-year period following the date of registration or publication under section 12 (c);

(2) Identify the certificate of registration by the certificate number and date of registration;

(3) Recite sufficient facts to show that the mark described in the registration is still in use, specifying the nature of such use, or recite sufficient facts to show that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark; and

(4) Be accompanied by an order for a title report for Office use (or an abstract of title).

(b) A specimen or facsimile showing the mark as currently used should be submitted with and referred to in the affidavit.

**§ 2.163 Acknowledgment of receipt of affidavit.** The registrant will be notified by the Examiner of Trademarks of the receipt of the affidavit and, if satisfactory, of its acceptance.

**§ 2.164 Reconsideration of affidavit.** (a) If the affidavit is insufficient, the registrant will be notified of the reasons by the Examiner. Reconsideration of such refusal may be requested within six months from the date of the mailing of the notice. The request for reconsideration must state the reasons therefor; a supplemental or substitute affidavit required by section 8 of the act cannot be considered unless it is received before the expiration of six years from the date of the registration, or from the date of publication under section 12 (c).

(b) If the registrant is dissatisfied with the action of the Examiner holding the affidavit insufficient, he may petition to the Commissioner for review under § 2.146. If there is no petition to the Commissioner, the Commissioner in any event will notify the registrant of the insufficiency of the affidavit after the expiration of the sixth year. Such notice constitutes the final decision of the Patent Office. If there is a petition to the Commissioner the decision on that petition will constitute such final action. See § 2.145 for appeal to court.

**§ 2.165 Time of cancellation.** If no affidavit is filed, the registration will be cancelled forthwith by the Commissioner after the end of the sixth year, and a notice of the cancellation will be sent to the registrant. If the affidavit is filed but is refused, cancellation of the registration will be withheld pending further proceedings.

#### Affidavit Under Section 15

**§ 2.167 Affidavit under section 15.** The affidavit provided by section 15 of the act for acquiring incontestability for a mark registered on the Principal Register or a mark registered under the act of 1881 or 1905 and published under section 12 (c) of the act (§ 2.153) must:

(a) Be signed by the registrant;

(b) Identify the certificate of registration by the certificate number and date of registration;

(c) Recite the goods or services stated in the registration on or in connection with which the mark has been in continuous use in commerce for a period of five years subsequent to the date of registration or date of publication under sec-

tion 12 (c) of the act, and is still in use in commerce, specifying the nature of such commerce;

(d) Specify that there has been no final decision adverse to registrant's claim of ownership of such mark for such goods or services, or to registrant's right to register the same or to keep the same on the register;

(e) Specify that there is no proceeding involving said rights pending in the Patent Office or in a court and not finally disposed of;

(f) Be filed within one year after the expiration of any five-year period of continuous use following registration or publication under section 12 (c).

The registrant will be notified of the receipt of the affidavit. (Sec. 15, 60 Stat. 433; 15 U. S. C. 1065)

**§ 2.168 Combined with other affidavits.** (a) The affidavit filed under section 15 of the act may also be used as the affidavit required by section 8, provided it also complies with the requirements and is filed within the time limit specified in §§ 2.161 and 2.162.

(b) In appropriate circumstances the affidavit filed under section 15 of the act may be combined with the affidavit required for renewal of a registration (see § 2.183).

#### Correction, Disclaimer, Surrender, Etc.

**§ 2.171 New certificate on change of ownership.** In case of change of ownership of a registered mark, upon request of the assignee, a new certificate of registration may be issued in the name of the assignee for the unexpired part of the original period. The assignment must be recorded in the Patent Office, and the request for the new certificate must be signed by the assignee and accompanied by the required fee and by an order for title report for Office use (or abstract of title). The original certificate of registration, if available, must also be submitted.

(Sec. 7, 60 Stat. 430; 15 U. S. C. 1057)

**§ 2.172 Surrender for cancellation, disclaimer in whole.** Upon application by the registrant, the Commissioner may permit any registration to be surrendered for cancellation or any registered mark to be disclaimed in whole. Application for such action must be signed by the registrant and must be accompanied by the required fee, and by an order for a title report for Office use (or an abstract of title) and, if not lost or destroyed, by the original certificate of registration.

(Sec. 7, 60 Stat. 430; 15 U. S. C. 1057)

**§ 2.173 Amendment and disclaimer in part.** (a) Upon application by the registrant, the Commissioner may permit any registration to be amended or any registered mark to be disclaimed in part. Application for such action must specify the amendment or disclaimer and be signed by the registrant, and must be accompanied by the required fee and by an order for a title report for Office use (or an abstract of title). If the amendment involves a change in the mark, new specimens showing the mark as used in connection with the goods or services, and a new drawing of the amended mark must be submitted. The certificate of registration or, if said certificate is lost or destroyed, a certified copy thereof, must also be submitted in order that the Commissioner may make appropriate entry thereon and in the records of the Office. The registration when so amended must still contain registrable matter and the mark as amended must be registrable as a whole, and such amendment or disclaimer must not involve such changes in the registration as to alter materially the character of the mark.

(b) Changes in the specification of goods other than in the nature of deletions will not be permitted except under the provisions of § 2.175. No amendment seeking the elimination of a disclaimer will be permitted.

(c) A printed copy of the amendment or disclaimer shall be attached to each printed copy of the registration.

(Sec. 7, 60 Stat. 430; 15 U. S. C. 1057)

**§ 2.174 Correction of Office mistake.** Whenever a material mistake in a registration, incurred through the fault of the Patent Office, is clearly disclosed by the records of the Office, a certificate stating the fact and nature of such mistake, signed by the Commissioner and sealed with the seal of the Patent Office, shall be issued without charge and recorded, and a printed copy thereof shall be attached to each printed copy of the registration certificate. Such corrected certificate shall thereafter have the same effect as if the same

had been originally issued in such corrected form, or in the discretion of the Commissioner a new certificate of registration may be issued without charge. The certificate of registration or, if said certificate is lost or destroyed, a certified copy thereof, must be submitted in order that the Commissioner may make appropriate entry thereon.

(Sec. 7, 60 Stat. 430, as amended; 15 U. S. C. 1057)

**§ 2.175 Correction of mistake by registrant.** (a) Whenever a mistake has been made in a registration and a showing has been made that such mistake occurred in good faith through the fault of the applicant, the Commissioner may issue a certificate of correction, or in his discretion, a new certificate upon the payment of the required fee, provided that the correction does not involve such changes in the registration as to require republication of the mark.

(b) Application for such action must specify the mistake for which correction is sought and the manner in which it arose, show that it occurred in good faith, be signed by the applicant, and be accompanied by the required fee and by an order for a title report for Office use (or an abstract of title). The certificate of registration or, if said certificate is lost or destroyed, a certified copy thereof, must also be submitted in order that the Commissioner may make appropriate entry thereon.

(c) A printed copy of the certificate of correction shall be attached to each printed copy of the registration.

(Sec. 7, 60 Stat. 430, as amended; 15 U. S. C. 1057)

**§ 2.176 Consideration of above matters.** The matters in §§ 2.171 to 2.175 will be considered in the first instance by the Examiner of Trademarks. If the action of the Examiner of Trademarks is adverse, petition may be taken to the Commissioner under § 2.146. If response to an adverse action of the Examiner is not made by the registrant within six months, the matter will be considered abandoned.

#### Term and Renewal

**AUTHORITY NOTE:** §§ 2.181 to 2.184 interpret or apply sec. 9, 60 Stat. 431; 15 U. S. C. 1059.

**§ 2.181 Term of original registrations and renewals.** (a) Registrations issued under the act of 1946, whether on the Principal Register or on the Supplemental Register, remain in force for twenty years, and may be renewed for periods of twenty years from the expiring period unless previously cancelled, disclaimed in whole, or surrendered.

(b) Registrations issued under the acts of 1905 and 1881 remain in force for their unexpired terms and may be renewed in the same manner as registrations under the act of 1946.

(c) Registrations issued under the act of 1920 cannot be renewed unless renewal is required to support foreign registrations and in such case may be renewed on the Supplemental Register in the same manner as registrations under the act of 1946.

**§ 2.182 Period within which application for renewal must be filed.** An application for renewal may be filed by the registrant at any time within six months before the expiration of the period for which the certificate of registration was issued or renewed, or it may be filed within three months after such expiration on payment of the additional fee required.

**§ 2.183 Requirements of application for renewal.** (a) The application for renewal must be accompanied by:

(1) An affidavit by the registrant stating that the mark is still in use in commerce, specifying the nature of such commerce. This affidavit must be executed not more than six months before the expiration of the registration.

(2) The required fee, including the additional fee required in the case of a delayed application for renewal.

(b) The affidavit and the fee must accompany the application for renewal and therefore must be filed within the period provided for applying for renewal. If defective or insufficient, they cannot be completed after the period for applying for renewal has passed; if completed after the initial six months period has expired but before the expiration of the three months delay period, the application can be considered only as a delayed application for renewal.

(c) The application for renewal must also include:

(1) An order for a title report for Office use (or an abstract of title).

(2) If the applicant is not domiciled in the United States, the designation of some person resident in the United States



on whom may be served notices or process in proceedings affecting the mark.

(3) If the mark is registered under the act of 1920, a verified showing that renewal is required to support foreign registrations.

**§ 2.184 Refusal of renewal.** (a) If the application for renewal is incomplete or defective, the renewal will be refused by the Examiner of Trademarks. The application may be completed or amended in response to a refusal, subject to the provisions of §§ 2.62 and 2.183.

(b) If the registrant is dissatisfied with the action of the Examiner considering the application for renewal incomplete or defective, he may petition to the Commissioner for review under § 2.146. If response to an adverse action of the Examiner is not made within six months, the application for renewal will be considered abandoned.

#### Assignment of Marks

**§ 2.185 Requirements for assignments.** (a) Assignments under section 10 of the act of registered marks, or marks for which an application for registration has been filed, will be recorded in the Patent Office. Other instruments which may relate to such marks may be recorded in the discretion of the Commissioner. No assignment will be recorded, except as may be ordered by the Commissioner, unless it has been executed and unless:

(1) The certificate of registration is identified in the assignment by the certificate number (the date of registration should also be given), or, the application for registration shall have been first filed in the Patent Office and the application is identified in the assignment by serial number (the date of filing should also be given);

(2) It is in the English language or, if not in the English language, accompanied by a sworn translation;

(3) The fee for recording is received; and

(4) An appointment of a resident agent is made in case the assignee is not domiciled in the United States. The appointment must be separate from the assignment and there must be a separate appointment for each registration or application assigned in one instrument.

(b) The address of the assignee should be recited in the assignment, otherwise it must be given in a separate paper.

(c) The date of record of the assignment is the date of the receipt of the assignment at the Patent Office in proper form and accompanied by the full fee for recording.

(Sec. 10, 60 Stat. 431; 15 U. S. C. 1060)

**§ 2.186 Action may be taken by assignee of record.** Any action which may or must be taken by a registrant or applicant may be taken by the assignee, provided the assignment has been recorded.

**§ 2.187 Certificate of registration may issue to assignee.** The certificate of registration may be issued to the assignee of the applicant if the assignment is recorded in the Patent Office at least ten days before the application is allowed, and the address of the assignee appears in the record. See § 2.82.

#### Amendment of Rules

**§ 2.189 Amendments to rules.** (a) All amendments to this part will be published in the OFFICIAL GAZETTE and in the Federal Register.

(b) Whenever required by law, and in other cases whenever practicable, notice of proposed amendments to these rules will be published in the Federal Register and in the OFFICIAL GAZETTE. If not published with the notice, copies of the text will be furnished to any person requesting the same. All comments, suggestions, and briefs received within a time specified in the notice will be considered before adoption of the proposed amendments which may be modified in the light thereof. Oral hearings may be held at the discretion of the Commissioner.

#### PART 4—FORMS FOR TRADEMARK CASES

- Sec.  
4.1 Trademark application by an individual; Principal Register.  
4.2 Power of attorney accompanying application.  
4.3 Authorization of agent accompanying application.  
4.4 Appointment of domestic representative accompanying application.  
4.5 Trademark application by a firm; Principal Register.  
4.6 Trademark application by a corporation; Principal Register.  
4.7 Service mark application; Principal Register.

- Sec.  
4.8 Collective mark application; Principal Register.  
4.9 Certification mark application; Principal Register.  
4.10 Application based on concurrent use; Principal Register.  
4.11 Application to register on Supplemental Register.  
4.12 Application based on foreign application or registration.  
4.13 Application for renewal.  
4.14 Affidavit for publication under section 12 (c).  
4.15 Affidavit required by section 8.  
4.16 Affidavit under section 15 (a).  
4.17 Notice of opposition.  
4.18 Petition to cancel a registration.  
4.19 Ex parte appeal from Examiner of Trademarks.  
4.20 Inter partes appeal to the Commissioner.  
4.21 Assignment of application.  
4.22 Assignment of registration.

**AUTHORITY:** §§ 4.1 to 4.22 issued under sec. 41, 60 Stat. 440; 15 U. S. C. 1123. Interpret or apply sec. 1, 60 Stat. 427; 15 U. S. C. 1051.

**NOTE:** The following forms illustrate the manner of preparing applications for registration of marks and various papers in trademark cases, to be filed in the Patent Office. Applicants and other parties will find their business facilitated by following them. These forms should be used in cases to which they are applicable. A sufficient number of representative forms are given which, with the variations indicated by the notes, should take care of all the usual situations. In special situations such alterations as the circumstances may render necessary may be made provided they do not depart from the requirements of Part 100 of this chapter or the statute. Before using any forms the pertinent rules and sections of the statute should be studied carefully.

#### § 4.1 Trademark application by an individual; Principal Register.

Mark \_\_\_\_\_  
(Identify the mark)  
Class No. \_\_\_\_\_  
(If known)

To the COMMISSIONER OF PATENTS:

(Name of applicant and trade style, if any)  
(Business address, including street, city and State)  
(Residence address, including street, city and State)  
(Citizenship of applicant)

The above identified applicant has adopted and is using the trademark shown in the accompanying drawing (1) for

(Common, usual or ordinary name of goods) and requests that said mark be registered in the United States Patent Office on the Principal Register established by the act of July 5, 1946.

The trademark was first used on the goods (2) on \_\_\_\_\_; was first used in \_\_\_\_\_ (Type of commerce) commerce (3) on \_\_\_\_\_ (Date); and is now in use in such commerce (4).

The mark is used by applying it to \_\_\_\_\_ (5) and five specimens showing the mark as actually used are presented herewith.

State of \_\_\_\_\_ ss.  
County of \_\_\_\_\_

\_\_\_\_\_, being sworn, states that: he believes himself to be the owner of the trademark sought to be registered; to the best of his knowledge and belief no other person, firm, corporation or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as might be calculated to deceive; and the facts set forth in this application are true.

(Signature of applicant)  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.  
(Notary Public) (6)

#### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3) (7)

**NOTES:** (1) If registration is sought for a word or numeral mark not depicted in any special form, the drawing may be the mark typed in capital letters on letter-size bond paper; otherwise, the drawing shall comply with § 2.52.

(2) If more than one item of goods is set forth and the dates given apply to only one of the items listed, insert the name of the item to which the dates apply.

(3) Type of commerce should be specified as "interstate," "territorial," "foreign," or such other specified type of commerce as may be lawfully regulated by Congress. Foreign applicants relying upon use must specify "commerce with the United States."

(4) If the mark is other than a coined, arbitrary or fanciful mark which is claimed to have acquired a secondary meaning, insert whichever of the following paragraphs is applicable:

(a) The mark has become distinctive of applicant's goods as a result of substantially exclusive and continuous use in \_\_\_\_\_ commerce for the five years

(Type of commerce) next preceding the date of filing of this application.

(b) The mark has become distinctive of applicant's goods as evidenced by the showing submitted separately.

(5) Insert the manner or method of using the mark with the goods, i. e., "the goods," "the containers for the goods," "displays associated with the goods," "tags or labels affixed to the goods," or such other appropriate method as may be used.

(6) The notary's seal or stamp or other evidence of authority in the jurisdiction of execution must be affixed.

(7) If the applicant is not domiciled in the United States, a domestic representative must be appointed. See § 4.4.

#### § 4.2 Power of attorney accompanying application.

(Applicant hereby appoints \_\_\_\_\_ (8) member of the bar of the \_\_\_\_\_ (Address) \_\_\_\_\_

State of \_\_\_\_\_ to prosecute this application to register, to transact all business in the Patent Office in connection therewith, and to receive the certificate of registration.

**NOTE:** (8) If the name of the law firm is used, the names of the members of the firm and their States of admission to the bar shall be set forth.

#### § 4.3 Authorization of agent accompanying application.

(Applicant hereby appoints \_\_\_\_\_ (9) with offices at \_\_\_\_\_ (Street, city and State) \_\_\_\_\_

Patent Office Registration No. \_\_\_\_\_ to prosecute this application to register, to transact all business in connection therewith, and to receive the certificate of registration.

**NOTE:** (9) Authorization of an agent must be an individual authorization, and names of firms of agents will not be recognized.

#### § 4.4 Appointment of domestic representative (10) accompanying application.

(Name of representative) \_\_\_\_\_, whose postal address is \_\_\_\_\_ (Street, city and State) \_\_\_\_\_

is hereby designated applicant's representative upon whom notices or process in proceedings affecting the mark may be served.

**NOTE:** (10) The appointment of a domestic representative must be separate from a Power of Attorney or Authorization of Agent.

#### § 4.5 Trademark application by a firm; Principal Register.

Mark \_\_\_\_\_  
(Identify the mark)  
Class No. \_\_\_\_\_  
(If known)

To the COMMISSIONER OF PATENTS:

(Firm name and names of members comprising firm)  
(Business address, including street, city and State)  
(Domicile of firm)  
(Citizenship of members of firm)  
(Body of application form is same as Form 1)

State of \_\_\_\_\_ ss.  
County of \_\_\_\_\_

\_\_\_\_\_, being sworn, states that he is a member of the applicant firm; he believes said firm to be the owner of the mark sought to be registered; to the best of his knowledge and belief no other person, firm, corporation or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as might be calculated to deceive; and the facts set forth in this application are true.

(Signature of member of firm)  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.  
(Notary Public) (6)

#### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

#### § 4.6 Trademark application by a corporation; Principal Register.

Mark \_\_\_\_\_  
(Identify the mark)  
Class No. \_\_\_\_\_  
(If known)

To the COMMISSIONER OF PATENTS:

(Corporate name and State or country of incorporation) (11)  
(Business address, including street, city and State)  
(Situation of corporation, including street, city and State)  
(Body of application form is same as Form 1)

State of \_\_\_\_\_ ss.  
County of \_\_\_\_\_

\_\_\_\_\_, being sworn, states that: he is \_\_\_\_\_ (Official title) \_\_\_\_\_

of applicant corporation and is authorized to execute this affidavit on behalf of said corporation; he believes said corporation to be the owner of the mark sought to be registered;

to the best of his knowledge and belief no other person, firm, corporation or association has the right to use said mark in commerce, either in the identical form or in such near resemblance thereto as might be calculated to deceive; and the facts set forth in this application are true.

(Corporate name)  
By \_\_\_\_\_  
(Signature and official title)  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

(Notary Public) (6)

#### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

**NOTE:** (11) If applicant is an association or other collective group, the word "association" or other appropriate designation should be substituted for "corporation."

#### § 4.7 Service mark application; Principal Register.

Mark \_\_\_\_\_  
(Identify the mark)  
Class No. \_\_\_\_\_  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of applicant in accordance with § 4.1, 4.5 or 4.6.)

The above identified applicant has adopted and is using the service mark shown in the accompanying drawing (12) for

(Common, usual or ordinary name of service) and requests that said mark be registered in the United States Patent Office on the Principal Register established by the act of July 5, 1946.

The service mark was first used in connection with the services on \_\_\_\_\_; was first used in the sale

or advertising of (3) services rendered in \_\_\_\_\_ (Type of commerce) commerce on \_\_\_\_\_ (Date); and is now in use

in such commerce. The mark is used by \_\_\_\_\_

(State method of using the mark in connection with the services)

and five \_\_\_\_\_ (13) showing the mark as actually used are presented herewith.

State of \_\_\_\_\_ ss.

County of \_\_\_\_\_

(Insert appropriate verification from § 4.1, 4.5 or 4.6, changing the word "goods" to "services.")

#### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

**NOTES:** (12) See Note (1), and if drawing is not practicable, insert description of the mark instead of reference to the drawing.

(13) Insert "specimens" or "facsimiles", or state the nature of the representation of the mark which is furnished.

#### § 4.8 Collective mark application; Principal Register.

Mark \_\_\_\_\_  
(Identify the mark)  
Class No. \_\_\_\_\_  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert identification of applicant in accordance with § 4.6, changing "corporation" to "association," "cooperative," or other appropriate designation of the collective group or organization.)

The above identified applicant has adopted and is exercising legitimate control over the use of the collective mark shown in the accompanying drawing (1) for \_\_\_\_\_

(Common, usual or ordinary name of goods or services) to indicate

(14) and requests that said mark be registered in the United States Patent Office on the Principal Register established by the act of July 5, 1946.

The collective mark was first used on the \_\_\_\_\_

(Insert "goods" or "services") \_\_\_\_\_; was first

used by said members in \_\_\_\_\_ (Type of commerce) commerce on \_\_\_\_\_ (Date); and is now in use in such

commerce. The mark is used by applying it to \_\_\_\_\_ (5)

and five specimens (13) of the mark as actually used are presented herewith.

State of \_\_\_\_\_ ss.

County of \_\_\_\_\_

(Insert verification of § 4.6, changing "corporation" to "association," "cooperative," or other appropriate identification of the collective group or organization.)

#### POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

**NOTE:** (14) Insert "the goods of the members of applicant," "the services rendered by the members of applicant," "membership in applicant," or other appropriate statement.



**§ 4.9 Certification mark application; Principal Register.**

Mark -----  
(Identify the mark)  
Class No. -----  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of applicant in accordance with § 4.1, 4.5 or 4.6.)

The above identified applicant has adopted and is exercising legitimate control over the use of the certification mark shown in the accompanying drawing (12) for ----- and requests that said

(Insert "goods" or "services")  
mark be registered in the United States Patent Office on the Principal Register established by the act of July 5, 1946.

The certification mark is used by persons authorized by applicant to certify -----; (15) said mark was first used under the authority of applicant on -----; was first used in ----- (Type of commerce) commerce on -----; and is now in use in ----- (Date)

such commerce.  
The mark is used by applying it to ----- (5) and five specimens showing the mark as actually used are presented herewith.

Applicant is not engaged in the production or marketing of any goods or services to which the mark is applied.

State of ----- } ss.  
County of ----- }  
(Common, usual, or ordinary name of goods or services)

(Insert appropriate verification from § 4.1, 4.5 or 4.6, and add after the word "association" the words "other than those authorized by applicant.")

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

NOTE: (15) Insert the appropriate statement that the mark certifies regional or other origin; material; mode of manufacture; quality; accuracy or other characteristic of the goods; or that the work or labor on the goods or in the performance of the services was performed by members of applicant.

**§ 4.10 Application based on concurrent use; Principal Register.**

Mark -----  
(Identify the mark)  
Class No. -----  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of applicant in accordance with § 4.1, 4.5 or 4.6.)

Use § 4.1, and add at the end of the first paragraph: "for the area comprising ----- (List States for which registration is sought); and add as final paragraph of application

"The following exception(s) to applicant's right to exclusive use are:

By -----, doing business at -----, who is using the mark

(Identify mark and Reg. No. or Ser. No., if any)

for ----- (Common, usual, or ordinary name of goods or services)

in the States of ----- (5)

by applying the mark to ----- (5)

from ----- (Earliest date of such use)

to the present."

(Insert appropriate verification in § 4.1, 4.5 or 4.6 and add after the word "association" the words "other than (are) (16) specified in the application.")

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

**§ 4.11 Application to register on Supplemental Register.**

Mark -----  
(Identify the mark)  
Class No. -----  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of applicant in accordance with § 4.1, 4.5 or 4.6.)

For application for trademark registration (16), use § 4.1, 4.5 or 4.6, whichever is appropriate, changing the word "Principal" to "Supplemental", and adding a final paragraph in the application as follows:

"The mark sought to be registered has been in lawful use in ----- commerce in con-

nection with the goods for the year preceding the date of filing of this application." (17)

State of ----- } ss.  
County of ----- }

(Insert appropriate verification from § 4.1, 4.5 or 4.6.)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

NOTES: (16) Service mark, collective mark and certification mark applications on the Supplemental Register should conform to § 4.7, 4.8 or 4.9, whichever is applicable, with the change and addition indicated herein.

(17) If the mark has not been in use for the year next preceding the filing date, but use in foreign commerce has been commenced and registration in the United States is required as a basis for obtaining foreign protection of the mark, the following statement should be substituted for the last phrase:

"and applicant has begun the use of such mark in commerce between the United States and ----- (Name of foreign country)"

In this instance, applicant may be required to make a showing that U. S. registration is required as a basis of foreign protection of the mark.

**§ 4.12 Application based on foreign application or registration.**

Mark -----  
(Identify the mark)  
Class No. -----  
(If known)

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of applicant in accordance with § 4.1, 4.5 or 4.6.)

The above identified applicant has registered (1) the trademark shown in the accompanying drawing (2) in ----- for ----- (Name of country of origin)

(Common, usual, or ordinary name of goods)

(3) and requests that said mark be registered in the United States Patent Office on the ----- ("Principal" or "Supplemental")

Register established by the act of July 5, 1946.

The trademark was registered in ----- (Country of origin)

Registration No. ----- on the ----- day of -----, 19-----, and said registration is now in full force and effect.

Certificate of such registration is presented herewith. (4) (5)

DESIGNATION OF DOMESTIC REPRESENTATIVE

(§ 4.4)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(§ 4.2 and 4.3)

CONSULAR CERTIFICATE

NOTES: (1) If the right of priority is claimed, in accordance with the International Convention and section 44 (d) of the act, the first sentence of the application should, in

stead of referring to the mark having been registered in the country of origin, state: "filed application for registration of the trademark shown in the accompanying drawing"; and the first sentence of the final paragraph should be changed to state: "The application to register in ----- (Country of origin)

was filed on the ----- day of -----, 19-----.

(2) See Note 1, § 4.1.

(3) The identification of goods may not be broader than that listed in the foreign registration.

(4) If the registration in the country of origin has not issued at the time the United States application is filed, this sentence should read: "Certificate of such registration will be presented upon issue." (Registration in the United States will not issue until such certificate is presented.)

(5) No verification of the application is required when the certificate of registration accompanies the application. If certificate is not attached use § 4.2 or § 4.3.

**§ 4.13 Application for renewal.**

Mark -----  
(Identify the mark)  
Reg. No. -----  
Class No. -----

To the COMMISSIONER OF PATENTS:

(Insert appropriate identification of registrant in accordance with § 4.1, 4.5 or 4.6.)

The above identified registrant requests that Registration No. ----- granted to ----- (Name of original Registrant)

on ----- (Date of issuance) which he now owns

as evidenced by the accompanying title report (1) be renewed in accordance with the provisions of Section 9 of the act of July 5, 1946.

The renewal fee is presented herewith. (2)

State of ----- } ss.  
County of ----- }

(Name of registrant or person authorized to sign for it)

being sworn, states that ----- (Insert "he" or name of registrant)

owns Registration No. -----; that the mark shown therein is in use (2) in ----- (Type of commerce)

(Signature, and if a corporation or other organization, the official title)

Subscribed and sworn to before me this ----- day of -----, 19-----

(Notary Public) (6)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3) (4)

NOTES: (1) An order for title report, and the fee of \$1.00 therefor must accompany the application for renewal, and

If record title is not in the applicant for renewal, satisfactory showing of ownership must accompany the application.

(2) The fee for renewal sought prior to expiration is \$25.00; and for delayed renewal filed within three months after expiration, an additional \$5.00.

(3) Type of commerce should be specified as "interstate," "foreign," "territorial," or such other specified type of commerce as may be regulated by Congress. Foreign registrants must specify: "commerce with the United States."

(4) If applicant for renewal is not domiciled in the United States, a domestic representative must be designated. See § 4.4.

**§ 4.14 Affidavit for publication under section 12 (c).**

Mark -----  
(Identify the mark)  
Reg. No. -----  
Date of issue -----  
To: ----- (Name of original registrant)

State of ----- } ss.  
County of ----- }

(Name of registrant or person authorized to sign for it)

being sworn, states that ----- (Insert "he" or name of registrant)

owns Registration No. -----, as evidenced by the accompanying title report; (1) that said registration is now in force; that the mark shown therein is in use in ----- (Type of commerce)

(2) commerce on each of the following goods recited in the registration -----; and that the benefits of the act of July 5, 1946 are hereby claimed for said registration.

(Signature, and if a corporation or other organization, the official title)

(JURAT) (3)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

NOTES: (1) An order for title report and the fee of \$1.00 therefor must accompany the affidavit, and if record title is not in the person filing the affidavit, satisfactory showing of ownership must be made.

(2) Type of commerce should be specified as "interstate," "territorial," "foreign," or such other specified type of commerce as may be lawfully regulated by Congress. Foreign registrants must specify "commerce with the United States."

(3) Use jurat from § 4.1.

**§ 4.15 Affidavit required by section 8.**

Mark -----  
(Identify the mark)  
Reg. No. -----  
Class No. -----

State of ----- } ss.  
County of ----- }

(Name of registrant or person authorized to sign for it)

being sworn, states that ----- (Insert "he" or name of registrant)

owns Registration No. ----- issued ----- (Date)

(1) as evidenced by the accompanying title report; (2) and that the mark shown therein is still in use (3) as evidenced by ----- (4)

(Signature, and if a corporation or other organization, the official title)

(JURAT) (5)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

NOTES: (1) If the registration issued under a prior act and has been published under section 12 (c), add: "and published under section 12 (c) on ----- (Date)"

(2) An order for title report and the fee of \$1.00 therefor must accompany the affidavit, and if record title is not in the person filing the affidavit, satisfactory showing of ownership must be made.

(3) If the mark is not in use at the time of filing the affidavit, but there is no intention to abandon the mark, sufficient facts must be recited to show that the nonuse is due to special circumstances which excuse the nonuse.

(4) Insert "the attached specimen showing the mark as currently used"; or recite sufficient facts as to sales or advertising, or both, as to show that the mark is in current use.

(5) Use jurat from § 4.1.

**§ 4.16 Affidavit under section 15. (a)**

Mark -----  
(Identify the mark)  
Reg. No. -----  
Class No. -----

State of ----- } ss.  
County of ----- }

(Name of registrant or person authorized to sign for it)

being sworn, states that ----- (Insert "he" or name of registrant)

owns Registration No. ----- issued ----- (Date)

(Signature, and if a corporation or other organization, the official title)

(JURAT) (5)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3) (4)

NOTES: (1) An order for title report, and the fee of \$1.00 therefor must accompany the application for renewal, and

(1) as evidenced by the accompanying title report (2); that the mark shown therein has been in continuous use in ----- (3) commerce for five consecutive years from ----- (Date)

(Type of commerce)

(4) to the present on each of the following goods recited in the registration: ----- (List the goods)

that said mark is still in use in ----- (Type of commerce)

commerce; that there has been no final decision adverse to registrant's claim of ownership of said mark to (his) (its) right to register the same or maintain it on the register, and that there is no proceeding involving any of said rights pending and not disposed of either in the Patent Office or in the courts.

(Signature, and if a corporation or other organization, the official title)

(JURAT) (5)

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

(See §§ 4.2 and 4.3)

NOTES: (a) This form may be used as a combined affidavit under Sections 8 and 15, provided it contains sufficient facts as to sales or advertising, or both, as to show that the mark is in current use or is accompanied by a verified specimen showing current use of the mark.

(1) If the registration issued under a prior act and has been published under Section 12 (c), add: "and published under Section 12 (c) on ----- (Date)"

(2) An order for title report and the fee of \$1.00 therefor must accompany the affidavit, and if record title is not in the person filing the affidavit, satisfactory showing of ownership must be made.

(3) Type of commerce must be specified as "interstate," "territorial," "foreign," or such other commerce as may be regulated by Congress. Foreign registrants must specify "commerce with the United States."

(4) The beginning of the five year period immediately preceding the filing of the affidavit, provided such date is subsequent to the registration under the act of 1946 or publication under Section 12 (c), as the case may be.

(5) Use jurat from § 4.1.

§ 4.17 Notice of opposition in the United States Patent Office.

In the matter of application Serial No. -----

Published in the OFFICIAL GAZETTE on ----- (Date)

(Name of opposer)

v. ----- (Name of applicant)

Opposition No. ----- (To be inserted by Patent Office)

-----, a(n) ----- (Identity of opposer)

(1) located and doing business at ----- (Street, city, and State)

believes that it will be damaged by registration of the mark shown in Serial No. -----, and hereby opposes the same.

As grounds of opposition, it is alleged that:

(Numbered paragraphs should state the grounds and recite facts tending to show why opposer believes it will be damaged.)

(Name of corporation or other organization, if any)

By ----- (Signature, and official title, if any)

State of ----- } ss.  
County of ----- }

(Name of opposer or person authorized to sign for it)

being sworn, states that he is the (person named in the foregoing notice of opposition) ----- (Official title)

of ----- (Name of firm, corporation or other organization)

has read and signed the notice and knows the contents thereof; and that the allegations are true, except as to the matters stated therein to be upon information and belief, and as to those matters he believes them to be true.

(Signature)

Subscribed and sworn to before me this ----- day of -----, 19-----

(Notary Public) (6)

POWER OF ATTORNEY

NOTE: (1) If an individual, state: "an individual trading as -----" If a firm, state: "a firm composed of -----" If a corporation, association or other organization, state "a corporation (or other organization) organized and existing under the laws of -----"

§ 4.18 Petition to cancel a registration in the United States Patent Office.

In the matter of Registration No. -----

Date of issue -----

(Name of petitioner)

v. ----- (Name of registrant)



Cancellation No. \_\_\_\_\_  
(To be inserted by Patent Office)  
\_\_\_\_\_  
(Name of petitioner)  
a(n) \_\_\_\_\_  
(Identity of petitioner)  
(1) located and doing business at \_\_\_\_\_  
(Street, city, and State)  
believes that it is or will be damaged by Registration No. \_\_\_\_\_  
and hereby petitions to cancel the same.  
As grounds therefor, it is alleged that:  
(Numbered paragraphs should state the grounds and recite facts tending to show why petitioner believes that it is or will be damaged.)

\_\_\_\_\_  
(Name of corporation or other organization, if any)  
By \_\_\_\_\_  
(Signature and official title, if any)

(Insert affidavit in accordance with § 4.17)

## POWER OF ATTORNEY

NOTE: (1) See note (1) in § 4.17.

## § 4.19 Ex parte appeal from Examiner of Trademarks in the United States Patent Office.

\_\_\_\_\_  
(Name of applicant)  
\_\_\_\_\_  
(Serial number of application)  
To the COMMISSIONER OF PATENTS:  
Applicant hereby appeals to the Commissioner from the decision of the Examiner of Trademarks refusing registration.  
\_\_\_\_\_  
(Signature)

## § 4.20 Inter partes appeal to the Commissioner.

\_\_\_\_\_  
(Party in position of plaintiff)  
v.  
\_\_\_\_\_  
(Party in position of defendant)  
No. \_\_\_\_\_  
(Type of proceeding)  
\_\_\_\_\_ hereby appeals to the Commissioner from the decision of the Examiner of Interferences.  
\_\_\_\_\_  
(Signature)

## § 4.21 Assignment of application.

State of \_\_\_\_\_ ss.  
County of \_\_\_\_\_  
Whereas \_\_\_\_\_, of \_\_\_\_\_  
(Name of assignor)  
\_\_\_\_\_  
(Street, city, and State)  
has adopted and is using a mark for which he has filed application in the United States Patent Office for registration, Serial No. \_\_\_\_\_; and  
Whereas \_\_\_\_\_, of \_\_\_\_\_  
(Name of assignee)  
\_\_\_\_\_  
(Street, city, and State)  
is desirous of acquiring said mark:  
Now, therefore, for good and valuable consideration, receipt of which is hereby acknowledged, said \_\_\_\_\_  
(Name of assignor)  
does hereby assign unto the said \_\_\_\_\_  
(Name of assignee)  
all rights, title and interest in and to the said mark, together with the good will of the business symbolized by the mark, and the application for registration thereof.  
The Commissioner of Patents is requested to issue the certificate of registration to said assignee. (1)

\_\_\_\_\_  
(Name of assignor)  
By \_\_\_\_\_  
(Official title)

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
(Notary Public) (6)

NOTE: (1) If the postal address of the assignee is not given either in the instrument or in the accompanying paper, the registration will not issue to the assignee.

## § 4.22 Assignment of registration.

State of \_\_\_\_\_ ss.  
County of \_\_\_\_\_  
Whereas \_\_\_\_\_, of \_\_\_\_\_  
(Name of assignor)  
\_\_\_\_\_  
(Street, city, and State)  
has adopted, used and is using a mark which is registered in the United States Patent Office, Registration No. \_\_\_\_\_, dated \_\_\_\_\_; and  
Whereas \_\_\_\_\_, of \_\_\_\_\_  
(Name of assignee)  
\_\_\_\_\_  
(Street, city, and State)  
is desirous of acquiring said mark and the registration thereof;

Now therefore, for good and valuable consideration, receipt of which is hereby acknowledged, said \_\_\_\_\_  
(Name of assignor)  
does hereby assign unto the said \_\_\_\_\_  
(Name of assignee)  
all rights, title and interest in and to the said mark, together with the good will of the business symbolized by the mark, and the registration thereof, No. \_\_\_\_\_  
By \_\_\_\_\_  
(Official title)

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
(Notary Public) (6)

NOTE: If the postal address of the assignee is not given either in the instrument or in an accompanying paper, recording may be delayed by the Patent Office pending receipt of such address.

## PART C—CLASSIFICATION OF GOODS AND SERVICES UNDER THE TRADEMARK ACT

- Sec.  
6.1 Schedule of classes of goods and services.  
6.2 Schedule for certification marks.

AUTHORITY: §§ 6.1 and 6.2 issued under sec. 41, 60 Stat. 440; 15 U. S. C. 1123. Interpret or apply sec. 30, 60 Stat. 436; 15 U. S. C. 1112.

## § 6.1 Schedule of classes of goods and services.

Class	Title
1	Raw or partly prepared materials.
2	Receptacles.
3	Baggage, animal equipments, portfolios, and pocketbooks.
4	Abrasives and polishing materials.
5	Adhesives.
6	Chemicals and chemical compositions.
7	Cordage.
8	Smokers' articles, not including tobacco products.
9	Explosives, firearms, equipments, and projectiles.
10	Fertilizers.
11	Inks and inking materials.
12	Construction materials.
13	Hardware and plumbing and steam-fitting supplies.
14	Metals and metal castings and forgings.
15	Oils and greases.
16	Protective and decorative coatings.
17	Tobacco products.
18	Medicines and pharmaceutical preparations.
19	Vehicles.
20	Linoleum and oiled cloth.
21	Electrical apparatus, machines, and supplies.
22	Games, toys, and sporting goods.
23	Cutlery, machinery, and tools, and parts thereof.
24	Laundry appliances and machines.
25	Locks and safes.
26	Measuring and scientific appliances.
27	Horological instruments.
28	Jewelry and precious-metal ware.
29	Brooms, brushes, and dusters.
30	Crockery, earthenware, and porcelain.
31	Filters and refrigerators.
32	Furniture and upholstery.
33	Glassware.
34	Heating, lighting, and ventilating apparatus.
35	Belting, hose, machinery packing, and nonmetallic tires.
36	Musical instruments and supplies.
37	Paper and stationery.
38	Prints and publications.
39	Clothing.
40	Fancy goods, furnishings, and notions.
41	Canes, parasols, and umbrellas.
42	Knitted, netted, and textile fabrics, and substitutes therefor.
43	Thread and yarn.
44	Dental, medical, and surgical appliances.
45	Soft drinks and carbonated waters.
46	Foods and ingredients of foods.
47	Wines.
48	Malt beverages and liquors.
49	Distilled alcoholic liquors.
50	Merchandise not otherwise classified.
51	Cosmetics and toilet preparations.
52	Detergents and soaps.

## SERVICES

Class	Title
100	Miscellaneous.
101	Advertising and business.
102	Insurance and financial.
103	Construction and repair.
104	Communication.
105	Transportation and storage.
106	Material treatment.
107	Education and entertainment.

§ 6.2 Schedule for certification marks. In the case of certification marks, all goods and services are classified in two classes as follows:

- A. Goods.  
B. Services.

## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.  
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

## CLASS 1

SN 650,470. Godfrey L. Cabot, Inc., Boston, Mass. Filed June 16, 1953. Sec. 2(f).



Applicant claims ownership of Reg. No. 518,879.  
For Pine Tar, Charcoal, Metallurgical Coke, Petroleum Coke, Electrode Coke, Gas Coke, Silica, Kaolin, Clay, Wollastonite, and Garnet.  
Use since June 29, 1946, on pine tar, charcoal, metallurgical coke, petroleum coke, and electrode coke.

SN 656,389. Dortmund-Hörder Hüttenunion Aktiengesellschaft, Dortmund, Germany. Filed Nov. 16, 1953.



Applicant claims ownership of German Reg. No. 227,209, dated Oct. 31, 1918.

For Coal, Coke, Briquettes; Pitch and Tar, Including Coal Tar, Used in the Manufacture and in the Arts; Slag, Slag Sand, Rubble, Stone Dust, Stone Chips, Unprepared Broken Stones, Mechanically-Crushed Stones, Unprepared Calcareous Stones, Shale Stones, Lime Stones, Slate Stones, Clay, Quartz, Sand, Cumarone Resin.

SN 658,320. Pua Leilani—The Ranch of Heavenly Flowers, Los Angeles, Calif. Filed Dec. 21, 1953.

## PUA LEILANI

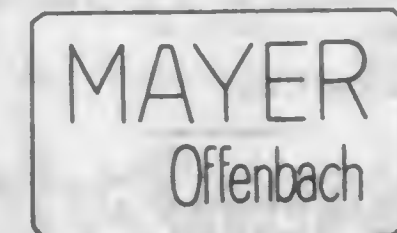
The words "Pua Leilani" are Hawaiian, and, translated, signify "The Ranch of Heavenly Flowers."  
For Tropical Plants and Hawaiian Fernwood Burl.  
Use since Sept. 10, 1951.

SN 662,347. Allgemeine Holzimprägnierung Dr. Wolman G. m. b. H., Sinzheim, near Baden-Baden, Germany. Filed Mar. 10, 1954.

"Thanalith"

Applicant claims ownership of German Reg. No. 214,188, dated Nov. 28, 1916.  
For Pitch and Tar.

SN 664,960. J. Mayer & Sohn Lederfabrik, A. G., Offenbach (Main), Germany. Filed Apr. 21, 1954. Sec. 2(f).



Applicant claims ownership of German Reg. No. 27,184, dated Oct. 19, 1897, and U. S. Reg. No. 225,537, expired.  
For Leather.  
Use since 1890.

SN 665,024. Coggins Granite & Marble Industries, Inc., Elberton, Ga. Filed Apr. 22, 1954.

## BERKELEY BLUE

Applicant claims ownership of Reg. No. 255,344 (expired).  
For Partially Prepared Granite Adapted To Be Used in the Construction of Monuments.  
Use since Sept. 6, 1928.

SN 667,103. Edgar Brothers Company, Metuchen, N. J., to Minerals & Chemicals Corporation of America, Metuchen, N. J. Filed May 26, 1954.

ASP

Applicant claims ownership of Reg. No. 558,942.  
For Clays.  
Use since in or about July 1942.

SN 667,658. Trans-Sphere Trading Corporation, Mobile, Ala. Filed June 3, 1954.



Applicant claims ownership of Reg. No. 104,321.  
For Peat Moss.  
Use since Mar. 16, 1950.

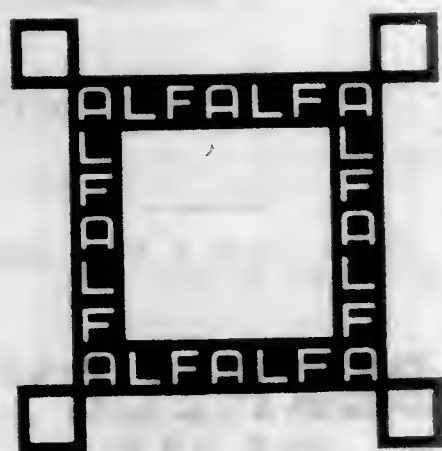


SN 670,538. Canadian National Silver Fox Breeders Association, Summerside, Prince Edward Island, Canada. Filed July 26, 1954.



Priority under Sec. 44(d). Canadian application, filed Feb. 24, 1954, Trademark No. N. S. 48,028, Reg. No. 189, dated Feb. 24, 1954.  
For Fox Fur Pelts.  
Claims use since Dec. 1, 1953.

SN 671,981. Calapproved Seed Growers Association, Berkeley, Calif. Filed Aug. 20, 1954.



Applicant disclaims the word "Alfalfa" apart from the mark as shown.  
For Alfalfa Seed.  
Use since on or about Nov. 16, 1953.

SN 671,982. Harry T. Campbell Sons' Corp., Towson, Md. Filed Aug. 20, 1954.



For Calcite as a Natural Raw Product for Use in the Industrial Arts.  
Use since June 1949.

SN 672,436. Pfister & Vogel Tanning Co., Milwaukee, Wis. Filed Aug. 30, 1954.

**P & V - MOCCO**

Applicant claims ownership of Reg. Nos. 61,974, 69,577, and 523,071.  
For Leather.  
Use since Mar. 29, 1951.

**STYCO**

For Synthetic Resins and Plastic Sheets Molded From Synthetic Resins.  
Use since Sept. 14, 1954.

SN 675,348. American Potash & Chemical Corporation, Los Angeles, Calif. Filed Oct. 25, 1954.

**BIKITA**

For Lithium Ores.  
Use since Apr. 20, 1954.

SN 675,686. Bonded Fibers, Incorporated, Buena Vista, Va. Filed Oct. 29, 1954.



For Impregnated Wood Pulp Sold in Sheets and Rolls.  
Use since Sept. 7, 1954.

SN 676,101. Columbus Coated Fabrics Corporation, Columbus, Ohio. Filed Nov. 5, 1954.

**COLO-HYDE**

PLASTIC  
SHEETING

No claim is made to the words "Plastic Sheeting" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 282,480 and 415,854.

For Supported and Unsupported Synthetic Resinous Sheet-  
ing Sold in Bolt, Roll, and Piece Form.  
Use since Sept. 2, 1954.

SN 677,681. Southwark Hide & Leather Co. Ltd., London, England. Filed Dec. 2, 1954.



For Leather and Hides.  
Use since Nov. 8, 1952.

SN 678,200. Coker's Pedigreed Seed Company, Hartsville, S. C. Filed Dec. 13, 1954. Sec. 2(f) as to "Coker."

**COKER 139**

Applicant claims ownership of Reg. Nos. 323,561 and 167,694.  
For Tobacco Seeds.  
Use since Nov. 17, 1954; and since Aug. 1, 1914, as to "Coker."

SN 678,201. Coker's Pedigreed Seed Company, Hartsville, S. C. Filed Dec. 13, 1954. Sec. 2(f) as to "Coker."

**COKER 140**

Applicant claims ownership of Reg. Nos. 323,561 and 167,694.  
For Tobacco Seeds.  
Use since Nov. 17, 1954; and since Aug. 1, 1914, as to "Coker."

SN 678,215. Great Lakes Carbon Corporation, New York, N. Y. Filed Dec. 13, 1954.

**DENSITE**

For Foundry Coke.  
Use since Apr. 10, 1954.

SN 678,309. Paul F. Corcoran, d. b. a. Tindermatch Co., Escanaba, Mich. Filed Dec. 14, 1954.

**TINDERMATCH**

For Solid Combustible Material Made Usually From Nitrates or Cellulose Nitrate.  
Use since July 16, 1954.

#### CLASS 2

SN 685,960. Columbian Enameling & Stamping Co., Inc., Terre Haute, Ind. Filed Nov. 6, 1953.

**kannie**

For Insulated Picnic Jugs, and Insulated Picnic Chests.  
Use since Sept. 3, 1953.

SN 686,885. Tupper Corporation, Farnumville, Mass. Filed May 21, 1954.

**HANDOLIER**

For Plastic Bowls, Canisters, and Tumblers.  
Use since May 1, 1954.

SN 689,025. Philadelphia Container Company, Philadelphia, Pa. Filed June 28, 1954.

**DURO-TUBE**

For Paper Tubes.  
Use since June 16, 1954.

**EX ROOT**

For Plant Trays.  
Use since Aug. 27, 1953.

SN 675,681. Adorn Company, Chicago, Ill. Filed Oct. 29, 1954.

**Poly-Squeeze**

For Dispensing Bottles Adapted to Contain an Assortment of Fluid Foods.  
Use since July 12, 1954.

SN 681,556. Van Brode Milling Co., Inc., Clinton, Mass. Filed Feb. 11, 1955.

**GIVE-AWAY....TAKE-AWAY**

For Plastic Dishes.  
Use since Jan. 15, 1955.

SN 681,951. Sutherland Paper Company, Kalamazoo, Mich. Filed Feb. 18, 1955.

**SERV-US**

For Butter Chips Formed of Paper or Cardboard.  
Use since Jan. 14, 1955.

SN 684,626. George E. Beiderwell, d. b. a. Ideal Reel Company, Paducah, Ky. Filed Mar. 31, 1955.

**IDEAL**

For Dispensing Reels for Tie Wires.  
Use since July 1, 1952.

SN 684,653. The Gardner Board & Carton Company, Middletown, Ohio. Filed Mar. 31, 1955.

**Customer-Pak**

For Paperboard Cartons.  
Use since Feb. 16, 1955.

SN 684,869. Owens-Illinois Glass Company, Toledo, Ohio. Filed Apr. 4, 1955.

**NESTEN-KRAFT**

For Paperboard Liners or Partition Fillers for Use With Paperboard Shipping Cartons.  
Use since on or about Mar. 18, 1955.



SN 685,359. Del Conte Packages, Inc., Brooklyn, N. Y. Filed Apr. 12, 1955.

# DELPAC

For Holders for Displaying Olives in Glass Containers.  
Use since approx. Apr. 1, 1950.

SN 685,820. Dixie Cup Company, Easton, Pa. Filed Apr. 19, 1955.

# Dixielite

Applicant claims ownership of Reg. Nos. 120,264, 590,464, and others.

For Cups, Cartons, and Similar Packaging Containers, Lids, and Covers Sold for Use With Said Receptacles, Dishes, and Plates, Made of Paper, Treated Paper, Cardboard, Cardboard-Like Material, Fiber, Metal Foil, Metal and Paper Laminate, Plastics, Plastic Coated Paper, Glassine, Combinations Thereof, for Use With Water, Beverages, Foods, Dairy Products, Confections, and Other Merchandise.  
Use since Aug. 10, 1954.

SN 686,125. Samuel Yuter, d. b. a. Jayson Silk Mills, Philadelphia, Pa. Filed Apr. 22, 1955.

# Jaysonet

For Laundry Nets.  
Use since on or about Sept. 30, 1954.

SN 686,208. National Can Corporation, Chicago, Ill. Filed Apr. 25, 1955.

# TRIPDECK

For Cabinets for Dispensing Paper Sheets and Aluminum Foil From Rolls.  
Use since Mar. 10, 1955.

## CLASS 3

SN 665,391. Aristocrat Leather Products, Inc., New York, N. Y. Filed Apr. 29, 1954.

# CAR CREST

For Key Cases.  
Use since January 1954.

SN 671,485. Abraham Boretz, New York, N. Y. Filed Aug. 11, 1954.

# Beau Ritz

For Luggage for Men.  
Use since Jan. 2, 1954.

## CLASS 5

SN 679,428. Uhu Products Corp., New York, N. Y. Filed Jan. 4, 1955.

# UHU

For Glues and Mucilage.  
Use since Nov. 12, 1954.

## CLASS 6

SN 652,411. L. H. Kellogg Chemical Co., Minneapolis, Minn. Filed Aug. 27, 1953.

# Lanomulsion

For Emulsion Used as an Ingredient in Embalming Fluids to Prevent Dehydration and Formaldehyde Astringency.  
Use since July 2, 1953.

SN 652,413. L. H. Kellogg Chemical Co., Minneapolis, Minn. Filed Aug. 27, 1953.

# Penitrone

For Chemical Used for Breaking Surface Tension and Penetrating the Tissues and Between the Tissues in Embalming Fluids.  
Use since June 3, 1953.

SN 671,303. Bohme Fettchemie GMBH, Dusseldorf, Germany. Filed Aug. 9, 1954.

# PEKOROL

Applicant claims ownership of German Reg. No. 437,159, dated Sept. 4, 1931.  
For Softening, Wetting, and Limiting Agents for Use in the Treatment of Textiles and Leather.

SN 671,304. Bohme Fettchemie GMBH, Dusseldorf, Germany. Filed Aug. 9, 1954.

# SMENOL

Applicant claims ownership of German Reg. No. 410,808, dated Nov. 22, 1929.  
For Chemical Preparations, Especially Wetting, Emulsifying, and Dispersing Agents, for the Treatment of Leather.

SN 671,870. The Selig Company, Inc., Atlanta, Ga. Filed Aug. 17, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 275,329.  
For Disinfectants, Flame Proofing Compound, Germicides, Insecticides, Wick-Type Deodorants, Deodorizing Fluids, Chemical Crystals in Block Form Used as a Deodorant, Moth Repellents, and Antiseptic.  
Use since Sept. 15, 1924.

SN 671,988. Commercial Solvents Corporation, New York, N. Y. Filed Aug. 20, 1954.

# SHELLACOL

Applicant claims ownership of Reg. No. 318,016.  
For Alcoholic Solvents Used Industrially and Denatured Alcohol.  
Use since Apr. 15, 1921.

SN 672,269. The Baker Castor Oil Company, Jersey City, N. J. Filed Aug. 26, 1954.

# ESTYNOX

For Epoxy, Hydroxy, or Acetoxy Esters of Fatty Acids.  
Use since June 28, 1954.

SN 672,879. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Sept. 8, 1954.

# SEVRON

For Dyes.  
Use since July 12, 1954.

SN 672,932. Dexter Chemical Corporation, New York, N. Y. Filed Sept. 9, 1954.

# TEL

For Surface Active, Rewetting, and Antistatic Agents and Optical Brighteners for Application to Textiles.  
Use since Aug. 27, 1954.

SN 672,940. Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Filed Sept. 9, 1954.

# Levamin

Applicant claims ownership of German Reg. No. 650,568, dated Dec. 30, 1953, and U. S. Reg. Nos. 570,776, 572,119, and 600,598.  
For Dyestuffs.

SN 672,941. Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Filed Sept. 9, 1954.

# Levalan

Applicant claims ownership of German Reg. No. 650,567, dated Dec. 30, 1953, and U. S. Reg. Nos. 570,776, 572,119, and 600,598.  
For Dyestuffs.

SN 673,405. United States Movidyn Corporation, Chicago, Ill. Filed Sept. 17, 1954.

# PULPADYN

For Semi-Solid Composition of Both Silver and Mercury Organometallics for the Control and Destruction of Slime Forming Organism in the Stock System in the Pulp and Paper Industry.  
Use since Apr. 27, 1954.



Applicant claims ownership of Reg. Nos. 156,430, 558,207, and others.  
For Phenol, Acetone, and Aryl-Substituted Saturated Aliphatic Hydrocarbons.  
Use since Dec. 23, 1953, on phenol.

SN 673,761. Oronite Chemical Company, Wilmington, Del. Filed Sept. 24, 1954.

# ORONITE

Applicant claims ownership of Reg. Nos. 156,430, 558,209, and others.  
For Cresylic Acids, Phenol, Acetone, and Aryl-Substituted Saturated Aliphatic Hydrocarbons.  
Use since Apr. 15, 1944, on cresylic acids.

SN 673,821. General Aniline & Film Corporation, New York, N. Y. Filed Sept. 27, 1954.

# OZALITH

For Chemicals and Preparations and Compounds Thereof Used in Developing Light-Sensitive Diazotype Materials.  
Use since Aug. 13, 1954.

SN 674,485. Virginia Smelting Company, West Norfolk, Va. Filed Oct. 7, 1954.

# SUPER-BOMB

For Aerosol Insecticides.  
Use since Sept. 1, 1954.

SN 676,465. Bostwick Laboratories, Inc., d. b. a. Spray Maid Products Co., Bridgeport, Conn. Filed Nov. 12, 1954.

# Krisp

For Air Refresher.  
Use since September 1950.

SN 676,955. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.

# TRAK

For Insecticide.  
Use since on or about Oct. 12, 1945.



SN 676,969. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954. SN 678,894. Vanadium Corporation of America, New York, N. Y. Filed Dec. 23, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 374,936 and 379,158. For Lighter Fluid. Use since on or about July 1925.

SN 677,062. Hopkins Agricultural Chemical Co., Madison, Wis. Filed Nov. 22, 1954.

# AQUA-DETH

For Products for Control of Rats and Mice. Use since Oct. 8, 1954.

SN 677,491. The Diversey Corporation, Chicago, Ill. Filed Nov. 30, 1954.

# CX

For Disinfectants, Germicides, and Sterilizers, Generally Used in Solid Form, for Disinfecting Receptacles and Containers. Use since Apr. 22, 1953.

SN 678,560. The F. C. Sturtevant Company, Hartford, Conn. Filed Dec. 17, 1954. Sec. 2(f).

# Lilly's

For Insecticides. Use since in or about April 1938.

SN 678,622. General Mills, Inc., Wilmington, Del. Filed Dec. 20, 1954.

# MULGUM

For Guar Composition Used in the Manufacture of Paper. Use since July 21, 1954.

SN 678,893. Vanadium Corporation of America, New York, N. Y. Filed Dec. 23, 1954.

# EXOKROM

For Chromium Containing Exothermic Compositions for Addition to Metal Baths. Use since Nov. 24, 1954.

# THERMOKROM

For Chromium Containing Exothermic Compositions for Addition to Metal Baths. Use since Nov. 24, 1954.

SN 680,846. American Cyanamid Company, New York, N. Y. Filed Feb. 1, 1955.

# CAPTOPHOS

For Insecticide, Acaricide, Ovicide, Fungicide, and Rodenticide. Use since Jan. 10, 1955.

SN 680,847. American Cyanamid Company, New York, N. Y. Filed Feb. 1, 1955.

# THIMET

For Insecticide, Acaricide, Ovicide, Fungicide, and Rodenticide. Use since Jan. 10, 1955.

SN 680,848. American Cyanamid Company, New York, N. Y. Filed Feb. 1, 1955.

# DICAPTHON

For Insecticide, Acaricide, Ovicide, Fungicide, and Rodenticide. Use since Jan. 10, 1955.

## CLASS 7

SN 659,559. Nichols Wire & Aluminum Co., Davenport, Iowa. Filed Jan. 15, 1954. Sec. 2(f).

# NEVER-STAIN

Applicant claims ownership of Reg. No. 563,759. For Aluminum Clothesline. Use since on or about Nov. 12, 1948.

SN 661,083. John W. Lowery, d. b. a. Lowery Brothers, Chicago, Ill. Filed Feb. 15, 1954.



Applicant disclaims the representation of a sling apart from the mark as shown. For Silings. Use since June 3, 1953.

SN 677,259. Clement L. Yancey, Jr., d. b. a. Greensboro Twine & Paper Company, Greensboro, N. C. Filed Nov. 24, 1954. SN 676,351. Colibri Lighters Limited, London, England. Filed Oct. 11, 1954.



For Twine and Rope. Use since on or about June 1, 1942.

## CLASS 8

SN 669,018. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed June 28, 1954.



For Cigarette Paper and Cigarette Paper Booklets. Use since on or about Apr. 3, 1953.

SN 669,021. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed June 28, 1954.

# Western

Applicant claims ownership of Reg. No. 574,634. For Cigarette Paper and Cigarette Paper Booklets. Use since on or about Apr. 3, 1953.

SN 675,925. Ewald W. Terney, Mineola, N. Y. Filed Nov. 2, 1954.



For Ash Trays, Safety Supports for Holding Burning Cigarettes on Ash Trays, Cigarette Lighters. Use since Oct. 4, 1954.

# Ibello

The trademark consists of the word "Ibello." Applicant claims ownership of British Reg. No. 699,508, dated July 3, 1951.

For Pyrophoric Lighters for Smokers and Parts of Such Lighters.

SN 678,682. Stephano Brothers, Philadelphia, Pa. Filed Dec. 20, 1954.

# Megasorp Filter

No claim is made to the exclusive use of the word "Filter" apart from the mark as shown. For Filters Used to Form a Component Part of Cigarettes. Use since Dec. 1, 1954.

SN 678,684. Stephano Brothers, Philadelphia, Pa. Filed Dec. 20, 1954.

# ULTRASORP FILTER

No claim is made to the exclusive use of the word "Filter" apart from the mark as shown. For Filters Used To Form a Component Part of Cigarettes. Use since Dec. 1, 1954.

## CLASS 10

SN 654,358. United Seeds, Inc., Omaha, Nebr. Filed Oct. 7, 1953.

# LAWNORGANIC

For Fertilizer. Use since Apr. 1, 1953.

SN 664,741. Eerste Nederlandse Coöperatieve Kunststof-fabriek, Vlaardingen, Netherlands. Filed Apr. 19, 1954.

# Pearl Super

Applicant claims ownership of Dutch Reg. No. 102,244, dated July 29, 1949. For Fertilizers.

SN 678,266. F. S. Royster Guano Co., Norfolk, Va. Filed Dec. 13, 1954.

# Granuform

For Pelletized Fertilizer. Use since Dec. 1, 1954.



## CLASS 11

SN 669,801. William Korn, Inc., New York, N. Y. Filed July 13, 1954. Sec. 2(f) as to "Korn's."



The drawing is lined for shading only. No exclusive claim is made to the words "Lithographic," "Crayons & Inks," and "Established 1880," apart from the mark as shown. Applicant claims ownership of Reg. Nos. 345,523, 346,004, and 346,187.

For Lithographic Products—Namely, Inks and Tusche. Use since Dec. 30, 1882.

## CLASS 12

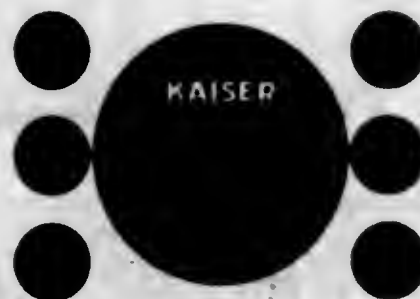
SN 650,333. Tubewrights Limited, London, England. Filed July 15, 1953.



Applicant claims ownership of British Reg. No. 708,212, dated June 19, 1952.

For Building Frames, Bridges, Handrailing, Builders' Screens, Beams, Girders, Cattle Pennage, for Markets, Etc., Cowstall Divisions, Gangways, Catwalks, Frames for Grandstands, Standards for Handrailing, Frames for Hangars (Aeroplane), Frames for Huts, Masts, and Towers, Erection Masts, Well Drilling Towers, Poles for Transmission Wires, Posts, Purlins, Pit Props, Shores, Frames for Shelters, Stanchions, Staircases, Roof Trusses, Scaffolding, Guard Rails, Barriers, Columns for Buildings, Clothing Frames for Use in Cloakrooms and Stores for Suspending Clothing, Tubular Elements for Building Guards Around Machinery, Tubular Elements for Building Guards and for Gymnasium and Playground Equipment, Pylons, Platforms, Tripods for Stacking Hay and the Like, Gantries, and Sewage and Cattle Grids.

SN 657,403. Kaiser Gypsum Company, Inc., Oakland, Calif. Filed Nov. 23, 1953.



For Fibered and Unfibred Hardwall Plasters; Joint Cement; Premixed Gypsum Concrete; and Casting and Gauging Plasters. Use since July 5, 1952.

SN 660,720. Glass-Fiber & Plastics Supply Incorporated, Seattle, Wash. Filed Feb. 8, 1954.

# Fiberlay

For Kit Containing Glass Fiber Cloth, Liquid Resin and Resin Hardeners for Impregnating Such Cloth for Coating Structural Wood Surfaces, for Patching or Coating Plastic Surfaces, and for Making Hard, Form-Sustaining Sheet Shapes.

Use since January 1952.

SN 664,500. Armstrong Cork Company, Lancaster, Pa. Filed Apr. 14, 1954.

# LT-30

For Cork Insulation Covering. Use since Mar. 3, 1954.

SN 668,184. National Gypsum Company, Buffalo, N. Y. Filed June 14, 1954.



For Ceiling Suspension System for Supporting Acoustical and Insulating Tile. Use since Jan. 7, 1953.

SN 671,935. Engineered Products, Inc., Hialeah, Fla. Filed Aug. 19, 1954.

# JALOCRETE

For Storm Shutters, Window Frames, Windows, Jalousies, Glass, Wood, and Aluminum Louvers. Use since Nov. 15, 1952.

SN 672,114. Stevens-Thuet Company, Long Beach, Calif. Filed Aug. 23, 1954.



# DO · IT · DOR

For Construction Materials—Namely, Aluminum Garage Doors. Use since May 20, 1954.

SN 675,403. John O. Kohl, Elkhart Lake, Wis. Filed Oct. 25, 1954. SN 679,860. Parham Industries, Incorporated, Detroit, Mich. Filed Jan. 13, 1955.

# PLYCO

For Plastic Window Units. Use since May 15, 1952.

SN 677,417. Keasbey & Mattison Company, Ambler, Pa. Filed Nov. 29, 1954.

# FLUID-TITE

For Asbestos-Cement Couplings, Short Length Pipes, Rounds, Fittings, Elbows, Y's, and Bends. Use since on or about Oct. 22, 1954.

SN 678,818. Selby, Battersby & Company, Philadelphia, Pa. Filed Dec. 22, 1954.

# NOVATRAZ

For Terrazzo Type Flooring Material. Use since Nov. 11, 1954.

SN 678,951. American Bitumuls & Asphalt Co., Wilmington, Del. Filed Dec. 27, 1954.

# WALK-TOP

For Bituminous Construction and Surfacing Compositions. Use since September 1943.

SN 679,341. Schalk Chemical Company, Los Angeles, Calif. Filed Jan. 3, 1955.



Applicant claims ownership of Reg. Nos. 530,061 and 533,878.

For Tile Paste, Tile Cement, Patch Paste, Plaster Pencils, Wood Putty and Water Putty for Crack Filler. Use since Sept. 15, 1946.

SN 679,544. Armstrong Cork Company, Lancaster, Pa. Filed Jan. 7, 1955.

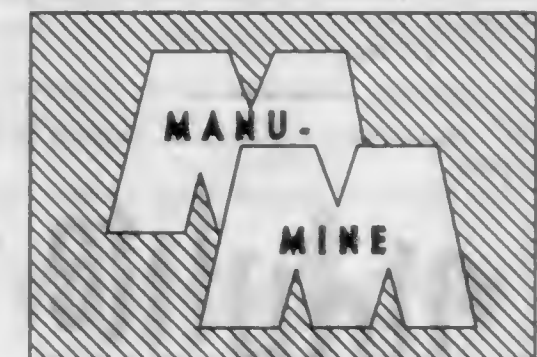
# Corlex

For Plastic Laminate Counter Top and Wall Surfacing. Use since Dec. 27, 1954.

# PARCORK TILE

Applicant disclaims the word "Tile" apart from the mark as shown. For Cork Tile. Use since Sept. 15, 1954.

SN 680,006. Manu-Mine Research & Development Co., Mohn-ton, Pa. Filed Jan. 17, 1955.



The drawing is lined for green.

For Sealing Compounds for Sealing Roadway Joints and Metal Joints and for Waterproofing Walls of Building Block, Concrete, Stucco, Brick or Stone, Particularly in Basements, Water Dams, and Swimming Pools; Window Caulking Compounds; Sealing Compounds for Pointing Stone and Brick, for Sealing Openings in Coping, Plating, Siding, and for Interior Plaster Cracks, Also for Mine Brattice and Ventilation Doors; and Soil Solidifying and Stabilizing Compounds. Use since May 3, 1948, on sealing compounds.

SN 680,619. Master Metal Strip Service, Inc., Chicago, Ill. Filed Jan. 27, 1955.

# MASTER-MATIC

For Combination Window Sash Balances and Weatherstrips, and Weatherstrips, Per Se. Use since on or about June 1, 1954.

SN 680,975. Possehl Erz- und Chemikalienhandel G. m. b. H., Hamburg, Germany. Filed Feb. 2, 1955.

# POSSELIT

Applicant claims ownership of German Reg. No. 664,323, dated Oct. 12, 1954. For Joint Sealing Compound.

SN 682,630. Flooring Enterprises Ltd., Larkfield, Nr. Maidstone, Kent, England. Filed Mar. 2, 1955.

# Marquetone

Applicant claims ownership of British Reg. No. 674,756, dated Nov. 22, 1948. For Mosaic Wood Flooring.



## CLASS 14

SN 680,413. Randolph Mfg. Co., Cleveland, Ohio. Filed Jan. 24, 1955.



For Component Metal Parts and Assemblies Having a Lapped, Honed, or Ground Finished Surface for Use in Various Manufactured Articles.  
Use since Nov. 17, 1954.

SN 680,703. The Udylite Corporation, Detroit, Mich. Filed Jan. 28, 1955.

# Udylite

Applicant claims ownership of Reg. Nos. 220,590, 224,679, and 229,519.

For Brass, White Brass, Cadmium, Copper, Nickel, Silver, Steel, Tin, Zinc, and Lead Alloy Anodes for Electroplating.  
Use since Nov. 19, 1919, on cadmium anodes.

## CLASS 15

SN 660,953. The Macco Products Company, Chicago, Ill. Filed Feb. 11, 1954.

# MACCO

For Metal Drawing and Stamping Compounds, and Metal Cutting Lubricants.  
Use since Apr. 1, 1931.

SN 672,118. Sulflo-Inc., Elizabeth, N. J. Filed Aug. 23, 1954.



For Cutting Oils, Water Soluble Oils and Compounds, Fuel Oil Treatment Compounds.  
Use since in or prior to 1936.

SN 675,511. L. L. Shambaugh, d. b. a. Co-Products Company, Cleveland, Ohio. Filed Oct. 26, 1954.

# KO-RUSTO

For Anti-Corrosive Grease.  
Use since 1940.

SN 677,789. Industrial Raw Materials Corp., New York, N. Y. Filed Dec. 6, 1954.

# INDRAMIC

For Paraffin Wax Sold as a Raw Material and Having a General Use in Industry.  
Use since 1946.

SN 677,790. Industrial Raw Materials Corp., New York, N. Y. Filed Dec. 6, 1954.

# INDROX

For Oxidized Microcrystalline Wax Sold as a Raw Material and Having a General Use in Industry.  
Use since 1946.

SN 677,791. Industrial Raw Materials Corp., New York, N. Y. Filed Dec. 6, 1954.

# INDRACINA

For Paraffin Wax Sold as a Raw Material and Having a General Use in Industry.  
Use since 1946.

SN 677,906. Spotoil International Sales Corporation, Washington, D. C. Filed Dec. 7, 1954.

# SPOTOIL

For Lubrication Containing Special Properties Which Reduce Friction and Enhance Performance of Internal Combustion Engines.  
Use since during the latter part of 1946.

SN 679,246. Union Oil Company of California, Los Angeles, Calif. Filed Dec. 31, 1954.

# UNATRAC

For Greases.  
Use since Oct. 4, 1954.

## CLASS 16

SN 662,597. Bee Chemical Company, Chicago, Ill. Filed Mar. 15, 1954.



Applicant claims ownership of Reg. Nos. 547,033, 579,936, and 581,182.

For Paints, Lacquers, Enamels, Paint-Enamels, Varnishes, and Thinners for Paints, Lacquers, Enamels, Paint-Enamels, and Varnishes.  
Use since Jan. 6, 1954.

SN 673,734. Enamalex Corporation of Texas, Houston, Tex. Filed Sept. 24, 1954.

# Enamel-X

For Paints and Primers for Pipes.  
Use since Dec. 8, 1953.

SN 674,543. Robert Van Worp, d. b. a. The Linseed White Co., Tampa, Fla. Filed Oct. 8, 1954.

# Mary Carter's

For Household Painting Products Including Interior and Exterior Paints, Floor and Deck Enamels, Trim enamels, Undercoats and Primers, Shingle Stains, Cement Paints, Metal Paints, and Other Composition Items Sundry to All Interior and Exterior Paints.  
Use since Oct. 25, 1951.

SN 674,797. Godfrey L. Cabot, Inc., Boston, Mass. Filed Oct. 14, 1954.

# ELFTEX-3

For Color Black Particularly Useful for Tinting and Shading Purposes.  
Use since Dec. 9, 1953.

SN 676,464. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Nov. 12, 1954. Sec. 2(f).

# BOSTWICK

For Plastic Spraying Composition Which Is Used as a Rust and Tarnish Inhibitor.  
Use since Jan. 3, 1948.

SN 677,766. Cook Paint & Varnish Company, Kansas City, Mo. Filed Dec. 6, 1954.



Applicant claims ownership of Reg. Nos. 281,034, 592,937, and others.

For Ready-Mixed Paints; Varnishes; Enamels; Primers; Mixing Oils for Paints; Wood Finishes, Preservatives, and Stains; Wall Finishes; Solvents for Paints; and Oil Colors for Paints.  
Use since Aug. 9, 1921.

SN 677,767. Cook Paint & Varnish Company, Kansas City, Mo. Filed Dec. 6, 1954.



Applicant claims ownership of Reg. Nos. 281,034, 592,937, and others.

For Ready-Mixed Paints, Varnishes, Enamels, and Primers.  
Use since Aug. 9, 1921.

SN 678,836. Aldens, Inc., Chicago, Ill. Filed Dec. 23, 1954.

# mira-flow no-drip

No claim is made to the exclusive use of the word "No-Drip" apart from the mark shown, applicant reserving all common law rights in connection therewith.  
For Ready-Mixed Paints.  
Use since Dec. 15, 1954.

SN 678,942. Sam Zakim, Paterson, N. J. Filed Dec. 1, 1954.



For One Coat Flat Enamel Paint.  
Use since September 1952.

SN 679,796. Penn Crete Products Co., Philadelphia, Pa. Filed Jan. 12, 1955.

# PENN-TONE

For Paste Paint, Paint or Paint Product, Used for Walls and Ceilings, Inside or Outside.  
Use since Mar. 1, 1942.

SN 680,095. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Jan. 18, 1955. Sec. 2(f).

# Metaleaf

Applicant claims ownership of the mark shown in expired Reg. No. 313,549.  
For Aluminum Paint.  
Use since Nov. 14, 1932.



SN 680,207. Louisville Varnish Company, Louisville, Ky. Filed Jan. 20, 1955. SN 682,483. Rock-Tred Corporation, Skokie, Ill. Filed Feb. 28, 1955.

# Louvarco

For Coating Compositions Consisting of Wood Stains, Lacquer Coatings, Varnish Coatings, Synthetic Coatings, Oil Coatings, Resin Coatings, and Enamel Coatings; and Thinners and Reducers.

Use since Aug. 8, 1912.

SN 680,950. Gibraltar Floors Inc., Detroit, Mich. Filed Feb. 2, 1955.

# GIB-ROCK

For Sealer for Concrete Floors.  
Use since 1936.

SN 681,034. The Patterson-Sargent Company, Cleveland, Ohio. Filed Feb. 3, 1955.

# TINT-N-COLOR

For Ready Mixed Paints.  
Use since Dec. 16, 1954.

SN 681,453. Roxseal Company, Inc., Long Island City, N. Y. Filed Feb. 10, 1955.

# ROXSEAL

Applicant claims ownership of Reg. No. 354,748.  
For Protective Coatings for Floors, Walls, Roofs, and Tanks, Tree Wound Dressing and Grafting Compound.  
Use since Jan. 29, 1937.

SN 681,648. The Synkoloid Company, Los Angeles, Calif. Filed Feb. 14, 1955.

# Synlith

For Masonry Paint.  
Use since January 1946.

SN 682,052. Pabco Products Inc., San Francisco, Calif. Filed Feb. 21, 1955.

# CIN-LASTIC

For Synthetic Vinyl Polymer Emulsion Paint.  
Use since November 1954.

SN 682,377. Acme Chemical Company, Milwaukee, Wis. Filed Feb. 28, 1955. Sec. 2(f).

# FLORGARD

Applicant claims ownership of Reg. No. 406,311.  
For Liquid Wax for Application Chiefly to Wood, Linoleum, Terrazzo, Clay Tile, Composition, and Rubber Floors.  
Use since May 1, 1942.

SN 682,483. Rock-Tred Corporation, Skokie, Ill. Filed Feb. 28, 1955.

# PENETRED

For Colored Resin Base Sealer for Concrete and Wood Floors.

Use since Aug. 30, 1951.

SN 682,695. Allentown Paint Manufacturing Company, Allentown, Pa. Filed Mar. 3, 1955. Sec. 2(f).

# DELUXE Allencoater

For Wall Paints and Enamels.  
Use since Nov. 19, 1945.

SN 682,828. Rohm & Haas Company, Philadelphia, Pa. Filed Mar. 4, 1955.

# ORTHODULL

Applicant claims ownership of Reg. Nos. 222,909, 232,759, and 438,471.

For Chemical Coating Compositions Primarily for Use on Leather, Artificial Leather and Materials of Generally Similar Nature.

Use since Dec. 28, 1954.

SN 682,882. Elliott Paint & Varnish Company, Chicago, Ill. Filed Mar. 7, 1955.

# RUB-R-BOND

For Paints.  
Use since on or about Jan. 10, 1951.

SN 682,883. Elliott Paint & Varnish Company, Chicago, Ill. Filed Mar. 7, 1955.

# Promenade

For Paints.  
Use since on or about Jan. 5, 1952.

## CLASS 17

SN 674,003. M. Marsh & Sons, Wheeling, W. Va. Filed Sept. 29, 1954. Sec. 2(f).

# Mountaineers

For Cigars.  
Use since Nov. 15, 1933.

## CLASS 18

SN 633,322. P. M. B. Drug Company, Inc., Union, N. J. Filed July 31, 1952.

# skix

For Medicinal Preparation for Treatment of Athlete's Foot and Other Fungus Skin Diseases.  
Use since July 17, 1952.

SN 651,189. Rhu-Mart Drug Co., Inc., Newark, N. J. Filed July 31, 1953.

# SR-27

For Multiple Vitamin and Mineral Tablets.  
Use since Jan. 1, 1953.

SN 665,668. Wisk-A-Way Co., Fresno, Calif. Filed May 3, 1954.

# Wisk-A-Way

For Mineral Bath Salts.  
Use since Mar. 15, 1954.

SN 666,743. Dr. Salisbury's Laboratories, Charles City, Iowa. Filed May 20, 1954.

# Salstrep

For Streptomycin Preparation Intended for Oral Veterinary Use.  
Use since on or about May 4, 1954.

SN 669,797. Nu-Health Laboratories, Inc., Lynbrook, N. Y. Filed July 12, 1954.

# IMMUN

For Food Nutrient Containing Vitamins A and D.  
Use since Nov. 5, 1949.

SN 674,508. Jesiah C. Galtner, d. b. a. Franklin Laboratories, Columbus, Ohio. Filed Oct. 8, 1954.

# KODETTS

For Grain, Herb, and Plant Compound in Tablet Form for Use as Dietary Supplement.  
Use since Sept. 11, 1954.

TM 696 O. G.—18

SN 675,526. American Cyanamid Company, New York, N. Y. Filed Oct. 27, 1954.

# GEVRIN

Applicant claims ownership of Reg. Nos. 564,695, 569,973, and 582,927.

For Geriatric Vitamin-Mineral Supplement With Hormones.  
Use since Oct. 11, 1954.

SN 675,839. Special Formula Company, Incorporated, Mount Holly, N. C. Filed Nov. 1, 1954.

# SUTHERINE

For Hemorrhoidal Ointment.  
Use since Oct. 27, 1954.

SN 676,220. Nopco Chemical Company, Harrison, N. J. Filed Nov. 8, 1954.

# NOPVITE

For High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins.  
Use since Aug. 3, 1954.

SN 676,307. Corbate Co., Incorporated, Washington, D. C. Filed Nov. 9, 1954.

# CORABATE

For Analgesic Tablets for the Relief of Minor Muscular Aches and Pains.  
Use since Oct. 22, 1954.

SN 676,323. Kinney & Company, Inc., Columbus, Ind. Filed Nov. 9, 1954.

# COACTYN

For Anti-Spasmodic Preparation.  
Use since Oct. 25, 1954.

SN 676,399. Organon Inc., Orange, N. J. Filed Nov. 10, 1954.

# ETENSOID

For Medicinal Preparation To Be Used in the Treatment of Hypertension.  
Use since Oct. 26, 1954.

SN 677,247. Schenley Laboratories, Inc., New York, N. Y. Filed Nov. 24, 1954.

# RHINAMYL

For Products for the Treatment of Rhinitis.  
Use since Nov. 4, 1954.



SN 677,371. The Upjohn Company, Kalamazoo, Mich. Filed Nov. 26, 1954.

## Micipan

For Pharmaceutical Preparation for Use in the Treatment of Bacterial Infections.  
Use since Oct. 22, 1954.

SN 677,456. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Nov. 29, 1954.

# C D P

For Animal and Poultry Feed Supplement.  
Use since Oct. 1, 1954.

SN 677,556. Elmorene Company, Chicago, Ill. Filed Dec. 1, 1954.

## AFTER 40

For Geriatric Preparation.  
Use since June 8, 1954.

SN 677,589. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Dec. 1, 1954.

## STRYCITAL

Applicant claims ownership of Reg. No. 567,103.  
For Antibacterial Preparation.  
Use since Aug. 13, 1954.

SN 677,591. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Dec. 1, 1954.

## RAUDIXOID

Applicant claims ownership of Reg. No. 586,330.  
For Antihypertensive and Sedative Preparation.  
Use since Oct. 22, 1954.

SN 677,592. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Dec. 1, 1954.

## RAUDIXOIDE

Applicant claims ownership of Reg. No. 586,330.  
For Antihypertensive and Sedative Preparation.  
Use since Oct. 25, 1954.

SN 677,599. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Dec. 1, 1954.

## VI-THYRO

For Medicinal Preparation Useful in the Treatment of Hypo-Thyroid Conditions.  
Use since Sept. 17, 1954.

SN 677,716. K L R Laboratories, Inc., Seattle, Wash. Filed Dec. 3, 1954.

## DIAPEP

For Pharmaceutical Preparations for the Reduction of Weight, and the Relief of Mental Depression.  
Use since Sept. 6, 1954.

SN 677,814. William H. Rorer, Inc., Philadelphia, Pa. Filed Dec. 6, 1954.

## PROBUTYLIN

For Preparation for Use in the Treatment of Nausea, Vomiting, and Pylorospasm.  
Use since May 28, 1953.

SN 677,818. Sleep-Eze Company, Inc., Long Beach, Calif. Filed Dec. 6, 1954. Sec. 2(f).

## Sleep-Eze

Applicant claims ownership of Reg. Nos. 372,206 and 541,612.  
For Mild Sedative.  
Use since Aug. 12, 1948.

SN 677,934. Carter Products, Inc., New York, N. Y. Filed Dec. 8, 1954.

## DIROX

For Laxative.  
Use since Nov. 5, 1954.

SN 678,045. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Dec. 9, 1954.

## PENACETHS

For Antibiotic Preparation for Veterinary Use.  
Use since Oct. 11, 1954.

SN 678,046. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Dec. 9, 1954.

## CILLINAC

For Antibiotic Preparation for Veterinary Use.  
Use since Oct. 6, 1954.

SN 678,064. The Vale Chemical Company, Inc., Allentown, Pa. Filed Dec. 9, 1954.

## SALPACINE

For Tablets Used in the Treatment of Rheumatic Disorders.  
Use since May 21, 1951.

SN 678,089. Chicago Pharmacal Company, Chicago, Ill. Filed Dec. 10, 1954.

## METYSTIL

For Medicinal Preparation in Tablet Form Used in Menopause, and in Osteoporosis and Fractures of the Aged.  
Use since Dec. 4, 1944.

SN 678,423. The Superior Pharmacal Co., Dayton, Ohio. Filed Dec. 15, 1954.

## DI-ME-SAL

For Analgesic and Anti-Rheumatic Tablet.  
Use since Sept. 28, 1954.

SN 678,472. Pay Way Feed Mills, Inc., Kansas City, Mo. Filed Dec. 16, 1954.

## STIL-BEST

For Feed Supplements for Livestock.  
Use since Dec. 10, 1954.

SN 680,003. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Jan. 17, 1955.

## MEDICARE

For Medicated Creamy Masque Preparation and Medicated Skin Lotion.  
Use since Jan. 1, 1953.

SN 680,254. The Chattanooga Medicine Company, Chattanooga, Tenn. Filed Jan. 21, 1955.

## DISAC

For Antacid Preparation Containing Dihydroxy Aluminum Sodium Carbonate.  
Use since Dec. 30, 1954.

SN 680,430. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

## Esaguent

For Antibiotic Preparation, Antibiotic Ointment, and Ophthalmic Preparations for the Treatment of Bacterial Infections.  
Use since Mar. 24, 1954.

SN 680,432. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

## Esdose

For Antibiotic Preparations for the Treatment of Infectious Diseases, Ophthalmic Preparations for the Treatment of Bacterial Infections and Pharmaceutical Preparations for the Treatment of Intestinal Dysfunction.  
Use since Mar. 24, 1954.

SN 680,433. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

## Estab

For Pharmaceutical Preparation for the Treatment of Metabolic Disturbances, Pharmaceutical Preparations for the Treatment of Ovarian Disorders, and Pharmaceutical Preparations for Use as Vasoconstrictors.  
Use since Mar. 24, 1954.

SN 680,434. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

## Estette

For Pharmaceutical Preparations for the Treatment of Nutritional and Vitamin Deficiencies, Antibiotic Preparations, and Pharmaceutical Preparations for the Treatment of Bacterial Infections.  
Use since Mar. 24, 1954.

SN 680,436. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

## Estule

For Pharmaceutical Preparations for the Treatment of Nutritional and Vitamin Deficiencies, Pharmaceutical Preparations for the Treatment of Hormonal Insufficiencies and Dysfunction, and Antibiotic Preparations.  
Use since Mar. 24, 1954.

SN 680,556. R. J. Straesburgh Company, Rochester, N. Y. Filed Jan. 26, 1955.

## Caprylium

For Pharmaceutical Preparation Containing Caprylic Acid or Its Derivatives, for Use in the Treatment of Mycotic, Bacterial, and Trichomonal Infections.  
Use since in or about November 1951.

SN 680,630. Schering Corporation, Bloomfield, N. J. Filed Jan. 27, 1955.

## ORTINYL

For Medicinal Hormone Preparation.  
Use since Oct. 12, 1954.

SN 680,754. Glo-Vita Corporation, Los Angeles, Calif. Filed Jan. 31, 1955.

## GLO-VITA

For Multivitamin and Mineral Tablets.  
Use since on or about July 1, 1954.



## CLASS 19

SN 642,160. Irazision-Werke Bruninghaus & Co., Bielefeld, Germany. Filed Feb. 12, 1953.

# Durex

Applicant claims ownership of German Reg. No. 495,902, dated Jan. 21, 1937.

For Bicycle Parts—Namely, Front Hubs, Freewheel Hubs, and Speed Hubs.

## CLASS 21

SN 641,218. Speer Carbon Company, St. Marys, Pa. Filed Jan. 23, 1953. Sec. 2(f) as to "Jeffers Electronics."



For Chokes, Capacitors, Coils, and Combination Capacitors and Resistors.

Use since on or about Jan. 1, 1950; and since 1945 as to "Jeffers Electronics."

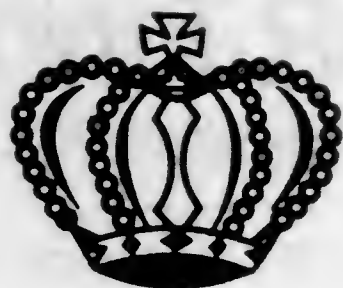
SN 657,684. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# MULTAX

Applicant claims ownership of German Reg. No. 134,580, dated Sept. 23, 1910.

For Electric-Lighting Carbons, Primary-Cell Carbon Electrodes, Carbon Plates, Carbon Cylinders, Carbon Briquets, Pyrolusite Cylinders, Pyrolusite Briquets, Carbons for Microphones, and Carbon Brushes.

SN 657,685. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.



Applicant claims ownership of German Reg. No. 13,432, dated Jan. 31, 1896.

For Carbon Electrodes for Electric Lighting Purposes, Primary-Cell Carbon Electrodes, Carbon Plates, Carbon Cylinders, Carbon Briquets, Pyrolusite Cylinders and Pyrolusite Briquets, and Carbons for Microphones.

SN 657,686. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# ELECTRA

Applicant claims ownership of German Reg. No. 6,752, dated May 25, 1895.

For Arc-Lighting Carbons.

SN 657,687. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# Excello

Applicant claims ownership of German Reg. No. 73,785, dated Nov. 11, 1904.

For Electrical and Primary-Cell Carbons.

SN 657,688. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.



Applicant claims ownership of German Reg. No. 128,438, dated Apr. 13, 1910.

For Carbon Electrodes for Electric Lighting Purposes, Primary-Cell Carbon Electrodes, Carbon Plates, Carbon Cylinders, Carbon Briquets, Pyrolusite Cylinders, Pyrolusite Briquets, Carbon for Microphones, and Carbon Brushes.

SN 657,689. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# Bronskol

Applicant claims ownership of German Reg. No. 139,021, dated Jan. 13, 1911.

For Carbon Electrodes for Electric Lighting Purposes, Primary-Cell Carbon Electrodes, Carbon Plates, Carbon Cylinders, Carbon Briquets, Pyrolusite Cylinders, Pyrolusite Briquets, Carbons for Microphones, Carbon Brushes and Sliding Contacts, Metal Brushes, Carbons for Metallurgical and Electrolytic Processes.

SN 657,691. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# Ocetherm

Applicant claims ownership of German Reg. No. 239,638, dated Dec. 9, 1919.

For Carbon Pencils for Arc Lamps and Batteries; Carbon Cylinders; Carbon Plates; Carbon Rods; Carbon Electrodes for Primary Cells, for Storage Batteries, for Liquid-Phase and Solid-Phase Electrolytic Processes, for the Production of Iron, Steel, Aluminum, Zinc, Carbide, Nitrogen, and for Other Metallurgical Processes; Carbon Brushes for Dynamos and Motors, for Starters and Igniting Apparatus; Copper and Metal Brushes Serving as Current Take-Off Devices; Sliding and Pressure Contacts; Carbon Sealing Gaskets; Incandescent Carbons and Heating Rods for Heating Apparatus; Resistance Carbons for Lightning-Protection and Electrochemical Purposes; Artificial Graphite; Plates, Electrodes, Rods, and Other Molded Articles Made From Artificial Graphite; Carborundum Rods and Molded Rods Made From Silicon Carbide; Electric Furnaces for the Production of Artificial Graphite and Carborundum.

SN 657,692. C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953. SN 664,919. Jasper Blackburn Corporation, St. Louis, Mo. Filed Apr. 21, 1954. Sec. 2(f) as to "Blackburn."

# BLACKBURN

## CONTACT PASTE

The trademark comprises a representation of the letter "C" of the International Morse code set off by long dashes. Applicant claims ownership of German Reg. No. 372,784, dated Aug. 13, 1927.

For Carbon Rods, With or Without Added Thermoluminescent Substances, for Arc Lamps and Projectors; Carbon Rods for Welding, Heating, and Other Purposes, Carbon Cylinders; Carbon Plates and Rods for Primary Cells and Batteries.

SN 662,227. L. C. Howe, Birmingham, Mich. Filed Mar. 8, 1954.

# ELECTRA-MATIC

For Electrical Safety Display Sign.  
Use since Dec. 1, 1949.

SN 663,263. Andres Balaguer Esquirol, Barcelona, Spain. Filed Mar. 25, 1954.



Applicant claims ownership of Spanish Reg. No. 268,181, dated July 16, 1953.

For Telephone Transmitters and Telephone Receivers, Telegraph Transmitters and Receivers, Radio Transmitters and Receivers, Television Transmitters and Receivers, Sound Recording and Reproducing Apparatus, Electric Phonographs, Combined Radios and Phonographs.

SN 664,417. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

# ARMAKOTE

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

SN 664,418. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

# HYDRAKOTE

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

SN 664,420. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Apr. 13, 1954.

# FRIGIDFLEX

For Rubber-, Plastic-, and Braid-Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.  
Use since Jan. 1, 1953.

Applicant makes no claim herein to the exclusive use of the words "Contact Paste" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 503,882 and 518,296. For Paste-Like Coating for Application to Aluminum Connections To Increase Their Effective Conductivity. Use since on or about Apr. 1, 1954; and since 1938 as to "Blackburn."

SN 665,394. Bede Products Inc., Cleveland, Ohio. Filed Apr. 29, 1954.



For Electrically Heated Apparatus for Heating Liquid Coating Compositions.  
Use since on or about Jan. 1, 1947.

SN 666,204. Mitchell Manufacturing Company, Chicago, Ill. Filed May 12, 1954.

# ADVENTURER

For Radio Receivers.  
Use since Apr. 22, 1954.

SN 667,923. American Phenolic Corporation, Chicago, Ill. Filed June 9, 1954.

# AMPHENOL

## -INLINE-

Exclusive right to register the word "Inline" is not claimed apart from the mark as shown.

For Antennas—Namely, Television Antennas.  
Use since on or about Jan. 15, 1948.

SN 670,424. G. M. Giannini & Co., Inc., Pasadena, Calif. Filed July 22, 1954. Sec. 2(f) as to "Giannini."

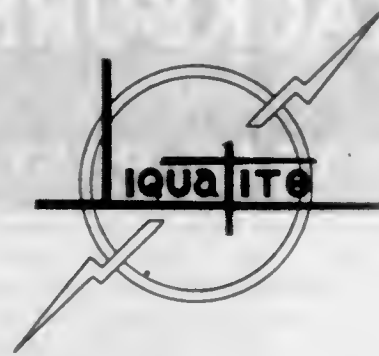
# Giannini

For Rheostats, Voltage Dividers, Switches, Relays, Stepping Positioners, Inductive Transducers, Resistive Transducers, Commutators, Synchros, Synchronous Motors, and Gyroscope Transducers.

Use since on or about Feb. 5, 1953, on switches; and on or about Dec. 10, 1948, as to "Giannini."



SN 672,104. Roselle Manufacturing & Die Cast Company, d. b. a. Electri-Flex Company, Roselle, Ill. Filed Aug. 23, 1954. SN 677,355. Robertshaw-Fulton Controls Co., Greensburg, Pa. Filed Nov. 26, 1954.



For Plastic-Coated Hollow Conduit, Particularly for Use in Conjunction With Electric Wires and Cables.  
Use since Aug. 3, 1954.

SN 672,651. The Garaway Corporation, Los Angeles, Calif. Filed Sept. 2, 1954.

**ELECTRA  
RAY**

For Electric Radiant Space Heaters.  
Use since Dec. 20, 1953.

SN 673,021. Gibson Refrigerator Company, Greenville, Mich. Filed Sept. 10, 1954.

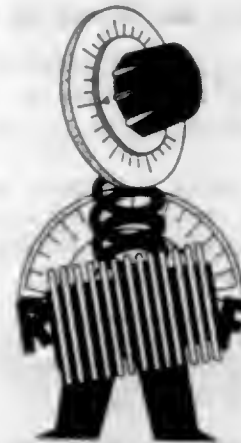


For Electric Ranges.  
Use since Sept. 30, 1949.

SN 673,404. Carl L. Ulrich and Janet O. Ulrich, d. b. a. Rich Engineering Company, Chicago, Ill. Filed Sept. 17, 1954.



For Precision Electrical Contacts for Use in Generator Regulators.  
Use since Nov. 11, 1947.



**MR. CONTROLS**

Applicant claims ownership of Reg. Nos. 592,990 and 570,384.

For Valves Operated by an Electromagnet, Electric Switches, Electric Ignition for Fuel Burners.  
Use since Aug. 6, 1953.

SN 677,803. Nik-O-Life Battery Corporation, Indianapolis, Ind. Filed Dec. 6, 1954.

**Nic-I-Lyte**

Applicant claims ownership of Reg. No. 298,011.  
For Wet Storage Batteries.  
Use since May 31, 1949.

SN 678,251. The Peerless Electric Company, Warren, Ohio. Filed Dec. 13, 1954.

**Peerless  
Electric**

Applicant claims ownership of Reg. Nos. 94,027 and 418,528.

For Motors, Fans, and Blowers.  
Use since on or about Apr. 19, 1949.

SN 679,149. General Electric Company, Schenectady, N. Y. Filed Dec. 30, 1954. Sec. 2(f) as to "Trumbull."

**TRUMBULL T ELECTRIC**

Applicant claims ownership of Reg. Nos. 60,741 and 438,417.

For Electrical Apparatus—Namely, Switches, Circuit Breakers, Switchboards, Panelboards, Bus Bar Electricity Distributing Apparatus and Branch Circuit Connecting Devices for Bus Bar Electricity Distributing Apparatus, and Parts Thereof.  
Use since about December 1946.

SN 679,377. Dormeyer Corporation, Chicago, Ill. Filed Jan. 4, 1955. SN 681,511. Gould-National Batteries, Inc., St. Paul, Minn. Filed Feb. 11, 1955.

**COFFEE-WELL**

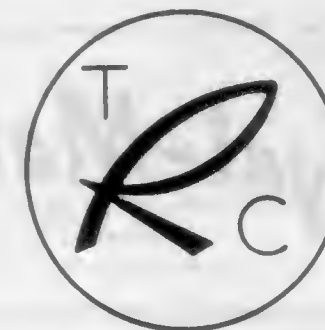
For Electric Coffee Percolators, and Parts Thereof.  
Use since Oct. 1, 1953.

SN 679,682. Reylon Products Company, Chicago, Ill. Filed Jan. 10, 1955.

**RELYON**

For Protective Insulating Sleeves for Luminescent Sign Terminals.  
Use since Oct. 12, 1954.

SN 679,740. The Rofan Company, Topsfield, Mass. Filed Jan. 11, 1955.



For Connectors and Related Hardware for Electrical Devices, Microphones, Antennae, Electrical Wiring Appliances, and Frames and Supports for Electrical Equipment.  
Use since Oct. 8, 1954.

SN 680,198. Laboratory of Electronic Engineering, Inc., Washington, D. C. Filed Jan. 20, 1955.



For High Fidelity Loudspeakers and Enclosures for Electrical Reproduction of Sound.  
Use since on or about Mar. 4, 1954.

SN 680,795. Pye Limited, Cambridge, England. Filed Jan. 31, 1955.

**VISOPHONE**

Applicant claims ownership of British Reg. No. 723,608, dated Nov. 10, 1953.

For Television Receiving Apparatus and Parts Thereof and Television Transmission Apparatus and Parts Thereof.

**Multi-Life**

For Storage Batteries, Electrically Powered Flashlights, and Lanterns.  
Use since Aug. 24, 1954.

SN 681,512. Gould-National Batteries, Inc., St. Paul, Minn. Filed Feb. 11, 1955.

**Multi-Life**

For Storage Batteries.  
Use since Jan. 25, 1955.

SN 681,589. General Motors Corporation, Detroit, Mich. Filed Feb. 14, 1955.

**Frigidaire**

Applicant claims ownership of Reg. Nos. 137,502 and 502,399.  
For Electric Food Waste Disposer Units.  
Use since Nov. 15, 1954.

SN 681,778. Multi-Matic Corporation, Van Nuys, Calif. Filed Feb. 16, 1955.

**GEN-A-MATIC**

For Generators.  
Use since Mar. 15, 1954.

SN 682,082. The Three J's, Inc., New York, N. Y. Filed Feb. 21, 1955.

**Spot-a-Car**

For Colored Electric Signal Light for Use in Identifying a Car in a Group of Cars.  
Use since Oct. 8, 1954.

SN 682,220. Daniel Woodhead Company, Chicago, Ill. Filed Feb. 23, 1955.

**500**

For Handle And Guard for Portable Electric Lamps.  
Use since March 1949.



SN 682,266. W. L. Jackson Manufacturing Company, Inc., Chattanooga, Tenn. Filed Feb. 24, 1955. Sec. 2(f) as to "Jackson."



For Electric Water Heaters and Electric Floor Furnaces. Use since July 1947 on electric water heaters.

SN 682,367. The Ward Products Corporation, Cleveland, Ohio. Filed Feb. 25, 1955.

# Dura-ramic

For Antennas. Use since on or about Feb. 1, 1955.

SN 682,458. The Ohio Advertising Display Company, Cincinnati, Ohio. Filed Feb. 28, 1955.

# MYRIA-LITE

For Animated Electric Signs. Use since Feb. 3, 1955.

SN 682,545. Ebert Electronics Corporation, Queens Village, N. Y. Filed Mar. 1, 1955.

# Micrelay

For Electronic Sensitive Relays. Use since Jan. 3, 1955.

SN 682,563. Julie Comforter Mfg. Corp., Holyoke, Mass. Filed Mar. 1, 1955.

# Electropuff

For Electrically Heated Comforter, Blankets, and Heating Pads. Use since Jan. 10, 1955.

SN 682,671. The Polymer Corporation, Reading, Pa. Filed Mar. 2, 1955.

# FERROTRON

For Magnetic Material Compounded of Metallic Powder and Synthetic Resin. Use since Dec. 14, 1954.

SN 682,962. Modern Telephones (Great Britain) Ltd., London, England. Filed Mar. 7, 1955. Sec. 2(f).

# Modernphone

For Interoffice Telephonic Interconnecting Apparatus. Use since Sept. 19, 1951.

SN 682,967. Mountain States Equipment Company, Denver, Colo. Filed Mar. 7, 1955.

# KITTY-HAWK

For Television Antennas. Use since Nov. 2, 1954.

SN 682,982. Robeson Rochester Corporation, Rochester, N. Y. Filed Mar. 7, 1955.

# Royal-Matic

Applicant claims ownership of Reg. No. 433,496. For Electric Percolators. Use since Jan. 15, 1955.

SN 683,316. Sanders Associates Incorporated, Nashua, N. H. Filed Mar. 11, 1955.

# RELIAPAK

For Groups of Modules or Units Comprising Electrical Insulatory Bases With Electrical Interconnections and Electric Components, Such as Capacitors, Resistors, and Inductors as Used in Unitary Electronic Assemblies Such as Radio Receivers, Radio Transmitters, Computers, Servo Controls, and the Like. Use since Feb. 24, 1955.

SN 683,345. Bobrich Products Corp., New York, N. Y. Filed Mar. 14, 1955.

# Featherwarm

For Electric Blankets. Use since Sept. 1, 1954.

SN 683,378. The Electric Auto-Lite Company, Toledo, Ohio. Filed Mar. 14, 1955. Sec. 2(f).

# AUTO-LITE

Applicant claims ownership of Reg. Nos. 110,818, 344,193, and others. For Electric Lamps for Vehicles and Parts Thereof. Use since June 1914.

## CLASS 22

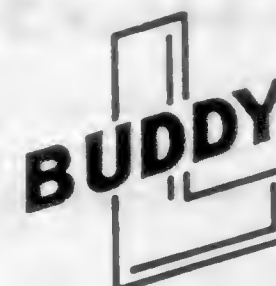
SN 644,191. Roth Schlenger Incorporated, d. b. a. R & S Auto Stores, Newark, N. J. Filed Mar. 25, 1953.



The words "Auto Stores" are disclaimed apart from the mark as shown.

For Toys—Namely, Toy Wagons, Scooters, Snow Sleds, Toy Toolboxes and Tools, Educational Toys, Velocipedes, Side-walk Bicycles, Toy Aeroplanes, Toy Animals, Toy Boats, Dolls and Doll Carriages, Toy Trains and Railroad Equipment; Games—Namely, Puzzles, and Games of Chance and Games of Skill; Sporting Goods—Namely, Equipment for Bowling Consisting of Bowling Balls and Pins, Archery Consisting of Bows, Arrows, and Targets, Fishing Consisting of Artificial Bait, Rods, and Tackle, Boxing Consisting of Boxing Gloves, and Equipment for Playing Baseball Consisting of Padded Baseball Gloves and Mitts, Baseballs, and Bats, Basketball Consisting of Basketball Baskets and Basketballs, Football Consisting of Footballs, Football Helmets, Football Shoulder Pads, and Football Body Pads, Golf Consisting of Clubs and Golf Balls, Tennis Consisting of Rackets and Tennis Balls, Croquet Consisting of Wickets, Balls, and Mallets, and Volleyball Consisting of Volleyballs. Use since July 1, 1919, on snow sleds.

SN 652,468. Moline Pressed Steel Corporation, East Moline, Ill. Filed Aug. 28, 1953.



For Toy Vehicles—Namely, Trucks, Trains, Steam Shovels, Derricks, Sand Loaders, Dredgers, and Similar Types of Vehicles. Use since 1921.

SN 656,514. Louis Marx & Company, Inc., New York, N. Y. Filed Nov. 17, 1953.

# "POCKETOY"

For Toy Vehicles, Specifically, Toy Fire Engines, Police Cars, Sanitation Trucks, Moving Vans, Delivery Trucks, Tractors, Locomotives, Oil Tank Trucks, Dump Trucks, Coal Trucks, Wrecker Trucks, Lumber Trucks, Concrete Mixer Trucks, Cabin Cruisers, Taxicabs, Sports Cars, Sedans, Coupes, and Airplanes. Use since Oct. 30, 1953.

SN 657,702. L. M. Eddy Manufacturing Co., Inc., Framingham, Mass. Filed Dec. 9, 1953.

# PLAIN CLOTHESMAN

For Toy Holsters and Toy Pistol and Toy Holster Sets. Use since Oct. 16, 1953.

TM 696 O. G.—19

SN 658,009. Jane-Art Inc., Elmhurst, N. Y. Filed Dec. 15, 1953.



For Children's Toy Cosmetic Kits Simulating Adult Cosmetic Kits. Use since Aug. 15, 1953.

SN 658,406. Alexander Miner Manufacturing Corp., New York, N. Y. Filed Dec. 22, 1953.

# Little Mother

For Miniature Toy Diaper Bag Set. Use since October 1952.

SN 658,577. Joseph F. Chamberlin, d. b. a. Chamberlin Metal Products, Kiddle Kart Manufacturing Co., Golf Cart Supply Co., and Klub Kart Mfg. Co., Chicago, Ill. Filed Dec. 28, 1953.

# Bag Bus

For Hand-Propelled Carts Used by Golfers to Carry Golf Bags and Clubs. Use since Jan. 1, 1943.

SN 659,531. Comet Model Hobbycraft, Inc., Chicago, Ill. Filed Jan. 15, 1954.

# Flash-Bilt

For Model Airplane Kits and Parts Thereof for Assembly Into Model Airplanes for Use as a Hobby. Use since December 3, 1953.

SN 660,017. Gulf Coast Manufacturing Company, Inc., Houston, Tex. Filed Jan. 25, 1954.

# SLOTS-O-FUN

For Educational Toy of the Question and Answer Game Type. Use since Sept. 17, 1953.

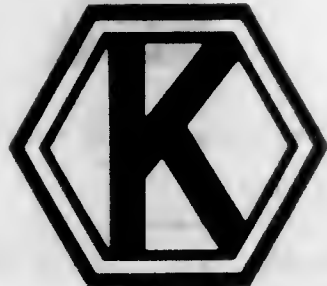


SN 662,676. Hank Roberts, Inc., Boulder, Colo. Filed Mar. 15, 1954. SN 667,881. James Heddon's Sons, Dowagiac, Mich. Filed June 8, 1954. Sec. 2(f).

# Tru-Fly

For Artificial Fishing Flies.  
Use since Aug. 9, 1953.

SN 663,666. Kraft Foods Company, Chicago, Ill. Filed Mar. 31, 1954.



Applicant claims ownership of Reg. No. 241,112.  
For Wheeled Toy Designed to Represent a Television Camera, Carriage, and Operator.  
Use since Sept. 18, 1953.

SN 664,209. Prescott H. Blatterman, Jr., d. b. a. The Prestaloy Company, New Rochelle, N. Y. Filed Apr. 9, 1954.

## LITTLE MISS MODEL

For Toy Hat Box Including Toy Accessories To Be Played With by a Little Girl—Namely, Earrings, Choker, Posies, a Bonnet, Comb, Mirror, Net Stole and Wristlets, and a Photograph Album.  
Use since Jan. 6, 1954.

SN 665,005. The Barr Rubber Products Company, Sandusky, Ohio. Filed Apr. 22, 1954.



For Gas-Inflated Children's Rubber Play Balls.  
Use since Feb. 1, 1941.

SN 666,562. Wright & McGill Co., Denver, Colo. Filed May 17, 1954. Sec. 2(f).

# WRIGHT AND MCGILL Granger

For Fishing Rods.  
Use since on or about Oct. 1, 1946.

"HEDDON MADE IS WELL MADE"

Applicant claims ownership of Reg. No. 507,483.  
For Fishing Tackle—Viz., Rods, Reels, and Artificial Lures.  
Use since January 1924.

SN 668,425. The American Pad & Textile Co., Greenfield, Ohio. Filed June 18, 1954.

## Ta-pat-co WATER SKIPPER

Applicant claims ownership of Reg. Nos. 309,727 and 321,255.  
For Life Saving Vests.  
Use since on or about Apr. 7, 1954.

SN 668,738. The Embossing Company, Albany, N. Y. Filed June 23, 1954.



For Domino Game.  
Use since May 10, 1954.

SN 669,683. Fritz Heinrich Gehri, Bern, Switzerland. Filed July 9, 1954.



Applicant claims ownership of Swiss Reg. No. 1,978, dated June 1, 1954.  
For Wall Attached Exercising Apparatus Composed of Pull Ropes and Springs.

SN 671,608. Tip-Top Products Company, Omaha, Nebr. Filed Aug. 12, 1954. SN 676,270. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

# Little Miss

For Child's Toy Kit, Comprising a Child's Purse Including a Child's Hair Accessory Therein.  
Use since Oct. 9, 1952.

SN 675,814. Net Machine, Inc., Jackson Center, Ohio. Filed Nov. 1, 1954.

# Dura-Flote

For Live Bait Nets, Fish Landing Nets, Live Fish Bags, Fish Hooks, Golf Carts, Fishing Rods and Reels, Fishing Lures, Fishing Lines, Gaff Hooks, Fish Holders, Fish Scales, Fishing Sinkers, Fish Spears, Fishing Floats and Bobbers.  
Use since January 1950.

SN 676,259. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## EXECUTIVE

For Fishing Rods.  
Use since Aug. 1, 1954.

SN 676,260. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## FLY - SPIN

For Fishing Rods.  
Use since Aug. 1, 1954.

SN 676,264. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## MOOCHER

For Fishing Rods.  
Use since Aug. 1, 1954.

SN 676,266. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## PENNANT

For Fishing Rods.  
Use since Aug. 1, 1926.

SN 676,267. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## PIER

For Fishing Rods.  
Use since Aug. 1, 1953.

## SALT AIR

For Fishing Rods.  
Use since Aug. 1, 1954.

SN 676,272. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## SPINNAKER

For Fishing Rods.  
Use since Aug. 1, 1954.

SN 676,274. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## STAR MAKER

For Golf Shafts.  
Use since Sept. 30, 1954.

SN 676,277. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## TROPHY

For Fishing Rods.  
Use since Aug. 1, 1926.

SN 676,278. True Temper Corporation, Cleveland, Ohio. Filed Nov. 8, 1954.

## TRU - SPIN

For Fishing Rods.  
Use since Aug. 1, 1953.

SN 676,593. The Brunswick-Balke-Collender Company, Chicago, Ill. Filed Nov. 15, 1954.

## FIREBALL

For Bowling Balls.  
Use since Aug. 23, 1954.

SN 677,422. Latco, Inc., Los Angeles, Calif. Filed Nov. 29, 1954.

# Ruf Rider

For Toy Cap Repeater Pistol.  
Use since May 24, 1954.



SN 678,346. A. G. Spalding & Bros. Inc., Chicopee, Mass. Filed Dec. 14, 1954.

*Panel-Lock*

For Basketballs.  
Use since Sept. 8, 1954.

SN 678,681. A. M. Starr Net Co., Inc., East Hampton, Conn. Filed Dec. 20, 1954.

**STARRLOCK**

For Fishing Nets.  
Use since May 1, 1952.

SN 678,781. Irving A. Gladstone, New York, N. Y. Filed Dec. 22, 1954.

**FUN + DAMENTALS**

For Educational Card Games.  
Use since Dec. 6, 1954.

SN 678,931. J. Swedlin, Inc., New York, N. Y. Filed Dec. 24, 1954.

*TWEAK  
in  
SQUEAK*

For Stuffed Toys in Simulation of Animals.  
Use since Dec. 16, 1954.

#### CLASS 23

SN 656,273. Louis W. Woolfolk, d. b. a. Steel Products Company, Cedar Rapids, Iowa. Filed Nov. 12, 1953.

**E-ZWAY**

For Electrically Operated Vending Machine for Dispensing Ready-Made Coffee and Cream.  
Use since Nov. 16, 1949.

SN 657,534. The Ingersoll Milling Machine Company, Rockford, Ill. Filed Dec. 7, 1953.

**MICRO MILL**

For Milling and Boring Cutters.  
Use since January 1953.

SN 661,616. Consolidated Sewing Machine Corp., New York, N. Y. Filed Feb. 25, 1954.

**SEWBEST**

For Sewing Machines and Parts Thereof and Attachments Thereof.  
Use since on or about Oct. 1, 1952.

SN 663,302. Clarence B. Pletcher, d. b. a. Hydro-Silica Manufacturers, Buchanan, Mich. Filed Mar. 25, 1954.

*HYDRO  
Air*

For Blast Guns and Nozzles Used in the Cleaning of Buildings.  
Use since January 1939.

SN 670,569. Gordon Johnson Company, Kansas City, Mo. Filed July 26, 1954.

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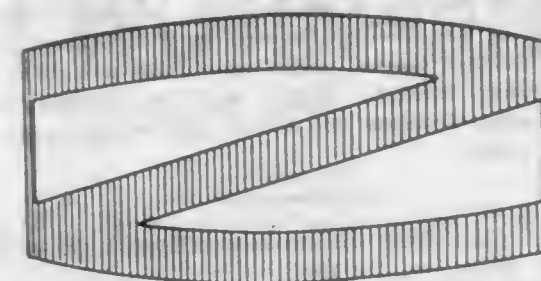
For Electrical Fluid Circulating Pumps and Parts Thereof Sold as Such.  
Use since May 1, 1954.

SN 677,016. Valley Equipment Corp., Saddle River, N. J. Filed Nov. 19, 1954.

**cV<sup>E</sup>o**

For Material Handling Equipment, More Particularly Clamshell Buckets, Shovel Dipper Buckets, Pull Shovel

SN 648,978. Frank G. Back, d. b. a. Research and Development Laboratory, Glen Cove, N. Y., to Zoomar, Inc., Glen Cove, N. Y. Filed June 18, 1953.



The lining is for red.

For Optical Precision Instruments—Namely, Lenses, for Still, and Motion-Picture and Television Purposes, Cameras, Viewfinders, and Other Photographic Devices and Optical Instruments, Such as the "Opticometer," a Device for Evaluating the Performance of Lenses; the "T Stop Calibrator," a Device for Measuring the Light Transmission of Optical Lenses; Cameras, Lenses, Electronic Measuring and Testing Equipment for the Study, Identification, and Analysis of Optical or Observable Factors in Optical, Photographic, Physical, and Chemical Research and Development Work; for the Establishment and Maintenance of Standards in Research and Development work in Chemistry, Physics, Optics, and Allied Fields, and for the Establishment of, and Maintenance of Standards in Optical Devices, and in the Fields of Photography and Television, Such as Nephelometers, Spectrometers, Spectrophotometers, Camera Lenses for Special Cameras, Photographic and Television Objectives, Refractometers and Polarimeters.

Use since on or about Aug. 15, 1952.

SN 677,283. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Nov. 26, 1954.

**MAGIC-GRIP**

Applicant claims ownership of Reg. No. 410,209.  
For Power Transmitting Shaft Couplings.  
Use since Feb. 10, 1950.

SN 677,463. Walde Kohinoor, Inc., Long Island City, N. Y. Filed Nov. 29, 1954.

**CRESCENT**

For Retaining Rings for Locking, Securing, or Positioning Moving Parts Such as Shafts, Gears, Bearings, and the Like.  
Use since June 1945.

SN 678,830. Viking Pump Company, Cedar Falls, Iowa. Filed Dec. 22, 1954.

**VIKING  
RE-NU-IT**

Applicant claims ownership of Reg. Nos. 108,409, 517,348, and others.  
For Pumps.  
Use since Sept. 16, 1954.

#### CLASS 26

SN 648,165. Federal Telecommunication Laboratories, a division of International Telephone and Telegraph Corporation, Nutley, N. J. Filed June 3, 1953.

**FTL**

For Slotted Transmission Line for Making Electrical Measurements, Impedometers, T. V. Dummy Antennas, Oscilloscopes, Apparatus for Testing Arc Resistance of Circuits and Components, Direction Finding Apparatus—Namely, Airport Radio Direction Finders for Determining Direction to Aircraft Which Signal the Airport Tower, High Frequency Direction Finders (2-10 Megacycles).  
Use since on about July 1, 1950.

SN 648,777. Arthur P. Neyhart, d. b. a. Neyhart Enterprises, Manhattan Beach, Calif. Filed June 15, 1953.

*Automax*

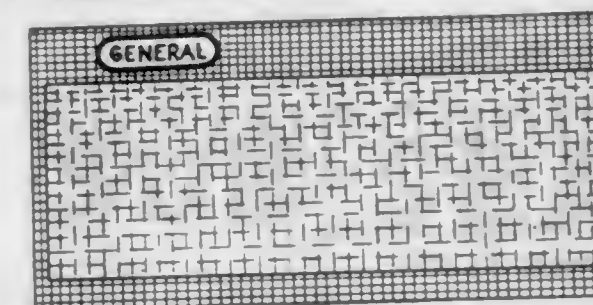
For Cameras for Use in Research Laboratories in the Testing of Aircraft, Etc.  
Use since on or about December 1950.

SN 651,017. Ray C. Sparling Company, Incorporated, El Monte, Calif., now by change of name Masterflo Meter Company. Filed July 28, 1953.

*Masterflo*

For Water Meters and Regulating, Control, and Recording Equipment for Use in Conjunction Therewith, Said Regulating and Control Equipment Comprising Valves of the Type Known as Rate of Flow Controllers, Said Recording Equipment Comprising a Recording Instrument for Giving a Graphical Record of the Meter Indications and Which Instrument May Be Operated Either Mechanically or Electrically From the Meter and Recording Instruments Which May Be Used Remotely From the Meter, Such as Standard Water Stage Recorders of the Type Used for Measuring the Height of Water or Other Liquids.  
Use since July 14, 1952.

SN 655,054. General Hardware Mfg. Co., Inc., New York, N. Y. Filed Oct. 20, 1953.



The drawing is lined for yellow and black. The yellow band is disclaimed apart from the mark. Applicant claims ownership of Reg. Nos. 509,227 and 518,682.

For Angle Dividers, Callipers, Compasses, Drill Gages in the Form of a Plate, Drill Gages in the Form of a Stand, Auger Bit Depth Gages, Butt Gages, Center Gages, Depth and Angle Gages, Depth Gages, Drill and Wire Gages, Marking and Mortising Gages, Multi-Use Rule and Gage, Radius Gages, Telescoping Gages, Wire and Metal Gages, Wire and Screw Gages, Plumb Bobs, Plumb and Level, Protractors, Carpenter's Square, Machinist's Reference Tables, and Straight Edges, Rules, Folding Rules, Squares and Mitres.



T-Bevels, Trammels, Vernier Calipers, V-Blocks and Clamps, Wigglers and Center Finders of the Type Comprising a Ball Joint, the Socket of Which is at the End of a Shank, While a Pointed Drill Rod Pin Extends From the Ball Component; Said Shank, in Use Being Mounted in a Rotating Chuck of a Machine, Surface Gages, Adjustable Parallels, Hole Gages, Dial Indicators, Straight Edges and Special Scale Rulers, Drill Tip Gages, Squares and Circle Dividers.  
Use since 1950.

SN 658,563. Carl Zeiss, Heldenheim (Brenz), Wurttemberg, Germany. Filed Dec. 24, 1953.

## UMBRALE

Applicant claims ownership of German Reg. No. 165,268, dated Oct. 14, 1912.

For Lenses, Eye-Glasses, Magnifying Glasses, Reading Glasses, Spectacles, Spectacle Glasses, Magnifying Lens Spectacles; Scientific Instruments—Namely, Microscopes, Microscope Objectives, Microscope Condensers, Microscope Lamps, Refractometers, Photometers, Spectrometers, Colorimeters, Ophthalmometers, Slit Lamps, Perimeters, Photographic Cameras, Projectors, and Enlargers, Air Photographic Apparatus, Apparatus for Plotting From Air-Photographs, and View Finders for Surgical Purposes.

SN 662,756. Pipeline Inspection Company, Inc., Kansas City, Mo. Filed Mar. 16, 1954.

**spi**

For Electric Device Known as a "Holiday Detector" Used To Locate Imperfections in Pipeline Coatings.

Use since July 24, 1952.

Subj. to Intf. with SN 668,127.

SN 665,158. Whiting & Davis Company, Plainville, Mass. Filed Apr. 23, 1954.

## OROMESH

Applicant claims ownership of Reg. No. 595,035.  
For Handbag Accessories—Namely, Eyeglass Cases Made Partly or Wholly of Mesh.  
Use since Sept. 22, 1952.

SN 667,334. The Perkin-Elmer Corporation, Norwalk, Conn. Filed May 28, 1954.

## BICHROMATOR

For Gas and Liquid Analyzers.  
Use since Mar. 24, 1953.

SN 669,688. Intelligent Machines Research Corporation, Arlington, Va. Filed July 9, 1954.

## ANALYZING READER

For Electronic Apparatus Arranged to Sense Printed Characters, Punched Openings and the Like and to Recognize the Identity of Particular Characters or Other Intelligence-Bearing Items Passing Before the Sensing Means To Reproduce the Items in Various Forms of Coding.  
Use since June 3, 1952.

SN 670,152. Bailey Meter Company, Cleveland, Ohio. Filed July 19, 1954. Sec. 2(f).

## BAILEY BOILER METER

Without waiving any common law rights therein, no claim is made to the words "Boiler Meter" except as a part of the mark as shown. Applicant claims ownership of Reg. Nos. 374,046 and 516,791.

For Operational Performance Guides for Vapor Power Plants.  
Use since December 1913.

SN 676,770. Teleprompter Corporation, New York, N. Y. Filed Nov. 16, 1954.

**TELLENS**

For Periscopes, and Parts Thereof.  
Use since Sept. 24, 1954.

SN 677,238. John H. Morris, Baltimore, Md. Filed Nov. 24, 1954.

## WINNERATER

For Chart With Movable Parts for Showing the Value of Cards Dealt in Certain Card Games.  
Use since Sept. 1, 1954.

SN 678,370. Burrell Corporation, Pittsburgh, Pa. Filed Dec. 15, 1954.

## FRACTION

For Apparatus for the Analysis of Light Hydrocarbons.  
Use since on or about May 1, 1953.

SN 678,386. Bernard M. Frank, Holliswood, N. Y. Filed Dec. 15, 1954.

**SILENT  
HOPPER**

For Rotatable Disc Device for Calculating the Price of Commodities.  
Use since October 1954.

SN 678,552. Projection Optics Company, Inc., Rochester, N. Y. Filed Dec. 17, 1954.

**HILUX-  
VAL**

For Projection Lenses, Lens Assemblies, and Projection Screens.  
Use since July 16, 1954.

SN 678,838. Atlas Supply Company, Newark, N. J. Filed Dec. 23, 1954. SN 667,958. Juvenia Watch Agency, Inc., New York, N. Y. Filed June 9, 1954.

## ATLAS

Applicant claims ownership of Reg. Nos. 261,088 and 332,120.

For Tire Tread Gauges for Determining the Anti-Skid Depth of Treads for Automobile Tires.  
Use since 1941.

SN 678,906. Eugene Dietzgen Co., Chicago, Ill. Filed Dec. 24, 1954.

## Site-Rite

For Surveying Devices—Namely, Range Poles.  
Use since on or about July 1, 1954.

SN 679,190. Societe Francaise Radio-Electrique, Paris, France. Filed Dec. 30, 1954.



Applicant claims ownership of French Reg. No. 365,274, dated Mar. 26, 1946.

For Apparatus for Radio Direction Finding and Radio Direction Signalling and Apparatus for Transmission and Reception of Radio Electric Oscillations; Apparatus for Sounding; Apparatus for Measuring—Namely, Oscilloscopes, Oscillographs, Iconoscopes; Computers; Distance Altitude and Bearing Indicators; Radar Apparatus.

SN 679,313. Niles-Bement-Pond Company, West Hartford, Conn. Filed Jan. 3, 1955.

## SIGMATIC

For Gages and Gaging Equipment.  
Use since Dec. 10, 1954.

SN 679,372. Eugene Dietzgen Co., Chicago, Ill. Filed Jan. 4, 1955.

## MICRO-LINE

For Surveying Equipment—Namely, Leveling Rods.  
Use since on or about Mar. 1, 1954.

### CLASS 27

SN 666,584. Robert Larsen, New York, N. Y. Filed May 18, 1954.

## PERMOTONE

For Watch Movements, Watch Mainsprings, Watch Hairsprings, Watch Hands, and Other Watch Parts.  
Use since Apr. 29, 1954.

## TWO-IN-ONE

For Watches, and Watch Cases.  
Use since May 17, 1954.

SN 675,125. Benrus Watch Company, Inc., New York, N. Y. Filed Oct. 20, 1954.

## SPORT QUEEN

For Watches.  
Use since Jan. 21, 1950.

SN 675,126. Benrus Watch Company, Inc., New York, N. Y. Filed Oct. 20, 1954.

## SPORT KING

For Watches.  
Use since Sept. 15, 1927.

SN 680,180. Chesterfield Jewelers, Inc., New York, N. Y. Filed Jan. 20, 1955.

## JEAN SYBE

For Watches, and Parts Thereof.  
Use since Dec. 17, 1954.

SN 681,158. Dean R. Gibbs, d. b. a. Gibbs Jewelry, Palmyra, Mo. Filed Feb. 7, 1955.



Exclusive use of the word "Watch" is disclaimed except in connection with the mark as shown.

For Watches.  
Use since Dec. 18, 1954.

SN 681,241. Abercrombie & Fitch Company, New York, N. Y. Filed Feb. 8, 1955.

## SUB-SEA

For Watches.  
Use since Nov. 29, 1954.

SN 681,335. Badische Uhrenfabrik G. m. b. H., Furtwangen (Schwarzwald), Germany. Filed Feb. 9, 1955.

## BADUFA

Applicant claims ownership of German Reg. No. 655,931, dated Apr. 3, 1954.  
For Watches, Clocks, and Parts Thereof.



SN 681,484. Benrus Watch Company, Inc., New York, N. Y. Filed Feb. 11, 1955.

# AUTOTHIN

For Wrist Watches.  
Use since Dec. 24, 1954.

SN 681,972. Alanjack Inc., New York, N. Y. Filed Feb. 21, 1955.

# BOUQUET

For Watches.  
Use since Jan. 1, 1954.

## CLASS 28

SN 664,689. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Apr. 16, 1954.

# SOUTH SEA

For Pearl Jewelry—Namely, Necklaces, Bracelets, Earrings, and Brooches.  
Use since January 1954.

SN 675,068. Gemex Company, Union, N. J. Filed Oct. 19, 1954.

# TOLEDO

For Bracelets and Watch Bracelets and Watch Straps.  
Use since June 22, 1954.

SN 677,058. Julius Gotbeter, d. b. a. Class Watch Strap Company, New York, N. Y. Filed Nov. 22, 1954.

# Class

For Leather Watch Straps.  
Use since Jan. 30, 1952.

SN 677,278. Production and Marketing Company, Newtown, Conn. Filed Nov. 24, 1954.

$$\begin{array}{c} J_6 \\ S_1 | C_3 | R_1 | A_1 | B_3 | B_3 | L_1 \\ \hline E_1 \\ \hline W_4 \\ \hline E_1 \\ \hline L_1 \\ \hline R_1 \\ \hline Y_4 \end{array}$$

No claim is made to the word "Jewelry" apart from the mark as shown. Applicant claims ownership of Reg. No. 524,505.

For Jewelry—Namely, Cuff-Links and Tie Clasps.  
Use since Dec. 1, 1948.

SN 679,457. Coro, Inc., New York, N. Y. Filed Jan. 5, 1955.

# Twin Tones

For Charm Bracelets, Charms, Necklaces, Bracelets, Earrings, Jewelry Clips, Brooches, Locketts, Pearl Bracelets, Pearl Necklaces, Pearl Earrings, Pearl Brooches, Pearl Locketts, Pearl Jewelry Clips, and the Following Goods Made in Whole or in Part of Precious Metals or Plated With the Same: Beads, Pins, Hat Ornaments, and Jewelry Initials.  
Use since Dec. 1, 1954.

SN 680,518. Coro, Inc., New York, N. Y. Filed Jan. 26, 1955.

# COURT JESTER

For Necklaces, Bracelets, Earrings, Jewelry Clips, Brooches, Charm Bracelets, Charms, Locketts, Pearl Bracelets, Pearl Necklaces, Pearl Earrings, Pearl Brooches, Pearl Locketts, Pearl Jewelry Clips, and the Following Goods Made in Whole or in Part of Precious Metals or Plated With the Same: Beads, Pins, Hat Ornaments, Tiaras, and Jewelry Initials.  
Use since Jan. 19, 1955.

SN 681,490. Garabet V. Chmichirian, d. b. a. Venetian Arts Importing Co., New York, N. Y. Filed Feb. 11, 1955.

# VAICO

For Costume Jewelry—Namely, Necklaces, Bracelets, and Earrings.  
Use since November 1954.

## CLASS 29

SN 674,126. Atlas Supply Company, Newark, N. J. Filed Oct. 1, 1954.

# ATLAS

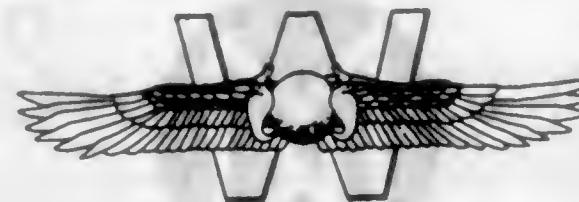
Applicant claims ownership of Reg. Nos. 295,109, 334,418 and others.  
For Car Wash Mitt.  
Use since Sept. 17, 1954.

SN 678,449. Hancock Corporation, Philadelphia, Pa. Filed Dec. 16, 1954.

# Quickie

For Mops.  
Use since Aug. 16, 1948.

SN 659,960. Worthington Corporation, Harrison, N. J. Filed Jan. 22, 1954.



Applicant claims ownership of Reg. Nos. 153,081, 578,384, and others.  
For Reciprocating Compressors, Centrifugal Compressors, Condensers, Coolers, Heat Exchangers, Shower Condensers, All for Use in Air Cooling and Conditioning Units and Systems, and on Self-Contained Air Conditioning Units.  
Use since December 1934.

SN 659,966. Worthington Corporation, Harrison, N. J. Filed Jan. 22, 1954.



Applicant claims ownership of Reg. Nos. 153,130, 578,384, and others.  
For Reciprocating Compressors, Centrifugal Compressors, Condensers, Coolers, Heat Exchangers, Shower Condensers, All for Use in Air Cooling and Conditioning Units and Systems, and on Self-Contained Air Conditioning Units.  
Use since December 1934 on Reciprocating Compressors, Condensers, Coolers, Heat Exchangers, and Shower Condensers.

SN 667,407. La Motte Chemical Products Company, Towson, Md. Filed June 1, 1954.



For Portable Water Demineralizers.  
Use since October 1953.

SN 673,368. Milk Bottle Crate Company, Chicago, Ill. Filed Sept. 17, 1954.

# DUST-magnet

For Air Filters in the Form of a Screen Comprising One or More Layers of Synthetic Sheet Material Having Air-Flow Passages Therethrough.  
Use since Aug. 23, 1954.

SN 679,552. Edward W. Bottum, d. b. a. Refrigeration Research, Brighton, Mich. Filed Jan. 7, 1955.

# MICROGLAS

For Sintered Glass Filters Used With Driers and Dehumidifying Apparatus Placed in Refrigerating Systems.  
Use since Oct. 13, 1954.

SN 679,573. Grease-Miser, Miami, Fla. Filed Jan. 7, 1955.

# GREASE-MISER

For Cooking Grease Filters and Filtering Elements.  
Use since Nov. 13, 1954.

## CLASS 32

SN 675,565. Lawrence J. Hogan, Jr., d. b. a. The Indraline, Chicago, Ill. Filed Oct. 27, 1954.

# INDRALINE

For Supporting Legs Adapted To Be Attached to Furniture.  
Use since May 25, 1953.

SN 678,773. Douglas Furniture Corporation, Chicago, Ill. Filed Dec. 22, 1954.

# BRIAR

For Kitchen and Dinette Tables and Chairs.  
Use since Sept. 8, 1954.

SN 678,775. Douglas Furniture Corporation, Chicago, Ill. Filed Dec. 22, 1954.

# ONYX

For Kitchen and Dinette Tables and Chairs.  
Use since Aug. 18, 1954.

SN 678,848. The Eastern Venetian Blind Company, Baltimore, Md. Filed Dec. 28, 1954.

# Easterner

For Venetian Blinds.  
Use since September 1949.

SN 679,206. The Bruce Furniture Manufacturing Co., Cleveland, Ohio. Filed Dec. 31, 1954.

# KrolAn

For Upholstered Chairs, Sofas, Love-Seats, and Dual-Upholstered Furniture.  
Use since Dec. 27, 1954.



## CLASS 33

SN 671,315. Empire Crafts Corporation, Newark, N. J. Filed Aug. 9, 1954.

# RINGUARD

For Glass Dinnerware.  
Use since June 7, 1954.

## CLASS 34

SN 642,129. Devenco Incorporated, New York, N. Y. Filed Feb. 12, 1953.

# Swing

For Pulse-Jet Combustion Apparatus—Namely, Heating Units and Components Thereof, Adapted for Use in Vehicles for Motor Pre-Heating, Interior Heating, and Like Purposes.  
Use since May 6, 1952.

SN 647,133. Affiliated Gas Equipment, Inc., Monrovia, Calif. Filed May 18, 1953.

# JET GLAS

For Gas Water Heaters and Forced Air Furnaces.  
Use since Mar. 9, 1953.

SN 647,135. Affiliated Gas Equipment, Inc., Monrovia, Calif. Filed May 18, 1953.



The term "Protected" is disclaimed apart from the mark as shown.

For Gas Water Heaters and Forced Air Furnaces.  
Use since Mar. 9, 1953.

SN 662,537. J. E. Hagan, Jefferson City, Mo. Filed Mar. 12, 1954.

# WHIRLAWAY LOADER

For Air Blast Grain and Bulk Loader.  
Use since 1945.

SN 664,340. Minikay G. m. b. H. für Entfeuchtung und Trockenhaltung, Hamburg, Germany. Filed Apr. 12, 1954.



Applicant claims ownership of German Reg. No. 645,400, dated Oct. 2, 1953.

For Systems for Circulating Drying Air Through the Insulating Material of Walls, Floors, and Ceilings of Insulated Rooms to Dehumidify and/or Dehydrate the Same.

SN 670,110. Industrial Sound Control, Inc., Hartford, Conn. Filed July 16, 1954.

# Aircoustat

For Sound Trap for Use in Air-Conditioning Systems.  
Use since May 15, 1954.

SN 672,987. Vapor Heating Corporation, Chicago, Ill. Filed Sept. 9, 1954.

# MODULATIC

For Gas and Oil Fired Automatic Steam Generators of the Coiled Water Tube Type.  
Use since Aug. 2, 1954.

SN 673,100. Hollywood Water Heater Co., Los Angeles, Calif. Filed Sept. 13, 1954.

# Hollymatic

For Automatic Water Heaters, Home Heating Appliances, and Cooking Ranges With Oven and Broiler Attached or Detached.

Use since Aug. 12, 1954.

SN 679,264. American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Filed Jan. 3, 1955.

# WHEELABRATOR

Applicant claims ownership of Reg. No. 306,045.  
For Dust Collectors.  
Use since Dec. 1, 1954.

SN 679,357. Victory Metal Manufacturing Co., d. b. a. Victory Metal Manufacturing Corp., Plymouth Meeting, Pa. Filed Jan. 3, 1955.

# Sno-Queen

For Air Conditioning Units, Ventilating Systems, and Accessories and Parts Thereof.  
Use since on or about May 1, 1949.

SN 679,362. Victory Metal Manufacturing Co., d. b. a. Victory Metal Manufacturing Corp., Plymouth Meeting, Pa. Filed Jan. 3, 1955.



For Air Conditioning Units, Ventilating Systems, and Accessories and Parts Thereof.  
Use since on or about May 1, 1949.

SN 679,532. Nelson Electric Manufacturing Company, d. b. a. Nemco Foundry, Tulsa, Okla. Filed Jan. 6, 1955.

# LITTLE CHEF

For Portable Barbecue Grill Units.  
Use since Nov. 24, 1954.

SN 679,566. Joseph M. Downing, d. b. a. Downing Steel Products, Dayton, Ohio. Filed Jan. 7, 1955.



For Gas Conversion Burners.  
Use since Sept. 17, 1954.

## CLASS 35

SN 659,021. Hans Ziller, d. b. a. Ziller & Co., Duesseldorf, Germany. Filed Jan. 5, 1954.



Applicant claims ownership of German Reg. No. 602,070, dated Oct. 25, 1950.  
For Sealing Rings and Sealing Discs for Antifriction Bearings.

SN 678,995. Julius Levenson & Company, New York, N. Y. Filed Dec. 27, 1954.



For Bicycle Tires and Tubes.  
Use since Feb. 15, 1954.

## CLASS 36

SN 660,992. Alma Records, Inc., Los Angeles, Calif. Filed Feb. 12, 1954.



For Grooved Phonograph Records.  
Use since June 25, 1953.

SN 679,499. Slingerland Drum Co., Chicago, Ill. Filed Jan. 5, 1955. Sec. 2(f).

# SLINGERLAND

For Drums, Tympanies, and Drum Accessories.  
Use since 1927.

## CLASS 37

SN 645,702. Eugene Dietzgen Co., Chicago, Ill. Filed Apr. 22, 1953.

# PERMA-SCALE

For Drafting Materials and Supplies—Namely, Sheet Material for Drawing, Tracing, and Scribing Purposes.  
Use since on or about Sept. 1, 1951.

SN 649,857. J. W. Zanders Feinpapierfabrik Gesellschaft mit beschränkter Haftung, Bergisch Gladbach, Germany. Filed July 3, 1953.

# Elephant Hide

Applicant claims ownership of German Reg. No. 635,731, dated Mar. 13, 1953.

For Parchmentlike Paper and Paperboards for Book-Binding Purposes.

SN 658,026. W. A. Sheaffer Pen Company, Fort Madison, Iowa. Filed Dec. 15, 1953.

# TIPdip

For Fountain Pens.  
Use since October 29, 1953.



SN 658,720. Groveton Papers Co., Groveton, N. H. Filed Dec. 29, 1953. SN 663,930. The Meehan-Tooker Company, Inc., New York, N. Y. Filed Apr. 5, 1954.

# Homestead

Applicant claims ownership of mark shown in expired Reg. No. 271,258.  
For Waxed Paper, Paper Napkins.  
Use since October 1933.

SN 661,707. George E. Herwitt, d. b. a. Printhouse Co., Hackensack, N. J. Filed Feb. 26, 1954.

# Ever-Snap

For Manifold, Multi-Carbon Business Forms.  
Use since on or about Jan. 4, 1954.

SN 661,908. The Risdon Manufacturing Company, Naugatuck, Conn. Filed Mar. 2, 1954.

# CHEVRON

For Ball Point Pens.  
Use since Jan. 25, 1954.

SN 662,223. Raymond G. Haskins, Canton, Ohio. Filed Mar. 8, 1954.

# nu - RA

For Paper File Folders.  
Use since Jan. 24, 1954.

SN 662,538. W. C. Hamilton & Sons, Miquon, Pa. Filed Mar. 12, 1954. Sec. 2(f) as to "Hamilton."

# HAMILTON CAROUSEL

Applicant claims ownership of Reg. No. 591,180.  
For Text and Cover Paper.  
Use since Oct. 19, 1953.

# METCO

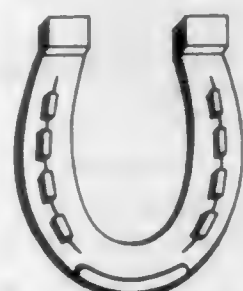
For Offset Printing Paper.  
Use since Feb. 2, 1954.

SN 664,678. LeFebure Corporation, Cedar Rapids, Iowa. Filed Apr. 16, 1954.

# PERMA-CARD

The word "Card" is disclaimed apart from the mark.  
For Record Cards.  
Use since Feb. 16, 1954.

SN 665,174. Arnold Forms & Supply Co., Cleveland, Ohio. Filed Apr. 26, 1954.



# AFSCO

For Snap Sets, Register Forms, Continuous Forms, Sales Books, Letterheads and Envelopes Therefor, and Printed Office Supply Forms.  
Use since January 1952.

SN 666,321. Yorkville Paper Co. Inc., New York, N. Y. Filed May 13, 1954.

# ARCTIC-WRAP

For Wrapping Paper for Comestibles.  
Use since September 1947.

SN 668,023. Curtis 1000, Incorporated, St. Paul, Minn. Filed June 10, 1954.

# Duo-SEAL

For Mailing Envelopes of Paper.  
Use since May 21, 1954.

SN 671,487. Milton Bradley Company, Springfield, Mass. Filed Aug. 11, 1954.

# BROOKLYNE

Applicant claims ownership of expired Reg. No. 286,190.  
For Crayons.  
Use since Apr. 2, 1931.

SN 682,156. Kimberly-Clark Corporation, Neenah, Wis. Filed Feb. 23, 1955. SN 680,877. P. R. Features, Inc., New York, N. Y. Filed Feb. 1, 1955.



Although in the drawing the emblem is lighter than the background, in the use of the mark, the emblem and background appear in many different shades and colors.  
For Blank Paper, Wrapping Paper, Wallpaper, and All-Purpose Paper Tissues.  
Use since July 22, 1954, on all-purpose paper tissues.

## CLASS 38

SN 644,118. Hokrein Associates, Inc., Newark, N. J. Filed Mar. 24, 1953.

# TINY TOP CIRCUS

For Printed End Labels Suitable for Use in Connection With Bakery Goods.  
Use since Oct. 9, 1952.

SN 652,483. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Aug. 28, 1953.

# Chief

For Monthly Magazine, Published Free of Charge for the Employees of the Corporate-Proprietor of the Mark.  
Use since December 1944.

SN 669,603. Committee of Forward Movement Commission of the Episcopal Church, Cincinnati, Ohio. Filed July 8, 1954.



For Manuals of Bible Readings and Religious Discussions Published From Time to Time.  
Use since Sept. 1, 1943.

SN 671,265. The Parker Pen Company, Janesville, Wis. Filed Aug. 6, 1954.

# fix-ations

For Publications Distributed Periodically.  
Use since on or about June 2, 1954.

# Who Said?

For Instructive Illustrated Textual Material for Reproduction in Periodical Publications.  
Use since Nov. 17, 1954.

SN 680,920. Watt Publishing Company, Mount Morris, Ill. Filed Feb. 1, 1955. Sec. 2(f).

# Pacific POULTRYMAN

Applicant claims ownership of Reg. No. 441,892.  
For Monthly Magazine Relating to the Poultry Industry.  
Use since January 1896.

## CLASS 39

SN 639,550. Donald F. Benson, Montreal, Quebec, Canada. Filed Dec. 16, 1952.

# KID-NAPPIES

Applicant claims ownership of Canadian Reg. No. N. 8. 38,316, Reg. 150, dated Apr. 10, 1951.  
For Baby's Diapers.

SN 640,131. J. Schoeneman, Inc., Baltimore, Md. Filed Dec. 29, 1952.

# Silk-o-lin

No claim is made to the word "Silk" apart from the mark as shown.

For Coats, Vests, Trousers, and Knickerbockers, Made in Substantial Part of Silk for Men, Youths, and Boys.  
Use since Dec. 14, 1926.

SN 656,254. Soren Skifter, Dansk Slips Fabrik, Copenhagen, Denmark. Filed Nov. 12, 1953.



Applicant claims ownership of Danish Reg. No. 282/1942, dated Mar. 21, 1942.  
For Neckties and Scarves.

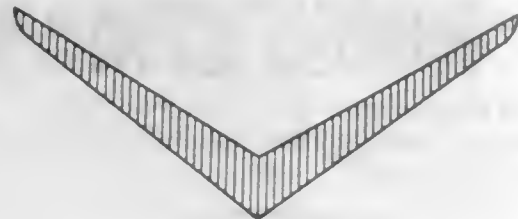


SN 656,895. Merrimac Hat Corporation, Amesbury, Mass. SN 673,687. Henry I. Slegel Co., Inc., New York, N. Y.  
Filed Nov. 24, 1953. Sec. 2(f) as to "Merrimac." Filed Sept. 23, 1954.



For Women's, Men's, and Children's Hats and Hat Bodies.  
Use since Oct. 1, 1953, and since 1856 as to "Merrimac."

SN 657,307. Superba Cravats, Inc., Rochester, N. Y. Filed  
Dec. 2, 1953.



The mark consists of a wide "V" lined for the color red.  
For Neckties.  
Use since Sept. 17, 1951.

SN 668,449. George W. Heller, Inc., New York, N. Y. Filed  
June 18, 1954.



Applicant disclaims the expression "Recreation Clothes for Men" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 240,672 and 322,432.

For Trousers, Casual Jackets, Walking Shorts, Swimming Trunks, Fancy Waistcoats, Formal Waistcoats, Beach Robes and Beach Jackets, Cummerbunds, and Men's Neckties.  
Use since 1924.

SN 668,621. The Associated Merchandising Corporation, New York, N. Y. Filed June 22, 1954.

# Crancool

Applicant claims ownership of Reg. No. 344,096.  
For Men's Light Weight Summer Suits.  
Use since Mar. 11, 1954.

SN 669,591. Gilbert Adrian, Los Angeles, Calif. Filed July 8, 1954. Sec. 2(f).

# Adrian

Applicant claims ownership of Reg. No. 413,942.  
For Neckwear, Suits, and Sport Shirts.  
Use since Dec. 1, 1932.

# Ivy-Alls

by H.I.S.

Applicant claims ownership of Reg. No. 549,951.  
For Trousers, Shirts, Slacks, and Sport Coats.  
Use since July 1, 1954.

SN 674,674. George W. Heller, Inc., New York, N. Y. Filed  
Oct. 12, 1954.

# "EZON"

For Men's Slacks.  
Use since Aug. 24, 1954.

SN 674,766. Reliance Manufacturing Company, New York, N. Y. Filed Oct. 13, 1954. Sec. 2(f).

# NO-TARE

Applicant claims ownership of Reg. No. 524,752.  
For Men's Underwear—Namely, Athletic Shorts and Union Suits of Woven Fabrics, and Men's, Boys', Girls', Women's, and Children's Pajamas.  
Use since Nov. 1, 1932, on underwear.

SN 674,828. Maskuline Underwear Company, Inc., New York, N. Y. Filed Oct. 14, 1954. Sec. 2(f).

# Maskuline

For Men's and Boys' Knitted and Woven Underwear, Hosiery of All Types, Outer Wear, Pajamas, Bathing Trunks, and Shirts, Including Sweat-Shirts and Others Made of Flannel or the Like.

Use since Jan. 5, 1933.  
Subj. to Intf. with SN 677,580.

SN 678,820. Abraham Slutsky, d. b. a. Fit-Rite Pants Company, New York, N. Y. Filed Dec. 22, 1954.

# TOUCH OF GOLD

For Men's and Boys' Trousers and Slacks.  
Use since Mar. 11, 1954.

SN 678,978. Esquire Sportswear Co., New York, N. Y. Filed  
Dec. 27, 1954.

# Ac̄rib̄rēēze

For Slacks for Men and Young Men.  
Use since Sept. 24, 1954.

SN 678,979. Esquire Sportswear Co., New York, N. Y. Filed  
Dec. 27, 1954.

# Acrigab

For Slacks for Men and Young Men.  
Use since Sept. 24, 1954.

SN 679,085. Devon Knitwear, Philadelphia, Pa. Filed Dec.  
29, 1954.

# Patti Haig

ORIGINAL

Without waiving its common law rights and for purposes of this registration only applicant makes no claim herein to the word "Original" apart from the mark as shown.  
For Ladies' and Misses' Knitted Sweaters.  
Use since Sept. 2, 1954.

SN 679,086. Devon Knitwear, Philadelphia, Pa. Filed Dec.  
29, 1954.

# Penny Lee

ORIGINAL

Without waiving its common law rights and for purposes of this registration only applicant makes no claim herein to the word "Original" apart from the mark as shown.  
For Ladies' and Misses' Knitted Sweaters.  
Use since Sept. 2, 1954.

## CLASS 40

SN 667,028. Foster Grant Co., Inc., Leominster, Mass.  
Filed May 25, 1954.

# MICRO-SLIDE

For Combs.  
Use since Feb. 10, 1954.

SN 670,853. Q Products Corporation, Pleasantville, N. Y.  
Filed July 30, 1954.

# PATTI-PINS

Applicant claims no exclusive right in the word "Pins" apart from the mark as shown. Applicant claims ownership of Reg. No. 405,998.  
For Bobby Pins.  
Use since June 7, 1954.

## CLASS 41

SN 658,147. Schertz Umbrellas, Inc., New York, N. Y. Filed  
Dec. 17, 1953.

# Travel-Brella

For Umbrellas.  
Use since September 1953.

## CLASS 42

SN 652,181. G. Garnett & Sons Limited, Bradford, England.  
Filed Aug. 24, 1953. Sec. 2(f).

# GARNETT

For Piece Goods of Wool, Worsted, Hair, Cotton, Rayon, and Nylon, and Mixtures of These Materials, the Wool Predominating.  
Use since 1925.

SN 652,182. G. Garnett & Sons Limited, Bradford, England.  
Filed Aug. 24, 1953. Sec. 2(f).

# GARNETT'S

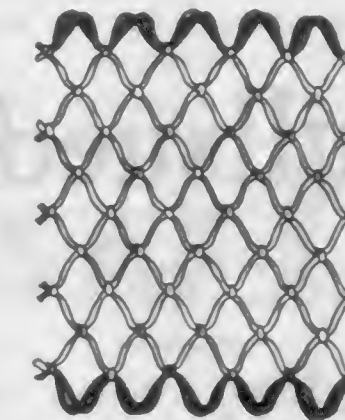
For Piece Goods of Wool, Worsted, Hair, Cotton, Rayon, and Nylon, and Mixtures of These Materials, the Wool Predominating.  
Use since 1925.

SN 678,399. Hummel Malt, Inc., Oklahoma City, Okla.  
Filed Dec. 15, 1954.



For Braided and Woven Rugs, Carpets, and Mats.  
Use since July 1, 1954, on braided rugs.

SN 678,463. The Linen Thread Co., Inc., New York, N. Y.  
Filed Dec. 16, 1954.



The mark consists of green color throughout the strands comprising the longitudinal edges or selvages of the fish netting. The drawing is lined for green color. No claim is made to the representation of the fish netting per se. Applicant claims ownership of Reg. No. 577,613.  
For Fish Netting.  
Use since Mar. 8, 1951.



SN 678,497. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed Dec. 16, 1954.

# Mohawk

SANTA BARBARA

Applicant claims ownership of Reg. Nos. 370,899 and 597,152.  
For Textile, Woven, Woolen Rugs and Carpets.  
Use since July 23, 1954.

SN 678,498. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed Dec. 16, 1954.

# VALATIA

For Textile, Woven, Woolen Rugs and Carpets.  
Use since July 23, 1954.

SN 678,965. Consolidated Bleaching Co., North Bergen, N. J. Filed Dec. 27, 1954.

# CONSOLO

For Cotton, Batiste, and Plique Piece Goods, and Embroidered Piece Goods.  
Use since Dec. 1, 1954.

SN 678,969. Crompton Company, Crompton, R. I. Filed Dec. 27, 1954.

# DEN-U-ROY

For Corduroy Fabrics in the Piece Composed of Cotton.  
Use since Dec. 10, 1954.

SN 678,970. Crompton Company, Crompton, R. I. Filed Dec. 27, 1954.

# DEN-O-ROY

For Corduroy Fabrics in the Piece Composed of Cotton.  
Use since Dec. 10, 1954.

SN 678,988. A. D. Juillard & Co., Inc., New York, N. Y. Filed Dec. 27, 1954.

# Juillsuede

Applicant claims ownership of Reg. Nos. 184,786, 527,310, and others.  
For Piece Goods of Woven Cotton.  
Use since on or about Nov. 9, 1954.

SN 678,989. A. D. Juillard & Co., Inc., New York, N. Y. Filed Dec. 27, 1954.

# Juillsuede Jr.

Applicant claims ownership of Reg. Nos. 184,786, 527,310, and others.  
For Piece Goods of Woven Cotton.  
Use since on or about Nov. 9, 1954.

SN 679,069. United Elastic Corporation, Easthampton, Mass. Filed Dec. 28, 1954.

# Pluralastic

For Corset Fabrics and Other Wide Elastic Fabrics.  
Use since June 14, 1954.

SN 679,312. National Automotive Fibres, Inc., Detroit, Mich. Filed Jan. 3, 1955.

# NAFI-SUEDE

Applicant disclaims the word "Suede" apart from the mark as shown.  
For Suede Cloth.  
Use since Oct. 1, 1954.

SN 679,353. Textile Sales Corp., New York, N. Y. Filed Jan. 3, 1955.

# MAGICORD

For Textile Fabrics in the Piece Composed of Cotton, Wool, Corduroy, Silk, and Combinations Thereof.  
Use since Dec. 17, 1954.

SN 679,384. D. B. Fuller & Co., Inc., New York, N. Y. Filed Jan. 4, 1955.

# MONTEGO

For Textile Fabrics in the Piece of Cotton, Rayon, Synthetic Fibres, and Mixtures Thereof.  
Use since Mar. 23, 1953.

SN 679,411. Shirley Fabrics Corp., New York, N. Y. Filed Jan. 4, 1955.

# SIMBO

For Textile Fabrics in the Piece of Cotton, Rayon, Wool, and Combinations Thereof.  
Use since Sept. 14, 1953.

SN 679,412. Shirley Fabrics Corp., New York, N. Y. Filed Jan. 4, 1955.

# MAFFRA

For Textile Fabrics in the Piece of Cotton, Rayon, Wool, and Combinations Thereof.  
Use since Aug. 17, 1953.

SN 679,447. Barkin; Levin & Co. Inc., New York, N. Y. Filed Jan. 5, 1955.

# Nutrana

For Pile Fabrics.  
Use since August 1954.

SN 679,597. Muscogee Manufacturing Company, Columbus, Ga. Filed Jan. 7, 1955. Sec. 2(f).

# MUSCOGEE

## TOWELS

For Terry or Turkish Towels—Namely, Hand Towels, Bath Towels, Beach Towels, Bath Mats, and Wash Cloths.  
Use since 1895 on hand and bath towels.

SN 679,598. Muscogee Manufacturing Company, Columbus, Ga. Filed Jan. 7, 1955. Sec. 2(f).

# MUSCOGEE

## TOWELS

For Terry or Turkish Towels—Namely, Hand Towels, Bath Towels, Beach Towels, Bath Mats, and Wash Cloths.  
Use since Jan. 1, 1935.

SN 679,668. Lion Ribbon Co., Inc., New York, N. Y. Filed Jan. 10, 1955.

# Prize Package

For Textile Ribbons Made of Rayon, Silk, Cotton, Synthetic, and Like Fibres.  
Use since Oct. 1, 1954.

SN 679,802. William Skinner & Sons, New York, N. Y. Filed Jan. 12, 1955.

# "CAT'S EYE"

For Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof.  
Use since Dec. 22, 1954.

SN 679,940. Robbin Products, Los Angeles, Calif. Filed Jan. 14, 1955.

# COLOR-MATE

For Bed Sheets and Pillow Cases.  
Use since June 1, 1953.

CLASS 43

SN 679,787. Madison Throwing Company, Inc., Madison, N. C. Filed Jan. 12, 1955.

# MADGILON

For Specially Processed Synthetic Yarns.  
Use since November 1954.

CLASS 44

SN 658,414. Seaboard Metal Products Co., Newark, N. J. Filed Dec. 22, 1953.

# SEABOARD

Applicant disclaims any exclusive use of the words "Metal Products Co." except in the associations shown.  
For First Aid Boxes, Empty or Filled.  
Use since Dec. 14, 1953.

SN 664,674. The Kurlash Company, Inc., Rochester, N. Y. Filed Apr. 16, 1954.

# TWEEZETTE

For Tweezers for Removing Hair.  
Use since Nov. 19, 1953.

SN 667,698. The Hygienic Dental Manufacturing Company, Akron, Ohio. Filed June 4, 1954.

# PERM

For Liquid and Powder Acrylic Resin Compound for Rebas-ing and Repair of Dentures and Construction of Related Appliances.  
Use since Mar. 1, 1954.

SN 667,976. Paschall Laboratories, Inc., Seattle, Wash. Filed June 9, 1954.

# Pallab

For Finger Cots for Bandaging Purposes.  
Use since Apr. 26, 1954.

SN 669,601. Julius Chabrowe, d. b. a. Trixie Co., Brooklyn, N. Y. Filed July 8, 1954.

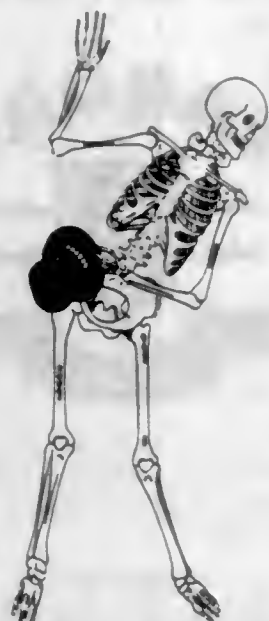
# SAF-T

# Nurser

For Nursing Bottles and Nipples.  
Use since Oct. 1, 1953.



SN 676,705. Austenal Laboratories, Incorporated, New York, N. Y. Filed Nov. 16, 1954. SN 678,390. Gillmors, Inc., Hicksville, N. Y. Filed Dec. 15, 1954.



## PALPATRON

For Electronic Devices To Indicate Pulse Beat.  
Use since Aug. 13, 1954.

SN 678,618. Fillauer Surgical Supplies, Inc., Chattanooga, Tenn. Filed Dec. 20, 1954.

## VARI GAIT

For Artificial Leg.  
Use since Dec. 3, 1954.

SN 678,734. J. J. Monaghan Company, Inc., Denver, Colo. Filed Dec. 21, 1954.

## PORTALUNG

For Respirators in Which a Patient Is Enclosed From the Neck Down.  
Use since Nov. 18, 1953.

SN 678,795. The Martin Brothers Electric Company, Cleveland, Ohio. Filed Dec. 22, 1954.

## TURBINATOR

For Electric Hair Driers.  
Use since Apr. 1, 1928.

SN 679,104. Lamprecht & Co. Gummiwarenfabrik Aktiengesellschaft, Zurich-Oerlikon, Switzerland. Filed Dec. 29, 1954.

## Ceyloc

Applicant claims ownership of Swiss Reg. No. 105,592, dated Oct. 28, 1943.

For Pessaries, Diaphragms, Cervical Caps and Rubber Articles for the Prevention of Contagious Diseases; Devices and Applicators for the Insertion of Pessaries and Diaphragms and Cervical Caps.

SN 679,378. East Rutherford Syringes, Inc., East Rutherford, N. J. Filed Jan. 4, 1955.



For Hypodermic Syringes.  
Use since Nov. 1, 1954.

## ISO-X

For Nucleonic X-Ray Apparatus.  
Use since Sept. 27, 1954.

For Surgical Appliances and Instruments.  
Use since July 1, 1953.

SN 677,280. Air Reduction Company, Incorporated, New York, N. Y. Filed Nov. 26, 1954. Sec. 2(f).

## Heidbrink

For Anesthesia and Analgesia Apparatus.  
Use since 1910.

SN 677,826. Swissedent International, Los Angeles, Calif. Filed Dec. 6, 1954.

## DENTO-GENIC

For Impression Wax.  
Use since Sept. 10, 1954.

SN 677,912. Vita Needle Company, Needham, Mass. Filed Dec. 7, 1954.

## VAL-U

For Hypodermic Needles.  
Use since July 26, 1947.

SN 678,121. Fred S. Landauer, d. b. a. Fred Landauer Co., Rockville Centre, N. Y. Filed Dec. 10, 1954.

## ELCO

For Electrotherapeutic and Electrodagnostic Apparatus and Parts Thereof for Medical Examinations and Treatment of Human Beings—Namely, Low Volt Generators, Whirlpools, Ultrasonic and Shortwave Diathermy Apparatus.  
Use since October 1954.

SN 678,239. Litton Industries of California, Beverly Hills, Calif. Filed Dec. 13, 1954.

### CLASS 45

SN 676,413. Sinalco Aktiengesellschaft, Detmold (British Zone), Germany. Filed Nov. 10, 1954.



Applicant claims ownership of the mark shown in Reg. Nos. 71,525 and 599,747.

For Soft Drinks, and Fountain Syrups and Concentrates for Making the Same.

Use since Apr. 10, 1953.

SN 679,572. Golden Age Beverage Corporation, to The Get-Up Corporation, Youngstown, Ohio. Filed Jan. 7, 1955.



The drawing is shaded to indicate the color yellow. Applicant claims ownership of Reg. No. 321,927.

For Lithiated Lemon Soda.

Use since Oct. 25, 1934.

### CLASS 46

SN 616,003. Tieleman & Dros, Commanditaire Vennootschap op Aandelen, Leiden, Netherlands. Filed June 26, 1951.



Applicant claims ownership of Dutch Reg. No. 107,595, dated Jan. 15, 1951, and U. S. Reg. No. 360,500.

For Canned Foods—Namely, Smoked Hams, Smoked Sausages, Roast Beef, Roast Pork, Meatballs in Gravy, Smoked Bacon, Smoked Beef, Beef Stew, Liverpaste, Soup, Corned Beef, Ox-Tongue, Beef, Meatballs, Pork and Veal Tongue, Pork and Beans.

SN 621,343. United Packers, Inc., Chicago, Ill. Filed Nov. 16, 1951.



For Meats in Tin and Glass—Namely, Sausage Tips and Pieces.

Use since 1932.

SN 648,751. Good Humor Corporation, Brooklyn, N. Y. Filed June 15, 1953.

## DUBL

## I-STIX

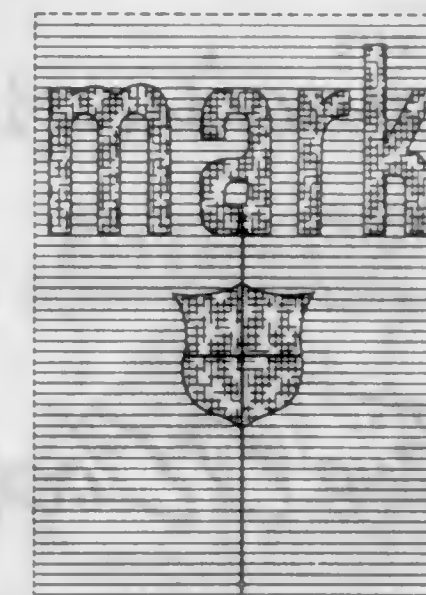
Applicant claims ownership of Reg. No. 528,092.  
For Frozen Water Ice and Frozen Confections on a Stick.  
Use since June 1953.

SN 651,293. R. W. Snyder Company, Battle Creek, Mich. Filed Aug. 3, 1953.

## CP SherVel

For Stabilizer for Ice Cream, Sherbets, Ices, and Other Variegated Mixtures.  
Use since June 1944.

SN 657,203. Crest Importing Company, Inc., San Diego, Calif. Filed Dec. 1, 1953.



The drawing is lined for blue and yellow. The cross is white with a blue upper tip. The colored background is disclaimed.

For Frozen Shrimp.  
Use since Nov. 11, 1953.

SN 657,223. William Henry Lloyd, Liverpool, England. Filed Dec. 1, 1953.



Applicant claims ownership of British Reg. No. 720,410, dated July 31, 1953.  
For Tea.



SN 657,855. Ryser Bros., Inc., Chicago, Ill. Filed Dec. 11, 1953. SN 666,150. Wyandotte Olive Growers Association, Ltd., Oroville, Calif. Filed May 11, 1954.



For Cheeses, French Dressing, and Roquefort Dressing.  
Use since May 11, 1953.

SN 661,527. Fred Wolferman, Inc., Kansas City, Mo. Filed Feb. 23, 1954.

*The "Masterpiece"*

For Cheese.  
Use since Sept. 27, 1951.

SN 661,528. Fred Wolferman, Inc., Kansas City, Mo. Filed Feb. 23, 1954.

THE  
*"Connoisseur"*

For Cheese.  
Use since October 1949.

SN 661,530. Fred Wolferman, Inc., Kansas City, Mo. Filed Feb. 23, 1954.

*Five O'Clock*

For Canned Shrimp, Shrimp Sauce, Olives, Cheese, Anchovies.  
Use since Sept. 27, 1951.

SN 665,792. Uncle Tom's Food Products, Inc., Woodstock, N. Y. Filed May 5, 1954.



All of the wording shown in the drawing, except for the form shown is disclaimed, with the exception of applicant's trademark "Uncle Tom's Deep South."

For Barbecue Sauce.  
Use since Dec. 28, 1953.

**Golden**

For Canned Olives.  
Use since January 1926.

SN 666,482. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

**RASBERINE**

For Food Colors.  
Use since as early as January 1907.

SN 666,917. Certified Products Company, Chicago, Ill. Filed May 24, 1954.

**SUNNY INN**

For Jams, Jellies, Fruit and Berry Preserves, Syrups for Food Purposes, and Ice Cream Toppings.  
Use since Feb. 17, 1948.

SN 667,107. Engelhorn Packing Co., North Bergen, N. J. Filed May 26, 1954.

**EPCO**

For Sliced Bacon.  
Use since Dec. 26, 1952.

SN 667,516. S. M. Flickinger Co., Inc., Buffalo, N. Y. Filed June 2, 1954.

*Meadowbloom*

Applicant claims ownership of the mark shown in Reg. No. 303,656, expired.  
For Butter and Fresh Eggs.  
Use since Apr. 24, 1930.

SN 667,538. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f).

**JETINE**

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,541. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f).

**CONCORDINE**

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,551. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f). SN 669,586. Topco Associates, Inc. (cooperative), also known as Topco Associates, Inc., Chicago, Ill. Filed July 7, 1954. Sec. 2(f).

**MARIGOLINE**

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,554. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f).

**PEACHINE**

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,560. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f).

**GARNETINE**

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,711. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 4, 1954. Sec. 2(f).

**EMERALDINE**

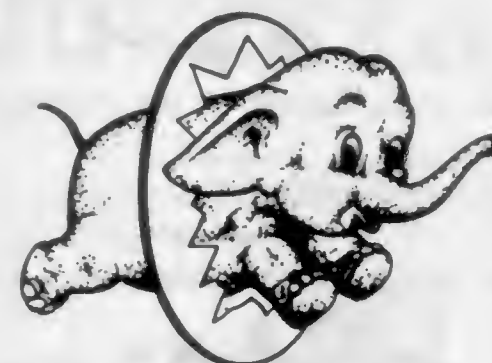
For Food Colors.  
Use since as early as Dec. 1, 1930.

SN 667,716. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 4, 1954. Sec. 2(f).

**GINGER**

For Food Colors.  
Use since as early as Dec. 1, 1930.

SN 669,314. Circus Foods, Inc., San Francisco, Calif. Filed July 2, 1954.



Applicant claims ownership of Reg. Nos. 260,343, 360,756, and 424,245.

For Unshelled Nuts, and Shelled, Salted Nuts, Peanut Butter, Peanut Oil for Food Purposes, Candy, and Canned Raw and Popped Popcorn.  
Use since Aug. 18, 1945.

**GAYLORD**

For Coffee, Tea, Butter, Apple Juice, Applesauce, Canned Fruits and Vegetables, and Rice.  
Use since January 1947 on coffee.

SN 669,587. Topco Associates, Inc. (cooperative), also known as Topco Associates, Inc., Chicago, Ill. Filed July 7, 1954.

*Ched-R-Treat*

For Cheese Foods.  
Use since Mar. 9, 1954.

SN 669,684. Gordy Salt Company, Inc., New Iberia, La. Filed July 9, 1954. Sec. 2(f).

**GORDY**

For Salt for Human and Livestock Consumption.  
Use since May 25, 1942.

SN 669,736. Calavo, Inc., Los Angeles, Calif. Filed July 12, 1954.



The words "Tropical Fruit" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 357,974, 444,051, and 561,743.

For Fresh Fruit—Namely, Mangoes, Papayas, and Pineapples.  
Use since June 3, 1954, on mangoes.

SN 672,368. Ambrosia Chocolate Company, Milwaukee, Wis. Filed Aug. 30, 1954.

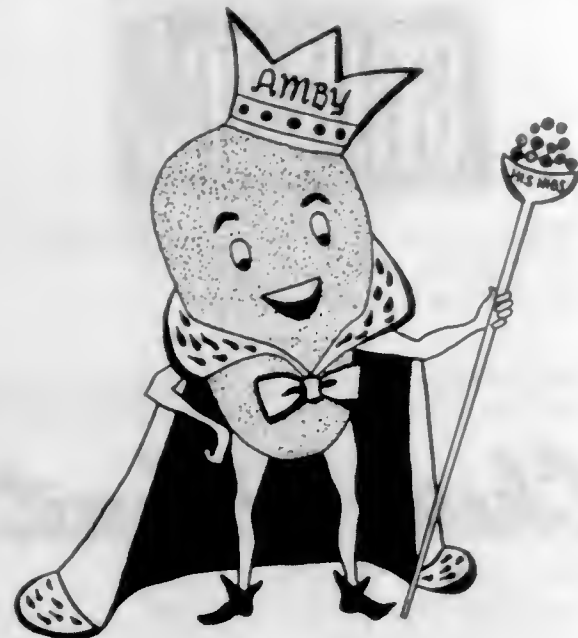
**AMBY**

For Coatings and Flavorings Used in the Ice Cream, Confectionery and Baking Industries—Namely, Cocoa Powders, Sweet Chocolate and Bitter or Unsweetened Chocolate in Slab or Cake Form, Chocolate Liquors, and Chocolate and Butterscotch Chips; and for Chocolate Candy in Slab or Cake Form.

Use since Mar. 10, 1953.



SN 672,369. Ambrosia Chocolate Company, Milwaukee, Wis. Filed Aug. 30, 1954.  
 SN 675,840. Spice Islands Company, South San Francisco, Calif. Filed Nov. 1, 1954. Sec. 2(f).



For Coatings and Flavorings Used in the Ice Cream, Confectionery and Baking Industries—Namely, Cocoa Powders, Sweet Chocolate and Bitter or Unsweetened Chocolate in Slab or Cake Form, Chocolate Liquors, and Chocolate and Butterscotch Chips; and for Chocolate Candy in Slab or Cake Form. Use since Mar. 10, 1953.

SN 674,649. Anderson, Clayton & Co., Sherman, Tex. Filed Oct. 12, 1954.

# PY-EZE

For Shortening Made From Meat and Vegetable Fats. Use since Sept. 24, 1954.

SN 675,105. Sunshine Biscuits, Inc., Long Island City, N. Y. Filed Oct. 19, 1954.



For Coconut Candy. Use since October 1949.

SN 675,789. Hawaiian Pineapple Company, Limited, d. b. a. Dole Sales Company, Honolulu, Territory of Hawaii. Filed Nov. 1, 1954. Sec. 2(f).

# DOLE

Applicant claims ownership of Reg. Nos. 387,468, 584,990, and others.

For Canned Fruits, Canned Fruit Juices, Canned Fruit Cocktail, Canned Fruit Pie Filling, Frozen Fresh Fruit and Canned Frozen Concentrated Fruit Juices. Use since 1927 on canned fruit.

The Chinese words may be translated to mean "delicate taste." Applicant claims ownership of Reg. No. 517,295. For Food Seasoning Powder Containing Mono-sodium Glutamate, Salt, Lactose, and Sugar. Use since Feb. 10, 1947.

# MEI YEN

SN 676,556. Swift & Company, d. b. a. G. H. Hammond Company, Div. of Swift & Company, Chicago, Ill. Filed Nov. 12, 1954.

# Rosebud

For Lard; Bacons; Cooked and Smoked Ham and Other Cuts of Pork; Canned Meats, Including Ham, Pressed Ham, Pressed Pork, Pork Shoulder Picnic, and Spiced Luncheon Meat; Sausages; Meat Loaves; Dried Beef; Chili Con Carne; Jellyed Corned Beef; Jellyed Pot Roasted Beef; Smoked Beef Tongue; Quick Frozen Cuts of Beef and Veal; and Carcasses and Portions of Carcasses of Beef, Lamb, and Veal. Use since about 1896.

SN 676,840. The Shur-Good Biscuit Co., Cincinnati, Ohio. Filed Nov. 17, 1954. Sec. 2(f).

# Shur-Good

Applicant claims ownership of Reg. Nos. 324,474 and 341,660. For Cakes, Cookies, and Crackers. Use since on or about July 15, 1931.

SN 677,155. Lever Brothers Company, New York, N. Y. Filed Nov. 23, 1954.



Applicant claims ownership of Reg. Nos. 48,908, 525,668, and others. For Oleomargarine. Use since September 1952.

SN 677,305. Delchamps, Inc., Mobile, Ala. Filed Nov. 26, 1954.

# Del-Pride

For Oleomargarine, Frozen Dessert Similar to Ice Cream and Referred to as "Mellorine," and Coffee. Use since September 1952.

SN 677,675. Wm. B. Rely & Company, Inc., New Orleans, La. Filed Dec. 2, 1954.  
 SN 679,199. The Barnett Company, Jersey City, N. J. Filed Dec. 31, 1954.

# Luzianne

Applicant claims ownership of Reg. Nos. 60,490, 260,215, and 268,501.

For Coffee and Chicory Compound. Use since Jan. 1, 1903; and Nov. 10, 1953, in its present form.

SN 677,676. Wm. B. Rely & Company, Inc., New Orleans, La. Filed Dec. 2, 1954.



# Luzianne

Applicant claims ownership of Reg. Nos. 60,490, 260,215, and 268,501.

For Coffee and Chicory Compound. Use since Jan. 1, 1903; and Nov. 10, 1953, in its present form.

SN 678,058. Sunshine Biscuits, Inc., Long Island City, N. Y. Filed Dec. 9, 1954.

# GOLDEN FRUIT

For Biscuits. Use since May 1936.

SN 678,972. Di Giorgio Fruit Corp., San Francisco, Calif. Filed Dec. 27, 1954.

# JOVISTA

For Fresh Grapes. Use since Dec. 17, 1954.

SN 679,103. Raymond M. Kunkle, Jr., d. b. a. Kunkle's Canine Foods, Broomall, Pa. Filed Dec. 29, 1954.

# FEEDAPET

For Animal Food Made of Horse Meat for Dogs, Cats, Lions, Tigers, and Other Animals Which Thrive on Meat. Use since April 1948.

# MAMA'S

# "MONOSALT"

For Seasonings Composed of Pure Monosodium Glutamate and Mineral Salts. Use since Nov. 1, 1952; and Jan. 1, 1950, as to "Mama's."

SN 679,633. Best Feeds and Farm Supplies, Inc., Washington, Pa. Filed Jan. 10, 1955.

# JOY

For Dog Food. Use since Oct. 15, 1954.

SN 679,889. Brock Candy Company, Chattanooga, Tenn. Filed Jan. 14, 1955.

# Cordially Yours

For Candy. Use since in or before 1948.

SN 680,126. Burrus Mills, Incorporated, d. b. a. Burrus Mill & Elevator Co., Dallas, Tex. Filed Jan. 10, 1955. Sec. 2(f) as to "Burrus" and "Light Crust."



The following color scheme is an essential feature of the mark: The expression "Light Crust" is shown in white lettering on a blue panel. The fictitious female figure has dark hair and is wearing a white-dotted blue dress with white collar and apron and is shown against a yellow background. The words "Burrus Mill & Elevator Co. Ft. Worth Tex." appear in white letters on a red arcuate panel bordered by a blue line spaced slightly from said red arcuate panel which confines the yellow background on which the female figure appears. No claim is made to the words "Mill & Elevator Co. Ft. Worth Tex." or to the representation of the food being served by the female. Applicant claims ownership of Reg. Nos. 521,240, 551,300, and others.

For Wheat Flour, Self-Rising Flour, Phosphated Flour, Whole Wheat Flour, Pancake and Waffle Mix, Corn Meal, and Grits. Use since 1941.



SN 680,175. B and B Company, Walla Walla, Wash. Filed Jan. 20, 1955.

SN 680,425. Standard Brands Incorporated, New York, N. Y. Filed Jan. 24, 1955.



For Potato Chips.  
Use since on or about June 15, 1954.

SN 680,187. Fan-Sea Foods, Inc., Seattle, Wash. Filed Jan. 20, 1955.

**SURF MIST**

For Canned Fish.  
Use since August 1952.

SN 680,232. Sisco-Hamilton Co., Chicago, Ill. Filed Jan. 20, 1955. Sec. 2(f).

**Melrose**

For Chocolate Covered Cherries.  
Use since 1925.

SN 680,247. The Best Foods, Inc., New York, N. Y. Filed Jan. 21, 1955.



For Mayonnaise.  
Use since Dec. 22, 1954.

SN 680,251. Briggs Ice Cream Co., Washington, D. C. Filed Jan. 21, 1955.



For Ice Cream.  
Use since Mar. 30, 1954.

**fives**

For Salted Mixed Nuts and Gelatin Desserts.  
Use since Jan. 7, 1955.

SN 680,541. Meat Industry Suppliers, Inc., Chicago, Ill. Filed Jan. 26, 1955.

**STAZE**

For Meat Cure Composed of Edible Phosphates, Salt, and Sodium Ascorbate.  
Use since Dec. 29, 1954.

SN 680,580. Bay State Milling Co., Winona, Minn. Filed Jan. 27, 1955.

**NORMANO**

Applicant claims ownership of Reg. No. 99,682, expired.  
For Wheat Flour.  
Use since Feb. 21, 1914.

SN 680,582. Brock Candy Company, Chattanooga, Tenn. Filed Jan. 27, 1955.

**Easter  
PARADE**

For Candy.  
Use since Jan. 25, 1954.

SN 682,314. Southern Sea Fishing Enterprises (Pty.) Ltd., Cape Town, Union of South Africa. Filed Jan. 10, 1955.

**SSF**

For Canned Fish.  
Use since Jan. 1, 1951.

**CLASS 47**

SN 675,472. W. & J. Graham & Co., Vila Nova De Gaia, Portugal. Filed Oct. 26, 1954. Sec. 2(f).

**GRAHAM'S**

Applicant claims ownership of Reg. No. 417,431, and of the mark shown in Reg. No. 60,717.

For Port Wine.  
Use since May 21, 1912; and on or about 1895, as to "Graham."

**CLASS 49**

SN 644,123. H. C. König, Steinhagen, Westphalia, Germany. Filed Mar. 24, 1953.

**Urquell**  
*mit dem Schinkenbild*



All wording, except "Urquell mit dem Schinkenbild" is disclaimed. The German words "Urquell" and "mit dem Schinkenbild" are translated as "original source" and "with picture of the ham" respectively. Applicant claims ownership of German Reg. No. 616,646, dated Feb. 12, 1952, U. S. Reg. Nos. 329,563, 329,564, and others.  
For Westphalian Distilled Gin.  
Use since Feb. 1, 1950.

SN 669,165. Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Filed June 30, 1954. Sec. 2(f).

**MURPHY'S**



While portions are lined for red, green, and gold, these colors are not material features and no claim is made to any specific color. Applicant claims ownership of Reg. No. 374,610.

For Whisky.  
Use since March 1948.

SN 678,485. R. Stevenson Taylor and Company Limited, Glasgow, Scotland. Filed Dec. 16, 1954.

**BRAW LAD**

Applicant claims ownership of British Reg. No. 546,232, dated Nov. 17, 1933.  
For Whisky.

**CLASS 50**

SN 646,309. The Paine & Williams Company, Cleveland, Ohio. Filed May 1, 1953.

**Tweed**

For Flexible Rubber Mats for Use as a Floor or Like Covering.  
Use since Nov. 18, 1952.

TM 696 O. G.—20

SN 649,241. Frank P. Mitten, Redlands, Calif. Filed June 23, 1953.

**PEG-OVAL-TRAK**

Applicant claims ownership of Reg. No. 522,468.  
For Grooved Strips of Wood or Other Materials Used To Support Three-Dimensional Letters and Figures To Make Up Changeable and Permanent Signs.  
Use since June 5, 1953.

SN 656,223. Grandmother Stover's, Inc., Columbus, Ohio. Filed Nov. 12, 1953. Sec. 2(f).



*Grandmother Stover's*

For Miniature Ornaments—Namely, Tiny Toys, Games, and Trinkets Made of Non-Precious Metal, Wood, or Plastic Material and Used for Display Purposes.  
Use since Oct. 30, 1944.

SN 663,981. Webster Spring Corporation, Brooklyn, N. Y. Filed Apr. 5, 1954.

**Springlo Ornaments**

The word "Ornaments" is disclaimed when used separate and apart from the mark as used.  
For Ornaments and Tree Decorations.  
Use since Feb. 25, 1954.

SN 668,174. William P. Kupka, Chelsea, Iowa. Filed June 14, 1954.

**Kuper Kraft**

For Decorative and Ornamental Bird Houses Made of Gourds, Dried Cured Gourds, and Ornamental Green Gourds.  
Use since Apr. 25, 1954.

SN 676,739. Magnesium Company of America, East Chicago, Ind. Filed Nov. 16, 1954.



For Movable Airplane Loading Ramps and Parts Thereof.  
Use since on or about Dec. 1, 1946.

SN 678,930. Martin L. Straus II, New York, N. Y. Filed Dec. 24, 1954.

**"Magic Snow"**

For Artificial Snow for Ornamental Purposes.  
Use since Oct. 22, 1954.



SN 679,600. Walter Pastuck, d. b. a. Trapmaster Manufacturing Co., Emerson, N. J. Filed Jan. 7, 1955.



For Animal Traps.  
Use since June 21, 1954.

SN 679,604. Robert L. Greer, Salem, Oreg. Filed Jan. 10, 1955.



For Boot Jack.  
Use since Nov. 3, 1954.

SN 680,135. Disabled American Veterans, Inc., Cincinnati, Ohio. Filed Jan. 19, 1955.

# IDENTO-GRAM

For Personalized Initial Monogram Plates.  
Use since Dec. 15, 1953.

## CLASS 51

SN 657,651. Shulton, Inc., Clifton, N. J. Filed Dec. 8, 1953.

# VERVE

For Toilet Water.  
Use since Nov. 27, 1953.

SN 658,515. The Cat Cay Realty Company, Limited, Nassau, Bahama Islands. Filed Dec. 24, 1953.

# CAT CAY



For Cosmetics—Namely, Skin Lotions, Skin Creams, Stick Cologne, Sun Screen Stick, and Perfumes.  
Use since Jan. 15, 1953.

SN 660,895. Saint Honore Creation Société des Parfums Jacques Griffe-Société Anonyme, Paris, France. Filed Feb. 10, 1954.

# JACQUES GRIFFE

For Perfumes and Toilet Water.  
Use since March 1949.

SN 667,575. Old Empire, Inc., Newark, N. J. Filed June 2, 1954.



For Perfumes, Colognes and Cologne Sticks, Hair Pomade and Brilliantine, Skin Creams, Hand Lotion, Shaving Creams, After-Shave Lotion, and Deodorants.  
Use since Sept. 9, 1939.

SN 672,692. The Shontex Company, Santa Monica, Calif. Filed Sept. 2, 1954.

# Shontex

Applicant claims ownership of Reg. No. 339,585.  
For Lotions and Creams Comprising Lanolin Rich Hair and Scalp Conditioner, Cleansing and Grooming Liquid Formula for Male Hair, and Lanolin Enriched Skin Beautifier.  
Use since in the latter part of the year 1953.

SN 674,631. Shulton, Inc., Clifton, N. J. Filed Oct. 11, 1954.

# PAGE ONE

For Toilet Water, Bath Salts, Cologne Sticks, Perfume, Body Sachet, Hand Lotion, Dusting Powder, and Talcum Powder.  
Use since Sept. 9, 1954.

SN 675,077. Alexander Gobert & Cie, Société à Responsabilité Limitée, Neuilly-sur-Seine, France. Filed Oct. 19, 1954.

# MISS UNIVERS

Applicant claims ownership of French Reg. No. 437,932, dated Jan. 14, 1954.

For Perfumes, Eau de Cologne, Perfume Extracts, Beautifying Skin Lotions, Toilet Water, Beauty Cream, Lip Rouge, Face and Talcum Powder.

SN 675,498. New Jersey Turner Hall Corporation, Hoboken, N. J. Filed Oct. 26, 1954.

# Admiracion Rinness

Applicant claims ownership of Reg. No. 303,598.  
For Hair Coloring Rinse.  
Use since Sept. 3, 1954.

SN 676,298. Harriet Hubbard Ayer, Inc., New York, N. Y. Filed Nov. 9, 1954. Sec. 2(f).

# Ayer

Applicant claims ownership of Reg. Nos. 427,038, 574,308, and others.

For Cosmetic and Toilet Preparations—Namely, Toilet Creams, Skin Lotions, Face Powders, Lipsticks, Rouges, Bath Powders, Colognes, and Dusting Powder.  
Use since 1901.

SN 676,878. De Heriot, Inc., Hollywood, Calif. Filed Nov. 18, 1954.

# Breath Takers

For Perfumed Oral Deodorant.  
Use since August 1951.

SN 677,521. Oral-Hy Company, New York, N. Y. Filed Nov. 30, 1954.

# ORAL-HY

For Powder for Making Mouth Washes; for Cleaning Teeth and Massaging the Gums; and for Making Solutions in Which Dentures Are Kept Overnight or When Not in Use.  
Use since Oct. 21, 1954.

SN 678,748. Revlon Products Corporation, New York, N. Y. Filed Dec. 21, 1954.

# SATIN- SET

For Liquid Hair Spray.  
Use since Dec. 2, 1954.

SN 678,832. The J. R. Watkins Company, Winona, Minn. Filed Dec. 22, 1954.

# LOVE STORY

For Perfume, Cologne, Sachet Powder, Talcum Powder, and Bath Salts.  
Use since Nov. 30, 1954.

SN 678,833. Harold G. Wolff, d. b. a. Nelson Parfums, New York, N. Y. Filed Dec. 22, 1954.

# GOLD AND VELVET

For Colognes and Perfumes.  
Use since Dec. 1, 1954.

SN 679,849. The Andrew Jergens Company, Cincinnati, Ohio. Filed Jan. 13, 1955.

# HANDY PANDY

For Beautifying Skin Lotion.  
Use since March 1953.

## CLASS 52

SN 581,894. Richfield Oil Corporation, Los Angeles, Calif. Filed July 13, 1949.

# KLENZINE

Applicant claims ownership of Reg. No. 199,544.  
For Dry Cleaning Fluid.  
Use since Oct. 31, 1931.

SN 651,344. Lewal Industries, Inc., New York, N. Y. Filed Aug. 4, 1953.

# INSTANT WIPE

For Cleaning Preparation in Cream or Paste Form for Cleaning Walls and Painted Woodwork, Tile, Marble, Porcelain, Enamel, and Linoleum.  
Use since Apr. 23, 1953.

SN 652,023. Kray Manufacturing Co. Inc., Elizabeth, N. J. Filed Aug. 19, 1953.

# DANDY

## Double Action

The words "Double Action" are disclaimed apart from the mark as shown.

For Detergent Emulsion Hand Cleaner in Cream Form for Removing Printing and Offset Inks, Multilith, Multigraph, and Mimeograph Inks, Grease, Grime, Paint, and Tar.  
Use since Sept. 1, 1949.

SN 662,946. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Mar. 19, 1954.

# PEN-GLEAM

For Mild Alkaline Detergent Composition Primarily Adapted for the Cleaning of Painted and Other Surfaces, Such as those of Metal, Glass, etc.  
Use since Jan. 5, 1954.



SN 667,322. The Mennen Company, Morristown, N. J. Filed May 28, 1954.



The portrait appearing is that of the infant Valerie Ann Vaughn, consent having been granted to the registration of the portrait. The colors red, brown, and green are claimed as features of the mark.

For Baby Soap.  
Use since May 14, 1954.

SN 668,722. B. T. Babbitt, Inc., New York, N. Y. Filed June 23, 1954.

# AM-O

Applicant claims ownership of Reg. No. 242,071.  
For Detergent or Cleaning Ammonia Powder.  
Use since June 8, 1954.

SN 670,438. The Reardon Company, St. Louis, Mo. Filed July 22, 1954.

# HANDY DAN

For Paint Remover, Hand Cleaner, and Brush Cleaner.  
Use since Sept. 15, 1953, on hand cleaner.

SN 670,981. The Russell Chemical Company, Cleveland, Ohio. Filed Aug. 2, 1954.

# SEN-TROL

For Dish Washing Solution.  
Use since Apr. 20, 1954.

SN 672,398. Finger Lakes Chemical Company, Inc., Etna, N. Y. Filed Aug. 30, 1954.

# TYTA-MUL

For Kerosene Base Emulsion Product Used in Liquid Form for Removing Grease From Mechanical Parts.  
Use since May 25, 1954.

SN 674,339. Lien Chemical Company, Franklin Park, Ill. Filed Oct. 5, 1954.



The lining shown on the drawing is for the color blue, which is claimed as a material feature of the mark. Applicant claims ownership of Reg. No. 577,175.

For Liquid Cleaner (for Use on Any Surface or Material Not Injured by Clean Water), Powdered Hand Soap (Non-Abrasive), Liquid Hand Soap, Glass and Dishwashing Compound, Metal Cleaner, Window Cleaner, Hand Cleaner (Waterless), General Cleaner, Detergent Cleanser, Floor Cleaner, Sweeping Compound for Floors, Stain Remover for Toilet Bowls, Dishware, Glassware, Silverware, Garbage Cans, Waste Receptacles, Cuspidors, and Bed Pans, and Deodorant Having Incidental Cleansing Properties for Toilets, Urinals, Cuspidors, Garbage Cans, Ash Trays, Sand Urns, Smoking Equipment, and for the Destruction of All Foul Odors Other Than for Personal Use, Toilet Bowl Cleaner and Deodorizer, Drain Pipe Opener, Toilet Bowl Cleaner (Liquid Type), and Tire Cleaner.

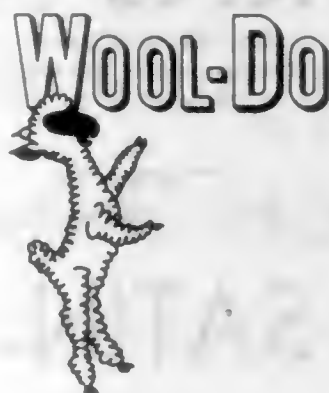
Use since May 4, 1954.

SN 675,494. Manhattan Soap Company, Inc., New York, N. Y. Filed Oct. 26, 1954.

# PROTEX

Applicant claims ownership of Reg. No. 308,577.  
For Deodorant Soap.  
Use since Sept. 22, 1954.

SN 675,519. Wool-Do Co., San Francisco, Calif. Filed Oct. 26, 1954.



For Soap.  
Use since Sept. 1, 1954.

SN 675,737. Trina, Inc., Providence, R. I. Filed Oct. 29, 1954.

# Trinse

For Detergent for Personal Use.  
Use since June 30, 1954.

SN 676,426. Ultra Chemical Works, Inc., Paterson, N. J. Filed Nov. 10, 1954.



The words "Chemical Works" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 586,343 and 590,420.

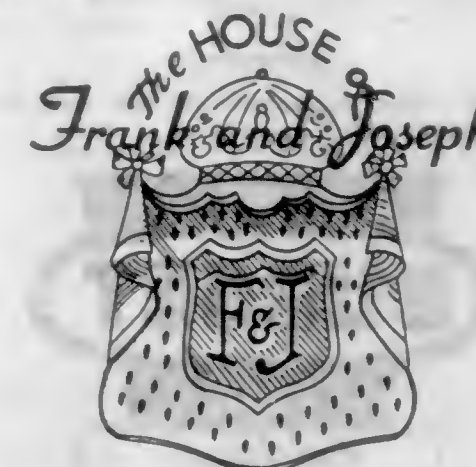
For Floor Renewer—Namely, a Preparation for Cleaning Floors Before Waxing, and for Removing Old Wax and Grease From Floors.

Use since Sept. 17, 1954.

SN 677,389. Calgon, Incorporated, Pittsburgh, Pa. Filed Nov. 29, 1954.

# HI-TIME

For Cleansing and Detergent Compound for Use in Dishwashing and Other Washing and Cleansing Operations.  
Use since Aug. 17, 1954.



Applicant claims ownership of Reg. No. 411,931.  
For Shampoos.  
Use since July 15, 1938.

SN 680,618. Marcelle Cosmetics, Inc., Chicago, Ill. Filed Jan. 27, 1955.



Applicant claims ownership of Reg. Nos. 127,809, 580,527, and others.

For Soap and Shampoo.  
Use since Mar. 10, 1937; and on Oct. 10, 1917, as to "Marcelle."

## SERVICE MARKS

### CLASS 100

SN 644,195. Science Service, Washington, D. C. Filed Mar. 25, 1953. Sec. 2(f).

# Science Talent Search

For Discovering and Fostering the Education of Boys and Girls Whose Scientific Skill, Talent, and Ability Indicate Potential, Creative Originality and Warrant Scholarships for Their Development.

Use since Apr. 20, 1942.

SN 645,660. Neuert, Wilton & Associates, Inc., Chicago, Ill. Filed Apr. 21, 1953.

# DIPLOMATIC SHOPPING SERVICE

For Performing a Shopping Service—Namely, Purchasing Goods for Others on Request.  
Use since Feb. 15, 1953.

SN 664,589. Central Hudson Gas & Electric Corporation, Poughkeepsie, N. Y. Filed Apr. 15, 1954.

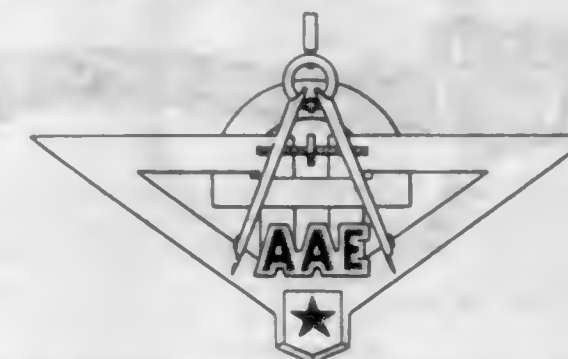
CENTRAL



HUDSON

For Supplying Electrical Energy for Power, Light and Heat.  
Use since March 1954.

SN 664,908. All American Engineering Company, Wilmington, Del. Filed Apr. 21, 1954.



For Engineering Research and Consultation, Product Design and Development Services in the Field of Aeronautics.  
Use since Jan. 4, 1954.

SN 677,981. Phoenix Chemical Laboratory, Inc., Chicago, Ill. Filed Dec. 8, 1954.



For Services as Consulting Chemists in Making Laboratory and Field Investigations, Quantitative and Qualitative Chem-



ical Analyses, and the Rendering of Opinions and Reports Covering the Same.  
Use since on or about Nov. 9, 1954.

SN 679,557. Certified Automotive Service, Inc., Champaign, Ill. Filed Jan. 7, 1955.



Applicant claims ownership of Reg. No. 594,650.  
For Organizing and Promoting a Cooperative Budget and Finance Plan Whereby the Public May Purchase Automobile Parts, Repairs, and Accessories on a Time Payment Basis.  
Use since May 1, 1954.

SN 679,558. Certified Automotive Service, Inc., Champaign, Ill. Filed Jan. 7, 1955.

# C-A-S

Applicant claims ownership of Reg. No. 594,650.  
For Organizing and Promoting a Cooperative Budget and Finance Plan Whereby the Public May Purchase Automobile Parts, Repairs, and Accessories on a Time Payment Basis.  
Use since May 1, 1954.

## CLASS 101

SN 650,510. Lucile M. Hursh, d. b. a. Octa-Gane, San Gabriel, Calif., to Gane Economy Club, Inc., San Gabriel, Calif. Filed July 20, 1953.



For Conduct of a Cooperative Buyer Plan Whereby Applicant Advertises and Arranges for the Sale of Goods and Services of Others in its Capacity as an Agent or Broker for the Buyer and Seller.  
Use since Oct. 19, 1951.

SN 654,222. Jane E. Mariley, d. b. a. Courtesy Associates, Washington, D. C. Filed Oct. 5, 1953.



The lining is for red.  
For Telephone Secretarial Service.  
Use since Oct. 1, 1950.

SN 658,957. The American Beauty, Cosmetic, Charm and Health Shows, Inc., Los Angeles, Calif. Filed Jan. 5, 1954.

# "GLAMORAMA"

For Advertising and Promotion of Cosmetics and Other Beauty Preparations, Manufactured or Sold by Others, Through the Media of Shows and Conventions.  
Use since Dec. 8, 1953.

SN 675,956. Glenn J. Baldwin and Nathan Bindeman, Washington, D. C. Filed Nov. 3, 1954.

# TEL-ADS

For Advertising the goods and Services of Others Through the Medium of Contacting Potential Consumers by Telephone.  
Use since Apr. 9, 1948.

## CLASS 102

SN 628,545. E. A. Strout Realty Agency, Inc., New York, N. Y. Filed Mar. 15, 1952. Sec. 2(f).

# STROUT

For Real Estate Brokerage.  
Use since 1900.

SN 649,099. The Mutual Life Insurance Company of New York, New York, N. Y. Filed June 19, 1953.



Applicant disclaims the following words, apart from such mark—"Multiprotection Plans" and "Mutual of New York." For Services Performed by it in Formulating, Designing, Installing, and Servicing Certain Types of Pension, Employee Benefit and Group Insurance Plans Providing Units of Pension, Death, Accident, and Sickness, Hospitalization, Surgical, Major Medical, and Other Benefits, Such Plans Being Designed According to the Particular Needs, Desires, and Economic Circumstances of Those Purchasing Such Plans From Applicant.  
Use since June 3, 1953.

SN 674,686. The National Shawmut Bank of Boston, Boston, Mass. Filed Oct. 12, 1954.



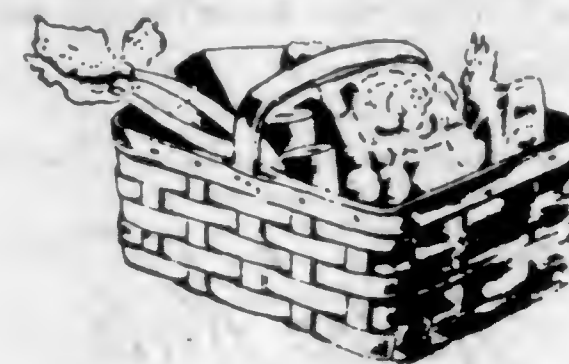
Applicant claims ownership of Reg. Nos. 588,857, 604,340, and others.  
For Investment Counseling.  
Use since at least 1912.

SN 675,305. The National Shawmut Bank of Boston, Boston, Mass. Filed Oct. 22, 1954.

# Shawmut

Applicant claims ownership of Reg. Nos. 588,857, 604,341, and others.  
For Investment Counseling.  
Use since 1937.

SN 675,400. Kingsport Finance Corporation, Kingsport, Tenn. Filed Oct. 23, 1954.



For Extension of Credit to Customers Certified by Applicant Who Purchase at Subscribing Retail Outlets, and Making Collections From Such Customers Through a Central Billing System.  
Use since Nov. 13, 1953.

SN 675,485. Kingsport Finance Corporation, Kingsport, Tenn. Filed Oct. 26, 1954.

# Market Plan

For Extension of Credit to Customers Certified by Applicant Who Purchase at Subscribing Retail Outlets, and Making Collections From Such Customers Through a Central Billing System.  
Use since Nov. 13, 1953.

SN 680,794. The Prudential Insurance Company of America, Newark, N. J. Filed Jan. 31, 1955.

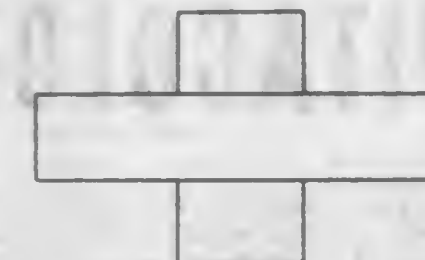


Applicant claims ownership of Reg. No. 501,706.  
For Providing Individual and Group Life Insurance Protection.

Use since Dec. 8, 1948; and about 1896 as to the representation of the Rock of Gibraltar and the words "The Prudential Has the Strength of Gibraltar."

## CLASS 103

SN 669,748. Cummins Engine Company, Inc., Columbus, Ind. Filed July 12, 1954.



For Maintenance and Repair of Diesel Engines and Parts Thereof.  
Use since Sept. 9, 1952.

## CLASS 105

SN 638,318. Shell Oil Company, New York, N. Y. Filed Nov. 19, 1952.

# CAROL LANE

For Motor Travel Information Service—Namely, Dissemination of General Travel Information Suitable to Women Motor Car Drivers Concerning Such Subjects as Highway Conditions, Safety Operation of Motor Cars and Other Details Which Make Motor Travel Comfortable.  
Use since Sept. 15, 1947.

## CLASS 106

SN 656,198. Beemer Engineering Company, Philadelphia, Pa. Filed Nov. 12, 1953.



The drawing is lined for red.  
For Machining Special Bearings to Customer's Specifications.  
Use since Apr. 10, 1953.

SN 664,083. Mechaneers Incorporated, Stratford, Conn. Filed Apr. 7, 1954.

# THE Mechaneers PLAN

For Tooling Production Machinery for Others.  
Use since Feb. 4, 1954.



SN 665,537. Vitacolor, Burbank, Calif. Filed Apr. 30, 1954. Applicant claims ownership of Reg. No. 602,697.

# VITACOLOR

For Printing and Developing (Processing) Motion Picture Film, Film Slides and Film Strips in Color, Contact Printing, Optical Printing, Printing Titles, Special Effects Printing, Preparing Color Separation Negatives, and Printing Master Positives and Duplicate Negatives.

Use since 1938.

SN 679,171. National Alloy Development Corp., New York, N. Y. Filed Dec. 30, 1954.



For Preparation of Dentures According to Dentists' Models.

Use since Dec. 15, 1954.

## CLASS 107

SN 654,238. The Shipstads and Johnson Ice Follies, Los Angeles, Calif. Filed Oct. 5, 1953.

# INKY DINKY

For Entertainment Services in the Nature of Ice Skating Exhibitions.

Use since Sept. 7, 1950.

SN 662,458. Muzak Corporation, New York, N. Y. Filed Mar. 11, 1954.

# TRAVEL Muzak

Applicant claims ownership of Reg. Nos. 323,327 and 393,293.

For Planned Music Service Rendered by Leasing to Subscribers Specially Recorded Programmed Music Together With the Equipment Required to Transmit Such Music Throughout the Train, Airplane, Boat, or Other Vehicle.

Use since Dec. 9, 1953.

SN 664,223. Jackie Gleason, New York, N. Y. Filed Apr. 9, 1954.



For Selecting, Evaluating, Promoting, and Arranging for Production of Musical Works and for Producing Radio and Television Broadcast Programs.

Use since Jan. 1, 1953.

SN 666,131. The Royal Riders and Ropers, Independence, Mo. Filed May 11, 1954.

# "Rodeo Kids"

For Entertainment Services in the Nature of Rodeo and Trick Riding Exhibitions by Juveniles.

Use since in or about February 1946.

SN 667,831. Dr. Pepper Bottling Company of Northeast Carolina, Inc., Washington, N. C. Filed June 7, 1954.

# Captain Carl

For Entertainment Services Rendered Through the Medium of a Series of Dramatic Television Programs.

Use since Mar. 8, 1954.

SN 678,273. Stratford American Legion Drum and Bugle Corps, Stratford, Conn. Filed Dec. 13, 1954.

# PARADE of CHAMPIONS

For Conducting Prize Competitions Among Drum and Bugle Corps Throughout the United States, as Part of Private and Civic Celebrations, Festivals, Pageants, Fairs, and the Like.

Use since in or about the year 1939.

SN 678,921. Pacific Garden Mission, Chicago, Ill. Filed Dec. 24, 1954.

# "UNSHACKLED"

For Providing Religious Guidance and Interest Through the Medium of a Radio Broadcast Program.

Use since Sept. 23, 1950.

SN 679,403. McClatchy Broadcasting Company, Sacramento, Calif. Filed Jan. 4, 1955. Sec. 2(f).

# ACCENT ON FARMING

For Radio Broadcast Program Consisting of Topics of Interest to Farmers.

Use since Oct. 24, 1948.

## TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

### CLASS 1

- 609,344. GOLDEN GIANTS NEW HAMPSHIRE. Creston Laurie Lamont, d. b. a. Lamont's Hatchery. SN 635,920. Pub. 4-26-55. Filed 9-29-52.
- 609,345. COLLO AND DESIGN. Otto Seligmann, to American Collo Corporation. SN 664,802. Pub. 4-19-55. Filed 4-19-54.
- 609,346. IT'S AMLINGS FOR "EVERY BLOOMIN' THING" AND DESIGN. Albert F. Amling Company. SN 666,819. Pub. 4-26-55. Filed 5-21-54.
- 609,347. NAPA LEATHERS-1869, ETC., AND DESIGN. Sawyer Tanning Company. SN 668,784. Pub. 4-26-55. Filed 6-23-54.
- 609,348. MAGCO-PHOS. Magnet Cove Barium Corporation. SN 670,205. Pub. 4-19-55. Filed 7-19-54.
- 609,349. PHRIX AND DESIGN (REPRESENTATION OF AN OVAL). Phrix Gesellschaft m. b. H. SN 670,880. Pub. 4-12-55. Filed 6-9-54.
- 609,350. CRONAR. E. I. du Pont de Nemours and Company. SN 672,060. Pub. 4-26-55. Filed 8-23-54.
- 609,351. NYLENKA. American Enka Corporation. SN 672,133. Pub. 4-26-55. Filed 8-24-1954.

### CLASS 2

- 609,352. CANDY CANE CRADLE AND DESIGN. Bernard B. Workman, d. b. a. Workman-Powell. SN 639,685. Pub. 4-26-55. Filed 12-17-52.
- 609,353. ADJUSTA-PAK. Signode Steel Strapping Company. SN 655,168. Pub. 4-26-55. Filed 10-21-53.
- 609,354. MILKARTN. Ernest H. Schlefer. SN 660,447. Pub. 4-26-55. Filed 2-1-54.
- 609,355. ICEKEEP. Brewster Handcraft Industries, Inc. SN 664,211. Pub. 4-26-55. Filed 4-9-54.
- 609,356. HARRY DARBY. The Darby Products of Steel Plate Corporation, d. b. a. The Darby Corporation. SN 664,298. Pub. 4-26-55. Filed 4-12-54.
- 609,357. DARBY. The Darby Products of Steel Plate Corporation, d. b. a. The Darby Corporation. SN 664,299. Pub. 4-26-55. Filed 4-12-54.
- 609,358. HD SYMBOL (REPRESENTATION OF AN EAGLE). The Darby Products of Steel Plate Corporation, d. b. a. The Darby Corporation. SN 664,300. Pub. 4-26-55. Filed 4-12-54.
- 609,359. "DUO-SERVE." Old Colony Envelope Company. SN 669,353. Pub. 5-3-55. Filed 7-2-54.
- 609,360. DESIGN OF OWL. Red Owl Stores, Inc. SN 671,676. Pub. 4-26-55. Filed 8-13-54.
- 609,361. POLYSKIN. Central States Paper & Bag Co. SN 672,047. Pub. 5-3-55. Filed 8-23-54.

### CLASS 4

- 609,362. PERMACEL AND LETTER P. Permacel Tape Corporation. SN 654,071. Pub. 5-3-55. Filed 10-1-53.
- 609,363. AITOX. Dronsfeld Brothers Limited. SN 671,244. Pub. 5-3-55. Filed 8-6-54.

### CLASS 5

- 609,364. UNIPLAST. Postmatic Company. SN 644,568. Pub. 5-3-55. Filed 4-1-53.
- 609,365. TUFF-TEX. The Flintkote Company. SN 672,730. Pub. 5-3-55. Filed 9-3-54.

### CLASS 6

- 609,366. MOISTURE MAGNET AND DESIGN. Golden Peacock Co., Inc. SN 648,854. Pub. 12-14-54. Filed 6-16-53.
- 609,367. STATOFIX. Société Statofix Transcontinental. SN 650,742. Pub. 4-26-55. Filed 7-23-53.

TM 696 O. G.-21

609,368. OHIO APEX FMC, ETC., AND DESIGN. Food Machinery and Chemical Corporation. SN 650,986. Pub. 3-15-55. Filed 7-28-53.

609,369. PAKOLOR. Associated British-Pathe Limited. SN 656,875. Pub. 5-3-55. Filed 11-24-53.

609,370. SYNOFORM. Vita-Zahnfabrik H. Rauter K. G. SN 658,089. Pub. 5-3-55. Filed 12-16-53.

609,371. MOVIO. Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Brüning. SN 658,253. Pub. 5-3-55. Filed 12-21-53.

609,372. GASETERIA AND DESIGN. Gaseteria, Inc. SN 658,268. Pub. 5-3-55. Filed 12-21-53.

609,373. VIVIFIX. General Aniline & Film Corporation, d. b. a. Ansco. SN 659,143. Pub. 5-3-55. Filed 1-7-54.

609,374. VIVISTOP. General Aniline & Film Corporation, d. b. a. Ansco. SN 659,144. Pub. 5-3-55. Filed 1-7-54.

609,375. SEPTIC AIDE. Circle Research Laboratories, Inc. SN 661,933. Pub. 4-26-55. Filed 3-3-54.

609,376. MEARLCRETE. Mearl Manufacturing Corp. SN 663,380. Pub. 5-3-55. Filed 3-26-54.

609,377. GRIFFCO. Griffin Chemical Company. SN 663,571. Pub. 5-3-55. Filed 3-30-54.

609,378. PROJECT X. Industrial Soap Company. SN 665,050. Pub. 5-3-55. Filed 4-22-54.

609,379. UREFOAM. The Atlas Mineral Products Company of Pennsylvania. SN 665,992. Pub. 5-3-55. Filed 5-10-54.

### CLASS 7

609,380. CYPRESS AND DESIGN. Shuford Mills, Incorporated. SN 624,857. Pub. 4-26-55. Filed 2-12-52.

609,381. IRONWOOD AND DESIGN. Shuford Mills, Incorporated. SN 624,860. Pub. 4-26-55. Filed 2-12-52.

609,382. REDWOOD AND DESIGN. Shuford Mills, Incorporated. SN 624,862. Pub. 4-26-55. Filed 2-12-52.

609,383. FLEXALUM. Hunter Douglas Corporation, to Hunter Douglas Corporation. SN 671,032. Pub. 4-26-55. Filed 8-3-54.

### CLASS 8

609,384. WHIZ AND DESIGN. Whiz Manufacturing Co. SN 659,586. Pub. 4-26-55. Filed 1-15-54.

609,385. SMOKE MATE. London Leather Novelties. SN 673,109. Pub. 4-26-55. Filed 9-13-54.

### CLASS 9

609,386. REGULAIDER. George G. Oberfell. SN 657,448. Pub. 4-19-55. Filed 12-4-53.

609,387. BLACK FURY. B. L. Merchant. SN 670,055. Pub. 4-26-55. Filed 7-15-54.

609,388. NORMA. Aktiebolaget Norma Projektilfabrik. SN 670,268. Pub. 4-19-55. Filed 7-20-54.

### CLASS 10

609,389. TENNCO. Tennessee Corporation. SN 649,843. Pub. 4-19-55. Filed 7-3-53.

609,390. TENNCOMIN. Tennessee Corporation. SN 649,844. Pub. 4-19-55. Filed 7-3-53.

609,391. MIDCO. California Spray-Chemical Corporation. SN 661,259. Pub. 4-26-55. Filed 2-18-54.

609,392. GRANULITE AG-SLAG. Gerard H. Doscher, d. b. a. The Granulite Company. SN 664,926. Pub. 4-26-55. Filed 4-21-54.

609,393. WIL-GRO. Willbur-Ellis Company. SN 669,303. Pub. 4-19-55. Filed 7-1-54.

609,394. NITRO-GREEN. Liberty Manufacturing Company. SN 670,744. Pub. 4-19-55. Filed 7-28-54.

609,395. LAVA-LOAM. Texas Lightweight Products Company. SN 671,218. Pub. 4-26-55. Filed 8-5-54.

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## CLASS 11

- 609,396. SPUN-TIP. Anthony G. Rosa. SN 672,689. Pub. 4-19-55. Filed 9-2-54.

## CLASS 12

- 609,397. WELDTX AND DESIGN. United States Plywood Corporation. SN 569,783. Pub. 5-10-55. Filed 12-2-48.
- 609,398. STAY-STRATE. United States Plywood Corporation. SN 626,647. Pub. 5-3-55. Filed 3-18-52.
- 609,399. PK PRE-KUT AND DESIGN. Dallas Iron & Wire Works, Inc. SN 649,076. Pub. 4-26-55. Filed 6-19-53.
- 609,400. HOOKBOARD. Samuel Dresner. SN 650,787. Pub. 4-26-55. Filed 7-24-53.
- 609,401. HORTONHOME. Chicago Bridge & Iron Company. SN 660,317. Pub. 4-26-55. Filed 1-29-54.
- 609,402. BEST-VENT. Per-Fit Products Corporation. SN 661,832. Pub. 4-26-55. Filed 3-1-54.
- 609,403. E-ZEE LOC. General Woodcraft Co., Inc. SN 665,903. Pub. 4-19-55. Filed 5-7-54.
- 609,404. LANIO DO-IT-YOURSELF AWNING. Lando Products, Inc. SN 666,287. Pub. 4-26-55. Filed 5-13-54.
- 609,405. WOODTAPE. Puget Modern, Inc. SN 671,190. Pub. 4-26-55. Filed 8-5-54.
- 609,406. NOVOTILE. United States Plywood Corporation. SN 672,461. Pub. 5-3-55. Filed 8-30-54.
- 609,407. VARITEX. The Celotex Corporation. SN 673,006. Pub. 5-3-55. Filed 9-10-54.
- 609,408. AMVERLITE. American Vermiculite Corporation. SN 673,220. Pub. 5-3-55. Filed 9-15-54.
- 609,409. AMERICAN BEAUTY AND DESIGN. Dallas Iron & Wire Works, Inc. SN 675,367. Pub. 5-3-55. Filed 10-25-54.
- 609,410. TIM-BEAM. Timber Structures, Inc. SN 675,447. Pub. 5-3-55. Filed 10-25-54.
- 609,411. PARKPORT. Parkersburg-Aetna Corporation. SN 675,580. Pub. 5-3-55. Filed 10-27-54.

## CLASS 13

- 609,412. BIW. American Locomotive Company, now by change of name Alco Products, Incorporated. SN 672,211. Pub. 4-5-55. Filed 8-25-54.

## CLASS 14

- 609,413. HERALDRY—REPRESENTATION OF A SHIELD. Durham Chemicals Limited. SN 667,023. Pub. 4-26-55. Filed 5-25-54.
- 609,414. "ALNISI." Union Plate and Wire Co. SN 668,357. Pub. 4-26-55. Filed 6-16-54.

## CLASS 15

- 609,415. LABO, ETC. AND DESIGN. Société à Responsabilité Limitée Dite: Société des Huiles Labo. SN 654,007. Pub. 4-26-55. Filed 9-30-53.

## CLASS 16

- 609,416. TOP-KOTE WITHIN DIAMOND. Champion Textile Finishing Co. SN 625,458. Pub. 4-26-55. Filed 2-25-52.
- 609,417. TEX TEST AND DESIGN. Texas Plastic Development Co. SN 659,161. Pub. 5-3-55. Filed 1-7-54.
- 609,418. REXON. Hamilton Kent Manufacturing Company. SN 672,001. Pub. 5-3-55. Filed 8-20-54.
- 609,419. WALLHIDE. Pittsburgh Plate Glass Company. SN 672,975. Pub. 5-3-55. Filed 9-9-54.
- 609,420. SIGN-WRITER. U. S. Packaging Corporation. SN 673,256. Pub. 5-3-55. Filed 9-15-54.
- 609,421. BUR-CHEM. Burbank Chemical Co. SN 674,561. Pub. 5-3-55. Filed 10-11-54.

## CLASS 17

- 609,422. PETER STUYVESANT. Rembrandt Tobacco Corporation (Overseas) Limited. SN 668,412. Pub. 4-26-55. Filed 6-17-54.
- 609,423. MI-KEL AND DESIGN. Cuban Cigar Company. SN 672,722. Pub. 4-26-55. Filed 9-3-54.

## CLASS 18

- 609,424. PUOVERINE. Sandoz Chemical Works, Inc. SN 647,880. Pub. 11-17-53. Filed 5-28-53.
- 609,425. LION CROSS. Lion Cross, Inc. SN 656,723. Pub. 5-10-55. Filed 11-20-53.
- 609,426. GREEN FROST TRIPLE ACTION FOOT LOTION. Excello Drug Products, Inc. SN 657,767. Pub. 5-10-55. Filed 12-10-53.
- 609,427. FOOT REST. Quality Chemists, Inc. SN 659,493. Pub. 8-10-54. Filed 1-14-54.
- 609,428. FLAVOR-FEEN. Atomic Basic Chemicals Corporation. SN 661,253. Pub. 5-3-55. Filed 2-18-54.
- 609,429. SUSTABARB. Intermedico Corporation. SN 663,913. Pub. 5-10-55. Filed 4-5-54.
- 609,430. BONADOXIN. Chas. Pfizer & Co., Inc. SN 665,062. Pub. 5-10-55. Filed 4-22-54.
- 609,431. MYVAPACK. Eastman Kodak Company. SN 665,349. Pub. 5-3-55. Filed 4-28-54.
- 609,432. BLANDETS. Merck & Co., Inc. SN 668,402. Pub. 5-10-55. Filed 6-17-54.
- 609,433. PLEOVIRIN. Merck & Co., Inc. SN 668,403. Pub. 5-10-55. Filed 6-17-54.
- 609,434. VITACAMPHER. Takeda Pharmaceutical Industries, Limited. SN 668,871. Pub. 5-3-55. Filed 6-24-54.
- 609,435. EDRON. Ewald W. Stoltz, d. b. a. Stoltz Drugs. SN 669,942. Pub. 5-10-55. Filed 7-13-54.
- 609,436. CEL-ATE. Vernon R. Blizzard and Donald C. Sussman, d. b. a. Waterman Drug. SN 670,027. Pub. 5-3-55. Filed 7-15-54.
- 609,437. "DOC" OWL AND DESIGN (REPRESENTATION OF AN OWL). Birdie-Cure Company. SN 670,158. Pub. 5-10-55. Filed 7-19-54.
- 609,438. DELAGRAM. Pacific States Laboratories, Inc. SN 671,051. Pub. 5-10-55. Filed 8-3-54.
- 609,439. ERVASIL. Warner-Hudnut, Inc. SN 671,697. Pub. 5-3-55. Filed 8-13-54.
- 609,440. CEBENASE. The Upjohn Company. SN 672,324. Pub. 5-10-55. Filed 8-26-54.
- 609,441. ESTRAYER. Chicago Pharmacal Company. SN 672,718. Pub. 5-10-55. Filed 9-3-54.
- 609,442. ARTHRI-PAX. Clinical Products Limited. SN 672,801. Pub. 4-26-55. Filed 9-7-54.
- 609,443. NASOESE. Universal Laboratory Company, Inc. SN 673,210. Pub. 5-3-55. Filed 9-14-54.
- 609,444. CYESICAP. American Cyanamid Company. SN 673,258. Pub. 4-26-55. Filed 9-16-54.
- 609,445. VIDETTES. Drugmaster, Inc. SN 673,432. Pub. 5-3-55. Filed 9-20-54.
- 609,446. NARTON. The Gland-O-Lac Company. SN 673,515. Pub. 5-3-55. Filed 9-21-54.
- 609,447. ANICOT. The Purdue Frederick Company. SN 674,092. Pub. 5-3-55. Filed 9-30-54.
- 609,448. VIRAC (REPRESENTATION OF A PRESCRIPTION MARK). Ruson Laboratories, Incorporated. SN 674,095. Pub. 5-10-55. Filed 9-30-54.
- 609,449. SURZANA. Sereda Drugs Limited. SN 674,288. Pub. 5-3-55. Filed 10-4-54.
- 609,450. REPINE. Benson-Nielsen Laboratories, Inc. SN 674,313. Pub. 5-3-55. Filed 10-5-54.
- 609,451. TALS. The Pharma-Craft Corporation, now by change of name Pharma-Craft Corporation. SN 674,347. Pub. 5-3-55. Filed 10-5-54.
- 609,452. INTAVINIC. Chas. Pfizer & Co., Inc. SN 674,763. Pub. 5-10-55. Filed 10-13-54.

## CLASS 19

- 609,453. CHEK-CHIP. Gilbert B. Miras, d. b. a. Carmac Company. SN 653,986. Pub. 4-26-55. Filed 9-30-53.
- 609,454. AERIUS. Klepper Company. SN 665,711. Pub. 4-26-55. Filed 5-4-54.
- 609,455. LOFT LINER. Ventoura Corporation. SN 672,027. Pub. 4-26-55. Filed 8-20-54.

- 609,456. HESTER SPORTSMAN AND DESIGN. James H. Hester, d. b. a. Hester Sportsman. SN 677,564. Pub. 4-26-55. Filed 12-1-54.
- 609,457. TERRI-ETTES. Crawford Manufacturing Co., Inc. SN 677,642. Pub. 4-26-55. Filed 12-2-54.

## CLASS 21

- 609,458. LONG LIFE. Vitalic Battery Company, Inc. SN 626,430. Pub. 6-15-54. Filed 3-13-52.
- 609,459. REPRESENTATION OF CHEF'S HEAD. Dormeyer Corporation. SN 637,042. Pub. 2-1-55. Filed 10-23-52.
- 609,460. 'ARMICO' (FANCIFUL). Armature & Ignition Supply Co. SN 652,819. Pub. 5-3-55. Filed 9-8-53.
- 609,461. VARIDRIVE. U. S. Electrical Motors, Inc. SN 656,475. Pub. 5-3-55. Filed 11-16-53.
- 609,462. BINOTROL. Olympic Radio & Television, Inc. SN 661,659. Pub. 5-3-55. Filed 2-25-54.
- 609,463. WINDOWBRAIN. F. P. Fletcher & Sons. SN 662,623. Pub. 5-3-55. Filed 3-15-54.
- 609,464. DOGGY GRILL. Donald C. Williams. SN 662,700. Pub. 5-3-55. Filed 3-15-54.
- 609,465. AIR CORE. American Phenolic Corporation. SN 667,921. Pub. 5-3-55. Filed 6-9-54.
- 609,466. BALEX. Pierre Barthelemy Van Doren. SN 670,711. Pub. 4-26-55. Filed 7-27-54.
- 609,467. SYNCHRO TIMER. Niles-Bement-Pond Company. SN 670,754. Pub. 4-26-55. Filed 7-28-54.
- 609,468. RELIANCE. Chas. F. L'Hommiedieu & Sons, Co. SN 671,573. Pub. 4-26-55. Filed 8-12-54.
- 609,469. GILBERT HALL OF SCIENCE. The A. C. Gilbert Company. SN 672,072. Pub. 4-26-55. Filed 8-23-54.
- 609,470. HY-THERM AND DESIGN. William L. Hopkins, d. b. a. Hopkins Engineering Company. SN 672,152. Pub. 4-26-55. Filed 8-24-54.
- 609,471. KENMORE. Sears, Roebuck and Co. SN 672,446. Pub. 4-26-55. Filed 8-30-54.
- 609,472. "ECHOTRON." Columbia Broadcasting System, Inc. SN 672,495. Pub. 4-26-55. Filed 8-31-54.
- 609,473. "REVERBETRON." Columbia Broadcasting System, Inc. SN 672,496. Pub. 4-26-55. Filed 8-31-54.
- 609,474. SCOTCHCAST. Minnesota Mining and Manufacturing Co. SN 672,522. Pub. 4-26-55. Filed 8-31-54.
- 609,475. THIN-A. Yankee Metal Products Corp. SN 672,550. Pub. 4-26-55. Filed 8-31-54.
- 609,476. DL. Deluxe Coils, Inc. SN 672,931. Pub. 4-26-55. Filed 9-9-54.
- 609,477. CERAMELEX. Erie Resistor Corporation. SN 672,933. Pub. 4-26-55. Filed 9-9-54.
- 609,478. KNEE ACTION. John Oster Manufacturing Company. SN 672,972. Pub. 4-26-55. Filed 9-9-54.
- 609,479. ANTENNA RAMA. The Ward Products Corporation. SN 673,068. Pub. 4-26-55. Filed 9-10-54.
- 609,480. SABRE. John R. Wells, d. b. a. Welco Mfg. Co., now known as Welco Development Co. SN 673,071. Pub. 4-26-55. Filed 9-10-54.
- 609,481. BAR-B-FRANK. Samuel Abelson, d. b. a. Dalason Products Mfg. Co. SN 673,151. Pub. 4-26-55. Filed 9-14-54.
- 609,482. REPRESENTATION OF HAND GRIPPING ROD IN OVAL. Dings Magnetic Separator Co. SN 673,227. Pub. 4-26-55. Filed 9-15-54.
- 609,483. CELL-O-MATIC. Electro-Acid Corporation. SN 673,433. Pub. 4-26-55. Filed 9-20-54.
- 609,484. HEAROVISION. Donald F. Smallwood, d. b. a. D. F. Smallwood Co. SN 673,481. Pub. 4-26-55. Filed 9-20-54.
- 609,485. "SARCOM." The W. H. Reiserer Mfg. Co., Inc. SN 674,011. Pub. 5-3-55. Filed 9-29-54.
- 609,486. ALARM SERVICE AND DESIGN. Alarm Service, Inc. SN 674,786. Pub. 5-3-55. Filed 10-14-54.
- 609,487. THE UNICORN AND DESIGN (REPRESENTATION OF A UNICORN). American Screen Products Company. SN 675,251. Pub. 5-3-55. Filed 10-22-54.
- 609,488. VDS. McGraw Electric Company. SN 676,648. Pub. 5-3-55. Filed 11-15-54.

- 609,489. MINIBANK. A. B. Metal Products Limited. SN 676,703. Pub. 5-3-55. Filed 11-16-54.
- 609,490. REPRESENTATION OF A CROWN. Crown Controls Company, Inc. SN 676,876. Pub. 5-3-55. Filed 11-18-54.
- 609,491. "CONTROL IT" AND DESIGN. John C. Whiddett Co. SN 676,925. Pub. 5-3-55. Filed 11-18-54.
- 609,492. MIRACLE AIR. Reuben A. Gilleland, d. b. a. Atlas Ozone Mfg. Co. SN 676,950. Pub. 5-3-55. Filed 11-19-54.
- 609,493. PRINTATE AND DESIGN. American Printed Circuits Company. SN 677,195. Pub. 5-3-55. Filed 11-24-54.
- 609,494. COMVOR. Radio Frequency Laboratories, Inc. SN 677,242. Pub. 5-3-55. Filed 11-24-54.
- 609,495. STEACAP. Micamold Radio Corporation. SN 677,518. Pub. 5-3-55. Filed 11-30-54.
- 609,496. PRECISE. Precise Manufacturing Company, Inc. SN 677,603. Pub. 5-3-55. Filed 12-1-54.
- 609,497. ZIM AND DESIGN. R. E. Zimmerman & Son. SN 677,620. Pub. 5-3-55. Filed 12-1-54.
- 609,498. DI AND DESIGN. Daystrom, Incorporated. SN 677,644. Pub. 5-3-55. Filed 12-2-54.
- 609,499. SIZZ-L-GLAS. Electriglas Corporation. SN 677,647. Pub. 5-3-55. Filed 12-2-54.
- 609,500. CLEVITE BRUSH, ETC., AND DESIGN. Clevite Corporation. SN 677,697. Pub. 5-3-55. Filed 12-3-54.
- 609,501. BROWNIE. Eastman Kodak Company. SN 677,701. Pub. 5-3-55. Filed 12-3-54.
- 609,502. ROTORAMA AND DESIGN. Victor J. Terre. SN 677,747. Pub. 5-3-55. Filed 12-3-54.
- 609,503. ZIMCOM. Victoria Silk Press, Inc. SN 680,336. Pub. 5-3-55. Filed 1-21-55.

## CLASS 22

- 609,504. JOHNNY WALKER. David Steinman. SN 633,002. Pub. 1-19-54. Filed 7-24-52.
- 609,505. MERRI MARINER AND DESIGN. Nat P. Steckler, d. b. a. EZ Products. SN 641,751. Pub. 5-3-55. Filed 2-4-53.
- 609,506. LAMIGLAS. Lamiglas Company. SN 649,518. Pub. 11-24-53. Filed 6-29-53.
- 609,507. BAT-A-BASE. James E. Gibson, Jr., d. b. a. Fil-Back Co., to The Fil-Back Company, Inc. SN 649,937. Pub. 4-26-55. Filed 7-7-53.
- 609,508. SPIN-IN HERRY. Tradewinds, Inc. SN 650,230. Pub. 4-26-55. Filed 7-13-53.
- 609,509. POLLYWOG. Clarence A. Crooker, d. b. a. Pollywog Spinner Co. SN 653,293. Pub. 4-26-55. Filed 9-17-53.
- 609,510. SNAP-TRACK AND DESIGN. Atlas Tool Company, Inc. SN 660,104. Pub. 5-3-55. Filed 1-26-54.
- 609,511. N. E. M. TOYS AND DESIGN. James D. Ross. SN 661,665. Pub. 5-3-55. Filed 2-25-54.
- 609,512. LIARS POKER. Robert E. Dally. SN 661,783. Pub. 4-26-55. Filed 3-1-54.
- 609,513. GOLF PRIDE. Fawick Flexi-Grip Co. SN 663,650. Pub. 4-26-55. Filed 3-31-54.
- 609,514. IMPERIAL AND DESIGN. Donald F. Duncan, Incorporated. SN 666,745. Pub. 5-3-55. Filed 5-20-54.
- 609,515. THE VEE BEE FLY. Vera and Bill Equitz. SN 667,799. Pub. 5-3-55. Filed 6-7-54.
- 609,516. RAPIDO. Felix Terrier. SN 669,506. Pub. 4-26-55. Filed 7-6-54.
- 609,517. VOIT. W. J. Volt Rubber Corp. SN 672,124. Pub. 4-26-55. Filed 8-23-54.

## CLASS 23

- 609,518. SALADMASTER. Kitchen-Quip, Inc. SN 528,131. Pub. 3-21-50. Filed 7-8-47.
- 609,519. JIFFY-PICK. Dixie Spindle & Flyer Company, Inc. SN 641,021. Pub. 5-3-55. Filed 1-21-53.
- 609,520. TUBOPLAST. Tuboplast S. A. SN 645,748. Pub. 5-3-55. Filed 4-22-53.



- 609,521. UTICA TOOLS. Utica Drop Forge & Tool Corporation. SN 647,735. Pub. 5-3-55. Filed 5-26-53.
- 609,522. UTICA TOOLS AND THREE DIAMOND DESIGN. Utica Drop Forge & Tool Corporation. SN 647,736. Pub. 5-3-55. Filed 5-26-53.
- 609,523. SUPER-CHROME. Mission Manufacturing Company. SN 658,015. Pub. 4-26-55. Filed 12-15-53.
- 609,524. THE "SPARKY JIG" AND DESIGN. Munzio S. Oteri, d. b. a. Photo Process Screen Mfg. Co. SN 668,338. Pub. 5-3-55. Filed 6-16-54.
- 609,525. KNAPP. Norman E. Knapp, d. b. a. Knapp Plow Company. SN 669,450. Pub. 5-3-55. Filed 7-6-54.
- 609,526. DEW (GEOMETRIC DESIGN). Deutsche Edelstahlwerke Aktiengesellschaft. SN 669,536. Pub. 5-3-55. Filed 7-7-54.
- 609,527. BIW. American Locomotive Company, now by change of name Alco Products, Incorporated. SN 672,210. Pub. 4-19-55. Filed 8-25-54.
- 609,528. GYROTOR. Hardinge Company, Inc. SN 673,446. Pub. 5-3-55. Filed 9-20-54.

## CLASS 24

- 609,529. ARVIN. Arvin Industries, Inc. SN 671,296. Pub. 4-26-55. Filed 8-9-54.

## CLASS 26

- 609,530. MICROPULSE AND DESIGN. Barber-Colman Company. SN 619,442. Pub. 4-26-55. Filed 10-1-51.
- 609,531. VERITAR. Wollensak Optical Company. SN 639,356. Pub. 5-3-55. Filed 12-11-52.
- 609,532. IEC INDUSTRIAL ENGINEERING CORP. AND DESIGN. Industrial Engineering Corporation. SN 642,226. Pub. 5-3-55. Filed 2-13-53.
- 609,533. PHOTOWRITER. Frank E. Oller. SN 644,442. Pub. 5-3-55. Filed 3-30-53.
- 609,534. SAFE-WEIGH. Aaron W. Johnson. SN 646,619. Pub. 5-3-55. Filed 5-7-53.
- 609,535. M-MARK OF MERIT AND DESIGN. Modern Laboratory Equipment Co., Inc. SN 647,084. Pub. 4-26-55. Filed 5-15-53.
- 609,536. TRI-DENSITY. Walter Goldstein, d. b. a. Zenith Optical Laboratory. SN 648,715. Pub. 5-3-55. Filed 6-12-53.
- 609,537. LEARSYN. Lear, Incorporated. SN 653,980. Pub. 4-26-55. Filed 9-30-53.
- 609,538. AUTOLLIZER. The North Electric Manufacturing Company. SN 653,990. Pub. 5-3-55. Filed 9-30-53.
- 609,539. CALGON. Calgon, Incorporated. SN 658,575. Pub. 5-3-55. Filed 12-28-53.
- 609,540. ELGEET. Elgeet Optical Company, Inc. SN 658,709. Pub. 5-3-55. Filed 12-29-53.
- 609,541. HI AND DESIGN. Hanman Instruments Company. SN 661,197. Pub. 4-26-55. Filed 2-17-54.
- 609,542. ELAC AND DESIGN. Electroacoustic G. m. b. H. SN 661,622. Pub. 5-3-55. Filed 2-25-54.
- 609,543. ELECTROACUSTIC. Electroacoustic G. m. b. H. SN 661,623. Pub. 5-3-55. Filed 2-25-54.
- 609,544. AREASCOPE. Rugcrofters, Inc. SN 661,909. Pub. 4-26-55. Filed 3-2-54.
- 609,545. AUDAR. Radio Industries Corporation. SN 663,122. Pub. 5-3-55. Filed 3-23-54.
- 609,546. HEADLINER. Bell & Howell Company. SN 663,343. Pub. 11-16-54. Filed 3-26-54.
- 609,547. FINETAR. Peter Sarabér. SN 663,396. Pub. 5-3-55. Filed 3-26-54.
- 609,548. FINON. Peter Sarabér. SN 663,397. Pub. 4-26-55. Filed 3-26-54.
- 609,549. NAUTILUS. Globe Rubber Products Corporation. SN 663,903. Pub. 5-3-55. Filed 4-5-54.
- 609,550. CHUB-DEB. Advance Pattern Co., Inc. SN 663,991. Pub. 5-3-55. Filed 4-6-54.
- 609,551. RAPID-EASY. Oliver M. Cook, d. b. a. Cook & Company. SN 666,002. Pub. 5-3-55. Filed 5-10-54.
- 609,552. FAIRCHILD. Fairchild Camera and Instrument Corporation. SN 666,935. Pub. 4-19-55. Filed 5-24-54.

- 609,553. BA. Baird Associates, Inc. SN 667,369. Pub. 5-3-55. Filed 6-1-54.
- 609,554. CHUB-TEEN. Advance Pattern Co., Inc. SN 669,721. Pub. 5-3-55. Filed 7-12-54.
- 609,555. SHURON AND DESIGN. Shuron Optical Company, Inc. SN 670,245. Pub. 5-3-55. Filed 7-19-54.
- 609,556. GIANNINI AND DESIGN. G. M. Giannini & Co., Inc. SN 670,423. Pub. 5-3-55. Filed 7-22-54.
- 609,557. SURFINDICATOR. Clevite Corporation. SN 671,882. Pub. 4-26-55. Filed 8-18-54.
- 609,558. TENSILGRAPH. Scott Testers, Inc. SN 671,966. Pub. 4-26-55. Filed 8-19-54.
- 609,559. DRILLOGRAPH. Drillograph Company, Inc. SN 672,059. Pub. 4-26-55. Filed 8-23-54.
- 609,560. QUESTAR. Questar Corporation. SN 672,101. Pub. 4-26-55. Filed 8-23-54.
- 609,561. STAR RECORDER. The Star Recorder Corporation. SN 672,112. Pub. 4-26-55. Filed 8-23-54.
- 609,562. MICRONTA. Radio Shack Corporation. SN 672,248. Pub. 5-3-55. Filed 8-25-54.
- 609,563. TRI-X. Eastman Kodak Company. SN 672,501. Pub. 5-3-55. Filed 8-31-54.
- 609,564. SIGNET. Eastman Kodak Company. SN 672,502. Pub. 5-3-55. Filed 8-31-54.
- 609,565. TRIMISTOR. Bourns Laboratories, Inc. SN 672,627. Pub. 4-26-55. Filed 9-2-54.
- 609,566. MINOLTACORD. Chiyoda Kogaku Selko Kabushiki Kaisha. SN 672,636. Pub. 5-3-55. Filed 9-2-54.
- 609,567. WEDCO AND DESIGN. Wyble Engineering Development Corp. SN 672,768. Pub. 4-26-55. Filed 9-3-54.
- 609,568. VARIO. Alfred Gauthier G. m. b. H. SN 672,772. Pub. 4-26-55. Filed 8-23-54.
- 609,569. DIAGON. M. Hensoldt & Söhne, Optische Werke A. G. SN 672,816. Pub. 5-3-55. Filed 9-7-54.
- 609,570. DIAMAL. M. Hensoldt & Söhne, Optische Werke A. G. SN 672,817. Pub. 5-3-55. Filed 9-7-54.

## CLASS 28

- 609,571. CARIBE DIAMONDS. Caribe Diamond Works, Inc. SN 657,877. Pub. 5-3-55. Filed 12-14-53.
- 609,572. ESTRELLITA AND DESIGN. Orber Manufacturing Company. SN 670,608. Pub. 3-15-55. Filed 7-26-54.

## CLASS 29

- 609,573. ROLLER-AID. McBell Enterprises, Inc. SN 668,569. Pub. 4-26-55. Filed 6-21-54.
- 609,574. ROLLER-MATE. McBell Enterprises, Inc. SN 668,570. Pub. 4-26-55. Filed 6-21-54.
- 609,575. RED OWL AND DESIGN (OWL). Red Owl Stores, Inc. SN 671,674. Pub. 4-26-55. Filed 8-13-54.
- 609,576. LONEL. E Z Palntz Corporation. SN 671,814. Pub. 4-26-55. Filed 8-17-54.

## CLASS 30

- 609,577. THERMO-STONE. Litestar, Inc. SN 661,715. Pub. 12-21-54. Filed 2-26-54.
- 609,578. TERRACEWARE. Shenango Pottery Company. SN 663,128. Pub. 5-3-55. Filed 3-23-54.
- 609,579. T S & T, ETC., ON A SHIELD DESIGN. The Taylor, Smith & Taylor Company. SN 667,062. Pub. 5-3-55. Filed 5-25-54.

## CLASS 31

- 609,580. FRIGID-BLAST AND DESIGN. The Vilter Manufacturing Co. SN 638,335. Pub. 5-3-55. Filed 11-19-52.
- 609,581. BREW-BRITE. The Eaton-Dikeman Company. SN 666,179. Pub. 4-19-55. Filed 5-12-54.
- 609,582. E & D AND DESIGN. The Eaton-Dikeman Company. SN 666,181. Pub. 4-19-55. Filed 5-12-54.
- 609,583. MISTER ICE AND DESIGN. The Freezit Corporation of America. SN 666,748. Pub. 4-19-55. Filed 5-20-54.
- 609,584. BAC-T-FLEX. Carl Schleicher & Schuell Company, Inc. SN 667,582. Pub. 4-19-55. Filed 6-2-54.

- 609,585. CONDITIONETTE. Weldon M. Gallagher. SN 668,652. Pub. 4-19-55. Filed 6-22-54.
- 609,586. SEPARMATIC, INC., S IN OVAL DESIGN. Separmatic, Inc. SN 669,038. Pub. 4-19-55. Filed 6-28-54.
- 609,587. P AND M. Pooley Machine Company. SN 672,840. Pub. 5-3-55. Filed 9-7-54.
- 609,588. REPRESENTATION OF A CREST-SHIELD. Gibson Refrigerator Company. SN 673,020. Pub. 5-3-55. Filed 9-10-54.

## CLASS 32

- 609,589. SPRING AIR. The Spring-Air Company. SN 662,960. Pub. 4-26-55. Filed 3-19-54.
- 609,590. BOY DRESSED AS COWBOY SEATED ON CHAIR. The Toldey Company, Gertrude A. Muller, Inc. SN 665,154. Pub. 4-26-55. Filed 4-23-54.
- 609,591. FIRIMPOISE. Lukens Manufacturing Co. SN 671,044. Pub. 4-26-55. Filed 8-3-54.
- 609,592. SPRINGWALL. Eclipse Sleep Products Inc. SN 671,495. Pub. 4-26-55. Filed 8-11-54.
- 609,593. REST-O-PHIL. Cotton Belt, Inc. SN 672,140. Pub. 4-26-55. Filed 8-24-54.
- 609,594. MODERN-FLOW. Aurora Equipment Company. SN 672,780. Pub. 4-26-55. Filed 9-7-54.

## CLASS 33

- 609,595. TWIN GROUND AND DESIGN. Libbey-Owens-Ford Glass Company. SN 664,951. Pub. 5-3-55. Filed 4-21-54.

## CLASS 34

- 609,596. WARM O FLAYME. Mead & Davis, Inc. SN 654,985. Pub. 5-3-55. Filed 10-19-53.
- 609,597. B G DRYALL, BARBER-GREENE, AND DESIGN. Barber-Greene Company. SN 657,257. Pub. 5-3-55. Filed 12-2-53.
- 609,598. METARSTAN. Compagnie Francaise des Metaux Societe Anonyme. SN 660,190. Pub. 4-12-55. Filed 1-27-54.
- 609,599. FORGEATROL. Delaware Tool Steel Corporation. SN 660,854. Pub. 4-19-55. Filed 2-10-54.
- 609,600. UNITRANE. The Trane Company. SN 662,582. Pub. 4-19-55. Filed 3-12-54.
- 609,601. NATIONAL INDEPENDENT UNION COUNCIL, ETC. AND DESIGN. National Independent Union Council. SN 666,295. CERTIFICATION MARK. Pub. 4-12-55. Filed 5-13-54.
- 609,602. HOME-MASTER AND DESIGN. Western Tire Auto Stores, Inc. SN 666,408. Pub. 4-12-55. Filed 5-14-54.
- 609,603. SEASONMASTER. McQuay, Inc. SN 669,621. Pub. 4-19-55. Filed 7-8-54.
- 609,604. "LIFT-A-TOP." Automatic Range Co., Inc. SN 669,727. Pub. 4-19-55. Filed 7-12-54.
- 609,605. DUCTAIRE. Saul C. Appel, d. b. a. Massachusetts Steam Specialty Co. SN 671,239. Pub. 4-19-55. Filed 8-6-54.
- 609,606. R & M AND DESIGN. Robbins & Myers, Inc. SN 672,249. Pub. 4-12-55. Filed 8-25-54.
- 609,607. LINDE. Union Carbide and Carbon Corporation. SN 673,208. Pub. 5-3-55. Filed 9-14-54.

## CLASS 35

- 609,608. HOLYOKE. Holyoke Belting Company. SN 682,736. Pub. 5-3-55. Filed 3-3-55.

## CLASS 36

- 609,609. ANNIE OAKLEY. Annie Oakley Enterprises, Inc. SN 670,224. Pub. 4-26-55. Filed 7-19-54.

## CLASS 37

- 609,610. KEITH KRESTWEAVE. Keith Paper Company. SN 661,347. Pub. 4-19-55. Filed 2-19-54.
- 609,611. FAMILIFACTS AND DESIGN. The American Historical Company, Inc. SN 661,972. Pub. 4-12-55. Filed 3-4-54.
- 609,612. IN-R-SY. Joseph M. Lukacs. SN 664,955. Pub. 4-12-55. Filed 4-21-54.

- 609,613. CHARMAY. Charmin Paper Mills, Inc. SN 666,263. Pub. 4-12-55. Filed 5-13-54.

- 609,614. PACIFIC SAFETY PAPER. George La Monte & Son. SN 668,672. Pub. 4-12-55. Filed 6-22-54.

- 609,615. LETTER-MATE. Columbia Ribbon & Carbon Manufacturing Company, Inc. SN 669,092. Pub. 4-19-55. Filed 6-20-54.

- 609,616. CELLUCREPE AND DESIGN. Martin Doll, d. b. a. Cellulose Products Company. SN 673,346. Pub. 4-19-55. Filed 9-17-54.

- 609,617. CADILLAC. S. S. Kresge Company. SN 674,748. Pub. 4-19-55. Filed 10-13-54.

## CLASS 38

- 609,618. AMERICAN BOTTLERS OF CARBONATED BEVERAGES. American Bottlers of Carbonated Beverages. SN 583,903. Pub. 8-31-54. Filed 8-24-49.

- 609,619. AMERICAN BOTTLERS OF CARBONATED BEVERAGES AND DESIGN. American Bottlers of Carbonated Beverages. SN 583,904. Pub. 8-31-54. Filed 8-24-49.

- 609,620. —RESPONS'N BLOTTER—. Sylvan Sussner. SN 643,926. Pub. 5-3-55. Filed 3-19-53.

- 609,621. DI AND DESIGN (REPRESENTATION OF TWO GLOBES). Dresser Industries, Inc. SN 664,928. Pub. 5-3-55. Filed 4-21-54.

- 609,622. ELABORACIONES Y ENVASES. Canterbury Press. SN 665,182. Pub. 5-3-55. Filed 4-26-54.

- 609,623. BEDDING AND DESIGN. National Association of Bedding Manufacturers. SN 669,461. Pub. 5-3-55. Filed 7-6-54.

- 609,624. THE DO-IT FAMILY. Vital Publications, Inc. SN 675,931. Pub. 5-3-55. Filed 11-2-54.

- 609,625. THE DAILY BOND BUYER. The Bond Buyer. SN 676,174. Pub. 5-3-55. Filed 11-8-54.

- 609,626. THE BOND BUYER. The Bond Buyer. SN 676,175. Pub. 5-3-55. Filed 11-8-54.

- 609,627. THE BEARING ENGINEER AND DESIGN. The Torrington Company. SN 676,253. Pub. 5-3-55. Filed 11-8-54.

## CLASS 39

- 609,628. DUOLON. H. Daroff & Sons. SN 639,157. Pub. 5-3-55. Filed 12-8-52.

- 609,629. ALDO MAZZINI. Tory Hat Co. Inc. SN 639,966. Pub. 3-29-55. Filed 12-23-52.

- 609,630. NAP-A-JAMA. Bonnie Dee Products. SN 641,170. Pub. 3-29-55. Filed 1-23-53.

- 609,631. KISMET. James L. Terkelson, d. b. a. Kismet. SN 645,679. Pub. 5-10-55. Filed 4-21-53.

- 609,632. FAMOUS ADVANCE TIES AND DESIGN. Arthur Gold, d. b. a. Advance Neckwear Co. SN 648,168. Pub. 5-3-55. Filed 6-3-53.

- 609,633. AA1 CLASSICS. Aaron Bros. SN 649,406. Pub. 6-8-54. Filed 6-26-53.

- 609,634. RUB A' DUB. L. Greif & Bro., Inc. SN 654,215. Pub. 4-5-55. Filed 10-5-55.

- 609,635. TIDYKINS. Tidy Products Company, to Tidykins, Inc. SN 654,701. Pub. 3-15-55. Filed 10-18-53.

- 609,636. VELOUR-ETTE. Goldstein Millinery Company. SN 655,055. Pub. 4-5-55. Filed 10-20-53.

- 609,637. GOBSHOPS "PRICES ARE BORN HERE AND RAISED ELSEWHERE." Sterling Stores Corporation, now by change of name Gob Shops of America, Inc. SN 660,756. Pub. 3-29-55. Filed 2-8-54.

- 609,638. DICKIES AND DESIGN (REPRESENTATION OF A HORSESHOE). Williamson-Dickie Manufacturing Company. SN 664,115. Pub. 4-19-55. Filed 4-7-54.

- 609,639. HAPPY CUB AND BEAR DESIGN. Salant & Salant, Inc. SN 665,442. Pub. 5-3-55. Filed 4-29-54.

- 609,640. CRYLOR. Societe Rhodiaca. SN 668,792. Pub. 3-29-55. Filed 6-23-54.

- 609,641. "CABLE CAP." Hyman Glasberg, d. b. a. Evelyn Hat Company. SN 671,098. Pub. 3-29-55. Filed 8-4-54.

- 609,642. PECOS BILL. Gee Manufacturing Co., Inc. SN 672,407. Pub. 3-29-55. Filed 8-30-54.



- 609,643. PECOS JILL. Gee Manufacturing Co., Inc. SN 672,408. Pub. 3-29-55. Filed 8-30-54.
- 609,644. ARTURO CASSANI AND DESIGN. Goldman & Spitzer, Inc. SN 672,415. Pub. 3-29-55. Filed 8-30-54.
- 609,645. CAROLINA QUEEN. Monleigh Garment Co., Inc. SN 672,430. Pub. 4-5-55. Filed 8-30-54.
- 609,646. TWILLAREES. Blue Ridge Manufacturers, Incorporated. SN 672,487. Pub. 4-5-55. Filed 8-31-54.
- 609,647. TOCKS. Millsan Mills, Inc. SN 672,679. Pub. 4-5-55. Filed 9-2-54.
- 609,648. A WEBER ORIGINAL. Weber Originals, Inc. SN 672,706. Pub. 4-5-55. Filed 9-2-54.
- 609,649. COMPASS. J. C. Penney Company. SN 672,754. Pub. 4-5-55. Filed 9-3-54.
- 609,650. WEYLIN. Reliance Manufacturing Company. SN 673,199. Pub. 4-19-55. Filed 9-14-54.
- 609,651. RINKONO. Dumari Textile Co., Inc. SN 673,584. Pub. 4-26-55. Filed 9-22-54.
- 609,652. VEST-O-MATIC. N. B. K. Co. SN 673,606. Pub. 5-3-55. Filed 9-22-54.
- 609,653. FEATHERLOCK. Wilson Brothers. SN 673,885. Pub. 5-3-55. Filed 9-27-54.
- 609,654. CIRCLE S RANCH AND CIRCLE DESIGN. Sears, Roebuck and Co. SN 673,946. Pub. 4-26-55. Filed 9-28-54.
- 609,655. MIRA KASHA. David D. Doniger & Co. Inc. SN 674,054. Pub. 4-26-55. Filed 9-30-54.

## CLASS 40

- 609,656. TIE TACKS. Hickok Manufacturing Co. Inc. SN 648,996. Pub. 5-3-55. Filed 6-18-53.
- 609,657. FASHIONS FOR FUN & FUNCTION AND DESIGN. Fashions For Fun & Function. SN 672,334. Pub. 5-3-55. Filed 8-27-54.

## CLASS 44

- 609,658. POCKETAIRE. The Cycle-Flo Company. SN 668,084. Pub. 4-26-55. Filed 6-11-54.
- 609,659. DOX BOX. Ruth S. Walker. SN 669,952. Pub. 4-19-55. Filed 7-13-54.
- 609,660. ACE-HESIVE. Becton, Dickinson and Company. SN 670,155. Pub. 4-19-55. Filed 7-19-54.
- 609,661. PETRALIT. Dental Fillings Limited. SN 670,179. Pub. 4-19-55. Filed 7-19-54.
- 609,662. RÜSCH. Willy Rüsck K. G. SN 671,274. Pub. 4-26-55. Filed 8-6-54.
- 609,663. RÜSCH AND DESIGN (REPRESENTATION OF A CATHETER). Willy Rüsck K. G. SN 671,275. Pub. 4-26-55. Filed 8-6-54.

## CLASS 46

- 609,664. V-932. Sturdwheat Company, d. b. a. Special Foods Company. SN 607,201. Pub. 10-19-54. Filed 12-1-50.
- 609,665. SWAN IN HEART AND ZWANENBERG-OSS HOLLAND. Zwanenberg's Fabrieken N. V. SN 613,101. Pub. 5-3-55. Filed 4-24-51.
- 609,666. EMPIRE BUILDER. Cashmere Pioneer Growers, Inc. SN 616,697. Pub. 12-7-54. Filed 7-20-51.
- 609,667. PANTRY PIE. Nathaniel A. Hanau, to Pyplan Company. SN 619,939. Pub. 5-3-55. Filed 10-12-51.
- 609,668. TOM-BOY. Tom Boy, Inc. SN 625,832. Pub. 6-2-53. Filed 3-1-52.
- 609,669. D & L. Don Geoffrey Ward, d. b. a. Ward Coffee Company. SN 628,313. Pub. 4-26-55. Filed 4-18-52.
- 609,670. SHURLITE. Wolf Foods, Inc. SN 644,363. Pub. 4-26-55. Filed 3-27-53.
- 609,671. S. PORT. S. Port Packing Company. SN 648,136. Pub. 5-3-55. Filed 6-2-53.
- 609,672. AMBROSIA. Louis Promos. SN 653,396. Pub. 6-1-54. Filed 9-18-53.
- 609,673. CREST AND DESIGN. Crest Importing Company, Inc. SN 657,202. Pub. 3-29-55. Filed 12-1-53.
- 609,674. ADDINGTON'S AND DESIGN. Warren R. Anderson, d. b. a. Papaya Food Products Company. SN 657,478. Pub. 5-3-55. Filed 12-7-53.

- 609,675. SPACE CADET AND DESIGN. Major Distributing Company. SN 658,629. Pub. 4-26-55. Filed 12-28-53.
- 609,676. DOG-ALAMI. Canine Provision Co. SN 662,070. Pub. 5-3-55. Filed 3-5-54.
- 609,677. ACE OF HEARTS AND DESIGN. Poul Holst-Knudsen. SN 662,114. Pub. 5-3-55. Filed 3-5-54.
- 609,678. QUEEN OF HEARTS AND DESIGN. Poul Holst-Knudsen. SN 662,116. Pub. 5-3-55. Filed 3-5-54.
- 609,679. LUXURIA BRAND. Harry Lipoff, d. b. a. Lipoff's Wholesale Meats. SN 662,873. Pub. 4-26-55. Filed 3-18-54.
- 609,680. ANA GOLD. Muscat Cooperative Winery Association, d. b. a. Muscat Cooperative Growers. SN 665,217. Pub. 4-26-55. Filed 4-26-54.
- 609,681. CORBITATE. Merck & Co., Inc. SN 666,203. Pub. 4-26-55. Filed 5-12-54.
- 609,682. MANNEKINS. Mann Potato Chip Company of Pennsylvania. SN 666,371. Pub. 5-3-55. Filed 5-14-54.
- 609,683. MUNCHIES. Purity Mills, Inc. SN 669,357. Pub. 4-26-55. Filed 7-2-54.
- 609,684. B BROUGHTON AND DESIGN. Broughton's Farm Dairy, Inc. SN 670,331. Pub. 4-26-55. Filed 7-21-54.
- 609,685. PRIDE OF UTAH. Nephi Processing Plant, Inc. SN 670,369. Pub. 4-26-55. Filed 7-21-54.
- 609,686. FRÉZERVES. Kelley, Farquhar & Co. SN 672,898. Pub. 4-26-55. Filed 9-8-54.
- 609,687. FLAVOR CREST. Walla Walla Canning Company. SN 674,544. Pub. 5-3-55. Filed 10-8-54.
- 609,688. FIRST NIGHTER. Barricini, Inc. SN 674,723. Pub. 5-3-55. Filed 10-13-54.
- 609,689. BART RANCH. Bartee, Inc. SN 675,050. Pub. 5-3-55. Filed 10-19-54.
- 609,690. CREST TOP. Allen Canning Company. SN 675,116. Pub. 5-3-55. Filed 10-20-54.
- 609,691. GREEN DALE. Calumet-Dutch Packing Company. SN 675,205. Pub. 5-3-55. Filed 10-21-54.

## CLASS 48

- 609,692. BAVARIAN'S. Bavarian Brewing Company Inc. SN 672,478. Pub. 5-3-55. Filed 8-24-54.

## CLASS 49

- 609,693. TIA MARIA. Estate Industries, Limited. SN 649,695. Pub. 8-31-54. Filed 7-2-53.
- 609,694. RELSKA AND DESIGN. G. F. Heublein & Bro., Inc., d. b. a. L. Relsky & Cie. SN 664,759. Pub. 5-3-55. Filed 4-19-54.
- 609,695. EARLY TIMES OLD STYLE WHISKY AND DESIGN. Brown-Forman Distillers Corporation, d. b. a. Early Times Distillery Company. SN 670,722. Pub. 5-3-55. Filed 7-28-54.
- 609,696. DINERS' CLUB. Golan Import Company. SN 670,927. Pub. 5-3-55. Filed 8-2-54.
- 609,697. WISHBONE. Hiram Walker & Sons, Inc. SN 672,462. Pub. 5-3-55. Filed 8-30-54.

## CLASS 50

- 609,698. WEE STINKY. Dioptron Company. SN 653,126. Pub. 4-19-55. Filed 9-14-53.
- 609,699. RED CIRCLE. H. D. Hudson Manufacturing Company. SN 654,323. Pub. 4-26-55. Filed 10-7-53.
- 609,700. REPRESENTATION OF A CIRCLE. H. D. Hudson Manufacturing Company. SN 654,324. Pub. 4-26-55. Filed 10-7-53.
- 609,701. SMP CO. Screw Machine Products Company. SN 658,023. Pub. 4-26-55. Filed 12-15-53.
- 609,702. PAINT WITH PENCILS. Eberhard Faber Pencil Company. SN 659,465. Pub. 4-19-55. Filed 1-14-54.
- 609,703. POWER GLO AND DESIGN. Power Glo Products. SN 660,891. Pub. 4-26-55. Filed 2-10-54.
- 609,704. DEKNATEL NAME-ON BEADS "THE ORIGINAL BABY BEADS" AND DESIGN. J. A. Deknatel & Son, Inc. SN 664,599. Pub. 4-19-55. Filed 4-15-54.
- 609,705. AIRUG. The Bearfoot Airway Corporation. SN 664,728. Pub. 4-19-55. Filed 4-19-54.

- 609,706. GLORUG. The Bearfoot Airway Corporation. SN 665,176. Pub. 4-19-55. Filed 4-26-54.
- 609,707. "PERFEX." National Automotive Fibres Inc. SN 670,957. Pub. 4-19-55. Filed 8-2-54.
- 609,708. AIRWAVE. United States Rubber Company. SN 671,000. Pub. 4-19-55. Filed 8-2-54.
- 609,709. AIR BABY AND DESIGN. Air Baby Inc. SN 671,009. Pub. 4-19-55. Filed 8-3-54.
- 609,710. MAINLINER. United States Rubber Company. SN 671,395. Pub. 4-19-55. Filed 8-9-54.
- 609,722. SAFE-T-STRIP. Bostwick Laboratories, Inc. SN 672,866. Pub. 5-3-55. Filed 9-8-54.
- 609,723. KHASANA. Khasana G. m. b. H. Dr. Albersheim. SN 673,033. Pub. 5-3-55. Filed 9-10-54.

## Service Marks

## CLASS 100

- 609,724. REPRESENTATION OF COAT OF ARMS. The Fraternity of Phi Gamma Delta. SN 634,040. COLLECTIVE MARK. Pub. 5-3-55. Filed 8-16-52.
- 609,725. THE "Q" TEST. Geoffrey Wade Advertising. SN 654,769. Pub. 5-3-55. Filed 10-14-53.
- 609,726. ELECTROLOG. Lane-Wells Company. SN 662,646. Pub. 5-3-55. Filed 3-15-54.
- 609,727. NATIONAL ASSOCIATION OF EXHIBIT MANAGERS, NAEM, SINCE 1928 AND DESIGN. National Association of Exhibit Managers. SN 666,042. Pub. 5-3-55. Filed 5-10-54.

## CLASS 101

- 609,728. FRIENDLY ADVERTISING. The Osborne Company. SN 633,861. Pub. 4-5-55. Filed 8-13-52.
- 609,729. FRIENDLY ADVERTISING SINCE 1888. The Osborne Company. SN 633,862. Pub. 5-3-55. Filed 8-13-52.

## CLASS 103

- 609,730. GRAVER AND DESIGN. Graver Tank & Mfg. Co., Inc. SN 660,207. Pub. 5-3-55. Filed 1-27-54.

## CLASS 104

- 609,731. LSC AND DESIGN. Lorac Service Corporation. SN 664,016. Pub. 5-3-55. Filed 4-6-54.

## CLASS 105

- 609,732. CITY BONDED AND DESIGN. City Bonded Messenger & Trucking Service, Inc. SN 680,867. Pub. 5-10-55. Filed 2-1-53.

## CLASS 106

- 609,733. PEER DRI AND DESIGN. Peerless Finishing Corp. SN 669,695. Pub. 5-3-55. Filed 7-9-54.
- 609,734. FORT LAVARAY. United Merchants and Manufacturers, Inc. SN 672,195. Pub. 5-3-55. Filed 8-24-54.

## CLASS 107

- 609,735. MA PERKINS. Procter & Gable Productions, Inc. SN 667,437. Pub. 5-3-55. Filed 6-1-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 2

- 609,736. Pacific Can Company, San Francisco, Calif. SN 657,553. Filed P. R. 12-7-53. Am. S. R. 5-16-55.
- 609,737. S. C. Johnson & Son, Inc., Racine, Wis. SN 662,367. Filed 3-10-54.

## CLASS 4

Pop-Kans

Silver  
Quick

For Beverage Cans.  
Use since Nov. 16, 1953.

For Silver Cleaning and Polishing Preparation or a  
Preparation for Cleaning and Polishing Silver.  
Use since July 20, 1953.



## CLASS 13

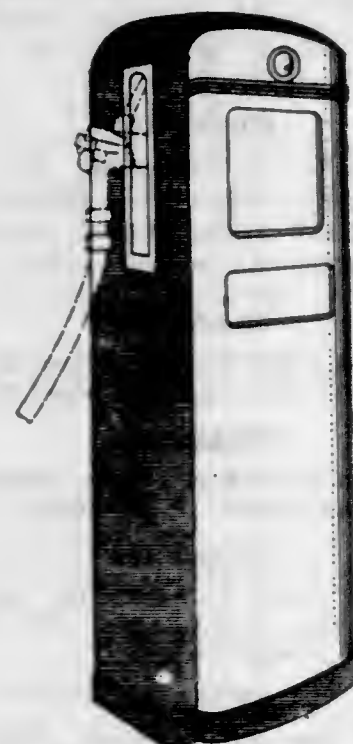
609,738. Cornell Manufacturing Co., Long Island City, N. Y., to Cornell Manufacturing Co., Inc., Long Island City, N. Y. SN 625,099. Filed 2-18-52.

**Machined From The Bar**

For Screws, Bolts, and Nuts.  
Use since Oct. 5, 1942.

## CLASS 15

609,739. Esso Standard Oil Company, Wilmington, Del. SN 664,996. Filed 5-14-54.



The mark consists of the color combination of blue and white disposed as shown in the drawing upon a fluid dispenser substantially of the conformation shown.

For Gasoline.

Use since June 7, 1938.

609,740. Esso Standard Oil Company, Wilmington, Del. SN 664,997. Filed 5-14-54.



The mark consists of the color combination of red and white disposed as shown in the drawing upon a fluid dispenser substantially of the conformation shown.

For Gasoline.

Use since June 7, 1938.

## CLASS 16

609,741. Packard Paint & Varnish Co., Cambridge, Mass. SN 681,195. Filed 2-7-55.

**PACKARD**

For Dry, Paste, and Ready Mixed Paints, Ready Mixed Stains, and Paint Enamels.  
Use since April 1931.

## CLASS 18

609,742. Pabst Brewing Company, Chicago, Ill. SN 660,344. Filed 1-29-54.



For Enzyme Preparations Used for Research in Biochemistry and in the Treatment of Diseases.  
Use since Feb. 6, 1951.

## CLASS 21

609,743. Telrex, Inc., Asbury Park, N. J. SN 665,381. Filed 1-4-54. Am. S. R. 3-18-55.

**"BEAMED POWER - PERFECT MATCH"**

For Television Antennas.

Use since Jan. 15, 1952.

## CLASS 23

609,744. Erwood Inc., Chicago, Ill. SN 655,121. Filed P. R. 10-21-53. Am. S. R. 5-16-55.

**ERWOOD DIAL SAW**

For Adjustable Saws and Planers.  
Use since Oct. 6, 1953.

609,745. Eveready Brikaw Company, Chicago, Ill. SN 658,595. Filed P. R. 12-28-53. Am. S. R. 12-18-54.

**POWER-DRIVE**

For Concrete Saws.  
Use since Nov. 25, 1953.

## CLASS 46

609,746. Butcher Shop Quartette, Inc., New York, N. Y. SN 646,630. Filed P. R. 4-21-53. Am. S. R. 12-16-53.



The trademark is comprised of a fanciful representation of a chef and an apron bearing the mark and having portions extending around the bottle or container and representing a bow such as a chef would tie with the strings of his apron and a chef's cap is placed atop the container in such a position relative to the face of the chef as to have the general appearance of a chef with the chef's cap on his head.  
For Marinating Sauce for Food Purposes.  
Use since Sept. 15, 1952.

609,747. Southern States Cooperative, Incorporated, Richmond, Va. SN 646,900. Filed P. R. 5-12-53. Am. S. R. 1-7-55.

**BROILER AID**

For Poultry Feed.  
Use since May 11, 1953.

609,748. Coöperatieve Vee-afzet en Verwerkingscentrale G. A. (bij verkorting genaamd Vleeschcentrale) Dutch cooperative association, Blaak (Zwarte Hondstraat 1), Rotterdam, Netherlands. SN 650,471. Filed 7-8-53. COLLECTIVE MARK.

**Twello**

For Canned Meats—Namely, Ham, Salami, Cervelat, Canadian Style Bacon, Chopped Pork, Pork Shoulder, and Frankfurters.  
Use since February 1950.

609,749. International Milling Company, Minneapolis, Minn. SN 664,228. Filed P. R. 4-9-54. Am. S. R. 4-1-55.



Use of the word "Harina" apart from the mark is disclaimed. The mark is the equivalent of mellow bread flour.  
For Wheat Flour.  
Use since Feb. 9, 1954.

609,750. Wisconsin Cooperative Dairies, Inc., Menomonie, Wis. SN 664,718. Filed P. R. 4-16-54. Am. S. R. 5-25-55.

**Pride of WISCONSIN**

For Fluid Milk, Dried Milk Solids, Butter, and Sweet Cream.  
Use since Jan. 1, 1949.

609,751. Southern States Cooperative, Incorporated, Richmond, Va. SN 669,152. Filed P. R. 6-29-54. Am. S. R. 1-11-55.

**CALF**

**DEVELOPER**

For Stock Feed.  
Use since Dec. 15, 1953.

609,752. Realemon-Puritan Co., Chicago, Ill. SN 677,735. Filed 12-8-54.

**REALFIG**

For Bottled Water Extract of Dried Figs With Concentrated Lemon Juice Added.  
Use since May 15, 1951.

CLASS 101  
Service Mark

609,753. Fred W. Copening, d. b. a. Name and Addressing Service, Cincinnati, Ohio. SN 672,720. Filed P. R. 9-3-54. Am. S. R. 5-10-55.

**COPENING**

For Name and Addressing Services.  
Use since May 17, 1952.



## TRADEMARK REGISTRATIONS RENEWED

12,420. CHERRY BLOSSOM. Cl. 51. 7-21-85.	325,054. MANOR PLATE. Cl. 28. 6-11-35.
102,383. GREENO AND DESIGN. Cl. 46. 2-9-15.	325,133. COOLAIN. Cl. 42. 6-11-35.
104,084. NER VITA. Cl. 18. 4-27-15.	325,283. BA-HA-NI. Cl. 18. 6-18-35.
104,136. QUEEN. Cl. 50. 5-4-15.	325,284. AZO ZZZ-11. Cl. 16. 6-18-35.
104,225. NATHAN. Cl. 13. 5-11-15.	325,285. AZO ZZZ-22. Cl. 16. 6-18-35.
104,301. COMFY. Cl. 39. 5-18-15.	325,286. AZO ZZZ-33. Cl. 16. 6-18-35.
104,461. INCOME & BOND. Cl. 37. 6-1-15.	325,449. AIRCO. Cl. 13. 6-25-35.
104,658. SWATMOR. Cl. 50. 6-8-15.	325,541. TRADE WINNER. Cl. 46. 6-25-35.
104,914. TRIANGLE BRAND AND DESIGN. Cl. 46. 6-22-15.	325,666. THISTLE BLEND ETC. AND DESIGN. Cl. 49. 7-2-35.
104,959. THE REXALL STORE. Cl. 7. 6-29-15.	325,776. SIEGERT'S BOTTLE. Cl. 49. 7-2-35.
105,521. CORBIN AND DESIGN. Cl. 13. 8-3-15.	325,946. VAN DYK. Cl. 46. 7-9-35.
105,721. DESIGN OF ROOSTERS' HEAD WITHIN CIRCLE. Cl. 46. 8-17-15.	326,034. VALE OF AVOCA AND DESIGN. Cl. 46. 7-9-35.
105,989. REGAL LAGER. Cl. 48. 9-7-15.	326,149. EPICARPOD. Cl. 46. 7-16-35.
106,069. COUNTRY GENTLEMAN AND DESIGN. Cl. 39. 9-28-15.	326,222. FLEISHER. Cl. 39. 7-16-35.
106,221. QUADROLINE. Cl. 6. 10-19-15.	327,081. DAN-D-PAK. Cl. 37. 8-13-35.
106,410. DESIGN OF SHIELD. Cl. 42. 10-19-15.	327,205. GUEST OF HONOR. Cl. 28. 8-20-35.
106,422. JAMES I. FELLOWS AND DESIGN. Cl. 18. 10-19-15.	327,217. ALADDIN. Cl. 21. 8-20-35.
106,602. KANSAS MAID AND DESIGN. Cl. 46. 10-26-15.	327,515. DELCO. Cl. 21. 8-27-35.
106,624. HOME-WOOD. Cl. 46. 10-26-15.	327,875. HEZZANITH. Cl. 26. 9-3-35.
106,662. ROSEBUD. Cl. 9. 10-26-15.	327,764. HIGH BALL. Cl. 23. 9-3-35.
106,688. SINGER SEWING MACHINES AND DESIGN. Cl. 43. 10-26-15.	327,877. BRIGHTONE. Cl. 37. 9-10-35.
106,810. ZZ AND DESIGN. Cl. 26. 10-26-15.	327,911. DESIGN OF OWL. Cl. 46. 9-10-35.
307,248. THRIVO. Cl. 46. 10-17-33.	328,136. C B L AND DESIGN. Cl. 14. 9-17-35.
318,546. SPARKLETS. Cl. 2. 10-30-34.	328,283. FABRICA DE TABACOS PARTICULARES DE SEQUENDO LOPEZ ETC. Cl. 17. 9-24-35.
321,249. X-Z-3. Cl. 18. 1-22-35.	328,319. LONG BLOCK TOOTSIE AND DESIGN. Cl. 46. 9-24-35.
321,509. OAK GROVE. Cl. 49. 2-5-35.	328,328. PAKTITE. Cl. 2. 9-24-35.
322,340. GNOME CLOTH. Cl. 42. 3-5-35.	328,427. ROCK GARDEN FLOWERS. Cl. 51. 9-24-35.
323,056. PENETRAL. Cl. 14. 4-2-35.	328,470. KENTUCKY OAKS AND DESIGN. Cl. 49. 10-1-35.
323,118. IKOFLEX. Cl. 26. 4-2-35.	328,471. BELLE OF BOURBON AND DESIGN. Cl. 49. 10-1-35.
323,135. LLAMA CALF AND DESIGN. Cl. 1. 4-2-35.	328,514. WITH SPEED AND CERTAINTY AND DESIGN. Cl. 44. 10-1-35.
323,312. MAGNALUX. Cl. 21. 4-9-35.	328,528. SWANK. Cl. 39. 10-1-35.
323,598. KING'S PLATE. Cl. 40. 4-23-35.	328,541. MANHATTAN. Cl. 39. 10-1-35.
323,662. ATA SCHEUER-PULVER HENKELS ETC. AND DESIGN. Cl. 52. 4-23-35.	328,597. PLEE-ZING. Cl. 46. 10-1-35.
323,851. Q-CHROMASTIC. Cl. 12. 5-7-35.	328,648. SPRING RIVER. Cl. 49. 10-1-35.
323,872. SYLVANIA SANICASE. Cl. 2. 5-7-35.	328,656. BOONDOGGLE. Cl. 39. 10-1-35.
323,873. SANICASE. Cl. 2. 5-7-35.	328,695. DR. HEATH'S. Cl. 18. 10-1-35.
323,971. LUBRICIZED. Cl. 13. 5-7-35.	328,721. RECORD-O-STAT. Cl. 26. 10-1-35.
324,120. VALPACA. Cl. 39. 5-14-35.	328,795. D. V. Cl. 23. 10-8-35.
324,434. MEKANIKOL. Cl. 1. 5-21-35.	328,815. CARTER'S. Cl. 39. 10-8-35.
324,546. ANT-B-GON. Cl. 6. 5-21-35.	329,014. SHIF-DEX. Cl. 37. 10-15-35.
324,551. THE HEALTHCASTER AND DESIGN. Cl. 38. 5-21-35.	329,059. YUKON MILL AND GRAIN ETC. AND DESIGN. Cl. 46. 10-15-35.
324,562. VELDO. Cl. 46. 5-21-35.	329,074. BE WISE NOW AND DESIGN. Cl. 37. 10-15-35.
324,676. ELECTRON. Cl. 37. 5-28-35.	329,206. 45. Cl. 21. 10-22-35.
324,686. BON-SOIR. Cl. 39. 5-28-35.	329,232. FIXAPRET. Cl. 6. 10-22-35.
324,731. HENKO AND DESIGN. Cl. 52. 5-28-35.	329,266. CANCO AND DESIGN. Cl. 2. 10-22-35.
324,946. LOS LEONES AND DESIGN. Cl. 49. 6-4-35.	329,348. CECOLLOY. Cl. 14. 10-29-35.
324,961. MI-SAN. Cl. 18. 6-4-35.	329,389. A WITHIN CIRCLE. Cl. 50. 10-29-35.
	329,397. SWANK. Cl. 29. 10-29-35.

## TRADEMARK REGISTRATIONS CANCELED

### Section 8

126,620. QUICK MALT. Cl. 46. 9-30-19.	432,231. DUBLEGG. Cl. 46. 8-26-47.
128,684. CAP SHEAF. Cl. 46. 1-13-20.	434,264. GO. Cl. 38. 11-18-47.
166,668. NATURIFE. Cl. 46. 4-10-23.	435,252. WOOL-RAY. Cl. 4. 12-16-47.
174,500. HOUZE AND DESIGN. Cl. 33. 10-16-23.	435,901. CIG-ETTE. Cl. 8. 1-13-48.
174,652. CHARTREUSE. Cl. 33. 10-23-23.	435,924. FOREST ROSE. Cl. 17. 1-13-48.
178,317. FLI-GASS. Cl. 6. 1-8-24.	506,606. VISI-TROL AND DESIGN. Cl. 26. 2-15-49.
189,727. WHEARY CUSHIONED TOP WARDROBE AND W DESIGN. Cl. 3. 9-23-24.	506,610. WHITE GLOVE. Cl. 1. 2-15-49.
202,773. "LAWRENCE". Cl. 40. 9-1-25.	506,612. SEALDTITE. Cl. 21. 2-15-49.
224,099. WARDROLETTE. Cl. 3. 2-15-27.	506,613. CAVALIER. Cl. 26. 2-15-49.
226,620. E-Z. Cl. 34. 4-12-27.	506,614. ADONIS. Cl. 26. 2-15-49.
228,284. DYSPEPTOL. Cl. 6. 5-31-27.	506,619. SEALDTEMP. Cl. 21. 2-15-49.
230,121. FLYLAK. Cl. 6. 7-12-27.	506,620. GUIDE-RAY. Cl. 21. 2-15-49.
245,548. LANGITE. Cl. 50. 8-14-28.	506,623. SKYLAND. Cl. 1. 2-15-49.
279,115. ARBELLA. Cl. 28. 1-6-31.	506,630. EXAMIDE. Cl. 6. 2-15-49.
329,711. SILVER-SEAL CENTURY METALCRAFT CORPORATION AND DESIGN. Cl. 13. 11-5-35.	506,640. OWENS HIS. Cl. 29. 2-15-49.
329,821. PERMATONE. Cl. 16. 11-12-35.	506,641. OWENS HERB. Cl. 29. 2-15-49.
336,461. G-MAN. Cl. 22. 7-7-36.	506,645. BRIGHT AND DESIGN. Cl. 6. 2-15-49.
340,999. JOHN WALTHER AND DESIGN. Cl. 42. 11-24-36.	506,647. ELECTRONIC FEATHER. Cl. 21. 2-15-49.
341,629. BREE-ZEE. Cl. 40. 12-15-36.	506,648. PROLONG. Cl. 6. 2-15-49.
360,644. ELITA COLD CREAM SOAP AND DESIGN. Cl. 4. 9-20-38.	506,656. RAYGRAM AND DESIGN. Cl. 26. 2-15-49.
363,881. ALERT FOR DIRT. Cl. 4. 1-10-39.	506,657. PPC. Cl. 21. 2-15-49.
369,564. TRAFFIC TOP. Cl. 12. 8-1-39.	506,658. JOSEFF. Cl. 28. 2-15-49.
369,618. CINEMASTER. Cl. 26. 8-1-39.	506,667. SCRIBBLE CUFF. Cl. 28. 2-15-49.
373,618. GUARDSMAN. Cl. 16. 12-12-39.	506,669. CYKORAN. Cl. 26. 2-15-49.
374,135. ROBOT. Cl. 26. 1-2-40.	506,673. THORO-KLEEN. Cl. 6. 2-15-49.
374,255. ENDURA. Cl. 40. 1-2-40.	506,674. KD AND DESIGN. Cl. 21. 2-15-49.
377,742. UNIFLEX. Cl. 26. 5-14-40.	506,675. MOUNTAIN MAID. Cl. 6. 2-15-49.
378,441. WATCH MASTER AND DESIGN. Cl. 26. 6-11-40.	506,676. SLUG-O AND DESIGN. Cl. 6. 2-15-49.
378,451. SHUBRAIDS AND DESIGN. Cl. 40. 6-11-40.	506,677. CHINCH-O. Cl. 6. 2-15-49.
379,697. VISUALOPE. Cl. 3. 7-23-40.	506,681. HA-GAN. Cl. 6. 2-15-49.
381,243. CHEVEAUX. Cl. 1. 9-17-40.	506,686. UNICORN. Cl. 28. 2-15-49.
381,585. SALESFOTO VISUALIZER. Cl. 3. 10-1-40.	506,689. DL. Cl. 22. 2-15-49.
383,013. CALL-STAN ETC. AND DESIGN. Cl. 42. 11-19-40.	506,691. NAPIER QUALITY AND DESIGN. Cl. 28. 2-15-49.
388,896. HOLOBOND. Cl. 12. 7-15-41.	506,692. RIÇARCLO AND DESIGN. Cl. 28. 2-15-49.
393,061. QUEENLY AND DESIGN. Cl. 39. 5-12-42.	506,694. DREAM-TAN. Cl. 21. 2-15-49.
400,822. CELOCRETE. Cl. 12. 4-6-43.	506,695. F AND DESIGN. Cl. 1. 2-15-49.
402,165. SOONER COAL ETC. AND DESIGN. Cl. 1. 7-6-43.	506,696. FRIEND AND DESIGN. Cl. 1. 2-15-49.
402,246. NOJAX. Cl. 19. 7-13-43.	506,699. ROCK-OLA MFG. CO. AND DESIGN. Cl. 26. 2-15-49.
402,564. CELOCRETE. Cl. 12. 8-3-43.	506,700. RESILINE. Cl. 42. 2-15-49.
404,509. BIRD OF PARADISE AND DESIGN. Cl. 40. 11-30-43.	506,702. OIL HORN. Cl. 6. 2-15-49.
404,631. CUDDLE-NEST. Cl. 32. 12-7-43.	506,703. ZIPLOC. Cl. 28. 2-15-49.
404,632. CUDDLE-NEST AND DESIGN. Cl. 32. 12-7-43.	506,704. LILYBET. Cl. 26. 2-15-49.
408,929. SI-PAD. Cl. 31. 9-5-44.	506,707. INFINARC AND DESIGN. Cl. 26. 2-15-49.
409,527. LADYARN SPORTWEAR AND DESIGN. Cl. 39. 10-10-44.	506,714. EXPLAINETTE. Cl. 26. 2-15-49.
411,665. CELO-ROCK. Cl. 12. 1-30-45.	506,718. "17". Cl. 26. 2-15-49.
417,822. FARM MASTER AND DESIGN. Cl. 26. 11-20-45.	506,720. SHANTEREAU. Cl. 42. 2-15-49.
418,134. CRIB PADDY. Cl. 32. 12-4-45.	506,721. SIBONEY. Cl. 42. 2-15-49.
422,772. GUARDSMAN CLEANING POLISH. Cl. 16. 8-13-46.	506,725. DOLLYDALE. Cl. 26. 2-15-49.
425,935. TOPS AND DESIGN. Cl. 19. 12-10-46.	506,729. KOKANA. Cl. 6. 2-15-49.
426,710. WHITE TAG AND DESIGN. Cl. 46. 1-7-47.	506,732. KEY AND DESIGN. Cl. 28. 2-15-49.
431,950. MURDER AT MIDNIGHT AND DESIGN. Cl. 38. 8-12-47.	506,733. NITECAP. Cl. 6. 2-15-49.
432,128. ROADSTER. Cl. 22. 8-19-47.	506,741. STAR BRAND. Cl. 6. 2-15-49.
	506,745. ARM & HAMMER BRAND. Cl. 6. 2-15-49.
	506,746. H P PRESENTS AND DESIGN. Cl. 6. 2-15-49.
	506,747. PYO-PHENO-CHON. Cl. 6. 2-15-49.
	506,749. ILEOGASTRONE. Cl. 6. 2-15-49.
	506,752. WATERTECTOR. Cl. 6. 2-15-49.
	506,755. KING-O-CIDE. Cl. 6. 2-15-49.
	506,758. KATYDID. Cl. 6. 2-15-49.
	506,759. LUESCOT. Cl. 6. 2-15-49.



- 506,760. TASSID. Cl. 6. 2-15-49.  
 506,763. GOLDEN KEY. Cl. 6. 2-15-49.  
 506,765. ESKATRISUL. Cl. 6. 2-15-49.  
 506,768. SEE QIT. Cl. 6. 2-15-49.  
 506,770. EMULSION GIMENEZ. Cl. 6. 2-15-49.  
 506,772. SIDOLEXIN. Cl. 6. 2-15-49.  
 506,773. MCBRADY'S. Cl. 6. 2-15-49.  
 506,777. TWINTYPE BY LACROSS. Cl. 6. 2-15-49.
- 506,778. BLACK BROOK. Cl. 42. 2-15-49.  
 506,787. KINDLERITE. Cl. 34. 2-15-49.  
 506,788. SPEEDY-FLAME AND DESIGN. Cl. 6. 2-15-49.  
 506,789. GERM-O-RAY. Cl. 21. 2-15-49.  
 506,790. STOP DROP AND DESIGN. Cl. 6. 2-15-49.  
 506,793. WILSON. Cl. 19. 2-15-49.  
 506,795. AERO-TEE AND DESIGN. Cl. 12. 2-15-49.  
 506,797. INTERLOCKING HANDS "OF FIRM SUPPORT". Cl. 44. 2-15-49.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 606,177. RAVEN. Cl. 11. 5-17-55. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio. Corrected: In the heading to the statement, line 3, for "filed Jan. 29, 1953" read *filed P. R. Jan. 13, 1951; Am. S. R. Jan. 29, 1953.*
- 607,443. REPRESENTATION OF A TOILET BOWL AND TANK. Cl. 13. 6-14-55. Mobile Supply, Inc., Perryville, Ohio. Corrected: In the heading to the statement, line 3, for "filed Feb. 23, 1955" read *filed P. R. Apr. 8, 1953; Am. S. R. Feb. 23, 1955.*
- 607,456. TASTI-DIET AND DESIGN. Cl. 46. 6-14-55. Flotill Products, Inc., Stockton, Calif. Corrected: In the heading to the statement, line 3, for "filed Mar. 29, 1955" read *filed P. R. June 10, 1952; Am. S. R. Mar. 29, 1955.*

## TRADEMARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trademark Act of 1946 for the unexpired term of the original registrations.

- 605,067. COLORVISION AND DESIGN. Cl. 21. The Wilcox-Gay Corporation. 4-26-55. New Cert. Sec. 7(f), to The Wilcox-Gay Corporation, Charlotte, Mich., 7-26-55.

## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 1

- 327,296. Aug. 20, 1935. F. F. Chrestien & Co. Limited, London, England. Pub. by registrant.



For Mica in Blocks, Sheets, and Powder.

### CLASS 3

- 326,520. July 23, 1935. Burton-Dixie Corporation, Chicago, Ill. Pub. by The American Pad & Textile Co., Greenfield, Ohio.

*Fluf-Lastic*

For Horse Collar Pads.

### CLASS 4

- 322,970. Mar. 26, 1935. Fischer's Surfa-Saver, Inc., Cincinnati, Ohio. Pub. by Fischer Industries, Inc., Cincinnati, Ohio.

**ZOLVOLENE**

For Abrasive, Detergent, and Polishing Materials, Specifically for an Emulsifying Detergent Useful as a Cleanser for Concrete Floors, Automobile Motors and Chassis, Tanks and Machinery, and All Heavy Industrial Equipment; Also for Truck Bodies, Buses, Street Cars, and Railway Coaches.

### CLASS 6

- 396,910. Aug. 11, 1942. Aktiebolaget Laxnäs-Casco, Stockholm, Sweden. Pub. by Panogen, Inc., Ringwood, Ill.

**PANOGEN**

For Seed Disinfectants, and Impregnations for Wood, Textiles, and Other Porous Stuff To Protect Them Against Moisture, Rot, Mould, Insects, and Fire.

### CLASS 21

- 381,041. Sept. 10, 1940. Noco & O'Neill, Inc., Cleveland, Ohio. Pub. by Joseph H. Noco, Jr., d. b. a. The Noco Company, Cleveland, Ohio.



The drawing is lined for red. The words "Trade Mark" are disclaimed.

For Terminal Protectors and Compound for Battery Corrosion Eliminator.

### CLASS 22

- 324,901. June 4, 1935. Parker Brothers, Inc., Salem, Mass. Pub. by registrant.

**PEG**

For Board Game with Movable Pieces.

- 325,672. July 2, 1935. Parker Brothers, Inc., Salem, Mass. Pub. by registrant.

**BANKERS**

For Game Played Upon a Board With Removable Pieces for Placement Thereon.

- 325,951. July 9, 1935. Parker Brothers, Inc., Salem, Mass. Pub. by registrant.

**THEY'RE OFF**

For Board Game, Played With Movable Pieces Upon Board for Placement Thereon.

### CLASS 27

- 327,318. Aug. 20, 1935. Elgin National Watch Company, Elgin, Ill. Pub. by registrant.

**ELGIN**  
★

For Watches, Watch Movements, and Watch Cases.

### CLASS 35

- 380,740. Aug. 27, 1940. Marshall-Wells Company, Duluth, Minn. Pub. by registrant.



The drawing is lined for blue and red. The representation of a label is disclaimed apart from the mark as shown. For Automobile Tires and Tubes.

### CLASS 37

- 323,202. Apr. 9, 1935. Remington Rand Inc., New York, N. Y. Pub. by registrant.

**SCOTTIE**

For Paper Fasteners and Filing Folders.

- 324,418. May 21, 1935. Rhineland Paper Company, Rhineland, Wis. Pub. by registrant.

**RIPCO**

For Wrapping Paper.

### CLASS 39

- 104,625. June 8, 1915. Frank Melville, Jr., New York, N. Y. Pub. by Melville Shoe Corporation, New York, N. Y.

*John Ward*

For Leather Shoes.



## CLASS 46

325,242. June 18, 1935. Cosby-Hodges Milling Co., Inc., Birmingham, Ala. Pub. by registrant.

**SPRING  
LILY**

For Wheat Flour, Plain and Self-Rising.

## CLASS 52

322,318. Mar. 5, 1935. Fischer's Surfa-Saver, Inc., Cincinnati, Ohio. Pub. by Fischer Industries, Inc., Cincinnati, Ohio.

**FABRIKFOAM**

For Concentrated Upholstery and Rug Shampoo Having Incidental Moth-Preventative Properties.

## LIST OF REGISTRANTS OF TRADEMARKS

- A. B. Metal Products Ltd., Abercynon, Glamorgan, Wales. 609,489, pub. 5-3-55. Cl. 21.  
 Aaron Bros., Dallas, Tex. 609,633, pub. 6-8-54. Cl. 39.  
 Abelson, Samuel, d. b. a. Dalason Products Mfg. Co., Chicago, Ill. 609,481, pub. 4-26-55. Cl. 21.  
 Advance Neckwear Co.: See—  
 Goldl, Arthur.  
 Advance Pattern Co., Inc., New York, N. Y. 609,550, pub. 5-3-55. Cl. 26.  
 Advance Pattern Co., Inc., New York, N. Y. 609,554, pub. 5-3-55. Cl. 26.  
 Air Baby Inc., New York, N. Y. 609,709, pub. 4-19-55. Cl. 50.  
 Air Reduction Co., Inc.: See—  
 Air Reduction Sales Co.  
 Air Reduction Sales Co., to Air Reduction Co., Inc., New York, N. Y. 325,449, ren. 6-25-55. Cl. 13.  
 Aktiebolaget Lauxeln-Casco, Stockholm, Sweden, by Panogen, Inc., Ringwood, Ill. 396,910, 12(c) pub. 7-26-55. Cl. 6.  
 Aktiebolaget Norma Projektilfabrik, Amottfors, Sweden. 609,388, pub. 4-19-55. Cl. 9.  
 Aladdin Industries, Inc.: See—  
 Mantle Lamp Co. of America, The.  
 Alarm Service, Inc., Chicago, Ill. 609,486, pub. 5-3-55. Cl. 21.  
 Alco Products, Inc.: See—  
 American Locomotive Co.  
 Allen Canning Co., Siloam Springs, Ark. 609,690, pub. 5-3-55. Cl. 46.  
 American Bottlers of Carbonated Beverages, Washington, D. C. 609,618-19, pub. 8-31-54. Cl. 38.  
 American Brewing Co., New Orleans, La. 105,969, ren. 9-7-55. Cl. 48.  
 American Can Co., New York, N. Y. 329,266, ren. 10-22-55. Cl. 2.  
 American Collo Corp.: See—  
 Sellgmann, Otto.  
 American Cyanamid Co., New York, N. Y. 609,444, pub. 4-26-55. Cl. 18.  
 American Enka Corp., Enka, N. C. 609,351, pub. 4-26-55. Cl. 1.  
 American Hardware Corp., The, New Britain, Conn. 105,521, ren. 8-3-55. Cl. 13.  
 American Historical Co., Inc., The, New York, N. Y. 609,611, pub. 4-12-55. Cl. 37.  
 American Hominy Co., Indianapolis, Ind. 126,620, can. Cl. 46.  
 American Locomotive Co., New York, N. Y., now by change of name Alco Products, Inc. 609,412, pub. 4-6-55. Cl. 13.  
 American Locomotive Co., New York, N. Y., now by change of name Alco Products, Inc. 609,527, pub. 4-19-55. Cl. 23.  
 American Metalcraft Corp., Detroit, Mich. 432,128, can. Cl. 22.  
 American Pad & Textile Co., The: See—  
 Burton-Dixie Corp.  
 American Phenolic Corp., Cicero, Chicago, Ill. 609,465, pub. 5-3-55. Cl. 21.  
 American Printed Circuits Co., Metuchen, N. J. 609,493, pub. 5-3-55. Cl. 21.  
 American Screen Products Co., Miami, Fla. 609,487, pub. 5-3-55. Cl. 21.  
 American Time Products, Inc., New York, N. Y. 378,441, can. Cl. 26.  
 American Vermiculite Corp., New York, N. Y. 609,408, pub. 5-3-55. Cl. 12.  
 American Viscose Corp.: See—  
 Sylvania Industrial Corp.  
 American Zinc Sales Co., St. Louis, Mo. 325,284-6, ren. 6-18-55. Cl. 16.  
 Amling, Albert F., Co., Maywood, Ill. 609,346, pub. 4-26-55. Cl. 1.  
 Amsterdam Syndicate, Inc.: See—  
 Deward & Rich, Inc.  
 Anderson, Warren R., d. b. a. Papaya Food Products Co., Los Angeles, Calif. 609,674, pub. 5-3-55. Cl. 46.  
 An-Fo Mfg. Co.: See—  
 Rosefield, J. B.  
 Anglo-American Pharmaceutical Co., Croydon, England, and New York, N. Y., to Etna Chemical Co., Inc., New York, N. Y. 104,084, ren. 4-27-55. Cl. 18.  
 Angostura Bittera (Dr. J. G. B. Slegert & Sons) Ltd., Port of Spain, Trinidad. 325,776, ren. 7-2-55. Cl. 49.  
 Anaco: See—  
 General Aniline & Film Corp.  
 Ant-B-Gon Products Co., Los Angeles, to California Spray-Chemical Corp., Richmond, Calif. 324,546, ren. 5-21-55. Cl. 6.  
 Antell, Charles, Inc., Baltimore, Md. 609,720, pub. 5-3-55. Cl. 52.  
 Appel, Saul C., d. b. a. Massachusetts Steam Specialty Co., South Boston, Mass. 609,605, pub. 4-19-55. Cl. 34.  
 Armaly Sponge & Chamols Co. Inc., Detroit, Mich. 408,929, can. Cl. 31.  
 Armature & Ignition Supply Co., Oakland, Calif. 609,460, pub. 5-3-55. Cl. 21.  
 Armstrong Cork Co.: See—  
 Armstrong Cork & Insulation Co.  
 Armstrong Cork & Insulation Co., to Armstrong Cork Co., Lancaster, Pa. 329,389, ren. 10-29-55. Cl. 50.  
 Arvin Industries, Inc., Columbus, Ind. 609,529, pub. 4-26-55. Cl. 24.  
 Associated British-Pathe Ltd., London, England. 609,369, pub. 5-3-55. Cl. 6.  
 Associated Merchandising Corp., New York, N. Y. 506,694, can. Cl. 21.  
 Atlas Mineral Products Co. of Pennsylvania, The, Mertsstown, Pa. 609,379, pub. 5-3-55. Cl. 6.  
 Atlas Ozone Mfg. Co.: See—  
 Gilleland, Reuben A.  
 Atlas Tool Co., Inc., Hillside, N. J. 609,510, pub. 5-3-55. Cl. 22.  
 Atomic Basic Chemicals Corp., Pittsburgh, Pa. 609,428, pub. 5-3-55. Cl. 18.  
 Attorney General of the United States: See—  
 Zeiss Ikon Aktiengesellschaft.  
 Aurora Equipment Co., Aurora, Ill. 609,594, pub. 4-26-55. Cl. 32.  
 Automatic Range Co., Inc., Brooklyn, N. Y. 609,604, pub. 4-19-55. Cl. 34.  
 B. V. D. Co., Inc., The, Baltimore, Md., to Silvro Mfg. Co. Ltd., London, England. 324,686, ren. 5-28-55. Cl. 39.  
 Baer & Wilde Co., The, to Swank, Inc., Attleboro, Mass. 328,528, ren. 10-1-55. Cl. 39.  
 Baer & Wilde Co., The, to Swank, Inc., Attleboro, Mass. 329,397, ren. 10-29-55. Cl. 29.  
 Ba-Ha-Ni Laboratories, to Ba-ha-ni Laboratories, Greensburg, Pa. 325,283, ren. 6-18-55. Cl. 18.  
 Baird Associates, Inc., Cambridge, Mass. 609,553, pub. 5-3-55. Cl. 26.  
 Barber-Colman Co., Rockford, Ill. 609,530, pub. 4-26-55. Cl. 26.  
 Barber-Greene Co., Aurora, Ill. 609,597, pub. 5-3-55. Cl. 34.  
 Barrett & Co., Inc., Newark, N. J. 323,135, ren. 4-2-55. Cl. 1.  
 Barricini, Inc., Long Island City, N. Y. 609,688, pub. 5-3-55. Cl. 46.  
 Bartee, Inc., San Francisco, Calif. 609,689, pub. 5-3-55. Cl. 46.  
 Bavarian Brewing Co., Inc., Covington, Ky. 609,692, pub. 5-3-55. Cl. 48.  
 Bearfoot Airway Corp., The, Wadsworth, Ohio. 609,705-6, pub. 4-19-55. Cl. 50.  
 Becton, Dickinson and Co., Rutherford, N. J. 609,660, pub. 4-19-55. Cl. 44.  
 Bell & Howell Co., Chicago, Ill. 609,546, pub. 11-16-54. Cl. 26.  
 Benson-Niles Laboratories, Inc., New York, N. Y. 609,450, pub. 5-3-55. Cl. 18.  
 Bergman, Ted, Miami, Fla. 506,788, can. Cl. 6.  
 Birdie-Cure Co., Dallas, Tex. 609,437, pub. 5-10-55. Cl. 18.  
 Blackinton, W. & S., Co., Inc., Meriden, Conn. 506,686, can. Cl. 28.  
 Blaw-Knox Co., Pittsburgh, Pa. 506,610, can. Cl. 1.  
 Blizzard, Vernon R., and D. C. Sussman, d. b. a. Waterman Drug, Detroit, Mich. 609,436, pub. 5-3-55. Cl. 18.  
 Blue Ridge Manufacturers, Inc., Baltimore, Md. 609,646, pub. 4-5-55. Cl. 39.  
 Bond Buyer, The, New York, N. Y. 609,625-6, pub. 5-3-55. Cl. 38.  
 Bonnie Dee Products, Ashtabula, Ohio. 609,630, pub. 3-29-55. Cl. 39.  
 Bostwick Laboratories, Inc., Bridgeport, Conn. 609,722, pub. 5-3-55. Cl. 52.  
 Bourns Laboratories, Inc., Riverside, Calif. 609,565, pub. 4-26-55. Cl. 26.  
 Bradner Smith & Co., Chicago, Ill. 327,877, ren. 9-10-55. Cl. 37.  
 Brewster Handcraft Industries, Inc., Old Lyme, Conn. 609,355, pub. 4-26-55. Cl. 2.  
 Broughton's Farm Dairy, Inc., Marietta, Ohio. 609,684, pub. 4-26-55. Cl. 46.  
 Brown-Forman Distillers Corp., d. b. a. Early Times Distillery Co., Louisville, Ky. 609,695, pub. 5-3-55. Cl. 49.  
 Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. 606,177, corrected. Cl. 11.  
 Burbank Chemical Co., Burbank, Calif. 609,421, pub. 5-3-55. Cl. 16.  
 Burton-Dixie Corp., Chicago, Ill., by The American Pad & Textile Co., Greenfield, Ohio. 326,520, 12(c) pub. 7-26-55. Cl. 3.  
 Butcher Shop Quartette, Inc., New York, N. Y. 609,746, Cl. 46.  
 Calgon, Inc., Pittsburgh, Pa. 609,539, pub. 5-3-55. Cl. 26.  
 California Spray-Chemical Corp.: See—  
 Ant-B-Gon Products Co.  
 California Spray-Chemical Corp., Wilmington, Del. 609,391, pub. 4-26-55. Cl. 10.  
 Calumet-Dutch Packing Co., Sheboygan, Wis. 609,691, pub. 5-3-55. Cl. 46.  
 Campbell A. S., Co., Inc., East Boston, Mass. 402,246, can. Cl. 19.  
 Canine Provision Co., Union, N. J. 609,676, pub. 5-3-55. Cl. 46.  
 Canterbury Press, Chicago, Ill. 609,622, pub. 5-3-55. Cl. 28.  
 Caribe Diamond Works, Inc., Santurce, Puerto Rico. 609,571, pub. 5-3-55. Cl. 28.  
 Carmac Co.: See—  
 Mirus, Gilbert B.



Caron Corp., New York, N. Y. 328,427, ren. 9-24-55. Cl. 51.  
 Carter, William Co., The, Needham Heights, Mass. 328,815, ren. 10-8-55. Cl. 39.  
 Cashmere Pioneer Growers, Inc., Cashmere, Wash. 609,666, pub. 12-7-54. Cl. 46.  
 Cattaraugus Cutlery Co., Little Valley, N. Y. 327,764, ren. 9-3-55. Cl. 23.  
 Cellulose Products Co.: See—  
 Doll, Martin.  
 Celotex Corp., The, Chicago, Ill. 369,564, can. Cl. 12.  
 Celotex Corp., The, Chicago, Ill. 400,822, can. Cl. 12.  
 Celotex Corp., The, Chicago, Ill. 402,564, can. Cl. 12.  
 Celotex Corp., The, Chicago, Ill. 411,665, can. Cl. 12.  
 Celotex Corp., The, Chicago, Ill. 609,407, pub. 5-3-55. Cl. 12.  
 Central California Berry Growers Association, San Francisco, Calif. 166,668, can. Cl. 46.  
 Central States Paper & Bag Co., St. Louis, Mo. 609,361, pub. 5-3-55. Cl. 2.  
 Century Metalcraft Corp., Los Angeles, Calif. 329,711, can. Cl. 13.  
 Chambersburg Engineering Co., Chambersburg, Pa. 329,348, ren. 10-29-55. Cl. 14.  
 Champion Paper and Fibre Co., The, Hamilton, Ohio. 506,623, can. Cl. 1.  
 Champion Textile Finishing Co., Chicago, Ill. 609,416, pub. 4-26-55. Cl. 16.  
 Charmin Paper Mills, Inc., Green Bay, Wis. 609,613, pub. 4-12-55. Cl. 37.  
 Chicago Bridge & Iron Co., Chicago, Ill. 609,401, pub. 4-26-55. Cl. 12.  
 Chicago Pharmacal Co., Chicago, Ill. 609,441, pub. 5-10-55. Cl. 18.  
 Chile Exploration Co., New York, N. Y. 328,136, ren. 9-17-55. Cl. 14.  
 Chiyoda Kogaku Seiko Kabushiki Kaisha, Higashi-Ku, Osaka, Japan. 609,566, pub. 5-3-55. Cl. 26.  
 Christien, F. F., & Co. Ltd., London, England. 327,296, 12(c) pub. 7-26-55. Cl. 1.  
 Christian Peper Tobacco Co., St. Louis, Mo. 435,924, can. Cl. 17.  
 Church & Dwight Co. Inc., New York, N. Y. 506,745, can. Cl. 6.  
 Cifuentes y Compania: See—  
 Particulares, S. A.  
 Circle Research Laboratories, Inc., New York, N. Y. 609,375, pub. 4-26-55. Cl. 6.  
 City Bonded Messenger & Trucking Service, Inc., Chicago, Ill. 609,732, pub. 5-10-55. Cl. 105.  
 Cleveland Worsted Mills Co., The, Cleveland, Ohio. 108,410, ren. 10-19-55. Cl. 42.  
 Clevite Corp., Cleveland, Ohio. 609,500, pub. 5-3-55. Cl. 21.  
 Clevite Corp., Cleveland, Ohio. 609,557, pub. 4-26-55. Cl. 26.  
 Clinical Products Ltd., Richmond, Surrey, England. 609,442, pub. 4-26-55. Cl. 18.  
 Cochran, Robt. T., & Co., Inc., New York, N. Y. 536,055, can. Cl. 46.  
 Cohn, Aaron, Philadelphia, Pa. 226,620, can. Cl. 34.  
 Colorado Milling & Elevator Co., The: See—  
 Hays City Milling and Elevator Co., The.  
 Columbia Broadcasting System, Inc., New York, N. Y. 609,472-3, pub. 4-26-55. Cl. 21.  
 Columbia Ribbon & Carbon Mfg. Co., Inc., Glen Cove, N. Y. 609,615, pub. 4-19-55. Cl. 37.  
 Compagnie Française des Metaux Societe Anonyme, Paris, France. 609,598, pub. 4-12-55. Cl. 34.  
 Consolidated Foods Corp.: See—  
 Kenny, C. D., Co.  
 Consolidated Foundries and Mfg. Corp.: See—  
 Iowa-Michigan Corp.  
 Continental Coffee Co., Chicago, Ill. 326,149, ren. 7-16-55. Cl. 46.  
 Continental Distilling Corp., Philadelphia, Pa. 321,509, ren. 2-5-55. Cl. 49.  
 Continental Screw Co., New Bedford, Mass. 323,971, ren. 5-7-55. Cl. 13.  
 Cook & Co.: See—  
 Cook, Oliver M.  
 Cook, Oliver M., d. b. a. Cook & Co., Minneapolis, Minn. 609,551, pub. 5-3-55. Cl. 26.  
 Cook Specialty Co., Green Lane, Pa. 506,707, can. Cl. 26.  
 Cooper, Lillian, Cosmetics, Ltd., New City, N. Y. 506,758, can. Cl. 6.  
 Cooperatieve Vee-Afzet en Verwerkingscentrale G. A. (bij verkorting genaamd Vleeschcentrale), Rotterdam, Netherlands. 609,748, Cl. 46.  
 Copenling, Fred W., d. b. a. Name and Addressing Service, Cincinnati, Ohio. 609,753, Cl. 101.  
 Cork Mfg. Co. Ltd., London, England. 245,548, can. Cl. 50.  
 Cornell Mfg. Co., to Cornell Mfg. Co., Inc., Long Island City, N. Y. 609,738, Cl. 13.  
 Cornell Mfg. Co., Inc.: See—  
 Cornell Mfg. Co.  
 Cosby-Hodges Milling Co., Inc., Birmingham, Ala. 325,242, 12(c) pub. 7-26-55. Cl. 46.  
 Cotton Belt Inc., Pinetops, N. C. 609,593, pub. 4-26-55. Cl. 32.  
 Cowan, Louis G., Inc., New York, N. Y. 431,950, can. Cl. 38.  
 Crawford Mfg. Co., Inc., Richmond, Va. 609,457, pub. 4-26-55. Cl. 19.  
 Crest Importing Co., Inc., San Diego, Calif. 609,673, pub. 3-29-55. Cl. 46.  
 Crooker, Clarence A., d. b. a. Pollywog Spinner Co., Mankato, Minn. 609,509, pub. 4-26-55. Cl. 22.  
 Crown Controls Co., Inc., New Bremen, Ohio. 609,490, pub. 5-3-55. Cl. 21.  
 Cuban Cigar Co., Joplin, Mo. 609,423, pub. 4-26-55. Cl. 17.  
 Cycle-Flo Co., The, Milford, Conn. 609,658, pub. 4-26-55. Cl. 44.  
 Cyclo Chemicals Ltd., London, England. 609,717, pub. 5-3-55. Cl. 52.  
 Daily, Robert E., Seattle, Wash. 609,512, pub. 4-26-55. Cl. 22.  
 Dalason Products Mfg. Co.: See—  
 Abelson, Samuel.  
 Dallas Iron & Wire Works, Inc., Dallas, Tex. 609,399, pub. 4-26-55. Cl. 12.  
 Dallas Iron & Wire Works, Inc., Dallas, Tex. 609,409, pub. 5-3-55. Cl. 12.  
 Daniels Mfg. Co., Rhinelander, Wis. 327,081, ren. 8-13-55. Cl. 37.  
 Darby Corp., The: See—  
 Darby Products of Steel Plate Corp., The.  
 Darby Products of Steel Plate Corp., The, d. b. a. The Darby Corp., Kansas City, Kans. 609,356-8, pub. 4-26-55. Cl. 2.  
 Daroff, H., & Sons, Philadelphia, Pa. 609,628, pub. 5-3-55. Cl. 39.  
 Davis & Lawrence Co., Dobbs Ferry, N. Y. 106,221, ren. 10-19-55. Cl. 6.  
 Daystrom, Inc., Elizabeth, N. J. 609,498, pub. 5-3-55. Cl. 21.  
 De Bord, Charles L., d. b. a. Rural Retreat Mills, Johnson City, Tenn. 426,710, can. Cl. 46.  
 Deknatel, J. A., & Son, Inc., Queens Village, N. Y. 609,704, pub. 4-19-55. Cl. 50.  
 Delaware Tool Steel Corp., Wilmington, Del. 609,599, pub. 4-19-55. Cl. 34.  
 Delco Products Corp., Dayton, Ohio, to General Motors Corp., Detroit, Mich. 327,515, ren. 8-27-55. Cl. 21.  
 Deluxe Colls, Inc., Wabash, Ind. 609,476, pub. 4-26-55. Cl. 21.  
 Dental Fillings Ltd., London, England. 609,661, pub. 4-19-55. Cl. 44.  
 Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. 609,526, pub. 5-3-55. Cl. 23.  
 Deward & Rich, Inc., to Amsterdam Syndicate, Inc., New York, N. Y. 329,074, ren. 10-16-55. Cl. 37.  
 Dings Magnetic Separator Co., Milwaukee, Wis. 609,482, pub. 4-26-55. Cl. 21.  
 Diopticon Co., Milwaukee, Wis. 609,698, pub. 4-19-55. Cl. 50.  
 Doll, Martin, d. b. a. Cellulose Products Co., High Point, N. C. 609,616, pub. 4-19-55. Cl. 37.  
 Doniger, David D., & Co. Inc., New York, N. Y. 609,655, pub. 4-26-55. Cl. 39.  
 Dormeyer Corp., Chicago, Ill. 609,459, pub. 2-1-55. Cl. 21.  
 Doscher, Gerard H., d. b. a. The Granulite Co., Chicago, Ill. 609,392, pub. 4-26-55. Cl. 10.  
 Dresner, Samuel, Brooklyn, N. Y. 609,400, pub. 4-26-55. Cl. 12.  
 Dresser Industries, Inc., Dallas, Tex. 609,821, pub. 5-3-55. Cl. 38.  
 Drillograph Co., Inc., Shawnee, Okla. 609,559, pub. 4-26-55. Cl. 26.  
 Dronsfeld Brothers Ltd., Oldham, England. 609,363, pub. 5-3-55. Cl. 4.  
 Drugmaster, Inc., St. Louis, Mo. 609,445, pub. 5-3-55. Cl. 18.  
 Dumari Textile Co., Inc., New York, N. Y. 609,651, pub. 4-26-55. Cl. 39.  
 Duncan, Donald F., Inc., Chicago, Ill. 609,514, pub. 5-3-55. Cl. 22.  
 Duncan-Wilson: See—  
 Wilson, Robert E.  
 Du Pont, E. I., de Nemours and Co., Wilmington, Del. 609,350, pub. 4-26-55. Cl. 1.  
 Durham Chemicals Ltd., Sunderland, England. 609,413, pub. 4-26-55. Cl. 14.  
 E. Z. Fainor Corp., Milwaukee, Wis. 609,576, pub. 4-26-55. Cl. 29.  
 EZ Products: See—  
 Steckler, Nat P.  
 Early Times Distillery Co.: See—  
 Brown-Forman Distillers Corp.  
 Eastern-Columbia, Inc., Los Angeles, Huntington Park, and Pasadena, Calif. 383,013, can. Cl. 42.  
 Eastman Kodak Co., Flemington, N. J. 609,431, pub. 5-3-55. Cl. 18.  
 Eastman Kodak Co., Rochester, N. Y. 609,501, pub. 5-3-55. Cl. 21.  
 Eastman Kodak Co., Rochester, N. Y. 609,563-4, pub. 5-3-55. Cl. 26.  
 Eaton-Dikeman Co., The, Mount Holly Springs, Pa. 609,581-2, pub. 4-19-55. Cl. 31.  
 Eau de Cologne & Parfumerie-Fabrik Glockengasse No. 4711, Gegenüber der Pferdepost von Ferd. Mülhens: See—  
 Mülhens, Ferdinand.  
 Eclipse Sleep Products Inc., Brooklyn, N. Y. 609,592, pub. 4-26-55. Cl. 32.  
 Edwards & Loomis Co., to Hales & Hunter Co., Chicago, Ill. 102,383, ren. 2-9-55. Cl. 46.  
 Edwards & Loomis Co., to Hales & Hunter Co., Chicago, Ill. 105,721, ren. 8-17-55. Cl. 46.  
 Electriglas Corp., Bergenfield, N. J. 609,499, pub. 5-3-55. Cl. 21.  
 Electro-Acid Corp., Houston, Tex. 609,483, pub. 4-26-55. Cl. 21.  
 Electroacoustic G. m. b. H., Kiel, Germany. 609,542-3, pub. 5-3-55. Cl. 26.  
 Elgret Optical Co., Inc., Rochester, N. Y. 609,540, pub. 5-3-55. Cl. 26.  
 Elgin National Watch Co., Elgin, Ill. 327,318, 12(c) pub. 7-26-55. Cl. 27.  
 Entire Wheat Bread Co., St. Louis, Mo. 128,684, can. Cl. 46.  
 Eppens, Smith Co., Inc., Long Island City, N. Y. 326,034, ren. 7-9-55. Cl. 46.  
 Equi, Vera and Bill, Long Beach, Calif. 609,515, pub. 5-3-55. Cl. 22.  
 Erie Resistor Corp., Erie, Pa. 609,477, pub. 4-26-55. Cl. 21.  
 Erwood Inc., Chicago, Ill. 609,744, Cl. 23.  
 Esso Standard Oil Co., Wilmington, Del. 609,739-40. Cl. 15.  
 Estate Industries, Ltd., Kingston, B. W. I., Jamaica. 609,693, pub. 8-31-54. Cl. 49.  
 Etna Chemical Co., Inc.: See—  
 Anglo-American Pharmaceutical Co.  
 Evelyn Hat Co.: See—  
 Glasberg, Hyman.  
 Eveready Briksaw Co., Chicago, Ill. 609,745, Cl. 23.  
 Excello Drug Products, Inc., Union, N. J. 609,426, pub. 5-10-55. Cl. 18.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 609,702, pub. 4-19-55. Cl. 50.  
 Fair, The, Chicago, Ill. 506,673, can. Cl. 6.  
 Fairchild Camera and Instrument Corp., Syosset, N. Y. 609,552, pub. 4-19-55. Cl. 26.  
 Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Brüning, Frankfurt am Main Hoechst, Germany. 609,371, pub. 5-3-55. Cl. 6.  
 Fashions for Fun & Function, Verona, N. J. 609,657, pub. 5-3-55. Cl. 40.  
 Fawick Flexi-Grip Co., Akron, Ohio. 609,513, pub. 4-26-55. Cl. 22.  
 Fellows Medical Mfg. Co., Inc.: See—  
 Fellows Medical Mfg. Co., Ltd., The, to Fellows Medical Mfg. Co., Inc., New York, N. Y. 106,422, ren. 10-19-55. Cl. 18.  
 Fenole Chemical Co.: See—  
 Powell, Wylie R.  
 Fischer Industries, Inc.: See—  
 Fischer's Surfa-Saver, Inc., by Fischer Industries, Inc., Cincinnati, Ohio. 322,318, 12(c) pub. 7-26-55. Cl. 52.  
 Fischer's Surfa-Saver, Inc., by Fischer Industries, Inc., Cincinnati, Ohio. 322,970, 12(c) pub. 7-26-55. Cl. 4.  
 Fleisher Yarns, Inc., Long Island City, N. Y. 326,222, ren. 7-16-55. Cl. 38.  
 Fletcher, F. P., & Sons, Puente, Calif. 609,463, pub. 5-3-55. Cl. 21.  
 Fil-Back Co.: See—  
 Gibson, James E., Jr.  
 Fil-Back Co., Inc.: See—  
 Gibson, James E., Jr.  
 Flintkote Co., The, New York, N. Y. 609,365, pub. 5-3-55. Cl. 5.  
 Flotill Products, Inc., Stockton, Calif. 607,456, corrected. Cl. 46.  
 Follain Syndicate Ltd., London, to Follain-Wycliffe Foundries Ltd., Lutterworth, England. 323,056, ren. 4-2-55. Cl. 14.  
 Follain-Wycliffe Foundries Ltd.: See—  
 Follain Syndicate Ltd.  
 Food Machinery and Chemical Corp., San Jose, Calif. 609,368, pub. 3-15-55. Cl. 6.  
 Forstmann Woolen Co., to Forstmann Woolen Co., Passaic, N. J. 325,133, ren. 6-11-55. Cl. 42.  
 "4711": See—  
 Mülhens, Ferdinand.  
 Fraternity of Phi Gamma Delta, The, Washington, D. C. 609,724, pub. 5-3-55. Cl. 100.  
 Freezit Corp. of America, The, Dallas, Tex. 609,583, pub. 4-19-55. Cl. 31.  
 French, Gus H., d. b. a. Sanex Inc., Minneapolis, Minn. 324,961, ren. 6-4-55. Cl. 18.  
 French, R. T., Co., The, Rochester, N. Y. 609,721, pub. 5-3-55. Cl. 52.  
 Friend Hide Co., Chicago, Ill., and St. Louis, Mo. 506,695-6, can. Cl. 1.  
 Gallagher, Weldon M., Elgin, Ill. 609,585, pub. 4-19-55. Cl. 31.  
 Gaseteria, Inc., Indianapolis, Ind. 609,372, pub. 5-3-55. Cl. 6.  
 Gauld Products, Inc., St. Paul, Minn. 321,249, ren. 1-22-55. Cl. 18.  
 Gauthier, Alfred, G. m. b. H., Calmbach-Enz, Germany. 609,568, pub. 4-26-55. Cl. 26.  
 Gee Mfg. Co., Inc., El Paso, Tex. 609,642-3, pub. 3-29-55. Cl. 39.  
 General Aniline & Film Corp.: See—  
 General Dyestuff Corp.  
 General Aniline & Film Corp., New York, N. Y. 506,669, can. Cl. 26.  
 General Aniline & Film Corp., d. b. a. Ansco, New York, N. Y. 609,373-4, pub. 5-3-55. Cl. 6.  
 General Dyestuff Corp., to General Aniline & Film Corp., New York, N. Y. 329,232, ren. 10-22-55. Cl. 6.  
 General Mills, Inc., Minneapolis, Minn. 325,541, ren. 6-25-55. Cl. 46.  
 General Motors Corp.: See—  
 Deleo Products Corp.  
 General Motors Corp., Detroit, Mich. 506,620, can. Cl. 21.  
 General Woodcraft Co., Inc., North Bergen, N. J. 609,403, pub. 4-19-55. Cl. 12.  
 Gettler-Montanye, Inc., Baltimore, Md. 341,629, can. Cl. 40.  
 Giannini, G. M., & Co., Inc., Pasadena, Calif. 609,556, pub. 5-3-55. Cl. 26.  
 Gibson, James E., Jr., d. b. a. Fil-Back Co., to The Fil-Back Co., Inc., High Point, N. C. 609,507, pub. 4-26-55. Cl. 22.  
 Gibson Refrigerator Co., Greenville, Mich. 609,588, pub. 5-3-55. Cl. 31.  
 Gilbert, A. C., Co., The, New Haven, Conn. 609,469, pub. 4-26-55. Cl. 21.  
 Gillette, Reuben A., d. b. a. Atlas Oxone Mfg. Co., Peoria, Ill. 609,492, pub. 5-3-55. Cl. 21.  
 Gillette Co., The, d. b. a. The TONI Co., Boston, Mass. 609,714, pub. 10-26-54. Cl. 51.  
 Giménez, Jorge, Catano, P. R. 506,770, can. Cl. 6.

Gland-O-Lac Co., The, Omaha, Nebr. 609,446, pub. 5-3-55. Cl. 18.  
 Glasberg, Hyman, d. b. a. Evelyn Hat Co., Boston, Mass. 609,641, pub. 5-29-55. Cl. 39.  
 Globe Rubber Products Corp., Philadelphia, Pa. 609,549, pub. 5-3-55. Cl. 26.  
 Gob Shops of America, Inc.: See—  
 Sterling Stores Corp.  
 Gold, Arthur, d. b. a. Advance Neckwear Co., Dallas, Tex. 609,632, pub. 5-3-55. Cl. 38.  
 Golan Import Co., Los Angeles, Calif. 609,696, pub. 5-3-55. Cl. 49.  
 Golden Peacock Co., Inc., Paris, Tenn. 609,366, pub. 12-14-54. Cl. 6.  
 Goldman & Spitzer, Inc., New York, N. Y. 609,644, pub. 3-29-55. Cl. 39.  
 Goldstein Millinery Co., Chicago, Ill. 609,636, pub. 4-5-55. Cl. 39.  
 Goldstein, Walter, d. b. a. Zenith Optical Laboratory, Copague, N. Y. 609,536, pub. 5-3-55. Cl. 26.  
 Goodman, Abraham, d. b. a. Timely Publications, New York, N. Y. 381,302, can. Cl. 38.  
 Gosnell, Charles A. and C. P., London, to John Gosnell & Co., Ltd., Lewes, Sussex, England. 12,420, ren. 7-21-55. Cl. 51.  
 Gosnell, Charles P.: See—  
 Gosnell, Charles A. and C. P.  
 Gosnell, John, & Co., Ltd.: See—  
 Gosnell, Charles A. and C. P.  
 Grand Rapids Varnish Corp., Grand Rapids, Mich. 329,821, can. Cl. 16.  
 Grand Rapids Varnish Corp., Grand Rapids, Mich. 378,618, can. Cl. 16.  
 Grand Rapids Varnish Corp., Grand Rapids, Mich. 422,772, can. Cl. 16.  
 Granulite Co.: See—  
 Doscher, Gerard H.  
 Graver Tank & Mfg. Co., Inc., East Chicago, Ind. 609,730, pub. 5-3-55. Cl. 103.  
 Great American Tea Co., The, New York, N. Y. 506,763, can. Cl. 6.  
 Green, Daniel, Co.: See—  
 Green, Daniel, Felt Shoe Co.  
 Green, Daniel, Felt Shoe Co., Boston, Mass., and Dolgeville, N. Y., to Daniel Green Co., Dolgeville, N. Y. 104,801, ren. 5-18-55. Cl. 39.  
 Green, Ward, Co., New York, N. Y. 506,797, can. Cl. 44.  
 Greif, L., & Bro., Inc., Baltimore, Md. 609,634, pub. 4-5-55. Cl. 39.  
 Griffin Chemical Co., San Francisco, Calif. 609,377, pub. 5-3-55. Cl. 6.  
 Hales & Hunter Co.: See—  
 Edwards & Loomis Co.  
 Hamilton Kent Mfg. Co., Kent, Ohio. 609,418, pub. 5-3-55. Cl. 16.  
 Hammermill Paper Co., Erie, Pa. 324,676, ren. 5-28-55. Cl. 37.  
 Hanau, Nathaniel A., Ridgfield Park, to Pyplan Co., Bloomfield, N. J. 609,667, pub. 5-3-55. Cl. 46.  
 Hardinge Co., Inc., York, Pa. 609,528, pub. 5-3-55. Cl. 23.  
 Hauman Instruments Co., Watertown, Mass. 609,541, pub. 4-26-55. Cl. 26.  
 Hays City Milling and Elevator Co., The, Hays, Kans., to The Colorado Milling & Elevator Co., Denver, Colo. 108,602, ren. 10-26-55. Cl. 46.  
 Henckels, J. A., New York, N. Y. 88,286, can. Cl. 23.  
 Henckels, J. A., New York, N. Y. 88,288, can. Cl. 23.  
 Henckels, J. A., New York, N. Y. 89,257, can. Cl. 23.  
 Henkel & Cie. Gesellschaft mit beschränkter Haftung, Dusseldorf-Holthausen, Germany. 323,662, ren. 4-28-55. Cl. 52.  
 Henkel & Cie. Gesellschaft mit beschränkter Haftung, Dusseldorf-Holthausen, Germany. 324,731, ren. 5-28-55. Cl. 52.  
 Hensoldt, M., & Söhne, Optische Werke A. G., Wetzlar, Germany. 609,569-70, pub. 5-3-55. Cl. 26.  
 Hester, James H., d. b. a. Hester Sportsman, Santa Monica, Calif. 609,456, pub. 4-26-55. Cl. 19.  
 Hester Sportsman: See—  
 Hester, James H.  
 Heublein, G. F., & Bro., Inc., d. b. a. L. Belsky & Cie., Hartford, Conn. 609,694, pub. 5-3-55. Cl. 49.  
 Hickok Mfg. Co., Inc., Rochester, N. Y. 609,656, pub. 5-3-55. Cl. 40.  
 Holst-Knudsen, Poul, Copenhagen, Denmark. 609,677-8, pub. 5-3-55. Cl. 46.  
 Holyoke Belting Co., Holyoke, Mass. 609,608, pub. 5-3-55. Cl. 33.  
 Hopkins Engineering Co.: See—  
 Hopkins, William L.  
 Hopkins, William L., d. b. a. Hopkins Engineering Co., Altadena, Calif. 609,470, pub. 4-26-55. Cl. 21.  
 Horn, Lambert W., San Francisco, Calif. 506,702, can. Cl. 6.  
 House of 4711, The: See—  
 Mülhens, Ferdinand.  
 House, L. J., Convex Glass Co., Point Marion, Pa. 174,500, can. Cl. 33.  
 House, L. J., Convex Glass Co., Point Marion, Pa. 174,652, can. Cl. 33.  
 Hudson, H. D., Mfg. Co., Chicago, Ill. 609,699-700, pub. 4-26-55. Cl. 50.  
 Hunter Douglas Corp., to Hunter Douglas Corp., New York, N. Y. 609,383, pub. 4-26-55. Cl. 7.  
 Hygienic Productions Inc., Wilmington, Ohio. 506,746, can. Cl. 6.  
 Industrial Engineering Corp., Louisville, Ky. 609,532, pub. 5-3-55. Cl. 26.  
 Industrial Soap Co., St. Louis, Mo. 609,378, pub. 5-3-55. Cl. 6.  
 Intermedico Corp., Floral Park, N. Y. 609,429, pub. 5-10-55. Cl. 18.



International Braid Co., Providence, R. I. 202,773, canc. Cl. 40.  
 International Braid Co., Providence, R. I. 374,255, canc. Cl. 40.  
 International Braid Co., Providence, R. I. 378,451, canc. Cl. 40.  
 International Milling Co., Minneapolis, Minn. 609,749, Cl. 46.  
 International Silver Co., to The International Silver Co., Meriden, Conn. 325,054, ren. 6-11-55. Cl. 28.  
 International Silver Co., to The International Silver Co., Meriden, Conn. 327,205, ren. 8-20-55. Cl. 28.  
 International Silver Co., The: See—  
 International Silver Co.  
 Iowa-Michigan Corp., Burlington, Iowa, to Consolidated Foundries and Mfg. Corp. 609,718, pub. 5-3-55. Cl. 52.  
 J. M. F. Chemical Co., Bryan, Tex. 506,755, canc. Cl. 6.  
 Johnson, Aaron W., New York, N. Y. 609,534, pub. 5-3-55. Cl. 26.  
 Johnson, S. C., & Son, Inc., Racine, Wis. 609,737, Cl. 4.  
 Johnson Service Co., Milwaukee, Wis. 328,721, ren. 10-1-55. Cl. 26.  
 Joseph-Hollywood, Burbank, Calif. 506,658, canc. Cl. 28.  
 K-D Lamp Division of Noma Electric Corp.: See—  
 Noma Electric Corp.  
 Keith Paper Co., Turners Falls, Mass. 609,610, pub. 4-19-55. Cl. 37.  
 Kelley, Farquhar & Co., Tacoma, Wash. 609,686, pub. 4-26-55. Cl. 46.  
 Kenney, C. D., Co., Baltimore, Md., to Consolidated Foods Corp., Chicago, Ill. 106,624, ren. 10-26-55. Cl. 46.  
 Kent-Moore Organization Inc., Detroit, Mich. 374,135, canc. Cl. 26.  
 Khasana G. m. b. H. Dr. Albersheim, Frankfurt am Main, Germany. 609,723, pub. 5-3-55. Cl. 52.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 336,461, canc. Cl. 22.  
 Kismet: See—  
 Terkelson, James L.  
 Kitchen-Quip, Inc., Fort Wayne, Ind. 609,518, pub. 2-21-55. Cl. 23.  
 Klenzade Products, Inc., Beloit, Wis. 609,715, pub. 5-3-55. Cl. 52.  
 Klepper Co., New York, N. Y. 609,454, pub. 4-26-55. Cl. 19.  
 Knapp, Norman E., d. b. a. Knapp Plow Co., San Jose, Calif. 609,525, pub. 5-3-55. Cl. 23.  
 Knapp Plow Co.: See—  
 Knapp, Norman E.  
 Kono Mfg. Co., The, Woodside, N. Y. 506,704, canc. Cl. 26.  
 Kono Mfg. Co., The, Woodside, N. Y. 506,718, canc. Cl. 26.  
 Korb, Josephine L., Newark, N. J. 609,711, pub. 4-26-55. Cl. 51.  
 Kresge, S. S., Co., Detroit, Mich. 609,617, pub. 4-19-55. Cl. 37.  
 Kulp, Emil, d. b. a. Kulp Mfg. Co., Chicago, Ill. 506,645, canc. Cl. 6.  
 Kulp Mfg. Co.: See—  
 Kulp, Emil.  
 Laboratoires Valdor, Société à Responsabilité Limitée, Puteaux, France. 363,615, canc. Cl. 8.  
 Laboratoires Valdor, Société à Responsabilité Limitée, Puteaux, France. 367,574, canc. Cl. 6.  
 Ladyarn Sportwear, New York, N. Y. 409,527, canc. Cl. 39.  
 Lamiglas Co., Kent, Wash. 609,506, pub. 11-24-53. Cl. 22.  
 Lamont, Creston L., d. b. a. Lamont's Hatchery, Eugene, Ore. 609,344, pub. 4-26-55. Cl. 1.  
 La Monte, George, & Son, Nutley, N. J. 609,614, pub. 4-12-55. Cl. 37.  
 Lamont's Hatchery: See—  
 Lamont, Creston L.  
 Lando Products, Inc., Sausalito, Calif. 609,404, pub. 4-26-55. Cl. 12.  
 Lane-Wells Co., Los Angeles, Calif. 609,726, pub. 5-3-55. Cl. 100.  
 Lear, Inc., Grand Rapids, Mich. 609,537, pub. 4-26-55. Cl. 26.  
 Levy, Myron B., Co., Inc., New York, N. Y. 506,700, canc. Cl. 42.  
 L'Hommiedieu, Chas. F., & Sons, Co., Chicago, Ill. 609,468, pub. 4-26-55. Cl. 21.  
 Libbey-Owens-Ford Glass Co., Toledo, Ohio. 609,595, pub. 5-3-55. Cl. 33.  
 Liberty Mfg. Co., Red Springs, N. C. 609,394, pub. 4-19-55. Cl. 10.  
 Lily-Tulip Cup Corp., New York, N. Y. 328,328, ren. 9-24-55. Cl. 2.  
 Lion Cross, Inc., New York, N. Y. 609,425, pub. 5-10-55. Cl. 18.  
 Lipoff, Harry, d. b. a. Lipoff's Wholesale Meats, Philadelphia, Pa. 609,679, pub. 4-26-55. Cl. 46.  
 Lipoff's Wholesale Meats: See—  
 Lipoff, Harry.  
 Litestar, Inc., Long Island City, N. Y. 609,577, pub. 12-21-54. Cl. 30.  
 Lloyd, E. E., Paper Co., Chicago, Ill. 104,461, ren. 6-1-55. Cl. 37.  
 London Leather Novelties, New York, N. Y. 609,385, pub. 4-26-55. Cl. 8.  
 Lopez Hermanos, to Lopez Hermanos S. A., Malaga, Spain. 324,946, ren. 6-4-55. Cl. 49.  
 Lopez Hermanos, S. A.: See—  
 Lopez, Hermanos.  
 Lorac Service Corp., Tulsa, Okla. 609,731, pub. 5-3-55. Cl. 104.  
 Luescot Beauty Products: See—  
 Scott, Louise.  
 Lukacs, Joseph M., Decatur, Ill. 609,612, pub. 4-12-55. Cl. 37.  
 Lukens Mfg. Co., Philadelphia, Pa. 609,591, pub. 4-26-55. Cl. 32.  
 Magnavox Co., The, to The Magnavox Co., Fort Wayne, Ind. 323,312, ren. 4-9-55. Cl. 21.  
 Magnet Cove Barium Corp., Bellaire, Tex. 609,348, pub. 4-19-55. Cl. 1.  
 Magnet Mills, Inc.: See—  
 Voorhees, Joseph P.  
 Major Distributing Co., Salinas, Calif. 609,675, pub. 4-26-55. Cl. 46.  
 Manhattan Shirt Co., The, New York, N. Y. 328,541, ren. 10-1-55. Cl. 39.  
 Mann Potato Chip Co. of Pennsylvania, Washington, D. C. 609,682, pub. 5-3-55. Cl. 46.  
 Mantle Lamp Co. of America, The, Chicago, Ill., to Aladdin Industries, Inc., Nashville, Tenn. 327,217, ren. 8-20-55. Cl. 21.  
 Marine Optical Mfg. Co., Roslindale, Boston, Mass. 506,614, canc. Cl. 26.  
 Marshall-Wells Co., Duluth, Minn. 380,740, 12(c) pub. 7-26-55. Cl. 35.  
 Massachusetts Steam Specialty Co.: See—  
 Appel, Saul C.  
 McBell Enterprises, Inc., Racine, Wis. 609,573-4, pub. 4-26-55. Cl. 29.  
 McBrady, J. E., & Co., Chicago, Ill. 506,773, canc. Cl. 6.  
 McBrest & McBrest, Inc., New York, N. Y. 434,264, canc. Cl. 38.  
 McGraw Electric Co., Chicago, Ill. 609,488, pub. 5-3-55. Cl. 21.  
 McHenry, Helen, Toledo, Ohio. 506,675, canc. Cl. 6.  
 McQuay, Inc., Minneapolis, Minn. 609,603, pub. 4-19-55. Cl. 34.  
 Mead & Davis, Inc., Bay City, Mich. 609,596, pub. 5-3-55. Cl. 34.  
 Meade, Charles A., Poughkeepsie, N. Y. 388,896, canc. Cl. 12.  
 Mearl Mfg. Corp., New York, N. Y. 609,376, pub. 5-3-55. Cl. 6.  
 Melville, Frank, Jr., by Melville Shoe Corp., New York, N. Y. 104,625, 12(c) pub. 7-26-55. Cl. 39.  
 Melville Shoe Corp.: See—  
 Melville, Frank, Jr.  
 Merchant, B. L., Downey, Calif. 609,387, pub. 4-26-55. Cl. 9.  
 Merck & Co., Inc., Rahway, N. J. 609,432-3, pub. 5-10-55. Cl. 18.  
 Merck & Co., Inc., Rahway, N. J. 609,681, pub. 4-26-55. Cl. 46.  
 Micamold Radio Corp., Brooklyn, N. Y. 609,495, pub. 5-3-55. Cl. 21.  
 Milaan Mills, Inc., Lebanon, Pa. 609,647, pub. 4-5-55. Cl. 39.  
 Minnesota Mining and Mfg. Co., St. Paul, Minn. 609,474, pub. 4-26-55. Cl. 21.  
 Mirus, Gilbert B., d. b. a. Carmac Co., Monrovia, Calif. 609,463, pub. 4-26-55. Cl. 19.  
 Mission Mfg. Co., Houston, Tex. 609,523, pub. 4-26-55. Cl. 23.  
 Mobile Supply, Inc., Perryville, Ohio. 607,443, corrected. Cl. 13.  
 Modern Food Process Co., to Thrivo Co., Inc., Philadelphia, Pa. 307,248, ren. 10-17-53. Cl. 46.  
 Modern Laboratory Equipment Co., Inc., New York, N. Y. 609,535, pub. 4-26-55. Cl. 26.  
 Monleigh Garment Co., Inc., Mocksville, N. C. 609,645, pub. 4-5-55. Cl. 39.  
 Montague, Joseph F., New York, N. Y. 324,551, ren. 5-21-55. Cl. 38.  
 Morton Salt Co., Chicago, Ill. 104,914, ren. 6-22-55. Cl. 46.  
 Mueller Electric Co., Cleveland, Ohio. 329,206, ren. 10-22-55. Cl. 21.  
 Mühlens, Ferdinand, d. b. a. Eau de Cologne & Parfumerie-Fabrik Glockengasse No. 4711, Gegenüber der Pferdepot von Ferd. Mühlens and "4711" or The House of 4711, Cologne (Rhine), Germany. 609,712, pub. 2-1-55. Cl. 51.  
 Muscat Cooperative Growers: See—  
 Muscat Cooperative Winery Association.  
 Muscat Cooperative Winery Association, d. b. a. Muscat Cooperative Growers, Kingsburg, Calif. 609,680, pub. 4-26-55. Cl. 46.  
 N. B. K. Co., North St. Paul, Minn. 609,652, pub. 5-3-55. Cl. 39.  
 Name and Addressing Service: See—  
 Copening, Fred W.  
 Napier Co., The, Meriden, Conn. 506,691, canc. Cl. 28.  
 Nathan Mfg. Co., New York, to Nathan Mfg. Corp., Astoria, N. Y. 104,225, ren. 5-11-55. Cl. 13.  
 Nathan Mfg. Co., New York, to Nathan Mfg. Corp., Astoria, N. Y. 328,795, ren. 10-8-55. Cl. 23.  
 Nathan Mfg. Corp.: See—  
 Nathan Mfg. Co.  
 Nathanson, Joseph G., Natick, R. I. 506,630, canc. Cl. 6.  
 National Association of Bedding Manufacturers, Washington, D. C. 609,623, pub. 5-3-55. Cl. 38.  
 National Association of Exhibit Managers, Cleveland, Ohio. 609,727, pub. 5-3-55. Cl. 100.  
 National Automotive Fibres, Inc., Detroit, Mich. 609,707, pub. 4-19-55. Cl. 50.  
 National Independent Union Council, Washington, D. C. 609,601, pub. 4-12-55. Cl. 34.  
 National Macaroni Co., Libertyville, Ill. 118,319, canc. Cl. 46.  
 Naphi Processing Plant, Inc., Nephi, Utah. 609,685, pub. 4-26-55. Cl. 46.  
 Newport Optical Mfg. Co., Inc., Brooklyn, N. Y. 506,613, canc. Cl. 26.  
 New York Knitting Mills, Inc., New York, N. Y. 324,120, ren. 5-14-55. Cl. 39.  
 Niles-Bement-Pond Co., West Hartford, Conn. 609,467, pub. 4-26-55. Cl. 21.  
 Noco Co., The: See—  
 Nook & O'Neill, Inc.

Noma Electric Corp., d. b. a. K-D Lamp Division of Noma Electric Corp., New York, N. Y., and Cincinnati, Ohio. 506,674, canc. Cl. 21.  
 Nook, Joseph H., Jr.: See—  
 Nook & O'Neill, Inc.  
 Nook & O'Neill, Inc., by J. H. Nook, Jr., d. b. a. The Noco Co., Cleveland, Ohio. 381,041, 12(c) pub. 7-26-55. Cl. 21.  
 Nordmark-Werke Aktiengesellschaft für Angewandte Chemie, Hamburg, Germany. 284,660, canc. Cl. 18.  
 Nordmark-Werke G. m. b. H., Hamburg, Germany. 299,709, canc. Cl. 45.  
 Nordmark-Werke G. m. b. H., Hamburg, Germany. 299,779, canc. Cl. 1.  
 Nordmark-Werk G. m. b. H., Hamburg, Germany. 300,187-8, canc. Cl. 18.  
 Nordmark-Werke G. m. b. H., Hamburg, Germany. 300,355, canc. Cl. 46.  
 Nordmark-Werke G. m. b. H., Hamburg, Germany. 300,935, canc. Cl. 18.  
 Nordmark-Werke G. m. b. H., Hamburg, Germany. 301,052-3, canc. Cl. 18.  
 Nordmark-Werke G. m. b. H. für Angewandte Chemie, Hamburg, Germany. 292,436, canc. Cl. 46.  
 North Electric Mfg. Co., The, Gallon, Ohio. 609,538, pub. 5-3-55. Cl. 26.  
 Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. 609,609, pub. 4-26-55. Cl. 36.  
 Oberfell, George G., Bartlesville, Okla. 609,386, pub. 4-19-55. Cl. 9.  
 Ohio Match Co., The, to The Ohio Match Co., Wadsworth, Ohio. 106,662, ren. 10-26-55. Cl. 9.  
 Olier, Frank E., Cleveland, Ohio. 609,583, pub. 5-3-55. Cl. 26.  
 Old Colony Envelope Co., Westfield, Mass. 609,359, pub. 5-3-55. Cl. 2.  
 Olympic Radio & Television, Inc., Long Island City, N. Y. 609,462, pub. 5-3-55. Cl. 21.  
 Operadio Mfg. Co., St. Charles, Ill. 506,714, canc. Cl. 26.  
 Orber Mfg. Co., Pawtucket, R. I. 609,572, pub. 3-15-55. Cl. 28.  
 Osborne Co., The, Clifton, N. J. 609,728, pub. 4-5-55. Cl. 101.  
 Osborne Co., The, Clifton, N. J. 609,729, pub. 5-3-55. Cl. 101.  
 Oster, John, Mfg. Co., Milwaukee, Wis. 609,478, pub. 4-26-55. Cl. 21.  
 Oteri, Nanzio S., d. b. a. Photo Process Screen Mfg. Co., Philadelphia, Pa. 609,524, pub. 5-3-55. Cl. 23.  
 Owens Brush Co., Toledo, Ohio. 506,640-1, canc. Cl. 29.  
 Owens, Chicago, Ill. 609,742, Cl. 18.  
 Pabst Brewing Co., Chicago, Ill. 609,736, Cl. 2.  
 Pacific Can Co., San Francisco, Calif. 609,736, Cl. 2.  
 Pacific States Laboratories, Inc., San Francisco, Calif. 609,438, pub. 5-10-55. Cl. 18.  
 Packard Paint & Varnish Co., Cambridge, Mass. 609,741, Cl. 16.  
 Panogen, Inc.: See—  
 Aktiebolaget Lauxeln-Casco.  
 Papaya Food Products Co.: See—  
 Anderson, Warren R.  
 Parker Brothers, Inc., Salem, Mass. 324,901, 12(c) pub. 7-26-55. Cl. 22.  
 Parker Brothers, Inc., Salem, Mass. 325,672, 12(c) pub. 7-26-55. Cl. 22.  
 Parker Brothers, Inc., Salem, Mass. 325,951, 12(c) pub. 7-26-55. Cl. 22.  
 Parkersburg-Aetna Corp., Parkersburg, W. Va. 609,411, pub. 5-3-55. Cl. 12.  
 Particulares, S. A., to Cifuentes y Compania, Habana, Cuba. 328,283, ren. 9-24-55. Cl. 17.  
 Peerless Finishing Corp., Paterson, N. J. 609,733, pub. 5-3-55. Cl. 106.  
 Penn-Plastics Corp., Glenside, Pa. 506,657, canc. Cl. 21.  
 Penney, J. C., Co., New York, N. Y. 609,649, pub. 4-5-55. Cl. 39.  
 Peoples Liquor, Inc.: See—  
 Silver Creek Liquor Co.  
 Percival, D. C., & Co., Inc., Boston, Mass. 279,115, canc. Cl. 28.  
 Per-Fit Products Corp., Indianapolis, Ind. 609,402, pub. 4-26-55. Cl. 12.  
 Permacel Tape Corp., North Brunswick Township, Middlesex County, N. J. 609,362, pub. 5-3-55. Cl. 4.  
 Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 609,430, pub. 5-10-55. Cl. 18.  
 Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 609,452, pub. 5-10-55. Cl. 18.  
 Pharmaceuticals, Inc., Los Angeles, Calif. 506,747, canc. Cl. 6.  
 Pharma-Craft Corp.: See—  
 Pharma-Craft Corp., The.  
 Pharma-Craft Corp., The, New York, N. Y., now by change of name Pharma-Craft Corp. 609,451, pub. 5-3-55. Cl. 18.  
 Pharma-Craft Corp., The, New York, N. Y., now by change of name Pharma-Craft Corp. 609,716, pub. 5-3-55. Cl. 52.  
 Philadelphia Quarts Co., Philadelphia, Pa. 506,741, canc. Cl. 6.  
 Photo Process Screen Mfg. Co.: See—  
 Oteri, Nanzio S.  
 Phrix Gesellschaft m. b. H., Hamburg, Germany. 609,349, pub. 4-12-55. Cl. 1.  
 Pittsburgh Plate Glass Co., Pittsburgh, Pa. 609,419, pub. 5-3-55. Cl. 16.  
 Plee-Zing, Inc., Evanston, Ill. 328,597, ren. 10-1-55. Cl. 46.  
 Pollywog Spinner Co.: See—  
 Crooker, Clarence A.  
 Poole, Myron C., Co., Bay City, Mich. 506,667, canc. Cl. 28.  
 Pooley Machine Co., Philadelphia, Pa. 609,587, pub. 5-3-55. Cl. 31.  
 Port, S., Packing Co., Altoona, Pa. 609,671, pub. 5-3-55. Cl. 46.  
 Postmatic Co., Philadelphia, Pa. 609,364, pub. 5-3-55. Cl. 5.  
 Powell, Wylie R., d. b. a. Fenole Chemical Co., Jacksonville, Fla. 230,121, canc. Cl. 6.  
 Power Glo Products, Queens Village, N. Y. 609,703, pub. 4-26-55. Cl. 50.  
 Precise Mfg. Co., Inc., Philadelphia, Pa. 609,496, pub. 5-3-55. Cl. 21.  
 Procter & Gamble Co., The, Cincinnati, Ohio. 324,562, ren. 5-21-55. Cl. 46.  
 Procter & Gamble Productions, Inc., Cincinnati, Ohio. 609,735, pub. 5-3-55. Cl. 107.  
 Prolong Co.: See—  
 Wilhelm, Warner F.  
 Promos, Louis, Leesburg, Va. 609,672, pub. 6-1-54. Cl. 46.  
 Puget Modern, Inc., Seattle, Wash. 609,405, pub. 4-26-55. Cl. 12.  
 Purdue Frederick Co., The, New York, N. Y. 609,447, pub. 5-3-55. Cl. 18.  
 Purify Mills, Inc., Dixon, Ill. 609,683, pub. 4-26-55. Cl. 46.  
 Pyplan Co.: See—  
 Hanau, Nathaniel A.  
 Quality Chemists, Inc., Maplewood, Mo. 609,427, pub. 8-10-54. Cl. 18.  
 Questar Corp., New Hope, Pa. 609,560, pub. 4-26-55. Cl. 26.  
 Quigley Co., Inc., New York, N. Y. 323,851, ren. 5-7-55. Cl. 12.  
 Radio Frequency Laboratories, Inc., Boonton, N. J. 609,494, pub. 5-3-55. Cl. 21.  
 Radio Industries Corp., New York, N. Y. 609,545, pub. 5-3-55. Cl. 26.  
 Radio Shack Corp., Boston, Mass. 609,562, pub. 5-3-55. Cl. 26.  
 Ratner, Lee, d. b. a. Ratner Mfg. Co., Chicago, Ill. 609,713, pub. 3-22-55. Cl. 51.  
 Ratner Mfg. Co.: See—  
 Ratner, Lee.  
 Raybestos-Manhattan, Inc., Passaic, N. J. 506,787, canc. Cl. 34.  
 Raygram Corp., New York, N. Y. 506,656, canc. Cl. 26.  
 Realemon-Puritan Co., Chicago, Ill. 609,752, Cl. 46.  
 Redhur Corp., Terre Haute, Ind. 432,231, canc. Cl. 46.  
 Red Owl Stores, Inc., Hopkins, Minn. 609,360, pub. 4-26-55. Cl. 2.  
 Red Owl Stores, Inc., Hopkins, Minn. 609,575, pub. 4-26-55. Cl. 29.  
 Reisner, W. H., Mfg. Co., Inc., The, Hagerstown, Md. 609,485, pub. 5-3-55. Cl. 21.  
 Reliance Mfg. Co., New York, N. Y. 609,650, pub. 4-19-55. Cl. 39.  
 Relsky, L., & Cie: See—  
 Heublein, G. F., & Bro., Inc.  
 Rembrandt Tobacco Corp. (Overseas) Ltd., Stellenbosch, Cape Province, Union of South Africa. 609,422, pub. 4-26-55. Cl. 17.  
 Remington Rand Inc., New York, N. Y. 323,202, 12(c) pub. 7-26-55. Cl. 37.  
 Rexall Drug Co.: See—  
 United Drug Co.  
 Rhineland Paper Co., Rhineland, Wis. 324,418, 12(c) pub. 7-26-55. Cl. 37.  
 Ricardo Metal Mfg. Co., Denver, Colo. 506,692, canc. Cl. 28.  
 Robbins & Myers, Inc., Springfield, Ohio. 609,606, pub. 4-12-55. Cl. 34.  
 Roberke Co., The: See—  
 Robins-Berke Co.  
 Robins-Berke Co., Norwalk, Conn., to The Roberke Co. 425,955, canc. Cl. 19.  
 Robinson, Frances J., d. b. a. Jeanene Robinson Preparations, Ely, Nev. 506,681, canc. Cl. 6.  
 Robinson, Jeanene, Preparations: See—  
 Robinson, Frances J.  
 Robson Corp., The, New York, N. Y. 506,725, canc. Cl. 26.  
 Rock-Ola Mfg. Corp., Chicago, Ill. 506,699, canc. Cl. 26.  
 Rogers, Lunt & Bowlen Co., Greenfield, Mass. 506,732, canc. Cl. 28.  
 Rosa, Anthony G., Lyndhurst, N. J. 609,396, pub. 4-19-55. Cl. 11.  
 Rose-Derry Co., Newton, Mass. 404,631-2, canc. Cl. 32.  
 Rose-Derry Co., Newton, Mass. 418,134, canc. Cl. 32.  
 Rosefield, J. B., d. b. a. An-Fo Mfg. Co., Oakland, Calif. 363,881, canc. Cl. 4.  
 Roseth Corp., Brooklyn, N. Y. 575,996, canc. Cl. 37.  
 Ross, A. H., & Sons Co., Chicago, Ill. 381,243, canc. Cl. 1.  
 Ross, James D., Chicago, Ill. 609,511, pub. 5-3-55. Cl. 22.  
 Ross, Will, Inc., Milwaukee, Wis. 328,514, ren. 10-1-55. Cl. 44.  
 Rugcroffers, Inc., New York, N. Y. 609,544, pub. 4-26-55. Cl. 26.  
 Rural Retreat Mills: See—  
 De Bord, Charles L.  
 Rüdch, Willy, K. G., Rommelshausen, Germany. 609,662-3, pub. 4-26-55. Cl. 44.  
 Ruson Laboratories, Inc., Portland, Ore. 609,448, pub. 5-10-55. Cl. 18.  
 Saint Cornelius The Centurion Chapel of Valley Forge Military Academy: See—  
 Younghusband, James L.  
 Saks & Co., New York, N. Y. 328,656, ren. 10-1-55. Cl. 39.  
 Salant & Salant, Inc., New York, N. Y. 609,639, pub. 5-3-55. Cl. 39.  
 Sandoz Chemical Works, Inc., New York, N. Y. 609,424, pub. 11-17-53. Cl. 18.  
 Sanex Inc.: See—  
 French, Gus H.  
 Saraber, Peter, Goslar/Harz, Germany. 609,547, pub. 5-3-55. Cl. 26.  
 Saraber, Peter, Goslar/Harz, Germany. 609,548, pub. 4-26-55. Cl. 26.



## LIST OF REGISTRANTS OF TRADEMARKS

- Sawyer Tanning Co., Napa, Calif. 609,347, pub. 4-26-55. Cl. 1.  
 Schiefer, Ernest H., San Diego, Calif. 609,354, pub. 4-26-55. Cl. 2.  
 Schielcher, Carl, & Schuell Co., Inc., Keene, N. H. 609,584, pub. 4-19-55. Cl. 31.  
 Schnepf Bros. Corp., Newark, N. J. 506,777, can. Cl. 6.  
 Schumann, Charles, Hunter, N. Y. 228,284, can. Cl. 6.  
 Schwartz, Rudolph L., d. b. a. Watertect Co., Buffalo, N. Y. 506,752, can. Cl. 6.  
 Schwarzenbach-Huber Co., The, New York, N. Y. 506,778, can. Cl. 42.  
 Scott, Louise, d. b. a. Luescot Beauty Products, Newark, N. J. 506,759, can. Cl. 6.  
 Scott Testers, Inc., Providence, R. I. 609,558, pub. 4-26-55. Cl. 26.  
 Screw Machine Products Co., Portland, Oreg. 609,701, pub. 4-26-55. Cl. 50.  
 Seagram, Joseph E., & Sons Ltd., Waterloo, Canada. 323,598, ren. 4-23-55. Cl. 49.  
 Sears, Roebuck and Co., Chicago, Ill. 417,822, can. Cl. 26.  
 Sears, Roebuck and Co., Chicago, Ill. 506,729, can. Cl. 6.  
 Sears, Roebuck and Co., Chicago, Ill. 609,471, pub. 4-26-55. Cl. 21.  
 Sears, Roebuck and Co., Chicago, Ill. 609,654, pub. 4-26-55. Cl. 39.  
 Seeqit, Inc., New York, N. Y. 506,768, can. Cl. 6.  
 Sellgmann, Otto, to American Collo Corp., New York, N. Y. 609,345, pub. 4-19-55. Cl. 1.  
 Separmatic, Inc., Milwaukee, Wis. 609,586, pub. 4-19-55. Cl. 31.  
 Sereda Drugs Ltd., Edmonton, Alberta, Canada. 609,449, pub. 5-3-55. Cl. 18.  
 Shenango Pottery Co., New Castle, Pa. 609,578, pub. 5-3-55. Cl. 30.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 506,790, can. Cl. 6.  
 Shuford Mills, Inc., Hickory, N. C. 609,380-2, pub. 4-26-55. Cl. 7.  
 Shuron Optical Co., Inc., Geneva, N. Y. 609,555, pub. 5-3-55. Cl. 26.  
 Sices & Rieger, Inc., Chicago, Ill. 395,061, can. Cl. 39.  
 Signode Steel Strapping Co., Chicago, Ill. 609,353, pub. 4-26-55. Cl. 2.  
 Silver Creek Liquor Co., to Peoples Liquor, Inc., St. Louis, Mo. 328,648, ren. 10-1-55. Cl. 49.  
 Silviro Mfg. Co. Ltd.: See—  
 B. V. D. Co., Inc., The.  
 Singer Mfg. Co., The, Elizabeth, N. J. 106,688, ren. 10-26-55. Cl. 43.  
 Sixie Spindle & Flyer Co., Inc., Charlotte, N. C. 609,519, pub. 5-3-55. Cl. 23.  
 Slater, Rodger & Co., Ltd., Glasgow, Scotland. 325,666, ren. 7-2-55. Cl. 49.  
 Smallwood, D. F. Co.: See—  
 Smallwood, Donald F.  
 Smallwood, Donald F., d. b. a. D. F. Smallwood Co., Indianapolis, Ind. 609,484, pub. 4-26-55. Cl. 21.  
 Smith, Kline & French Laboratories, Philadelphia, Pa. 506,765, can. Cl. 6.  
 Société à Responsabilité Limitée Dite: Société des Huiles Labo, Paris, France. 609,415, pub. 4-26-55. Cl. 15.  
 Societe Rhodiaceta, Paris, France. 609,640, pub. 3-29-55. Cl. 39.  
 Société Statofix Transcontinental, Tangier, Morocco. 609,367, pub. 4-26-55. Cl. 6.  
 Solar Mfg. Corp., New York, N. Y. 506,612, can. Cl. 21.  
 Solar Mfg. Corp., North Bergen, N. J. 506,619, can. Cl. 21.  
 Sooner Coal Mining Co., Kansas City, Mo. 402,165, can. Cl. 1.  
 Southern States Cooperative, Inc., Richmond, Va. 609,747. Cl. 46.  
 Southern States Cooperative, Inc., Richmond, Va. 609,751. Cl. 46.  
 Spalding, A. G., & Bros. Inc., Chicopee, Mass. 506,689, can. Cl. 22.  
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 Spring-Air Co., The, Chicago, Ill. 609,589, pub. 4-26-55. Cl. 32.  
 Stanley Rule & Level Co., The, to The Stanley Works, New Britain, Conn. 106,810, ren. 10-26-55. Cl. 26.  
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 Star Recorder Corp., The, Denver, Colo. 609,561, pub. 4-26-55. Cl. 26.  
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 Stein Bros. Mfg. Co. Inc., Chicago, Ill. 379,997, can. Cl. 3.  
 Stein Bros. Mfg. Co. Inc., Chicago, Ill. 381,585, can. Cl. 3.  
 Steinman, David, Detroit, Mich. 609,504, pub. 1-19-54. Cl. 22.  
 Sterling Stores Corp., Pawtucket, R. I., now by change of name Gob Shops of America, Inc. 609,637, pub. 3-29-55. Cl. 39.  
 Stevens, J. P., & Co., Inc., New York, N. Y. 322,340, ren. 3-5-55. Cl. 42.  
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 Stoltz, Ewald W.  
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 Taylor, Smith & Taylor Co., The, East Liverpool, Ohio. 609,579, pub. 5-3-55. Cl. 30.  
 Telrex, Inc., Asbury Park, N. J. 609,743. Cl. 21.  
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 Terrier, Felix, Payerne, Canton of Vaud, Switzerland. 609,516, pub. 4-26-55. Cl. 22.  
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 Tuboplast S. A., Vevey (Vaud), Switzerland. 609,520, pub. 5-3-55. Cl. 23.  
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 Upjohn Co., The, Kalamazoo, Mich. 506,772, can. Cl. 6.  
 Upjohn Co., The, Kalamazoo, Mich. 609,440, pub. 5-10-55. Cl. 18.  
 Utica Drop Forge & Tool Corp., Utica, N. Y. 609,521-2, pub. 5-3-55. Cl. 23.

## LIST OF REGISTRANTS OF TRADEMARKS

- Van Doren, Pierre B., Brussels, Belgium. 609,466, pub. 4-26-55. Cl. 21.  
 Van Dyk, James, Co., to James Van Dyk Co., Inc., Brooklyn, N. Y. 325,946, ren. 7-9-55. Cl. 46.  
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 Vita-Trol Corp., Detroit, Mich. 506,606, can. Cl. 26.  
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 Vitalic Battery Co., Inc., Dallas, Tex. 609,458, pub. 6-15-54. Cl. 21.  
 Vita-Zahnfabrik H. Rauter K. G., Essen, Germany. 609,370, pub. 5-3-55. Cl. 6.  
 Volt, W. J., Rubber Corp., Los Angeles, Calif. 609,517, pub. 4-26-55. Cl. 22.  
 Voorhees, Joseph P., New York, N. Y., to Magnet Mills, Inc., Clinton, Tenn. 106,069, ren. 9-28-55. Cl. 39.  
 Wade, Geoffrey, Advertising, Chicago, Ill. 609,725, pub. 5-3-55. Cl. 100.  
 Walker, Hiram, & Sons, Inc., Detroit, Mich. 609,697, pub. 5-3-55. Cl. 49.  
 Walker, Ruth S., Manhasset, N. Y. 609,659, pub. 4-19-55. Cl. 44.  
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 Weller, W. L., & Sons, Inc., Louisville, to Stitzel-Weller Distillery, Shively, Ky. 328,470-1, ren. 10-1-55. Cl. 49.  
 Wells, John R., d. b. a. Welco Mfg. Co., now known as Welco Development Co., Burlington, Iowa. 609,480, pub. 4-26-55. Cl. 21.  
 Western Tire Auto Stores, Inc., Chicago, Ill. 609,602, pub. 4-12-55. Cl. 34.  
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 Wheary-Burge Trunk Co., Racine, Wis. 189,727, can. Cl. 3.  
 Wheary Trunk Co., Racine, Wis. 224,099, can. Cl. 3.  
 Whiddett, John C., Co., Bala-Cynwyd, Pa. 609,491, pub. 5-3-55. Cl. 21.  
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 Wilhelm, Warner F., d. b. a. Prolong Co., Chicago, Ill. 506,648, can. Cl. 6.  
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 Wilson Brothers, Chicago, Ill. 609,653, pub. 5-3-55. Cl. 39.  
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 Wilson Trailer Co. Inc., Newport, Calif. 506,793, can. Cl. 19.  
 Wisconsin Cooperative Dairies, Inc., Menomonie, Wis. 609,750. Cl. 46.  
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 Yankee Metal Products Corp., Norwalk, Conn. 609,475, pub. 4-26-55. Cl. 21.  
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 Zeiss Ikon Aktiengesellschaft, Dresden, Germany, to Attorney General of the United States, Washington, D. C. 323,118, ren. 4-2-55. Cl. 26.  
 Zenith Optical Laboratory: See—  
 Goldstein, Walter.  
 Zimmerman, R. E., & Son, Greensboro, N. C. 609,497, pub. 5-3-55. Cl. 21.  
 Ziploc Co., The, New York, N. Y. 506,703, can. Cl. 28.  
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PATENTS

NOTICES

Examination of Applications in Classification Division

The program for accelerated reclassification and the program for augmentation of the Patent Examining Corps scheduled for the present and ensuing fiscal years will make heavy demands on the services of experienced Patent Examiners and Classifiers. To provide a staff of sufficient size to effectuate the reclassification program, it will be necessary to assign experienced Patent Examiners to this project. In order that such Examiners need not be completely separated from examining applications in their respective arts during any tours of duty in the Classification Group and that experienced Classifiers can become familiar with the search needs of the art about to be reclassified while contributing to the reduction in the backlog of pending applications, the Executive Examiner is authorized to adopt the following procedure whenever expedient.

When an art is scheduled to be reclassified, the Examiners' search files, pending applications assigned to that art and Patent Examiners engaged in the examination of that art, may be transferred to an appropriate Classification Division for conducting all ensuing examining functions under the direction of the Supervisory Patent Examiner having jurisdiction over the Examining Division to which the art was formerly assigned. Upon completion of the reclassification, the search and application files, together with the examining personnel, will be reassigned to an appropriate Examining Division.

Heads of each of the Classification Divisions are accordingly authorized to perform the duties and assume the responsibilities of a Primary Examiner as to all application files assigned to their divisions. Classifiers and Patent Examiners assigned to each of the Classification Divisions are authorized to perform the duties of both Patent Examiners and Classifiers.

ROBERT C. WATSON,  
Commissioner of Patents.

July 14, 1955.

Roster of Attorneys and Agents

The Patent Office has recently published a new edition of the *Roster of Attorneys and Agents Registered to Practice Before the U. S. Patent Office*.

This edition like the preceding one is an extract of the official Roster maintained by the Patent Office and contains the name and address of all individuals and firms registered in the Patent Office on May 1, 1955. This publication is composed of three sections (1) Individuals in the United States, (2) Firms and (3) Individuals in Foreign Countries. Each section contains Part I, Arranged Alphabetically, and Part II, Arranged Geographically.

This publication may be purchased from the Superintendent of Documents, Washington 25, D. C., for \$1.00 per copy. Remittance in the form of check or money order should be payable to the Superintendent of Documents.

T. B. MORROW,  
Executive Officer.

Disclaimer

2,616,309.—Robert C. Russell, Euclid, Ohio. TRANSMISSION. Patent dated Nov. 4, 1952. Disclaimer filed July 5, 1955, by the inventor.

Hereby enters this disclaimer to claims 2, 8, 9, 10, 11, 14, 15, 16, 17, and 22 of said patent.

Classification Order No. 177

Classification Order No. 177, dated July 11, 1955, incorporates changes in the following classes:

Classes 250 and 324

The above changes will be incorporated in the Manual of Classification replacement sheets dated October 1955.

M. C. ROSA,  
Executive Examiner.

July 18, 1955.

Classification Order No. 178

Classification Order No. 178, dated July 28, 1955, incorporates changes in the following classes:

Classes 15, 29, 51, 70, 74, 81, 118, 132, 310, 315, 317, 318, 340

The above changes will be incorporated in the Manual of Classification replacement sheets dated October 1955.

M. C. ROSA,  
Executive Examiner.

July 18, 1955.

Classification Order No. 179

The following class transfers, for concurrent reclassification and examination of applications pending therein, are directed to take effect on Monday, August 1, 1955.

From Division 51 to Classification Division II

Class 250, Radiant Energy, subclass 36

From Division 56 to Classification Division V

Class 210, Liquid Separation or Purification

From Division 67 to Classification Division I

Class 92, Paper Making and Fiber Liberation

M. C. ROSA,  
Executive Examiner.

July 15, 1955.

Classification Order No. 180

The following transfers are hereby ordered to take effect on Aug. 1, 1955:

Class 51, Abrading, Subs. 293 through 309

From Division 63 to Division 56

Class 106, Compositions, Coating or Plastic, Subs. 1, 2,

33-122, 286, 312-316

From Division 3 to Division 56

Class 106, Compositions, Coating or Plastic, Subs. 3-32,

123-285, 287-311

From Division 63 to Division 56

M. C. ROSA,  
Executive Examiner.

July 15, 1955.

New Applications Received During June 1955

Patents	6,921
Plants	8
Reissues	14
Designs	456
Total	7,399

Issue

Patents	509—No. 2,714,207 to No. 2,714,715, incl.
Designs	49—No. 175,241 to No. 175,289, incl.
Plants	1—No. 1,408
Reissues	2—No. 24,047 to No. 24,048, incl.
Total	561



# CONDITION OF PATENT APPLICATIONS AS OF JUNE 30, 1955

Total number of pending applications (excluding Designs).....	221, 872
Total number of pending Design applications.....	7, 018
Total number of applications awaiting action (excluding Designs).....	139, 614
Total number of Design applications awaiting action.....	2, 747
Date of oldest new application.....	June 1, 1954
Date of oldest amended application.....	Aug. 12, 1953

ROSA, M. C., Executive Examiner

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DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)		Oldest Application	
		New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.....	9-7-54	2-10-54	
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.....	12-2-54	5-18-54	
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.....	9-22-54	1-11-54	
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.....	10-4-54	11-20-53	
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.....	12-14-54	2-23-54	
36. (V) McFADYEN, A. D., Measuring and Testing.....	12-15-54	7-19-54	
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.....	7-13-54	2-1-54	
38. (I) MARMELSTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.....	9-13-54	12-10-53	
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).....	1-18-55	3-8-54	
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.....	1-3-55	5-3-54	
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.....	6-16-54	9-24-53	
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.....	10-18-54	3-15-54	
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).....	9-21-54	11-4-53	
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.....	12-3-54	7-7-54	
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.....	12-15-54	6-9-54	
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.....	7-1-54	8-12-53	
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.....	10-25-54	5-6-54	
50. (I) BENGOEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber.....	11-22-54	4-12-54	
51. (II) YAPFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.....	10-23-54	3-12-54	
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.....	11-10-54	4-1-54	
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.....	11-19-54	1-4-54	
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications.....	9-30-54	1-13-54	
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.....	6-4-54	12-31-53	
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.....	11-30-54	4-15-54	
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.....	2-16-55	3-23-54	
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.....	10-26-54	1-4-54	
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.....	12-23-54	2-23-54	
61. (II) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.....	12-10-54	7-1-54	
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.....	11-12-54	4-23-54	
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.....	9-3-54	10-27-53	
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions.....	10-7-54	12-23-53	
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.....	9-15-54	2-2-54	
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.....	10-27-54	5-5-54	
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.....	9-22-54	11-19-53	
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.....	6-9-54	9-8-53	
DESIGNS: [A—BREHM, G. L., Industrial Arts.....	12-7-54	12-13-54	
[B—GRAY, M. A., Household, Personal and Fine Arts.....	12-30-54	11-19-54	

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during August 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents..... Numbers 2,125,263 to 2,128,888, inclusive  
Plant Patents..... Numbers 282 to 289, inclusive



## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

LAWSON ET AL. V. BRUCE ET AL.

No. 6089. Decided April 28, 1955

[— F.2d —; — USPQ —]

#### 1. INTERFERENCES—CONSTRUCTIVE REDUCTION TO PRACTICE—DISCLOSURE AS SPECIFIC WORKING EXAMPLE NOT NECESSARY.

Since there is no requirement in R. S. 4888 that a party relying on a constructive reduction to practice to establish priority of invention must show a specific working example to support the compound claimed, *Held* that if the compound "would be the natural and expected result achieved by one skilled in the art following the procedures outlined by appellees in their parent specification, such disclosure must be regarded as sufficient."

#### 2. SAME—PRIORITY OF INVENTION—THERAPEUTIC ORGANIC COMPOUNDS.

The decision of the Board of Patent Interferences awaiting priority of invention of certain counts relating to organic compounds having therapeutic properties to appellees is affirmed.

APPEAL from the Patent Office. Interference No. 85,182.

AFFIRMED.

Dean Laurence (James B. Vander Kelen of counsel) for Lawson et al.

Louis H. Baer for Bruce et al.

Before GARRETT, Chief Judge, and O'CONNELL, JOHN-SON, WORLEY, and COLE, Associate Judges

COLE, J., delivered the opinion of the court.

Appellants here appeal from a decision of the Board of Patent Interferences of the United States Patent Office, one member dissenting, awarding priority of the inventive subject matter disclosed in two counts composing the interference to the junior party and appellees, Bruce and Seifter.

The invention defined in the counts relates to a group of new organic compounds having valuable therapeutic properties, such as local anesthetic activity. Count 1 is a generic composition claim. Count 2 covers a process for making the product of count 1. The counts read:

1. A member of the group consisting of a basic amide having the formula



where B is a di(lower alkyl)amino group attached to Y through its nitrogen atom and wherein the alkyl groups may be joined to form a member of the group consisting of piperidines, morpholines and pyrrolidines and Y is a lower alkylene group, and acid addition salts thereof.

2. The process of preparing a basic amide having the formula



where B is a di(lower alkyl)amino group attached to Y through its nitrogen atom and wherein the alkyl groups may be joined to form a member of the group consisting of piperidines, morpholines and pyrrolidines and Y is a lower alkylene group, which comprises treating a compound having the formula



with a secondary amine having the formula BH.

The interference was declared between a patent to appellants, Lawson et al., issued August 29, 1950 (No. 2,520,153), on an application, Serial No. 773,520, filed September 11, 1947; and an application of appellees, Serial No. 204,266, filed January 3, 1951, as a continuation-in-part of an application, Serial No. 673,155, filed May 29, 1946. Appellees' application in interference

was thus filed subsequent to the issuance of appellants' patent, and the counts in controversy were copied by appellees from the patent (claims 2 and 7 therein) for purposes of interference.

Neither party took testimony. Appellant (senior party) relied on the date of the filing of their application (which matured into the patent in interference) for inventive acts. To overcome this filing date, appellees relied on the disclosure of their parent (1946) application as a constructive reduction to practice of the invention defined in the counts.

Somewhat simplified, the issue for determination by the Board of Patent Interferences amounted essentially to this: In *Kyrides v. Anderson et al.*, 28 CCPA (Patents) 1336, 121 F.2d 514, 50 USPQ 131, we held, in effect, that the first party to conceive and reduce to practice, either actually or constructively, a species of a generic count was entitled to the award of priority as to such genus. It being undisputed that appellees herein, in their parent application, disclosed a single compound within the scope of the generic counts, i. e., alpha-morpholino-N-diphenylmethyl acetamide, the rule in *Kyrides v. Anderson et al.*, supra, would clearly apply if appellees could prove that such disclosure was sufficient to support, within the contemplation of the patent law, a constructive reduction to practice of the named species. Having copied the counts into their interference application from an issued patent, appellees were required to prove their case beyond a reasonable doubt. See *Wiley v. Mears et al.*, 22 CCPA (Patents) 986, 75 F.2d 510, 24 USPQ 457; *Bierly v. William Bernard Happoldt, Jr.*, 40 CCPA (Patents) 774, 201 F.2d 955, 96 USPQ 406. Worthy of observation, however, is the fact that since appellees' parent application contained a species within the count, and such application was co-pending with appellants' later filed application, issuance of the patent to the latter without declaring an interference between such co-pending applications may well have been the result of some oversight on the part of the Patent Office officials.

In awarding priority to appellees, the majority of the Board, for reasons discussed in detail, *infra*, was satisfied that the species composition and process in question were adequately disclosed. The dissenting member, in a written opinion, expressed a contrary viewpoint.

Both parties filed well prepared briefs and participated in the oral argument of the appeal. The chemistry involved is exceedingly complex, requiring the utmost and painstaking study to understand, especially where, as here, we are called upon as a lay group to apply such chemistry in the light of applicable law to determine whether there is requisite basis in a patent application disclosure to teach a trained chemist to make a heretofore unknown organic chemical compound within the terms of the counts in interference. Being fully cognizant of our limitations under these circumstances, we accomplish no commendable result by substituting our judgment for that of the body of

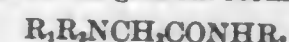
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experts, whose decision we are urged to reverse, unless it clearly appears to us that such experts have committed error.

It is not disputed that the parent disclosure relied upon by appellees sets forth one lower alkylene group, e. g. methylene. The species within the count, alpha-morpholino-N-diphenylmethyl acetamide, hereinafter referred to as compound 17, appears in the parent application as one of many new substituted glycinamides useful in the field of therapeutics. These compounds were stated in the specification and appellees' brief to have the general formula



where  $R_1R_2N$  could be either a nitrogen-containing heterocyclic radical, contemplating and mentioning piperidine, morpholine, and pyrrolidine, or where  $R_1$  and  $R_2$  were separate alkyls, and  $R_3$  could represent an aralkyl radical (which includes a diphenylmethyl radical). As set forth in the specification, the following method was to be used in making the contemplated compounds:

In general, the compounds of the invention may be synthesized by reacting an appropriate chloracetamide corresponding to the formula



where  $R_3$  represents the radicals indicated above with an appropriate secondary amine corresponding to the formula  $R_1R_2NH$ , where  $R_1R_2N$  represents the radicals as indicated above.

The amines may be prepared in the usual and known manner. The preferred method for the preparation of the chloracetamide intermediate involves reacting chloroacetyl chloride with a primary amine  $R_3NH_2$  in the presence of benzene or ether as a solvent for the reactants. Heating may or may not be necessary depending on the speed of the particular reaction. The chloracetamide remains in solution in the solvent and is obtained by distilling off the solvent under reduced pressure. In general, a molar ratio of chloride to amine of about 1:2 is preferred for the reaction.

The reaction of the appropriate chloracetamide and the appropriate secondary amine to form the desired substituted glycinamide is preferably operated with a molar ratio, amide to amine of about 1:1 and is carried out in the presence of a solvent for the reactants such as higher alcohols having 4 to 7 carbon atoms in the molecule, dioxane or hydrocarbon solvents such as xylene. The reaction is carried out in the presence of an acid acceptor or mildly basic material such as alkali or alkaline earth metal carbonates, sodium bicarbonate or alkali metal alcoholates and preferably about 2 to 3 moles of this material is used. The reaction operation is set up for refluxing and the reaction temperature is the refluxing temperature of the particular solvent selected. Generally a reaction or refluxing time of about 10-15 hours is sufficient for complete reaction. In the event that solids are formed, these are removed by filtration, the substituted glycinamide product remaining in solution in the solvent. The latter is finally removed by distillation at low pressures to obtain the desired product.

Five specific examples were included in the application for making compounds in accordance with the stated formula and general procedure. Twenty-nine additional compounds were listed, including compound 17, alpha-morpholino-N-diphenylmethyl acetamide, appellees asserting in the specification that all such compounds could be made by procedures analogous to those disclosed in the examples. Common physical and chemical properties of all compounds were disclosed. Utility of the compounds as therapeutics is not disputed.

The counts in interference as stated are directed to a series of poly-arylated compounds. The specific examples appearing in appellees' parent specification, and the entire list of named compounds, with the exception of compound 17, relate to mono-arylated alkyl compounds. Compound 17 is a poly-arylated compound. There is no specific working example given for the preparation of compound 17, and no independently identifying properties or quantitative physical constants, other than the naming of the compound, are specifically given with reference thereto. The princi-

pal starting intermediate admitted to be necessary to prepare compound 17, i. e., chloro-N-diphenylmethyl acetamide, is likewise undisclosed.

At the time appellees' parent application was filed, there was no requirement in the Rules of the Patent Office, as now in effect, that a specific embodiment of a claimed process and/or composition of matter be included in the specification. Accordingly, the Board of Patent Interferences addressed itself to a determination of whether a specific working example was otherwise required by law, and whether appellees' parent specification as a whole was sufficient to teach one skilled in the art to prepare compound 17. The majority of the Board reviewed a number of decisions rendered by tribunals within the Patent Office, and concluded as follows:

The Office rulings above discussed definitely establish that a sufficient disclosure need not of necessity contain a specific working example for a particular compound being claimed. A teaching in the specification as a whole for preparing the compound may suffice. As for identifying properties the decisions establish no uniform practice. We find nothing in R. S. 4888 [the statute then applicable] or the Rules of Practice which demands such properties in a disclosure and we are not aware that the question has been decided in the courts.

It is not believed necessary that the Bruce et al. [appellees'] parent application indicate that the compound was ever made. For that matter even the examples in the involved Lawson et al. [appellants'] patent do not prove the named compounds were made since a melting point does not establish the identity of a novel compound. Only an analysis (which is lacking) would establish identification. However, the statutes do not require that a patentee actually reduce the invention to practice. The filing of a complete and allowable application is conclusive evidence that the invention was reduced to practice as early as that date. [Citing *Automatic Weighing Machine Co. v. Pneumatic Scale Corp.*, 166 Fed. 288].

Five specific examples are given in the parent application, all relating to compounds outside the counts. Twenty-nine additional compounds are listed, among them compound 17 herein relied upon. It is stated [in appellees' parent specification] that the listed compounds may be prepared by procedures analogous to those described in the examples. In addition there is the general disclosure [hereinafter quoted from appellees' specification]. It appears, therefore, that although no specific working example is given for compound 17 there is set forth substantial working procedure. For this reason we disagree with the senior party's view that more than the mere naming of the compound has not been accomplished in the parent application.

The reactants required to produce compound 17 according to the procedures disclosed are obviously morpholine and chloro-N-diphenylmethyl acetamide. The senior party correctly points out that the latter reactant is not mentioned in the parent case but this is not significant, as we view it, because a glance at the naming of compound 17 would clearly spell out to any chemist that this reactant must be used.

After careful consideration of the parent disclosure we are satisfied that a person skilled in the art, following the general and specific teachings therein, would encounter no difficulty in producing compound 17. It is not denied by the Examiner, or the senior party that compound 17 can actually be produced by following closely the analogous and general procedures disclosed in the parent application. We appreciate that it may involve some judgment on the part of the skilled worker. This, however, is true even in cases where examples are given since obviously every detail of the necessary procedure cannot be given in a patent specification and many details must be left to the skill of the chemist. [Citing *Farrington et al. v. Mikeka*, 33 CCPA (Patents) 1073, 155 F.2d 412, 69 USPQ 509].

Only if the lack of disclosure of an identifying chemical or physical property would cause a person skilled in the art to resort to experimentation before he could make compound 17 would we feel justified in holding the disclosure incomplete. Perhaps there are instances where identifying properties are needed to enable persons skilled in the art to prepare a compound and thus satisfy R. S. 4888 in respect to a complete disclosure but we do not think such a situation exists here. There is nothing in any of the five examples in the parent case to indicate that knowledge of a boiling point or other characteristic contributed anything to the production of the compound. We see no reason why compound 17 could not be produced in the same way, unaided by a melting point or a boiling point or other property and there is no evidence this particular case the full and adequate naming of compound 17 is sufficient to satisfy any call for an identifying property, for the reason that the molecular weight of the compound is inherently disclosed when the compound is named. There appears no involvement of isomers and it seems to us, therefore, that the molecular weight is as much an identifying characteristic as a melting point or a boiling point, for once any of these constants are given confirmation by actual test is a routine matter.



In contravention of the foregoing conclusions, appellants argue that the mere naming of compound 17, without disclosing its identifying properties, and without a working example and disclosure of the intermediates from which the compound is to be prepared, does not constitute sufficient basis (beyond a reasonable doubt) for a constructive reduction to practice of the subject matter defined in the issue counts. Appellants urge that the probative character of the proof offered in support of a constructive reduction to practice must be examined by the same stringent criteria as is proof of an actual reduction to practice, except for the latter's requirement of corroboration. In this respect, appellants contend that mere disclosure of compound 17 with the statement that an appropriate secondary amine and an appropriate undisclosed chloroacetamide can be reacted by procedures analogous to those described in examples in the specification, all of which relate to compounds not within the counts, is clearly insufficient. They emphasize that the principal starting material, i. e., chloro-N-diphenylmethyl acetamide, is not disclosed, and that no member of the mono-arylated series of compounds set forth by appellees would serve as such intermediate in preparing compound 17. Each of these arguments finds some support in the views expressed by the dissenting member of the Board, particularly so in the contention that there was a lack of disclosure of the proposed reactants necessary to make compound 17. The dissenting member emphasized that while such reactants were the appropriate secondary amine and acetamide, and with respect to compound 17 would be morpholine and diphenylmethyl chloroacetamide, a search through certain chemical literature failed to reveal to him any mention of the required amide reactant.

[1] In R. S. 4888<sup>1</sup> (35 U. S. C., 1946 ed., sec. 33), the statute applied by the Board in evaluating the legal sufficiency of appellees' parent disclosure, an inventor is required in his application for a patent to disclose the invention in such full, clear, concise, and exact terms as to enable one skilled in the art to make, construct, compound, and use the same. There is no requirement in R. S. 4888 that a party relying on a constructive reduction to practice to establish priority of invention must show a specific working example to support the compound claimed. For this reason, if compound 17 would be the natural and expected result achieved by one skilled in the art following the procedures outlined by appellees in their parent specification, such disclosure must be regarded as sufficient.

We think, therefore, that the important consideration, recognized but only partially applied by the dissenting member of the Board, and seemingly in the final analysis ignored by appellants, is not whether appellees have proved that they have followed their

own procedures and actually identified and held compound 17 in their hands. Proof of this character is obviously directed to establishing an actual reduction to practice and appellees do not here rely thereon.

In their brief, appellees have answered, and we believe quite satisfactorily, the question of disclosure of the amide reactant necessary to make compound 17. They state:

The pertinent chloroacetamide which the dissenting member could not find is a known compound and he would have found it had he searched through the chemical patent literature. It is fully disclosed in the patent to Bruce et al. [appellees herein], No. 2,449,638, dated September 21, 1948 [application filed May 20, 1946], column 3, lines 12-30 inclusive. The pertinent disclosure in this patent is reproduced hereinbelow: "For the preparation of the appropriate chloroacetamide intermediate, 20 grams of diphenylmethyl amine in 200 cc. of benzene was added to a solution of 11.3 grams of chloroacetyl chloride in 200 cc. of benzene. The solution was refluxed for 3 hours and after cooling diphenylmethyl amine hydrochloride separated and was filtered off. After concentration of the filtrate in vacuo, the product, N-alpha-chloroacetodiphenylmethyl amine solidified and was recrystallized from alcohol. It weighed 18.3 grams and melted at 128-129° C."

Chemical analysis of the above was also set forth. In any event, the majority opinion below has stated that the name of compounds 17, in itself, is sufficient for any chemist to understand that this reactant must be used.

It does not appear disputed that the mere naming of compound 17 is adequate to disclose to the trained chemist the formula, molecular weight, and arrangement and inter-relation of the atoms. This is certainly an identifying property. The general method disclosed for making compound 17, and the five examples, though none are specific to compound 17, would seem to constitute abundant working principle, and, in this respect, we note that appellants have not taken issue with the conclusion of the majority below that compound 17 can, in fact, be produced "by following closely the analogous and general procedures disclosed in the parent application." We also note that the disclosure in question states that the compounds of the invention, including compound 17, may be prepared and used in the form of their acid addition salts, citing examples, and general solubility characteristics of the contemplated compounds are given as well as specific reference to the various therapeutic values thereof.

We can find no sound basis in appellants' arguments upon which to conclude that the description given in appellees' parent application is not in compliance with the provisions of R. S. 4888, supra. On the contrary, we are of the opinion that the decision appealed from is correct, and we adopt the reasoning given therein in its entirety. Accordingly, we hold that appellees are the first party to constructively reduce to practice, beyond a reasonable doubt, a species of the invention involved herein, and a process for making the same, and are entitled to the award of priority as to both counts in interference. *Kyridex v. Anderson et al.*, supra.

[2] The decision of the majority of the Board of Patent Interferences is affirmed.

AFFIRMED.

<sup>1</sup> Revised in 35 U. S. C., 1952 ed., sec. 112.

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,150,175, Laucks and Davidson, Glue and method of making; 2,402,492, Galber and Golick, Cold pressure gluing without retaining clamps, filed June 3, 1955, D. C., W. D. Wash. (Seattle), Doc. 3956, *Monanto Chemical Co. v. Master Products Co. et al.*

2,192,525, Rosaire and Horvitz, Geophysical prospecting method; 2,324,085, Horvitz and Rosaire, Geochemical well logging, filed Jan. 21, 1952, D. C., S. D. Tex. (Houston), Doc. 6590, *Eame E. Rosaire v. Core Laboratories, Inc.* Stipulation of dismissal June 1, 1955.

2,232,786, H. P. Kendall, Shingle structure, filed May 31, 1955, D. C., W. D. Wash. (Seattle), Doc. 3951, *Creo-Dipt Co., Inc., et al. v. Cedar-Tex Corp.*

2,240,679, B. H. Stauffer, Muscle relaxing machine, filed May 27, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18254-T, *Bernard H. Stauffer v. Slenderella Systems of California, Inc.*

2,313,382, M. M. Kistner, Steam hand iron; 2,384,839, same, Steam-electric pressing and ironing device, filed June 6, 1955, D. C., S. D. Fla. (Tampa), Doc. 2778-T, *Merrill M. Kistner v. Webb's City, Inc., et al.*

2,324,085. (See 2,192,525.)

2,384,839. (See 2,313,382.)

2,402,492. (See 2,150,175.)

2,445,322, M. C. Fridolph, Body garment, filed June 1, 1955, D. C., S. D. N. Y., Doc. 101/58, *Sarong, Inc., et al. v. Biflex Foundations, Inc.*

2,461,975, E. D. Fuller, Method of making flattened thermoplastic tubing of predetermined desired characteristics, filed Oct. 20, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2082, *The Viking Corp. v. Durethane Corp.* Consent Judgment; complaint and counterclaim dismissed without prejudice June 1, 1955.

2,485,511, W. A. Riggs, Slip-over style of outer garments, filed Dec. 20, 1954, D. C., S. D. N. Y., Doc. 97/329, *Barney Beller Sales, Inc. v. Bretton Shirt Corp.* Consent Judgment; defendant enjoined June 6, 1955.

2,555,232, Gulce and Hickey, Method of preparing a shrimp product, filed June 1, 1955, D. C., S. D. Miss. (Jackson), Doc. 1580, *Eldon Edward Hickey v. Purity Seafoods, Inc.*

2,577,953, A. de Vries, et al., Sash balancing mechanism, filed June 8, 1955, D. C., S. D. N. Y., Doc. 101/124, *The Caldwell Mfg. Co. v. Unique Balance Co. Inc.* Same, D. C., W. D. N. Y. (Buffalo), Doc. 6622, *Unique Balance Co. Inc., et al. v. The Caldwell Mfg. Co.*

2,590,492, Bennett and Webb, Slide changing device for stereopticon projectors, filed June 3, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15603, *Bell & Howell Co. v. Viewlex Inc.*

2,597,528, F. R. Redman, Apparatus for treatment of tubular knitted fabrics; 2,597,530, same, Method of treating fabric, suit for Declaratory Judgment filed May 31, 1955, D. C., E. D. Pa. (Philadelphia), Doc. 19052, *P. H. Hanes Knitting Co. et al. v. Redman Process American Corp. et al.*

2,597,530. (See 2,597,528.)

2,628,080, R. B. Mack, Jacketed conical blender, filed June 2, 1955, D. C., S. D. N. Y., Doc. 101/79, *General Machine Co. of N. J. v. Patterson Foundry & Machine Co.*

2,642,287, H. Rubin, Convertible punching bag mount, filed June 2, 1955, D. C., S. D. N. Y., Doc. 101/78, *The B & M Sporttoy Co. v. New York Toy & Game Mfg. Corp. et al.*

2,673,016, J. Gerbe, Bag distending apparatus, filed June 8, 1955, D. C., W. D. N. Y. (Buffalo), Doc. 6623, *Tele-Sonic Packaging Corp. et al. v. Max Lowenthal & Sons.*

2,680,945, J. N. Reed, Combined mower and trimmer, filed June 7, 1955, D. C., S. D. Fla. (Miami), Doc. 6254-M, *John N. Reed v. Do-All Mfg. Co.*

2,692,700, M. H. Kowal, Bottle carrier, filed June 3, 1955, D. C., W. D. Pa. (Pittsburgh), Doc. 13476, *Coates Board & Carton Co., Inc. v. Lock-Feid Paper Box Co.*

2,694,656, M. Camras, Magnetic impulse record member, magnetic material, and method of making magnetic material, filed June 8, 1955, D. C., S. D. N. Y., Doc. 101/140, *Audio Devices, Inc. v. Minnesota Mining & Mfg. Co. et al.*

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2,702,998, J. J. Purcell, Surgical stocking, filed June 6, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c828, *Johnson & Johnson, et al. v. The Kendall Co.*

2,707,579, V. C. Vincent, Water pistol, filed June 3, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15602, *Palmer Plastics, Inc. v. Nathan Kaplan et al.*

2,710,046, Markus and Siegel, Ornamental sheet material and method of making same, filed June 9, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15628, *Aristocrat Leather Products, Inc. v. Textural Products Inc. et al.* Same, D. C., S. D. N. Y., Doc. 101/147, *Aristocrat Leather Products, Inc. v. Philip Florin, Inc., et al.*



## REISSUES

AUGUST 2, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

24,047

### EPOXIDE ESTERS CONTAINING FREE EPOXY GROUPS

Samuel B. Crecelius, Washington, D. C., assignor to Devoe & Reynolds Company, Inc., Louisville, Ky., a corporation of New York

No Drawing. Original No. 2,698,308, dated December 28, 1954, Serial No. 199,161, December 4, 1950. Application for reissue January 20, 1955, Serial No. 483,855

21 Claims. (Cl. 260—18)

1. The process of producing organic carboxylic acid esters of resinous epoxide alcohols which comprises heating to an alcoholysis temperature resinous epoxide alcohols which are polyether derivatives of dihydric phenols having alternating aliphatic groups and aromatic nuclei united through ether oxygen, including intermediate alcoholic hydroxyl-containing and terminal epoxide-containing aliphatic groups, with organic carboxylic acid esters of readily volatile monohydric alcohols under a high vacuum with volatilization and removal of the monohydric alcohol in the presence of a small amount of an alkaline alcoholysis catalyst, whereby selective esterification is effected of hydroxyl groups of the resinous epoxy alcohol to produce esters containing epoxide groups.

24,048

### HYDRAULIC APPARATUS

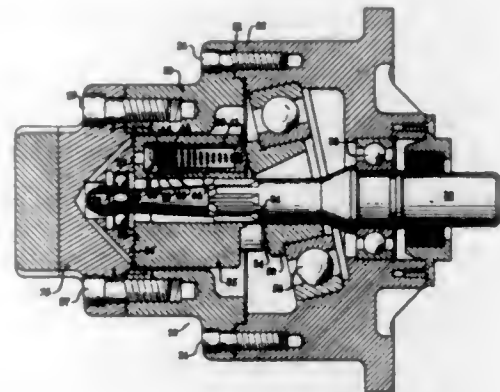
Fred J. Wright, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio

Original No. 2,480,069, dated August 23, 1949, Serial No. 491,498, June 19, 1943. Application for reissue August 22, 1950, Serial No. 180,781

9 Claims. (Cl. 103—162)

1. A fluid pressure energy translating device compris-

ing a cylinder barrel having a plurality of piston chambers with ports adjacent one end thereof; pistons disposed in said chambers, said pistons comprising cylindrical members closed at one end and open at the opposite end, said open ends facing toward the ends of the chamber provided with said ports [parts]; coil springs



having one end thereof extending into said pistons and connected therewith; bearing members comprising base elements abutting said ported-ends of said chambers, said base elements being open for the passage of fluid therearound; and means forming rotatable connections between said base elements and said springs.

## PLANT PATENTS

GRANTED AUGUST 2, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,408

### STRAWBERRY PLANT

Albin E. Lang, Platteville, Wis.

Application November 1, 1954, Serial No. 466,245

1 Claim. (Cl. 47—62)

A new and distinct variety of strawberry plant substantially as herein shown and described, characterized

by its habit of continuous bearing of blossoms and fruit from June until frost in a latitude of 42°30' North; its multiple, easily-divisible crown, each unit of which has its own independent root and foliage systems; its primary production of fruit rather than runners from transplanted crown units; and its essentially simultaneous production of roots, leaves, and flower stems from rooting runners.

## PATENTS

GRANTED AUGUST 2, 1955

### GENERAL AND MECHANICAL

#### ERRATUM

For Class 1—10 see:  
Patent No. 2,714,335

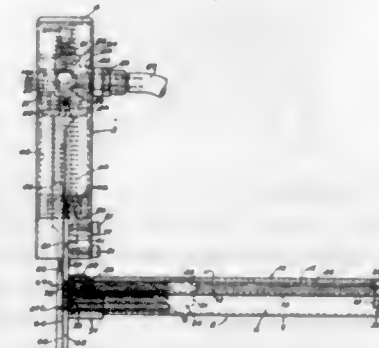
2,714,207

### FASTENER-APPLYING IMPLEMENT

Charles M. Lindstrom, Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island

Application July 10, 1952, Serial No. 298,055

14 Claims. (Cl. 1—44.4)



1. In a staple-applying device having a throat through which the staples are driven, means for temporarily retaining a staple of inverted V-shape above said throat, levers pivotally mounted on the device above the throat and at the sides of said staple, and means for operating said levers to engage and bend the legs of the staple into parallel relationship.

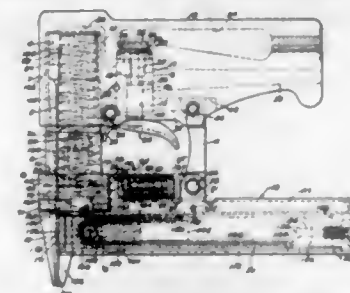
2,714,208

### STAPLING IMPLEMENT

Robert W. Jenny, Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island

Application November 20, 1953, Serial No. 393,347

18 Claims. (Cl. 1—44.4)



1. In a fastener-applying implement comprising means for driving staples into the work, a hollow magazine having an open end through which the staples may be fed to said driving means, a rest for the staples telescopically mounted in the open end of the magazine, means to support said magazine on the implement to adapt it to be moved relatively to that portion of the implement carrying the staple-driving means whereby to expose the open end of the magazine for loading the staples therein, and means for automatically projecting the staple-rest outwardly from the end of the magazine when the magazine is moved to expose its open end to provide for supporting the end of a staple-stick to guide it into the magazine.

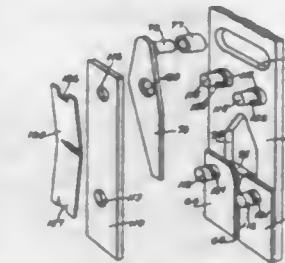
697 O. G.—2

2,714,209

CLOSURE MEANS FOR STAPLE DRIVEWAY  
Charles M. Lindstrom, Westerly, R. I., assignor to Bostitch, Inc., Stonington, Conn., a corporation of Rhode Island

Original application July 10, 1952, Serial No. 298,055. Divided and this application October 16, 1953, Serial No. 386,521

7 Claims. (Cl. 1—48)



1. In a staple-applying implement having a slot-like throat through which the staples may be driven, said throat open on its forward side, a pair of plate-like members disposed with their opposed edges overlying the edges of the slot forming the throat to substantially close its open side, and means for releasably securing said plates in fixed relationship while adapting them to be detached to expose the throat for clearing an obstruction therefrom.

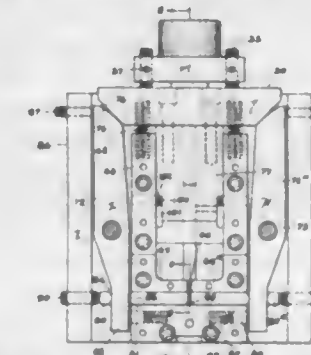
2,714,210

### COMBINATION DIE FOR CLAMPING SEPARATORS TO SLIDE FASTENER TAPES

Max H. Lange, New York, N. Y., assignor to Slidelock International, Ltd., New York, N. Y., a corporation of New York

Application May 29, 1950, Serial No. 165,070

4 Claims. (Cl. 1—177)



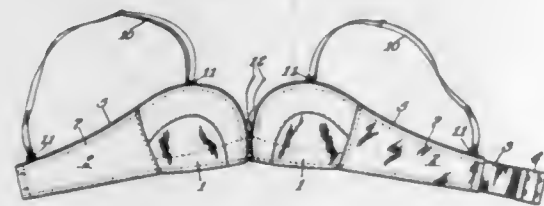
1. An apparatus for attaching individual separator ends to the corded edge of a slide fastener tape, said separator ends being furnished in strips of substantially U-shaped channel cross-section, with integral links connecting adjoining separator ends, said apparatus comprising a base consisting of a horizontal plate with a vertical member fixedly attached to the horizontal plate, a plunger slidably supported by the vertical base member, means attached to the horizontal base plate for removably supporting one end of the slide fastener tape, a pair of sliding jaws operative to clamp the legs of the separator channel over the corded edge of the fastener tape slidably supported by the horizontal base plate, a pair of levers pivotally supported by the vertical base member operative to actuate the sliding jaws, means controlled by the sliding plunger operative to move said pivoted levers into the separator end clamping position, spring-actuated means operative to restore the pivoted levers and the



sliding jaws to their free position when the pressure on the sliding plunger is released, a feed slide slidably mounted on the horizontal base plate operative to progressively feed the channel strips toward the sliding jaws, the movement of the sliding plunger in one direction being operative to simultaneously move the feed slide in a direction opposite the vertical base member, the sliding jaws being operative to grip the channel strip while the feed slide is moved away from the vertical base member, a pair of coiled compression springs operative to move the feed slide toward the sliding jaws when the pressure on the sliding plunger is released, means controlled by said sliding plunger operative to shear the link connecting adjoining separator ends, pressure means operative to move said sliding plunger during its feed slide actuating stroke, and a plurality of coiled compression springs operative to independently restore the sliding plunger to its initial position when the pressure thereon is released.

#### 2,714,211 BRASSIERE

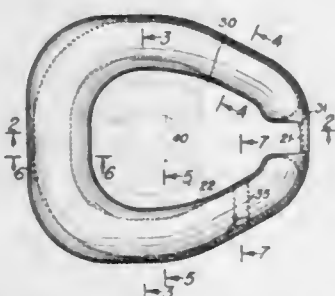
Gertrude Davis, London, England, assignor to Daintifyt Brassiere Company Limited, London, England  
Application October 14, 1952, Serial No. 314,707  
Claims priority, application Great Britain  
October 26, 1951  
3 Claims. (Cl. 2—42)



1. A brassiere comprising two bust-supporting cup members secured together in laterally-adjacent relation, a half-belt section integrally secured to each cup member, said half-belt sections extending in opposite directions from the cup members to which they are secured whereby their free ends are adapted to be positioned at the back of the wearer when the brassiere is worn, means for detachably connecting the free ends of the half belt sections at the back of the wearer, edging material extending along the upper edge of the cup members, a shoulder strap attached to and extending between each cup member and its respective half-belt section, and detachable means between the shoulder straps and the cup members comprising fastening means provided upon the ends of the shoulder straps interengageable with companion fastening means located at laterally-spaced intervals lengthwise along the edging material at the top of the cup members.

#### 2,714,212 SITZ BATH

Flossie O. Reed, Dansville, N. Y.  
Application December 24, 1952, Serial No. 327,710  
4 Claims. (Cl. 4—6)



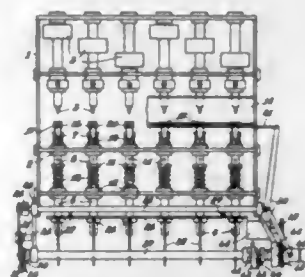
2. A portable sitz bath comprising a rigid base member, an upstanding member secured at the front of said base member, a rigid, generally horseshoe-shaped tubular member secured on top of said base member and having its front ends spaced apart and terminating adja-

cent to said upstanding member and connected to both lateral edges to said tubular member and forming with said upstanding member a central well, said tubular member being padded at least on its top and on its inside, the padding on the inside extending along a smooth curve from top to bottom down approximately to the juncture of said tubular member with said base member, and the padding being recessed on its inside adjacent said base member around the major portion of the well.

#### 2,714,213

#### PLURAL WORK HOLDERS RETRACTABLE ONLY UPON FULLY ADVANCED POSITION OF EACH WORK HOLDER

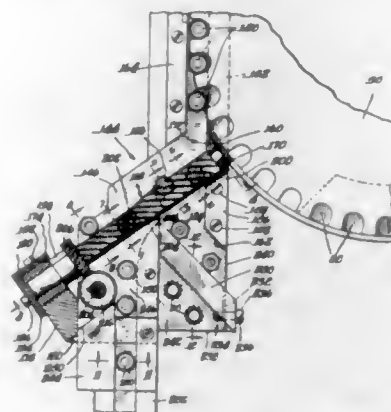
Josef Holzer, Oberharmersbach/Schwarzwald, Germany  
Application April 23, 1953, Serial No. 350,545  
12 Claims. (Cl. 10—130)



1. A nut threading machine comprising a plurality of threading tools, means for rotatably mounting said tools in a fixed position in axial direction thereof, means for rotating said tools, a plurality of spindles, a nut holder on each of said spindles having an aperture adapted to receive a nut blank and secure the same against rotary movement, means for non-rotatably mounting said spindles, means for advancing said spindles and nut holders individually toward said threading tools in axial direction thereof for threading said nuts, means for retracting all of said spindles and nut holders, and individual tracing means responsive to the fully advanced position of each of said nut holders for automatically actuating said retracting means for retracting all of said spindles simultaneously when all of said spindles and nut holders have arrived in their individual fully advanced positions and all of said nuts have been fully threaded.

#### 2,714,214

NUT AND WASHER ASSEMBLY SELECTOR  
William Stern, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application March 18, 1952, Serial No. 277,110  
12 Claims. (Cl. 10—155)

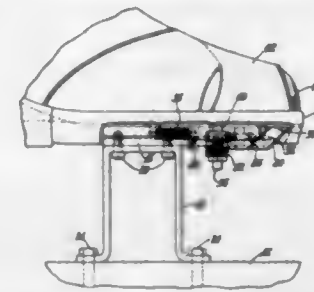


1. Mechanism for separating perfect assemblies of nut elements and washers from improperly assembled and loose nut elements and washers comprising supporting means adapted to transport nut element and washer assemblies and loose nut elements and washers, stepped-means arranged obliquely of the path of transport and having sections spaced different distances from said supporting

means to separate assemblies from loose nut elements and washers, and deflecting means positioned beyond the part of said stepped means spaced most closely to said supporting means farther along the path of transport and spaced a predetermined distance different from the spaced distances of said stepped means from said supporting means for passing loose washers and being disposed obliquely of said path of transport for deflecting loose nut elements to separate the loose washers and the loose nut elements.

#### 2,714,215

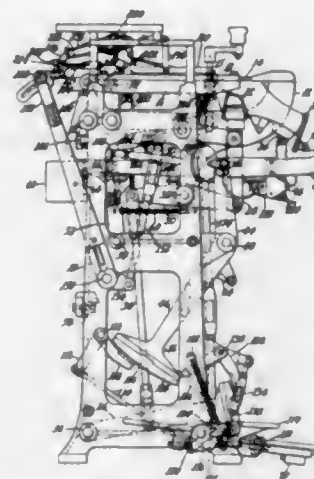
MEANS FOR SLITTING PLATFORM WRAPPERS  
Napoleon S. Ferland, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application February 5, 1953, Serial No. 335,201  
7 Claims. (Cl. 12—1)



2. The combination comprising a stationary cutting blade, a generally sole shaped shoe carrier constructed and arranged to support the forepart of a shoe in upright position, and a fixture in which the cutting blade is rigidly mounted and on which the carrier is slidably mounted for movement relative to the cutting blade.

#### 2,714,216

LASTING MACHINES  
René E. Duplessis, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
Application February 13, 1953, Serial No. 336,706  
10 Claims. (Cl. 12—12.4)



3. In a lasting machine having a holddown engageable with the bottom of a shoe on a last and a toe gage engageable with the toe to determine the position of the shoe heightwise and lengthwise, a toe rest and a heel rest respectively cooperative with said holddown and toe gage to hold the shoe against movement from its operating position, a rest arranged and adapted to be moved into engagement with the heel cone of the last to support it in the position it has assumed, and treadle-controlled means for successively moving the heel rest, the toe rest and the cone rest into their respective operating positions.

#### 2,714,217

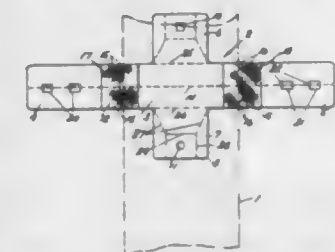
SHOE STRETCHING, SHOE LENGTHENING AND VAMP RAISING APPARATUS  
Frank M. Dore, Boston, Mass.  
Application April 15, 1953, Serial No. 348,971  
8 Claims. (Cl. 12—128.3)



1. A shoe stretching and lengthening apparatus comprising first and second generally similar forepart sections which together provide a forepart, a single pivot element connecting said forepart sections together at the rear end portions thereof whereby said forepart sections may be moved relatively toward and from each other about the axis of said pivot element, guide means extending longitudinally along the adjacent surfaces of said forepart sections and having opposed cam surfaces at a forward portion of said sections, a cam element mounted for sliding movements along said guide means and adapted to engage said cam surfaces and effect spreading apart of said sections when moved forward between said cam surfaces, an actuating rod rotatably connected at its forward end to said cam element and extending a substantial distance rearwardly beyond said pivot element of the forepart sections, said rod being threaded along a substantial portion of its length, a single heel section entirely rearward of said pivot element and mounted on said rearwardly extending portion of said rod and threadedly engaged therewith, a resilient element connected at one of its ends to said first forepart section and extending rearward around a portion of said heel section and thence forwardly and having its other end connected to said second forepart section, said resilient element being constantly under tension strongly biasing the rear heel section toward engagement with the rear end portions of said forepart sections and also tending to maintain tightness between the threads of said rod and the threads of said rear heel section, and a handle at the rear end of said actuating rod facilitating rotation of said rod thereby to effect positive relative movements of said rear heel section in directions toward and from said forepart sections.

#### 2,714,218

MOP HEAD  
Frank K. Nomlya, Los Angeles, Calif.  
Application January 3, 1950, Serial No. 136,451  
3 Claims. (Cl. 15—229)



1. A mop head comprising an elongated body of moisture absorbent material arranged to provide a band of such material having flattened opposite sides terminating in side edges extending longitudinally of the band, an elongated clamping strip of relatively rigid sheet metal extending transversely of said band midway between its ends and bent on itself at said side edges to extend across opposite sides of said body and to enclose said body, relatively soft cushioning material surrounding said strip at its bends at said side edges and extending a distance along said strip at opposite sides of said body adjacent to said bends, projections on said strip extending oppositely outwardly thereof at a point centrally between said side edges.



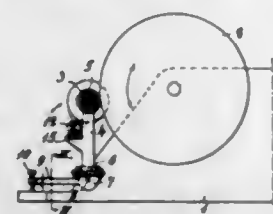
edges, said strip and said body being folded on themselves along a line extending longitudinally of said strip midway between its longitudinally extending edges and said projections being bent to opposed relation extending past the last mentioned line for securement against opposite sides of one end of a mop handle.

2,714,219

# DOCTOR MEANS FOR DRYING CYLINDERS AND CALENDER ROLLS IN PAPER MAKING MACHINES

Helle Cesar Qvarnström, Stockholm, Sweden, assignor to Aktiebolaget Kafab, Stockholm, Sweden, a company of Sweden

Application September 20, 1951, Serial No. 247,417  
8 Claims. (Cl. 15—256.5)



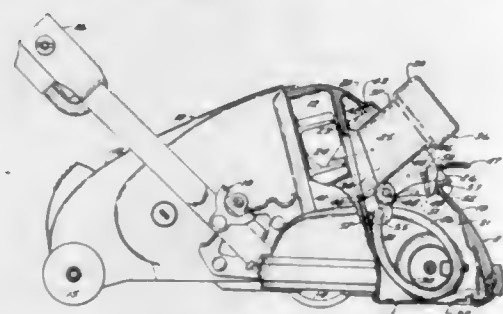
1. A doctor arrangement for cleaning the drying and calendering rolls of a paper machine which comprises in combination, a rotatable roller the axis of which is parallel to that of the calender roll to be cleaned, means for pressing said roller against the periphery of said calender roll, means for rotating said roller with a peripheral speed independent of that of said calender roll, and means for imparting an axially reciprocating movement to said roller in dependence on the rotational movement thereof, said roller comprising a plurality of spaced parallel felt discs peripherally separated and providing an annular, ribbed, resilient, self-cleaning surface adapted to exercise a cleaning and polishing action on the calender roll surface when rotated and reciprocated.

2,714,220

# COMBINED CONVERTER AND DRIVE DISENGAGING MEANS FOR SUCTION CLEANERS

Nelson C. Cuddeback, Chicago Heights, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application September 28, 1949, Serial No. 118,329  
15 Claims. (Cl. 15—332)



1. In combination with a suction cleaner of the type having suction creating means, a port communicating with said suction creating means, movably mounted surface agitating means, drive means, and a belt between said surface agitating means and drive means and detachably connected with the latter; of a converter comprising tubular means having means adapted to be arranged in air conducting relation with said port when said belt is disconnected from said drive means, belt supporting means on said tubular means for holding said disconnected belt out of the path of movement of said converter when the latter is bodily displaced for said arrangement with respect to said cleaner port, and means on the suction cleaner cooperating with said belt supporting means to prevent removal of said belt from said belt supporting means.

2,714,221

# FISH FILLETING MACHINE

Alex Gradoff, San Francisco, Kenneth W. Howell, San Mateo, and Ivan Vinoff, San Francisco, Calif.

Application June 2, 1952, Serial No. 291,202  
15 Claims. (Cl. 17—4)



1. In a fish filleting machine generally parallel spaced superimposed conveyors, pair of substantially flat blades between said parallel conveyors, each blade being substantially parallel to said conveyors and generally V-shaped the apex thereof forming a point on each blade facing in the direction from which the fish is carried between said conveyors, each of said blades having cutting edges diverging from said points to a width wider than the width of the average fish passing through said machine, and means to support the wider portions of said blades generally fixedly with respect to said conveying means.

2,714,222

# FEATHER PLUCKING DEVICE

Scott W. McKendree, Klamath Falls, Oreg., assignor to McKendree Products Co., Klamath Falls, Oreg., a corporation of Oregon

Application April 5, 1954, Serial No. 421,106  
6 Claims. (Cl. 17—11.1)



1. A feather plucking device, comprising a molded rubbery drum member of cylindrical form having integral laterally and peripherally spaced projections extending radially out from the peripheral surface thereof, said drum member and radial projections being elastic to a degree that said projections will flex and lie flatwise with their sides bearing upon the peripheral surface of said member, said projections being arranged in circumferential rows about said periphery, with the projections in alternate rows aligned with each other and with the projections in intermediate rows lying medially thereof, said projections being of outwardly converging formation to define means for penetrating a mass of feathers and reaching to the skin of the fowl, said cylindrical drum member having transverse apertures formed therethrough, said apertures being spaced circumferentially of said cylindrical body in a circular course on intervals corresponding to the spacing of said projections in alternate ones of said circumferential rows upon the periphery of said body, and said apertures being aligned radially with the space between alternate rows of said circumferential projections about the periphery of the drum member.

2,714,223

# POULTRY SUPPORTING AND PICKING METHOD

Irvin R. Lentz and Delos B. Van Dolah, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois

Original application May 5, 1951, Serial No. 224,800, now Patent No. 2,667,660, dated February 2, 1954. Divided and this application May 28, 1953, Serial No. 358,088

2 Claims. (Cl. 17—45)

1. The method of supporting and picking birds such

as poultry with a mechanical picker producing a picking action which method includes supporting the head of the birds and supporting the legs of the birds at a substantially lower elevation and spaced laterally from the



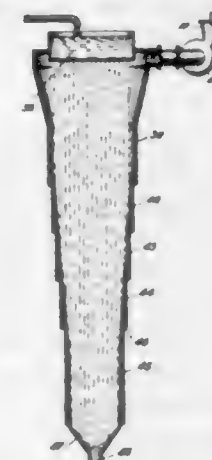
bodies of the birds and positioning the backs of the birds substantially vertical, and applying the picking action to the backs of the birds so supported.

2,714,224

# APPARATUS FOR GRANULATING CHEMICAL SUBSTANCES

Franz Schaub, Oberhausen-Holten, Germany, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a corporation of Germany

Application August 22, 1951, Serial No. 243,091  
Claims priority, application Germany September 23, 1950  
12 Claims. (Cl. 18—2.7)



1. Apparatus for the granulation of chemical substances from their melt, which comprises a substantially vertical, elongated granulation tower, at least one substantially vertical annular gas inlet slot defined in the lower portion of said tower extending substantially parallel to and adjacent the inner surface of the tower wall, gas-propelling means positioned for passing a stream of gas upward through said gas-inlet slot and said tower, whereby the gas has the greatest velocity along the inner surface of the tower wall, molten liquid dispensing means positioned at the top of said tower for releasing drops of molten liquid into said tower, and a granular material outlet at the bottom of said tower.

2,714,225

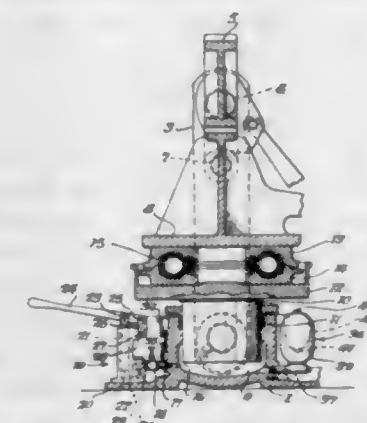
# MOLDING PRESS

Thomas F. Stacy, Piqua, and Elmer John von der Heide, Hudson, Ohio, assignors to The French Oil Mill Machinery Company, Piqua, Ohio

Application June 15, 1950, Serial No. 168,178  
1 Claim. (Cl. 18—17)

A molding press of the mechanically closing type, comprising a pair of superposed, separable, complementary mold sections, mechanical means supporting the upper mold section, and forcibly and positively lowering it into closed position and then lifting it to open position, a platen supporting the lower mold section for vertical movement therewith, a piston depending from

said platen, a cylinder having a pressure chamber with an open upper end into which said piston descends and in which it has a sealed sliding fit, said chamber being closed by said piston, said piston being free to move upwardly and downwardly beyond closed mold position under the force of liquid in said chamber, a liquid substantially filling said chamber below said piston, means for adding liquid to that in said chamber in an amount just sufficient to elevate the piston, while the upper mold section is in open position, to a desired position just above its closed mold position but spaced below the lifted, upper mold section, with the weight of the piston, platen and



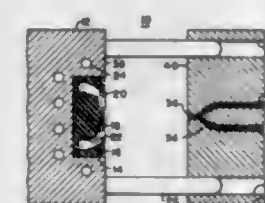
lower mold section approximately balancing the pressure on the confined liquid in said cylinder chamber, an accumulator having a closed cavity connected to said cylinder chamber with a valve seat in its connection to said chamber, a shiftable partition in said cavity with a valve element movable against said seat after a selected movement of said partition toward said seat, and a measured amount of gas on the opposite side of said partition from said seat, which is compressed by pressure of said liquid on said partition and which urges said liquid from said cavity into said cylinder until said valve element engages with said seat.

2,714,226

# APPARATUS FOR MOLDING PLASTIC MATERIALS

Irving R. Axelrad, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 11, 1949, Serial No. 120,660  
2 Claims. (Cl. 18—30)



1. In an injection molding apparatus, a relatively rigid metal base having a face and a recess extending into the base from the face, a mold of an elastomeric material fitting into said recess, cooling means associated with the base, a head having a face matching the face on the base, means for moving the base and the head with respect to one another to bring the faces into matching contact and completely enclose the recess and the mold therein, the head having an opening in the face thereof disposed to open to the mold cavity, a heated plastic injection unit associated with the head to inject heated plastic material through said opening into the mold cavity, whereby when the head and base are in matching contact heated plastic material can be injected into the mold cavity under pressure and the elastomeric mold will withstand the pressures without significant distortion by reason of its complete confinement.



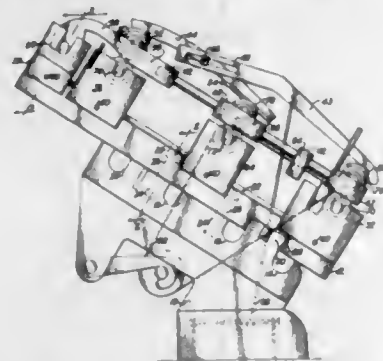
2,714,227

**METHOD OF MAKING FRITTED GLASS TUBES**  
 Paul N. W. Graham and Ellsworth G. Lamb, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York  
 No Drawing. Application September 11, 1950, Serial No. 184,351  
 4 Claims. (Cl. 18—59.2)

1. The method of making a porous glass tube, which comprises introducing a slip of a powdered glass having a substantially uniform grain size into an impervious tubular glass mold having a deformation temperature not less than the softening point of the powdered glass and having on its inner surface a coating of a powdered refractory material which differs from and will not flux the powdered glass at the sintering temperature of the glass, rotating the mold about its longitudinal axis to deposit the powdered glass by centrifugal force in layer form on its inner surface and to remove sufficient liquid from the slip by decantation or overflow from an end of the mold to enable the powdered glass layer to retain its shape, drying the powdered glass layer in place in the mold, and firing the dried powdered glass layer in a furnace while in the mold to sinter the powdered glass without complete fusion to form a coherent porous tube having intercommunicating pores and conforming to the shape of the mold but separable therefrom.

2,714,228

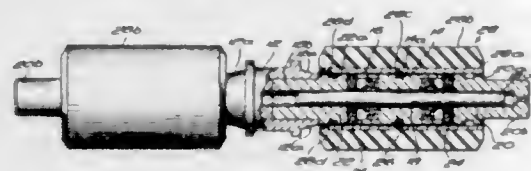
**MODIFIED ROLL STAND**  
 Walter Lexie Davis, Danville, Va.  
 Application June 5, 1953, Serial No. 359,753  
 3 Claims. (Cl. 19—134)



1. A drawing roll stand provided with a plurality of unvarying drawing roll bearing positions, a straight shaped bar of substantially uniform cross section throughout its length positioned along the top of said stand and over said unvarying bearing positions and extending rearwardly thereof for a substantial distance, bearing blocks for each set of drawing rolls slidably mounted on said bar, and means for fixing each of said bearing blocks at a predetermined position along the length of said bar whereby long staple fibers and short staple fibers may be drawn on the same equipment by proper selection of the bearing block positions or by removing said bar.

2,714,229

**ANTI-FRICTION TOP ROLL**  
 Robert Rulon-Miller, Bristol, R. I., assignor to Dixon Lubricating Saddle Co., a corporation of Rhode Island  
 Application July 19, 1952, Serial No. 299,815  
 3 Claims. (Cl. 19—142)



3. An anti-friction top roll for a textile drawing machine comprising a pair of axially aligned rotatable shafts, an arbor connecting said shafts for rotation together, a

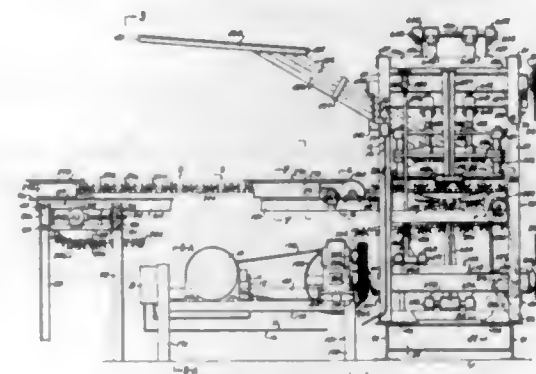
bearing mounted on each shaft for rotation relative thereto, a shell mounted on each bearing for rotation therewith and for axial movement relative to said bearing, cots on said shells, and clutch elements carried by said arbor and said shells engageable with each other upon relative axial movement of said shells towards said arbor for connecting said shells and said shafts for rotation together.

2,714,230

**APPARATUS FOR PACKAGING FIBROUS ARTICLES**

William D. Young, Greenville, S. C., assignor of forty per cent to Dorothy R. Young, twenty per cent to Betty Young Shorey, twenty per cent to Jean Young Martin, and twenty per cent to Nancy Lou Young, all of Greenville, S. C.

Application June 5, 1948, Serial No. 31,353  
 121 Claims. (Cl. 19—144.5)



58. Apparatus for folding a fibrous article upon itself and compressing the same and packaging the same under compression comprising a forming die above which the article is placed, means for moving the article laterally into the forming die to fold the same upon itself, means movable along each side of the folding means for compressing the article into the bottom of the forming die, a movable member having a bore therein disposed in alignment with the article while under compression in the forming die, means for placing a tubular container within the bore and holding one end thereof in closed position and means for ejecting the compressed article from the forming die and forcing it into the container and compressing it longitudinally to a longitudinal length less than the length of the container.

2,714,231

**BUILDING STRUCTURES**

Bernard Brunton, London, England  
 Application April 2, 1951, Serial No. 218,768  
 Claims priority, application Great Britain October 4, 1950  
 1 Claim. (Cl. 20—2)

A unit type building structure comprising a plurality of prefabricated unitary type wall panels in said structure supported in said structure generally in aligned relation in a vertical plane to form a wall of said structure, each of said panels having a pair of opposed faces defined by frame elements extending generally in said plane and peripherally about a space, and facing sheets attached to said opposed faces of said frame elements parallel to said plane and spanning between oppositely disposed elements to close said space at opposite faces of said frame; each of said frame elements including grooves of substantially uniform cross-section in the external surfaces on the respective peripheral sides of said panel, said frame element which extends along the bottom peripheral side of said panel being formed to provide a recess in one of said opposed faces thereof parallel to said plane and extending along the length of said bottom element, the facing sheet attached to

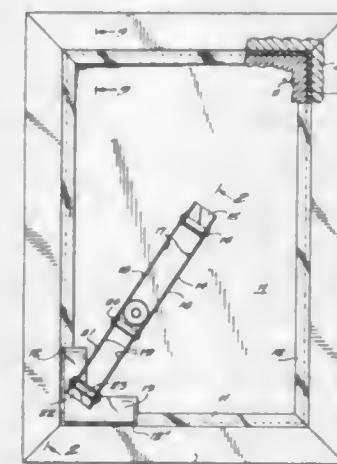
said face of said bottom element extending over said recess; a continuous supporting member disposed in said structure below said panels and having a tongue projecting upwardly therefrom along and engaging the grooves of the bottom sides of the plurality of said panels for supporting said panels along said bottom sides thereof in said aligned relation in said plane; a flashing sheet extending upwardly into said recess behind the last mentioned facing sheet and extending downwardly over said supporting member; said supporting member being pro-



vided with a channel extending therealong behind said flashing sheet and adapted to receive a water-proofing material; a continuous capping member disposed in said structure above said panels and having a tongue projecting downwardly therefrom along and engaging the grooves of the top sides of said plurality of panels for holding said top sides of said panels in alignment in said plane, a plurality of roofing trusses supported by said capping member so as to transmit the roof weight uniformly over the wall panels; and means engaging said supporting and capping members and said panels for fastening said panels in said plane in said structure.

2,714,232

**CLOSURES FOR APERTURES**  
 Nicholas Straussler, Piccadilly, London, England  
 Application April 23, 1952, Serial No. 283,905  
 5 Claims. (Cl. 20—40)



1. In a self-contained closure for apertures, the combination with a portable sheet member or the like approximating but being somewhat smaller in size than that of the aperture for which it is intended and being normally disassociated from the aperture, of a linkage-operated mobile element associated with and located at at least one corner of said sheet member and being operative in respect to and beyond said sheet member for forcibly holding the latter within the aperture when placed into the latter.

2,714,233

**AWNING STRUCTURES OF RIGID SHEET MATERIAL**

Joseph De Martin, Brooklyn, N. Y.  
 Application June 16, 1951, Serial No. 231,979  
 2 Claims. (Cl. 20—57.5)

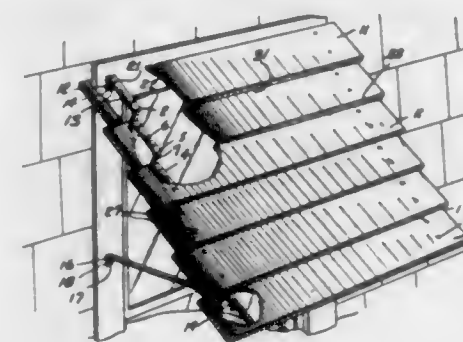


1. In an awning structure embodying a surface section composed of a series of elongated strips comprising alternate cap strips and trough strips having on each edge an integral downwardly-turned edge flange, the edge flanges of alternate strips being of lesser depth than the flanges of strips on opposite sides thereof, the flanges of alternate strips being provided with outwardly and upwardly-bent edge portions forming upwardly-opening flange-receiving grooves, and the flanges of the strips on opposite sides thereof being provided with straight edges extending in assembled condition to the bottom of said grooves and engaging opposite surfaces thereof, said flanged strips being formed to enable initial assembly in aligned, parallel, abutting and connected relationship to produce a cap and trough awning surface composed of strips having flanges formed into a series of interengaging longitudinally-extending joints comprising stiffening members, each formed of three plys of metal in abutting contact, and means for fastening said interengaged abutting flanges to each other.

2,714,234

**AWNING**

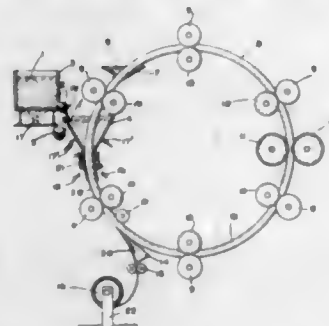
Ivan W. Dum, Kansas City, Mo.  
 Application January 4, 1954, Serial No. 401,827  
 2 Claims. (Cl. 20—57.5)



1. In an awning a frame including laterally spaced metal rafter members each having alternating right angular bends forming downwardly sloping louver attaching portions and shorter vertical spacing portions between the louver attaching portions and said louver attaching portions having openings therethrough, upper ends of said rafter members having depending slotted ears with the slots extending through edges of the ears, brace members having apertured ends at outer ends of the rafter members with the apertures being adapted to register with one of said openings in the louver attaching portions of the rafter members and opposite ends of said brace members having depending slotted ears corresponding with the slotted ears of the rafter members, fastening devices extending through registering apertures and openings for connecting the braces with the rafter members, and fastening devices for securing said frame and having headed shanks, said ears being applied to the last named fastening devices with the slots thereof passing over the shanks and under the heads thereof.

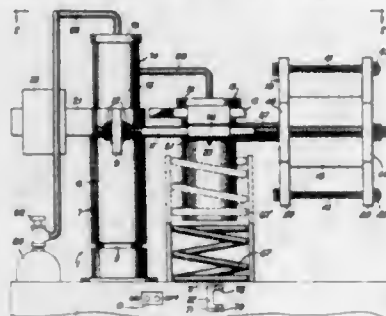


**2,714,235**  
**METHOD AND APPARATUS FOR CASTING STRIP METAL**  
 Joseph B. Brennan, Cleveland, Ohio  
 Application February 18, 1950, Serial No. 147,466  
 3 Claims. (Cl. 22—57.4)



1. Continuous metal strip casting apparatus comprising a heat resistant, self-supporting, and endless core of uniform cross-section, a container for molten metal surrounding a portion of said core, a die including an open ended passage of uniform cross-section surrounding an adjacent portion of said core in spaced relation thereabout and in communicative relationship with said container, means for moving said core through said container and said die passage for coating said core with a continuous tubular layer of molten metal of thickness in accordance with the space between said core and said die passage, means for cooling the wall of said die passage and thus the shaped layer of metal on said core, and means for longitudinally severing and stripping said coating from said core to produce a metal strip.

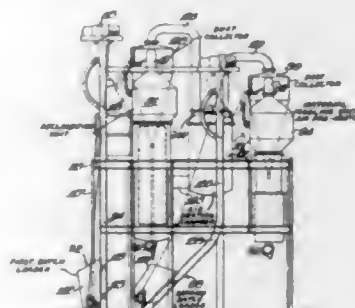
**2,714,236**  
**APPARATUS FOR CENTRIFUGALLY CASTING TITANIUM**  
 Orien W. Simmons, Beaver, Pa., assignor to the United States of America as represented by the Secretary of the Army  
 Application March 3, 1954, Serial No. 413,978  
 1 Claim. (Cl. 22—65)  
 (Granted under Title 35, U. S. Code (1952), sec. 266)



In apparatus for centrifugally casting titanium and titanium alloys under an inert atmosphere comprising: a rotatable column constituting an axis of rotation; a T-shaped yoke sleeved upon the column in rigid relation therewith, having three radially extending members spaced in 90° relation with respect to one another; a counterweight adjustably carried on the central yoke member; means for locking said counterweight in a selected position; a pair of spaced parallel bars fixedly supported at one end at their adjacent extremities one in each of the lateral radially extending yoke members; a crucible adjustably positioned proximate to said column; an apertured closure for said crucible; means for suspending the crucible between said bars and in rigid relation therewith at a selected distance from said column; an open-ended heating coil below and concentric with said crucible; means for placing said heating coil in operative relation with said crucible when the latter is stationary; a vented split mold positioned remotely of the said column between the said bars; means for clamping and supporting the said mold adjustably with respect to said crucible; a conductor for linking the cavities of

said crucible and said mold; a cylindrical housing having an open end and an apertured wall, positioned upon said rotatable column; means for securing said housing to said column for rotation therewith; an apertured stationary closure member in sealing engagement within the open end of the said rotatable housing and in frictional relation therewith; a source of inert gas; a conductor between said source and said stationary closure member for conducting the gas through the stationary closure member and into said rotatable housing; and a conductor between the housing and said crucible closure for conducting the gas into the crucible.

**2,714,237**  
**APPARATUS FOR RECLAIMING GRANULAR MATERIAL**  
 Walter Horth, Wilmette, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois  
 Application February 1, 1950, Serial No. 141,741  
 1 Claim. (Cl. 22—89)

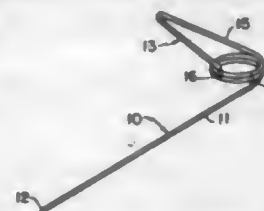


Apparatus for reclaiming granular material, comprising a processing tower having an inlet opening into said tower adjacent the top thereof for delivering a quantity of material to said tower, a gas discharge pipe extending generally vertically in said processing tower and having an open end adjacent the lower end of said processing tower, said discharge pipe having alternate inwardly and outwardly sloping wall portions, the external surfaces of said wall portions defining segmental conical baffle surfaces along the length of said discharge pipe, a gas inlet pipe extending into said processing tower and connecting with said discharge pipe for delivery of gas to said processing tower through the lower open end of said discharge pipe, a material cooler disposed in the vicinity of said tower, means for delivering material from the lower end of said tower to the upper end of said cooler, a furnace adjacent said tower and connected with said gas inlet pipe for delivering heated gas to said tower, a first conduit connected at one end with the upper portion of said cooler and at the other end with said furnace, a second conduit opening into said cooler, and blower means connected with said second conduit for forcing gas through said second conduit into said cooler and through said first conduit to said furnace for delivering gas to said tower through said discharge pipe, said processing tower having cooperating baffle means alternating with the discharge pipe baffle surfaces to define a zigzag passage through said processing tower for gas discharge from said discharge pipe at the lower end thereof.

**2,714,238**  
**STRAIGHT PINS**  
 Harold H. Sappey, Kew Gardens, N. Y.  
 Application January 5, 1954, Serial No. 402,202  
 1 Claim. (Cl. 24—150)

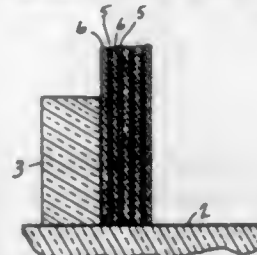
A straight pin formed from resilient wire and consisting of a shank having its front end pointed and its back end proceeding directly and continuously into a plural convolution helix, and the helix continuing into a transversely extended loop having one side as a continuation

from the helix and having its other side as a continuing return side to the helix to serve as a handle, the terminal of said return side being bent down to extend into



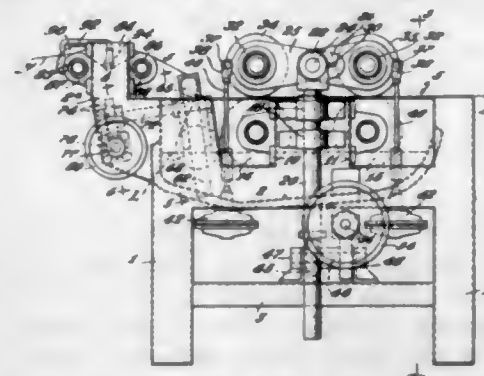
the helix and being pressed against the inner surface of one or more helix convolutions by the inherent resiliency of the handle loop.

**2,714,239**  
**METHOD OF FIRING CERAMIC PLATES**  
 Byron B. Minnium, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania  
 Application December 9, 1952, Serial No. 324,935  
 2 Claims. (Cl. 25—157)



1. The method of producing thin flat vitrified ceramic dielectric plates having a thickness of a small fraction of an inch and a length and width much greater than the thickness so as to be unstable when edge supported and being of material which shrinks upon firing and in which unfired pieces contacting each other during firing stick together, which comprises arranging the unfired plates in stacks with a fired ceramic spacer plate between each of adjacent unfired plates and with the unfired and spacer plates in face to face engagement and the unfired plates out of face to face engagement, loading the stacks on a sagger having a trough receiving the stacks with the bottom edges of the unfired and spacer plates resting on the trough and supporting the plates edgewise, the sides of the trough in conjunction with the fired spacers forming pockets for the intervening unfired plates which pockets remain in place during firing both laterally and longitudinally of the stacks although the intervening unfired plates during firing shrink both laterally and longitudinally, and firing the loaded sagger in a kiln to the temperature at which the unfired plates become vitrified and would stick together unless kept out of contact with each other by the intervening spacers.

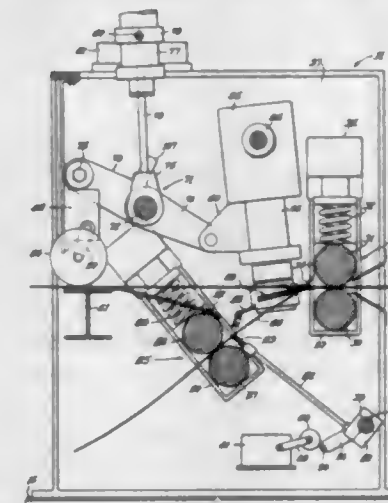
**2,714,240**  
**SLASHER**  
 Lewis A. Prescott, Jr., Pawtucket, and Waldo W. Smith, Warwick Neck, R. I., assignors to Tower Iron Works, Providence, R. I., a partnership  
 Application February 9, 1953, Serial No. 335,828  
 3 Claims. (Cl. 28—28)



1. A slasher comprising a size box having tensioning means adjacent to its front end, guide means slidably

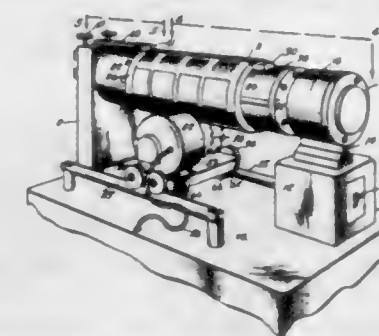
supporting a substantially vertically positioned rod at each opposite side of said box rearwardly of said tensioning means, a pair of brackets each having a substantially horizontal arm rigidly connected to the upper end of one of the rods and extending inwardly above the upper edge of the adjacent side wall and each bracket having a substantially vertically extending leg projecting downwardly along the inside face of said side wall, an immersion roll rotatably supported by the lower ends of the legs of the brackets, a reverse roll rotatably supported by the upper ends of said legs, the rear surface of said reverse roll being rearwardly of the front surface of said immersion roll so that said reverse roll receives yarns from said tensioning means and presents them directly to the upper surface of said immersion roll above the level of a size slurry within said size box, and means for simultaneously adjusting the vertical position of the rods so that said brackets, immersion roll and reverse roll may be lifted as a unit into and out of the size slurry.

**2,714,241**  
**SHEET PACK OPENER MECHANISM**  
 Oscar J. Simler, Sebring, and Ralph C. Saunier, Canton, Ohio, assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois  
 Application January 20, 1951, Serial No. 206,958  
 12 Claims. (Cl. 29—17)



1. In a sheet pack opener, the combination of means for advancing a pack of sheets substantially along a horizontal plane, means for engaging the lowermost sheet in said pack and effective upon the advance of the pack for directing said lowermost sheet downwardly, a knife, and means for moving said knife into a position to further separate said lowermost sheet from said pack upon the subsequent advance of said pack by said advancing means.

**2,714,242**  
**PRINTING PLATE TRIMMER**  
 Lee F. Coven, Bratenahl, Ohio, assignor to The Cleveland Shopping News Co., Cleveland, Ohio, a corporation of Ohio  
 Application May 4, 1950, Serial No. 159,905  
 3 Claims. (Cl. 29—70)



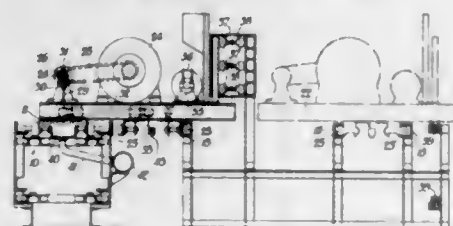
1. In a machine for trimming the slot of a tubular printing plate, the combination of a frame providing up-



right standards with a pair of bearings, a supporting barrel mounted in said bearings and adapted to carry the plate to be trimmed, means for guiding the plate slot into predetermined position on the barrel, a cone on the barrel to provide a stop for one end of the plate, a movable clamp on the barrel adapted to force the plate towards the cone and clamp the other end of the plate, trimming means supported in predetermined relation to said guide means for movement longitudinally of the plate to trim the slot therein, and micrometer means for turning the barrel on its axis slightly in either direction to position the slot in the plate with reference to the trimming means.

#### 2,714,243 METHODS OF AND MEANS FOR RUNNING-IN ENGINES

Robert John Brooks, Hitchin, England, assignor to Geo. W. King Limited, Hitchin, England, a British company  
Application November 21, 1951, Serial No. 257,599  
Claims priority, application Great Britain  
November 24, 1950  
1 Claim. (Cl. 29—89.5)



In apparatus for running in dry engines while the latter are carried by a conveyor along a predetermined path with the sumps thereof open and including a mobile carriage moving along a track parallel to a section of the conveyor path and having motive means thereon for connection to a conveyed engine to run in the latter; the combination of a driven oil pump on the carriage for movement with the conveyed engine, means for connecting the outlet of said pump to a conveyed engine, a trough extending along the conveyor path to collect oil drained from the open sump of the conveyed engine, means conducting oil from said trough to the inlet of said pump, and oil filtering and cleaning means interposed in said oil conducting means so that said pump continuously circulates oil into, through and out of the conveyed engine during running in of the latter.

#### 2,714,244 METHOD FOR THE PRODUCTION OF SPRAY TUBE ORIFICES FOR IRRIGATING DEVICES

Arthur P. Shepard, New York, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey  
Original application October 11, 1951, Serial No. 250,864.  
Divided and this application November 14, 1952, Serial No. 320,573

4 Claims. (Cl. 29—157)



1. Method of producing in stock of ductile material at least one nozzle orifice of substantially predetermined diameter and having oppositely paired projections adjacent thereto, which comprises punch-cutting a slot with a wedge-shaped chisel into and through said stock, at an angle of slot direction to the tube axis of about 45-90°, of a length about approximating said diameter and thereafter punch-expanding said slot into substantially cylindrical shape corresponding to said diameter.

#### 2,714,245 SINTERED TITANIUM CARBIDE ALLOY TURBINE BLADE

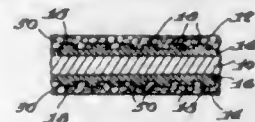
Claus G. Goetzel, Yonkers, N. Y., assignor to Sintercast Corporation of America, Yonkers, N. Y., a corporation of New York  
Application December 7, 1951, Serial No. 260,504  
5 Claims. (Cl. 29—182.8)



1. A composite material shaped blade for turbines in jet engines and the like having a leading edge, a thin trailing edge, and attachment means, said blade being the product of a porous skeleton body of sintered titanium carbide particles, said titanium carbide being present in the skeleton body in amounts ranging from about 50% to about 70% by volume of the skeleton body, substantially the balance of said skeleton body comprising an intercommunicating pore system therethrough containing a ductile heat and corrosion resistant infiltrant metal alloy selected from the group consisting of high temperature cobalt-base, nickel-base and iron-base alloys in amounts ranging from about 50% to about 30% by volume of said skeleton body, said blade having a continuous protective curved surface layer of said infiltrant metal of a thickness not exceeding ten-thousandths of an inch on the external face thereof, said layer of infiltrant metal being integrally fused to the infiltrated titanium carbide blade body and being thickened at the blade support attaching portion thereof, and being so proportioned at the thin trailing edge of said blade that for thicknesses of about one-thirty second of an inch and less at the extreme edge of the thin trailing edge the material thereof is composed substantially of said infiltrant metal, whereby the trailing edge of said blade is characterized by having increased ductility, improved resistance to thermal and mechanical shock and to bending and fatigue stresses under operating conditions.

#### 2,714,246 PROTECTED METAL ARTICLE

Alden W. Coffman and Dean S. Hubbell, Pittsburgh, Pa., assignors to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application September 9, 1950, Serial No. 184,090  
7 Claims. (Cl. 29—195)

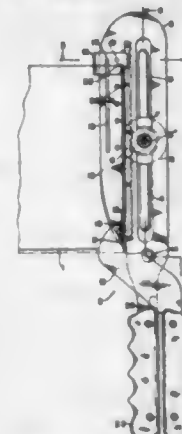


1. As a new article of manufacture, a metal core sheet having both surfaces thereof coated with a continuous layer of metal adhesive alloyed to the metal sheet, and a layer of fibrous material covering each surface of the thus coated metal sheet, a series of small individual solid particles of the metal adhesive spaced from adjacent particles and alloyed with the continuous coating of metal

adhesive on each surface of the metal core sheet and upstanding a substantial distance therefrom and projecting into and mechanically keyed to the body of each fibrous layer, said fibrous layers being bonded to the continuous coatings between said small individual solid particles of metal adhesive.

#### 2,714,247 OPENER FOR METAL CONTAINERS

Louis B. Whatley, Asheville, N. C.  
Application December 1, 1954, Serial No. 472,385  
9 Claims. (Cl. 30—3)



1. An opener for cutting straight sides of metal containers comprising a plate having a longitudinally extending slot therein, a rack mounted on said plate adjacent said slot, a rotatable cutting wheel mounted on an axle extending through said slot, a pinion mounted on said axle and adapted to mesh with said rack, and a tongue having a free end and a closed end integral with said plate running substantially parallel to said slot and said rack, said tongue being adapted, when said opener is in cutting position on a container, to be on one side of a straight side of said container, the plate, rack, axle, pinion and cutting wheel lying on the other side thereof.

#### 2,714,248 SAFETY RAZOR

Max Shore, Syracuse, N. Y.  
Application October 4, 1952, Serial No. 313,122  
4 Claims. (Cl. 30—85)



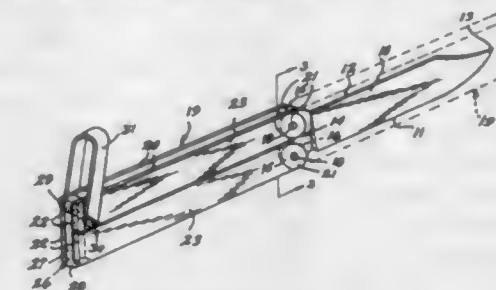
1. A safety razor comprising a blade carrying head, a stem extending from the head perpendicular to the blade carried thereby, finger rests mounted on the stem in spaced relation to the head and extending laterally in a direction lengthwise of the blade from opposite sides of the stem, a rod slidably mounted in the stem and being attached at its upper end to mechanism cooperable to detachably secure the blade to the head, the lower end of said rod extending beyond the lower end of said stem, and a thumb engaging knob mounted on the lower end of the rod in spaced relation to said finger rests, said rod and knob having threaded engagement to effect lengthwise movement of the rod in said stem.

#### 2,714,249 FOLDING KNIFE

Dixon W. Clark and Alfred J. Sachse, Coeur D'Alene, Idaho, and Hubert N. Steele, Spokane, Wash.  
Application July 13, 1953, Serial No. 367,513  
2 Claims. (Cl. 30—153)

1. A folding knife comprising a blade provided with a butt end portion having a recess intermediate a pair of

spaced ears; a longitudinally divided segmental handle having spaced parallel elongated side walls on each segment and united by a back wall along companion edges; said side walls being pivotally united with said blade at said ears with the back walls of the segments disposed in



face to face engagement when in the open position; said back walls having front edges disposed by reason of their pivotal connections to thrust into and firmly seat in said recess and rigidly bind said blade when said handle is moved to the open position; and means for securing the handle segments in the open position.

#### 2,714,250 HYDRAULIC PRUNING AND CUTTING TOOL

Arthur B. Twedt, Portland, Ore.  
Application September 14, 1954, Serial No. 456,015  
3 Claims. (Cl. 30—180)



1. A pruning and cutting tool comprising in combination an elongated tubular main body member closed at its top end by a cylinder having a piston operatively disposed therein and closed at its bottom end by an insert, said insert being bored along its length, said bore being in communication with a fluid reservoir disposed on the interior of the hollow tubular main body member, a piston operatively disposed in said bore, lever means for actuating said piston in the bore, said bore being in communication through valve means with said piston in said cylinder, a cutter head secured to the top end of said hollow tubular main body member and having a cutting edge spaced apart therefrom, an anvil carried by said piston in said cylinder and adapted to be moved by said last-mentioned piston toward said cutting edge to sever an object placed upon and carried by the anvil.

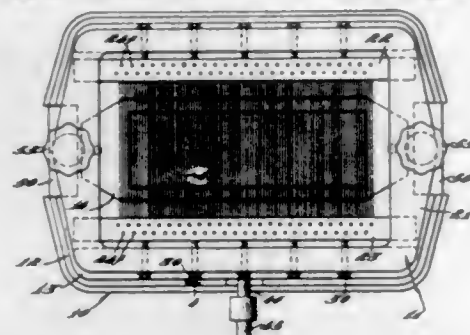
#### 2,714,251 ADJUSTABLE TENSION WIRE TYPE CHEESE CUTTER

John P. Mulhall, Providence, R. I., assignor to Irving Rubin, Brookline, Mass.  
Application January 17, 1950, Serial No. 139,017  
7 Claims. (Cl. 31—22)

1. A cutter support comprising a frame member having a transverse opening therein of sufficient size to receive a piece of cheese to be sliced, two series of cutter

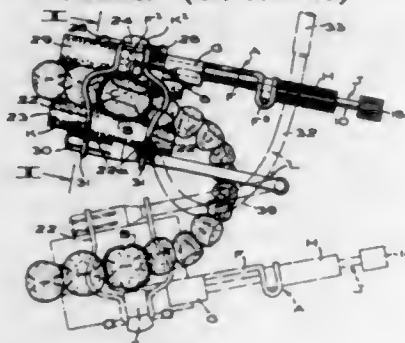


retaining members on said frame member, one of said series being located adjacent to one side of said opening and the other adjacent to the opposite side thereof, each of said cutter retaining members having a cutter receiving wall portion which is convexly arcuate at least on the side of the cutter retaining member which is away from said opening and each of said cutter retaining members having a flange at the side of said convexly arcuate wall portion which is spaced outwardly from the frame member, the portion of the cutter retaining member which extends from said cutter receiving wall portion towards said frame member having a smaller cross sectional area than the cross sectional area of the cutter receiving portion and an elongate cutter member comprising a wire hav-



ing each end anchored and having the portion intermediate its ends arranged in a plurality of straight portions which extend transversely of said opening substantially in a single plane with a loop between each pair of adjacent straight portions, each of said loops extending longitudinally of and in engagement with said arcuate wall portion of a cutter retaining member and being free of attachment thereto, whereby each loop portion of the cutter member is free to move longitudinally of an arcuate wall portion of a cutter retaining member when the tension in said straight portions of the cutter member is varied and each loop portion of the cutter member is prevented from moving outwardly away from the frame member by said flange.

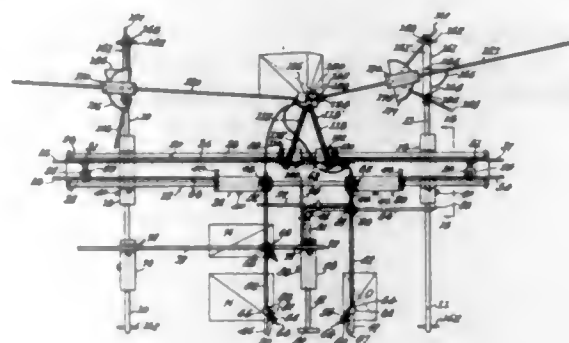
**2,714,252**  
**COMBINATION MATRIX RETAINER AND COTTON-ROLL AND SALIVA-EJECTOR HOLDER**  
Benjamin F. Toffemire, Lafayette, Calif.  
Application August 31, 1953, Serial No. 377,391  
7 Claims. (Cl. 32-63)



1. In a combination dental instrument of the character described: a matrix retainer, including means for clamping a looped matrix band around a tooth with the band anchoring the retainer to the banded tooth; and a roll-holder carried by the retainer, and having means engageable with a roll of absorbent material for holding the latter in a position adjacent said tooth.

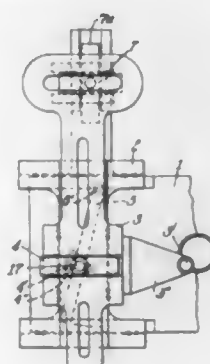
**2,714,253**  
**PERSPECTIVE DRAFTING MACHINE**  
Irving S. Stone, Buffalo, N. Y.  
Application March 31, 1952, Serial No. 279,678  
15 Claims. (Cl. 33-18)  
(Granted under Title 35, U. S. Code (1952), sec. 266)  
2. A drafting device comprising left and right main supporting rails, a main frame mounted transversely of

said rails for movement therealong, left and right members movably mounted on said main frame, tracing members adapted to follow the outline of an orthographic projection and operatively connected to said left and right members, left and right centrolinead bars angularly disposed and pivotally connected to said left and right



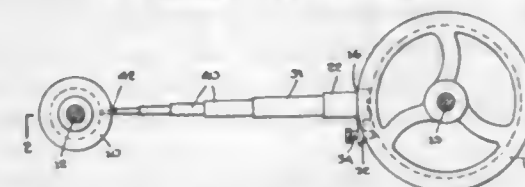
members respectively, and in overlapping relation, scribing means mounted at the cross-over of said centrolinead bars, and left and right guide means slidably engaged with said left and right centrolinead bars respectively, said guide means being mounted adjacent the remote extremities of the centrolinead bars.

**2,714,254**  
**DEVICE FOR EFFECTING CONTROLLED VARIATIONS OF GEOMETRICAL FORMS AND OTHER SHAPES**  
Stanley William Charles Andrews and James Henry Dwyer, Mitcham Junction, England, assignors to Precision Grinding Limited, Mitcham Junction, England  
Application September 10, 1951, Serial No. 245,942  
Claims priority, application Great Britain September 15, 1950  
3 Claims. (Cl. 33-23)



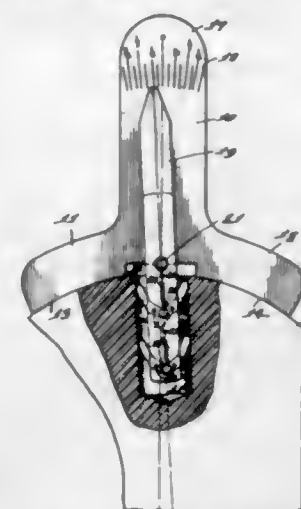
1. A copying device capable of effecting controlled variations of geometrical forms and other shapes comprising: an elongated base to which the image or matrix to be reproduced is secured; a first carriage capable of sliding along the said base; guiding means on the base for the said first carriage; a stylus-carrying second carriage mounted on and capable of moving with the said first carriage along the base and being also capable of sliding at right angles to the said sliding along the base; guiding means on the first carriage for the sliding movement of the second carriage at right angles to the movement of the first carriage along said base; a top slide mounted on the second carriage and being capable of sliding thereon in the direction of movement of said first carriage and movable with said second carriage in its direction of movement; an adaptor carried by the said top slide for the reception of a reproducing tool; a disconnectable bar pivoted to the first carriage in any desired inclination and means on the said top slide in guiding engagement with the bar, whereby during copying vertical lines of the image or matrix are converted into inclined lines.

**2,714,255**  
**DEVICE FOR ALIGNING PULLEYS**  
Ben D. Glazer, Westbury, N. Y.  
Application November 27, 1953, Serial No. 394,551  
5 Claims. (Cl. 33-46)



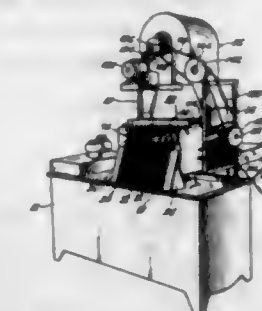
1. A device for aligning two grooved pulleys mounted on parallel shafts, said device including a block having opposed slanting faces shaped to generally fit the groove in one pulley and having an extension lying along the groove, an adjustable compensating screw carried by said extension and whose forward end is movable into the groove to an adjusted, fixed position in engagement with the bottom of the groove to compensate for pulleys of different diameters, a magnet carried by the block to secure the latter firmly in the groove and coacting with the periphery of the pulley, and a member carried by the magnet and capable of indicating a point in the groove of the second pulley.

**2,714,256**  
**PITCH INDICATOR FOR BOWLING BALL BORES**  
Lester H. Watson, Afton, Mo., assignor to The Brunswick-Balke-Collender Company, a corporation of Delaware  
Application February 15, 1951, Serial No. 211,054  
4 Claims. (Cl. 33-174)



1. A pitch indicator for a bowling ball finger hole comprising: a three-forked flat gage body, the first and second forks having cooperating inverse arcuate surfaces adapted to make contact with the spherical surface of a bowling ball, said arcuate surfaces having a gap therebetween, said surfaces and gap being symmetrically spaced with respect to the third fork, the third fork being adapted to extend outwardly with its center along a radial line of said ball; an indicator scale near the tip of said third fork, said scale having a zero reading along a center line of the surface of said third fork; a pointer arm pivoted at the center of the base of said third fork, said pointer arm having a tip adapted to indicate a reading on said indicator scale and a bottom end adapted for extension into a bowling ball finger hole; and two sets of wall contacting members at the bottom end of said pointer arm, each set of wall contacting members consisting of a pair of elongated fingers which are connected at one end to a pivot which has free vertical movement for a short distance along the center of said pointer arm and which are slidably connected to said pointer arm at points slightly displaced from said pivot, said pivot being vertically biased by a spring whereby said elongated fingers are forced outwardly and act to center said pointer arm with respect to any surfaces encountered by said arms.

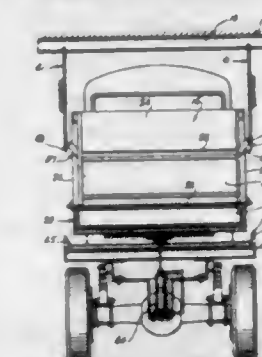
**2,714,257**  
**EGG DRYING MACHINE**  
Walter Jesse Reading, Ottumwa, Iowa  
Application August 26, 1950, Serial No. 181,667  
25 Claims. (Cl. 34-85)



1. Means for discharging eggs from a multi-flight moving conveyor wherein the flights are substantially parallel and extend transverse to the direction of motion of the conveyor, and the adjacent flights are spaced apart a distance large enough to accommodate only one egg therebetween; said means for discharging the eggs from the flights comprising a multi-armed spider adapted to be synchronously moved with the flights, pivotable arms mounted on the arms of the spider, a plurality of transverse bars secured to said pivotable arms, said bars extending in the same direction as the flights, said bars being disposed along the length of said pivotable arms so that at least one bar is located on each side of said pivotal connection between the pivotable arm and the spider arm, one of the plurality of transverse bars being adapted to engage the flight behind the egg to be ejected when the spider is rotated, whereby the pivotable arm is pivoted and a second transverse bar is extended between a pair of adjacent flights to eject the eggs located therebetween.

5. An egg drying machine comprising a plurality of movable flights for moving the washed eggs over a predetermined path through said egg drying machine, means for drying the eggs, means for discharging the dried eggs from the egg drying machine, and means for aligning the eggs in rows as they are conveyed by said flights through the egg drying machine, said aligning means comprising a plurality of fixed wires positioned transversely to the flights along a portion of the run of said flights, and a plurality of fixed sheet members positioned transversely with respect to the flights, said sheet members extending along the run of the flights beyond said fixed wires to form extensions of the aligning rows formed by the wire aligning members.

**2,714,258**  
**MEANS FOR DRYING PEANUTS AND THE LIKE**  
Cornelius C. Smith, Siocomb, Ala., and  
Walter E. Leverette, Ashburn, Ga.  
Application September 15, 1954, Serial No. 456,090  
1 Claim. (Cl. 34-214)



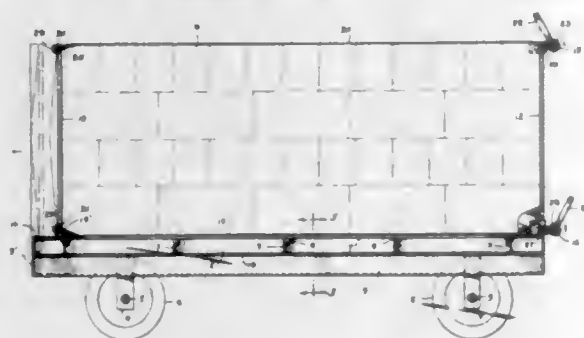
Apparatus for transporting and drying green peanuts and the like comprising a drying apparatus having a main hot air duct provided with a plurality of longitudinally spaced outlets, suspension means above each outlet, a mobile vehicle for transporting a single bin to a position in advance of each outlet, said vehicle having means for



elevating the bin upwardly to said suspension means, said bin having anchorage means for securement to said suspension means and retain the bin in suspended position permitting removal of the mobile vehicle, each bin having a housing for detachable connection with a hot air outlet of the main duct, and said bin further having a perforated bottom spaced above the main bottom of said bin, forming a hot air passage way.

#### 2,714,259 DRIER

Albert M. Best and George K. McCutcheon, New Holland, Pa., assigns to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application July 2, 1953, Serial No. 365,723  
8 Claims. (Cl. 34-233)



1. A drier comprising a box having an open top, a perforated bottom and imperforate sides, means for directing air under pressure through said perforated bottom, and imperforate ends, one of said-ends being stationary, the other said end being disposed for movement between the sides toward the stationary end, and mechanical means for causing such movement.

#### 2,714,260

**SPECIFIC GRAVITY DEMONSTRATION ARTICLE**  
Christof Burckhardt, Kunsnacht/Zurich, Switzerland  
Application May 24, 1954, Serial No. 431,927  
Claims priority, application Switzerland  
November 5, 1953  
2 Claims. (Cl. 35-19)



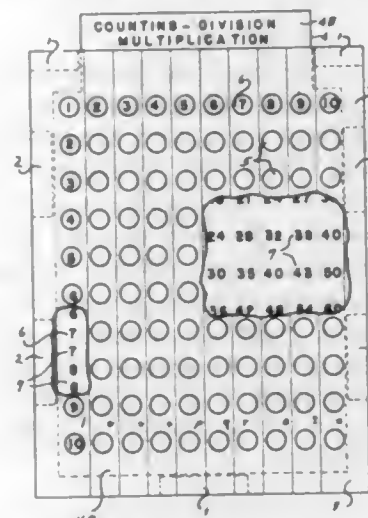
1. A demonstration article, comprising an oblong container of transparent material, symmetrical with respect to a transverse middle plane, two non-mixing fluids of different specific gravity contained in said container at least one of which is a liquid, the container having a middle chamber and two outer chambers and constricted passages connecting said chambers, the volume of the middle chamber situated above the level of the constricted connecting passages being at least equal to the total volume of said fluid of smaller specific gravity whereby, when the container is tilted from one inclined position in which all lighter fluid is contained in the higher outer chamber, over the horizontal into a second inclined position, in which said outer chamber is lower than the two other chambers, the flow of said lighter fluid from the middle chamber into the other outer chamber will start, before all of the lighter fluid has passed into the middle chamber.

#### 2,714,261

**EDUCATIONAL DEVICES FOR TEACHING MATHEMATICS**  
James L. Hight, Dayton, Ohio  
Application May 31, 1952, Serial No. 290,853  
4 Claims. (Cl. 35-31)

1. A device of the class described, comprising in combination a central positionable slide having printed on one face thereof a vertical row of multipliers, a horizontal

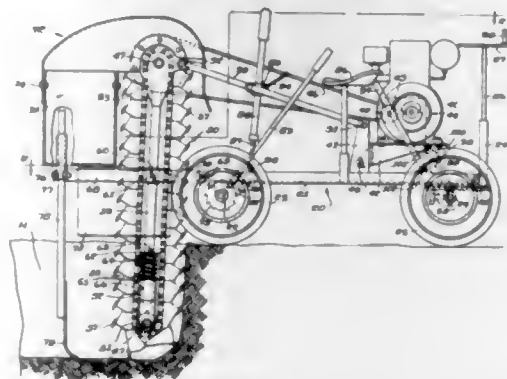
row of multiplicands, and ten horizontal rows of one hundred products corresponding to the multipliers and multiplicands, said horizontal rows of products being offset vertically in relation to the vertical row of multipliers, said products being arranged progressively in multiples of one to ten, and a frame for the slide including front and back plates and spacers to secure said front and back plates in proper spaced-apart relationship to each other to receive said slide therebetween for



limited vertical shifting movement between two positions, said front plate having therein one hundred openings arranged in horizontal rows of ten with the rows spaced apart in correspondence with the rows of products so that shifting the slide to one position reveals the multipliers and the multiplicands and conceals the products, and shifting said slide to the other position reveals the products and conceals the multipliers and multiplicands.

#### 2,714,262

**ENDLESS CONVEYOR DITCH DIGGING MACHINE**  
Edwin Malzahn, Perry, Okla.  
Application January 2, 1953, Serial No. 329,289  
2 Claims. (Cl. 37-86)

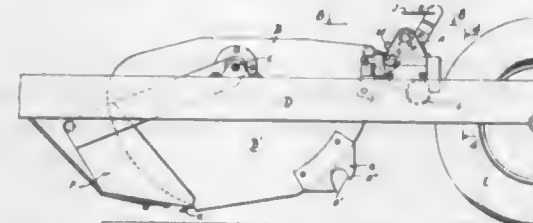


1. In a ditch digging machine, a mobile frame including a pair of spaced apart beams, a bracket extending upwardly from said frame and secured thereto, an excavator mechanism arranged rearwardly of the frame and including a driven shaft adapted to be connected to a power source, a lower shaft arranged in spaced parallel relation below said driven shaft, a pair of sprockets mounted on each of said shafts, endless chains trained over said sprockets, a plurality of interfitting buckets connected to said chains, each of said buckets including a straight wall portion and an arcuate wall portion, and a pair of side portions, said side portions converging towards each other, a plurality of cutting teeth extending from each arcuate wall portion, a pair of arms pivotally connected to the rear of said frame, a sleeve connected to said arms, a post slidably mounted in said sleeve, a pair of spaced parallel washers mounted on said post, a coil spring circumposed on said post and interposed between said pair

of washers, a sleeve slidably engaging the lower end of said post and connected to the lower shaft of said excavating mechanism, a plate secured to each of said arms, said plates being arranged in divergent relation with respect to each other, a hollow housing arranged contiguous to the upper end of said excavating mechanism, a chute pivotally connected to said housing, a casing positioned at the rear ends of said arms, a standard adjustably mounted in said casing, a bolt and nut assembly for maintaining said standard immobile in said casing, a finger having a curved portion secured to the lower end of said standard, and means on said frame for raising and lowering the excavating mechanism.

#### 2,714,263

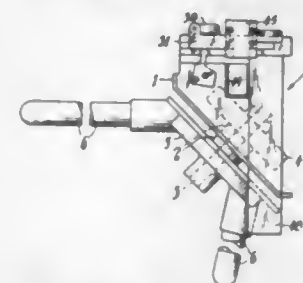
**LATCH FOR SCRAPER BOWLS**  
Kirk L. Brimhall, Torrance, Calif., assignor, by mesne assignments, to Western Equipment Mfg. Co., Glendale, Calif., a corporation of California  
Application August 11, 1950, Serial No. 178,854  
6 Claims. (Cl. 37-126)



1. In a hauling scraper, a frame, a bowl pivotally mounted on the frame for movement to occupy different positions, latch means including a movable latch member on the frame and a latch element on the bowl arranged to latch the bowl in said different positions, manually operable trip means operable on said frame for engaging and moving said latch member out of latching position to release the bowl, a lock-out member pivoted on the frame for movement to releasably hold said latch member out of latching position, spring means operatively connected with said frame and said latch member, respectively, for urging said latch member into latching position, spring means operatively connected with said frame and said lock-out member respectively for urging said lock-out member into position to hold the latch member out of latching position; and a bowl carried trip member which when the bowl is moved in either direction between said different positions thereof, will contact and move said lock-out member so as to release said latch member for latching the bowl.

#### 2,714,264

**TURNSTILES**  
Herbert B. Odell, Toronto, Ontario, Canada  
Application February 16, 1954, Serial No. 410,623  
11 Claims. (Cl. 39-3)

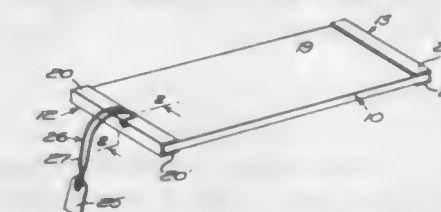


1. In a coin-controlled turnstile, a frame, a barrier mounted on said frame with its axis at an angle of 45° to the vertical, a ratchet wheel rotatable with said barrier and having radial shoulders, a dog engaged with said ratchet wheel to preclude retrograde movement thereof, a pawl pivotally supported on said frame and overlying said ratchet wheel, said pawl having a tooth at its distal end engaged with a radial shoulder on said ratchet wheel to

normally lock the barrier against operational movement, a lift arm swingably mounted on said frame in a horizontal plane and having a roller-tipped distal end engageable with a cam face on said pawl to lift the pawl out of engagement with the radial shoulder on the ratchet wheel to free the barrier for operational movement, a coin mechanism having a coin slot in which a deposited coin is initially ledged against dropping, a reciprocal slide constituting an element of said coin mechanism, said slide having a thrust face for engaging the coin, a blocking arm united with said lift arm, said blocking arm being yieldably constrained to cause its distal end to bear against the coin, counter to the thrust face of said slide, radial rollers on the ratchet wheel corresponding to the arms of the barrier, a cam plate pivoted on the frame and having a swinging end, said cam plate having a lateral cam surface which is engaged successively by one or more of said rollers to actuate the said swinging end, a shaft journaled in said frame, a lever fixed on said shaft and connected to said cam plate for operation thereby, a lever mounted on said shaft and connected to said slide, and an arm mounted on said shaft and arranged to engage said blocking arm in the final phase of its operation movement to impart to it a coin-releasing movement.

#### 2,714,265

**IDENTIFICATION MEANS FOR A CLOTH BOARD**  
William S. Riley, Coventry, R. I.  
Application August 22, 1952, Serial No. 305,853  
1 Claim. (Cl. 40-20)



In combination with an overlying flap of a finishing end cap adhesively secured over the narrow end of a rectangular-shaped cloth board having outer facing sheets secured to opposite faces of a core of corrugated sheet material, an indicia-carrying tag, and an attaching string loop element carried by said tag and having its terminal ends tied together into a knot, the said string element being anchored to the cloth board by having the knot disposed substantially entirely within an open corrugation of the core sheet at one end of the cloth board and retained and confined therein against displacement thereof by said finishing end cap, the knob of said knot being firmly caught under the underside of the overlying edge portion of the adjacent outer facing sheet and the loop portions of said string element proximate to the knot passing therefrom between said end cap over the adjacent end edge of the aforesaid outer facing sheet and extending inwardly from said edge along a grooved depression formed in the marginal edge portion of the outer face of said facing sheet and additionally continuing beneath and sealed by the overlying flap of such finishing end cap with the remainder of said string loop being freely exposed exteriorly thereof whereby the associated tag may be displayed in a suspended position in full view at such end of the cloth board.

#### 2,714,266

**MECHANICAL MOVING ARM FOR ADVERTISING PURPOSES**  
Juan Janquet, Mexico City, Mexico  
Application September 23, 1952, Serial No. 311,083  
Claims priority, application Mexico September 27, 1951  
10 Claims. (Cl. 40-126)

1. An advertising device, comprising in combination, support means; an elongated articulated limb member extending from said support means, said limb member



including a plurality of pivotally connected consecutive parts; mounting means at one end of said articulated limb member mounting said limb member on said support means, said limb member being connected to said mounting means turnably about a first axis, and said mounting means being connected to said support means



for movement about a second axis inclined relative to said first axis; and moving means for moving said mounting means about said second axis so as to change the position of said first axis relative to said support means so that said articulated limb member turns about said first axis and the parts thereof turn relative to each other while said mounting means moves about said second axis.

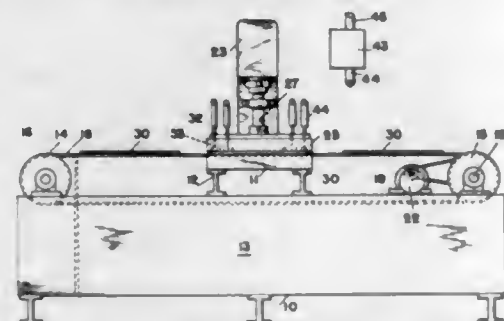
2,714,267

**MACHINE FOR APPLYING LIQUID MATERIAL**

Barry Gartner Innerfield, Brooklyn, N. Y.

Application November 8, 1952, Serial No. 319,467

13 Claims. (Cl. 41-1)



1. A device for depositing a liquid upon a surface comprising a plate adapted to contact the surface to be treated, a depression formed in the operative face of said plate, an inlet port in communication with said depression, liquid supply means operatively connected with said inlet port, a liquid flow control valve interposed between said supply means and said depression and an additional port in communication with said depression, whereby entrapped air and liquid introduced into said depression may be permitted to escape therefrom.

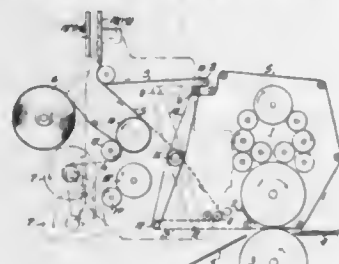
2,714,268

**FOIL FEEDING MECHANISM FOR ROTARY BLOCKING MACHINES**

Alfred Pierssene Battey, Barwick-in-Elmet, England, assignor to R. Hoe &amp; Co. Inc., New York, N. Y., a corporation of New York

Application July 31, 1951, Serial No. 239,601

7 Claims. (Cl. 41-7)



1. A blocking machine which comprises a die cylinder, an impression cylinder, means to rotate the cylinders continuously, a die on the die cylinder and moved thereby intermittently into impression relation to the impression cylinder, foil-strip control means including a positively driven looping device to move the strip forwardly with the die and impression cylinders during their periods of rolling impression cooperation and backward relatively to the cylinders during their non-impression periods, a foil-strip feeding roller positioned to draw strip from a

supply roll, a rewind reel driven in timed relation with the feeding roller, a ratchet wheel connected to the feeding roller, a pawl cooperating with the ratchet wheel and oscillated by a continuously moving member of the machine to drive the feed roller intermittently and thereby advance foil-strip through the machine during each non-impression period, thereby to present a fresh section of the strip for each successive impression.

2,714,269

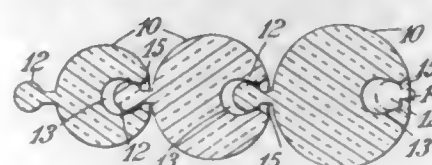
**ORNAMENTAL BEADED NECKLACE**

Geoffrey Russell Stafford Charles, Marlow, England, assignor, by mesne assignments, to Joseph H. Meyer Bros., Brooklyn, N. Y., a corporation of New York

Application January 10, 1955, Serial No. 480,903

Claims priority, application Great Britain April 29, 1954

6 Claims. (Cl. 41-10)



1. In a stringless necklace, a chain comprising a plurality of at least four bead members formed of resilient synthetic plastic material having the resilient properties of polyethylene, each pair of adjacent bead members being connected to each other by a ball and socket joint, a first of each pair of said adjacent bead members having an extension in the form of a neck extending from a surface thereof facing the other adjacent bead member, said neck having a head adjacent the outer end thereof, the facing surface of said other adjacent bead member having a socket opening for detachably receiving and retaining the head of the first bead member, said socket opening including a mouth which is of smaller cross sectional area than the interior portion of said socket opening, said head being larger in cross sectional area than the mouth of said socket opening whereby such head will not ordinarily pass through the mouth of a socket opening but due to the resilience of said plastic material may be forced therethrough with a snap action to provide a relatively secure but easily disconnected junction between adjacent beads, said head being smaller than the interior portion of said socket opening and the neck on said bead member in the region adjacent the head being smaller in cross sectional area than said mouth whereby to provide for freedom of play of the neck in the socket opening and flexibility in the junction between each pair of adjacent bead members.

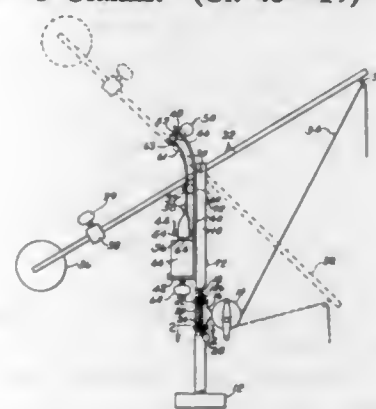
2,714,270

**ICE FISHING DEVICE**

Howard J. Premo, Massena, N. Y.

Application April 14, 1953, Serial No. 348,723

5 Claims. (Cl. 43-17)



1. An ice fishing apparatus comprising a base having an upstanding support column mounted thereon, means on the column for holding a reel, an elongated boom pivotally

mounted on a horizontal axis centrally thereof on the upper end of said column, an eye for carrying a fish line mounted at one end of said boom, a flag affixed to the other end of said boom, a weight slidably mounted for movement along the length of said other end of said boom, means for affixing said weight to said boom at any selected position along the length thereof, a bracket assembly mounted on said column along the upper end thereof and extending above the upper end of said column, said bracket assembly including a bracket member having longitudinally spaced electric cell-receiving arms along its lower end, one of said arms having an insulating block on the side thereof facing the other arm, a socket for receiving an electric bulb at its upper end, an electric bulb in said socket having its central contact projecting beyond said socket, a resilient conductor extending along said bracket member having one end bearing on said insulating block on the side thereof facing the other arm, and the other end projecting into the region of but normally having spaced axial relation with the bulb contact, insulating means for mounting said conductor on said bracket member, an electric cell mounted between said arms having one of its poles bearing against said one end of the conductor, and its other pole in electrical contact with said other arm, and means affixed to the other end of said conductor projecting into the path of movement of the flag-bearing end of said boom, whereby upon upward movement of said flag bearing boom, said conductor is moved to engage the central contact of said bulb.

2,714,271

**POWER DRIVEN FISHING REEL**

Harry C. Stratton, West Southport, Maine

Application September 5, 1951, Serial No. 245,117

7 Claims. (Cl. 43-21)



1. A fishing reel comprising a rigid frame, axially spaced anti-friction bearings carried by the frame and a horizontal shaft having one end portion arranged to turn in said bearings, a reel drum fixed to the shaft at one side of the frame, a drive pulley fixed to the shaft at the opposite side of the frame, a lever pivoted to the frame to rock about an axis parallel to that of the reel shaft, a second pulley which is mounted upon the lever, a belt embracing said pulleys, the lever being so arranged that its weight tends to tension the belt, a flexible shaft for conveying driving power from a stationary motor to the second pulley, and rod-holding means fixed to the frame.

2,714,272

**CONTROL MEANS FOR AUTOMATIC FISHING REELS**

Richard C. Tuttle, Salida, Colo.

Application July 9, 1954, Serial No. 442,350

4 Claims. (Cl. 43-25)

1. An attachment for a fishing rod handle having an automatic spring-wind reel secured to the outer end thereof and wherein the reel includes a brake release arm disposed closely adjacent said outer end of the handle and being operable upon pressure thereon in a direction toward the handle; said attachment comprising an elongated lever for extending lengthwise of the handle in spaced relation thereto, means supportable by the han-

dle and pivotally supporting said lever intermediate the ends thereof, abutment means on one end of the lever engageable with said brake release arm for operating same, said abutment means being positioned a short distance from the pivotal support of the lever, and a fore-finger engageable loop on the opposite end of said lever having only a curved portion thereof normally in contact with the handle and spacing a portion of the lever



between said loop and said means pivotally supporting said lever from the handle a distance so as to accommodate other fingers of the operator between said handle and said portion; said loop being at a substantially greater distance from the pivotal support than the abutment means for effecting substantial inward movement of said brake arm releasing means upon relatively light finger pressure on said loop in a direction outwardly of said handle.

2,714,273

**LURES FOR FISHING**

William Robert Lincoln Torrance, Vancouver, British Columbia, Canada

Application December 14, 1951, Serial No. 261,644

Claims priority, application Great Britain

December 18, 1950

5 Claims. (Cl. 43-42.18)



1. An angler's spinner type of lure for attachment to a line comprising a body part bent to channel section of nearly circular form with outwardly flared lips between which the line can be detachably gripped, a neck like construction on one end of said member, a spinner and a snap-on fastener carried by the spinner for detachably clipping the spinner to the neck-like construction.

2,714,274

**KNEE-KICKER CARPET STRETCHER**

Harvey J. Hill, Monterey Park, Calif., assignor to Roberts Manufacturing Company, Los Angeles, Calif., a corporation of California

Application July 6, 1954, Serial No. 441,275

3 Claims. (Cl. 45-89)

1. A device of the class described, which includes: a head having a relatively flat top and a relatively flat bottom; carpet engaging means projecting through said bottom; a handle attached to the top of said head and projecting from one side thereof; a knee pad attached to an extremity of said handle remote from said head; a body plate having a projecting lip on one side thereof and flat parallel arms, connected to projecting ears, clamped to said head with said projecting lip secured to



an edge of said bottom, said body plate being secured against one end of said head, said arms being disposed along the top of said head around said handle, said projecting ears projecting from a side of said head on opposite sides of said handle; a rotatable arm rotatably mounted on one of said ears; means carried by said rotatable arm and said other ear for securing said arm to said other ear; flexible arms attached to said body

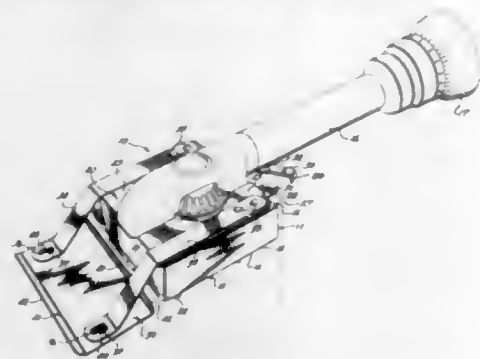


plate and projecting therefrom in a direction generally removed from said handle, said flexible arms having their ends disposed in the same plane as said flat bottom of said head; means defining an aperture in each of said ends of said flexible arms; and a stiff pad disposed in substantially the same plane as the bottom of said head and attached to said flexible arms by means of ears formed on said pad projecting loosely through said apertures.

**2,714,275**  
**SOUND PRODUCING REED STRUCTURE**  
Gustave Prohl, Newark, N. J.  
Application November 13, 1952, Serial No. 320,193  
2 Claims. (Cl. 46—180)



1. A sound producing device for attachment to the wall of a compressible hollow toy body for projection thereinto comprising a reed holder having a passaged anchoring means at its outer end to engage the toy body wall, said holder having an upwardly open channeled reed supporting member extending longitudinally inward from said anchoring means, with its open top disposed in a plane approximate to that of the longitudinal axis of the anchoring means, a reed element overlying the open top of said supporting member, with its base section affixed to the latter so that its free end portion is free to vibrate, said anchoring means having at its inner end a transverse stopper wall to close that portion of its passage which is aligned above the plane of the reed element, said supporting member having an end wall at its free end below and adjacent to the free end of the reed element, and a reed guard means connected with and outwardly offset relative to said end wall of the supporting member in guarding relation to the free end of the reed element.

**2,714,276**  
**MINERAL WOOL IMPREGNATED WITH A CONDENSATION PRODUCT OF EPICHLOROHYDRIN AND A FATTY AMINE AND PROCESS OF PREPARING SAME**

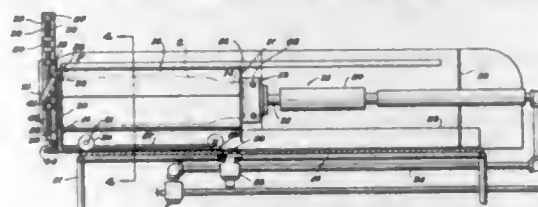
Chester G. Landes, New Canaan, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 29, 1950, Serial No. 203,539  
6 Claims. (Cl. 49—77.5)

1. A process for preparing water-resistant mineral wool which comprises impregnating mineral wool with from

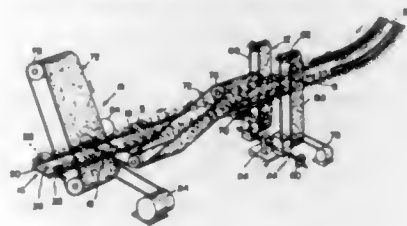
0.005% to 0.05% by weight based on the dry weight of the mineral wool of a water-soluble condensation product of epichlorohydrin and a fatty amine containing from 16 to 18 carbon atoms and having no more than 50% unsaturation, the epichlorohydrin being present in an amount of from 1.2 to 2.5 mols per mol of said fatty amine, and heating the impregnated wool to water insolubilize the condensation product.

**2,714,277**  
**DEBURRING OR POLISHING MACHINE**  
Walter B. Moore, West Lafayette, Ohio  
Application December 6, 1952, Serial No. 324,474  
9 Claims. (Cl. 51—92)



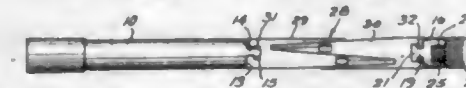
1. A machine for operating on the interior of a hollow article of annular cross-section which has an open end to perform a selected operation on the interior surface thereof, comprising a tool head, means for supporting the article, means for supporting the tool head, said tool head including tool members expandible by centrifugal force, means for rotating the tool head, said means for supporting the article comprising a carriage having means for carrying the article, means for reciprocating the carriage, a retracting ring supported on the carriage so that it will be in axial alignment with the open end of the article when supported on the article carrying means on the carriage, said retracting ring having a flared mouth facing the article carrying means, said means for supporting said tool head supporting it independently of the carriage and for rotation in axial alignment with said ring but in fixed position longitudinally so that as the carriage is reciprocated the ring and the article supported by the carriage will be moved axially of the tool head, and means for normally locking the carriage in such a position that the tool head is disposed within the main part of the retracting ring.

**2,714,278**  
**PIN CHAMFERING MACHINE**  
William H. Dostert, Muskegon, Mich., assignor to Continental Motors Corporation, Detroit and Muskegon, Mich., a corporation of Virginia  
Application June 22, 1953, Serial No. 363,177  
15 Claims. (Cl. 51—137)



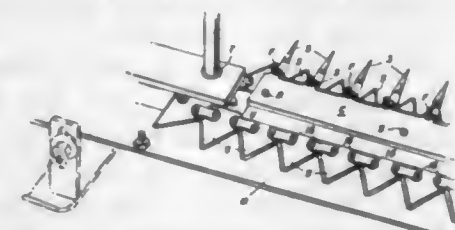
1. In combination, a chamfering machine for cylindrical pins consisting of a machine base, a pin rolling bed supported thereon, a roll effecting drive for said pins, movable vertically arranged abrasive belts oppositely positioned on either side of said bed contacting the ends of said rolling pins, a pair of movable abrasive belts arranged at an angle to said bed and contacting the outer peripheral edges of said rolling pins, the first of said angularly arranged belts being disposed on the other side of said bed and spaced apart from said first angularly arranged belt, said pin rolling bed extending from a point before said vertically arranged abrasive belts and passing therebetween to a point beyond said second angularly arranged abrasive belts and passing thereover.

**2,714,279**  
**ARBOR**  
Carl Rosenhagen, Dayton, Ohio  
Application August 28, 1950, Serial No. 181,774  
6 Claims. (Cl. 51—184.3)



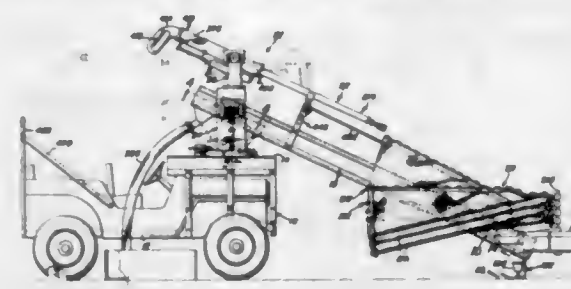
1. A lap and arbor mounting therefor, including an arbor shaft, a pair of cylindrical lap elements slidably and rotatably mounted on said shaft and coacting to define a lap, said elements being axially adjustable relatively to one another to vary the size of the lap, individual driving connections between said arbor shaft and said lap elements compelling unison rotation of the lap elements with the shaft, and means longitudinally adjustable along said shaft to effect relative axial motion of said lap elements toward and from each other.

**2,714,280**  
**CUTTER BAR FOR MOWING MACHINES**  
Stuart D. Baker, Washington, D. C.  
Application October 12, 1954, Serial No. 461,882  
4 Claims. (Cl. 56—291)



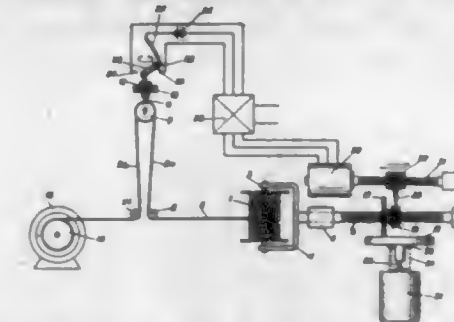
1. In a mowing machine, a cutter bar having a lower plate attached thereto and extending therealong, guards extending laterally from said lower plate, a cutting member movably mounted along one side edge of said cutter bar, said cutting member having operative engagement with said cutter bar, said lower plate and said guards, a top plate on said cutter bar having portions extending laterally over said guards, a bearing plate operatively associated with said top plate and having vertical movement with respect thereto, and adjusting means between said top plate and said bearing plate to cause said cutting members to have shearing action with said guards.

**2,714,281**  
**PRUNE AND NUT HARVESTER**  
William C. Steele, San Jose, Calif.  
Application November 10, 1952, Serial No. 319,734  
14 Claims. (Cl. 56—329)



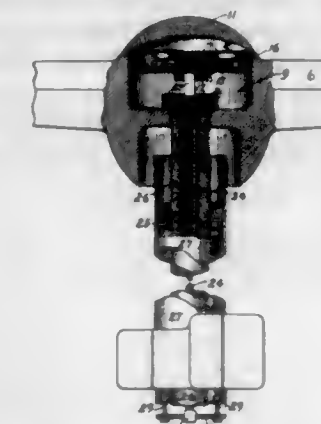
1. A fruit and nut gathering combination comprising a head member including a pair of oppositely disposed leg portions adapted to extend on opposite sides of a tree trunk from which fruit or nuts are to be gathered, a pair of vertically extending standards supported on said head member in spaced relation on each of said legs, a plurality of hopper forming radially extending support arms pivotally carried by said standards, flexible panel members connectible between adjacent support arms for forming a hopper about the trunk of a tree, said panels including portions defining an open bottom in said hopper, and an endless conveyor operatively connected to said head and extending below the open bottom of said hopper for receiving thereon and conveying crops gathered by said hopper.

**2,714,282**  
**APPARATUS FOR NULLIFYING RESIDUAL TWISTS OF CABLES**  
Jean Alfred Louis Rozieres, Paris, France  
Application October 22, 1952, Serial No. 316,120  
Claims priority, application France October 29, 1951  
7 Claims. (Cl. 57—34)



1. Apparatus of the class described for automatically nullifying residual twists of a cable after its fabrication and reeling, which comprises in combination a discharge reel containing said cable, means for supporting said reel, means for translating residual twists of said cable when it is pulled by a winder from said reel and through said translating means, and a transmission system controlled by said translating means and adapted to act upon the said reel supporting means in a manner to cause the cable length comprised between the said reel supporting means and the said translating means to undergo untwisting such as to nullify the springy turns thereof.

**2,714,283**  
**CLOCK WOUND BY THE STEERING WHEEL**  
Antoine Gazda, Providence, R. I.  
Application July 26, 1950, Serial No. 175,956  
2 Claims. (Cl. 58—46)



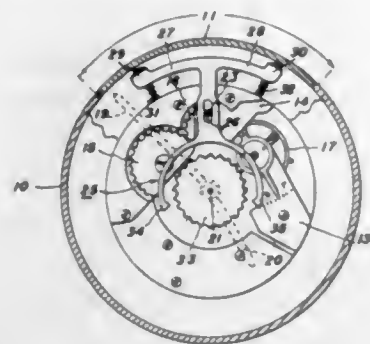
1. A clock having a time mechanism for an automobile or the like having a steering wheel comprising a casing fixed to said steering wheel, a mainspring for said time mechanism, a ratchet wheel, a train of gears between said ratchet wheel and said mainspring, said mainspring, gears and ratchet wheel being movable with said casing and steering wheel, a circular plug extending through said casing, a steering rod connected to said steering wheel having a central bore, a spring connected to said plug and extending through said bore, said spring being connected to a fixed part of the automobile and a spring actuated pawl connected to said plug for operating said ratchet wheel to wind said main spring upon movements of said steering wheel.

**2,714,284**  
**WATCH HAND SETTING MECHANISM**  
Antoine Gazda, Providence, R. I.  
Application April 7, 1952, Serial No. 280,939  
1 Claim. (Cl. 58—80)

In a watch, a casing, a portion of said casing being resilient and depressible, a shaft rotatably mounted in said casing, hands operatively associated with said rotatable shaft, a hand setting lever slidably and pivotally



mounted in said casing, said lever being wholly contained in said casing and operatively contactable with said shaft for rotating said shaft upon movement of said hand setting lever to set said hands, said casing upon being depressed contacting and moving said hand setting lever, a ratchet gear secured on an end of said rotatable shaft, said hand setting lever having a forked end, teeth on said forked end adapted for coaction with said ratchet gear and means on the other end of said lever



for inwardly and angularly moving said lever selectively in clockwise or counterclockwise direction to thereby contact and rotate said ratchet gear and said rotatable shaft, said lever having an elongated slot therein permitting said movement and rotation of said lever, said means for moving said lever comprising arms extending therefrom in opposite directions in close proximity to said resilient casing portion and spring means interposed between said arms and a portion of said casing biasing said arms and said lever to normal position.

2,714,285

## NOZZLE ACTUATING SYSTEM

Frederick L. Geary, Springfield, Mass., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application November 2, 1950, Serial No. 193,734  
8 Claims. (Cl. 60—35.6)



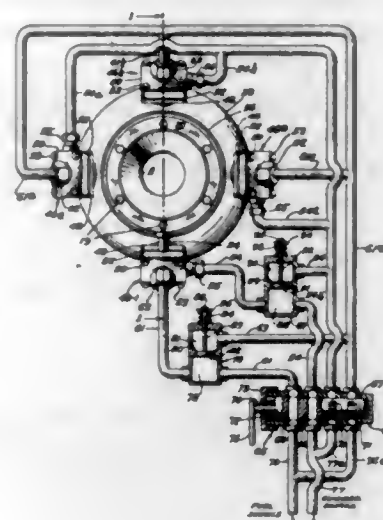
1. A nozzle actuating system for a nozzle on an engine including in combination a cylinder mounted on said engine, one end of said cylinder being fixedly mounted, the other end of said cylinder being pivotally mounted, a piston in said cylinder, a piston rod connected to said piston and extending through one end of the cylinder, a track mechanism mounted on said engine, one end of said track mechanism being fixedly mounted, the other end of said track mechanism being pivotally mounted, a car on said track mechanism, a control rod connecting said piston rod to one end of said car, and a control rod connecting a nozzle to the other end of said car.

6. In an actuating system, a cylinder, a piston in said cylinder, said piston including first and second piston members, a rod, said first and second piston members being retained on said rod, a spring biasing said members apart, a projection on one member, said projection of one member extending through a hole in the other member into said cylinder, a fixed stop in said cylinder to be engaged by said projection, means connected to said piston to convey its movement therewith.

2,714,286  
LIQUID PROPELLANT INJECTION SYSTEM FOR JET MOTORS

Maurice J. Zucrow, Altadena, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Azusa, Calif.

Application July 14, 1944, Serial No. 544,868  
4 Claims. (Cl. 60—35.6)



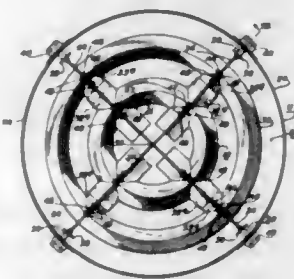
2. In a motor having a chamber in which combustion takes place and an exhaust nozzle from the chamber through which the products of combustion flow, a plurality of injectors each having an orifice for injecting a stream of fuel and an orifice for injecting a stream of oxidizer to impinge against each other in the chamber where the fuel is ignited, a first pair of fuel and oxidizer valves connected between the fuel source and the oxidizer source and the fuel and oxidizer orifices, respectively, of the first of said injectors, a second pair of fuel and oxidizer valves connected between the fuel and oxidizer sources and the respective fuel and oxidizer orifices of each of the other injectors, means for actuating said first pair of valves to inject fuel and oxidizer into the first injector, and means for operating the second pair of valves to inject fuel and oxidizer to all the other injectors, said last-mentioned means comprising a thermal switch responsive to the chamber temperature.

2,714,287

## FLAMEHOLDER DEVICE FOR TURBOJET AFTERBURNER

John C. Carr, Norwood, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 3, 1950, Serial No. 136,542  
1 Claim. (Cl. 60—39.32)



In an afterburner apparatus for a turbojet engine, cylindrical casing structure forming an elongate combustion chamber through which burning fuel and hot gases are propelled at high velocity, and a flameholder assembly interposed in the combustion gas stream for effecting sufficient stagnancy to retain the flame formation therein, said assembly comprising a plurality of circumferentially spaced boss portions carried on said casing structure, an equal number of pins mounted radially in the respective boss portions, radially disposed struts having outer ends

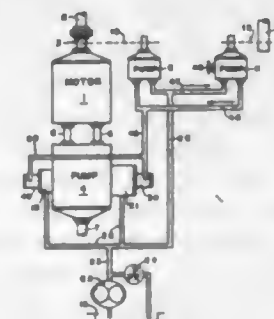
slidably mounted on said pins, respectively, said struts being secured at their intersection on the axis of said casing structure and having apertured lugs disposed at points intermediate said intersection and said outer ends, concentric outer and inner annular members of V-shaped cross section, said outer annular member having a plurality of radially inwardly projecting V-shaped arm portions aligned with said struts and terminating outwardly of said inner annular member, said inner annular member having similarly disposed V-shaped cross portions having outwardly projecting ends engaged in overlapping relation with said arm portions of the outer member, a plurality of apertured lugs carried on said arm portions and said cross portions, and means loosely connecting said annular members to said struts including radial pins radially aligned with said struts and connecting adjacent sets of said lugs for permitting relative thermal expansion of said assembled elements without imposition of strain on said casing structure.

2,714,288

## HYDRAULIC DRIVE

Richard E. Davis, Summit, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 12, 1954, Serial No. 415,853  
12 Claims. (Cl. 60—52)



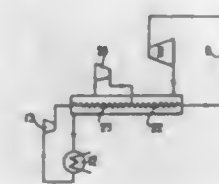
1. A hydraulic drive, for driving a machine at a speed proportional to the speed of a reference element, comprising a hydraulic motor connected to said machine, a main pump for supplying liquid to said motor to energize the same, fluid channels connecting said pump to said motor and forming therewith a hydraulic transmission, said transmission having a member for controlling the flow of liquid to said motor and shiftable in opposite directions to vary the rate of flow, hydraulic servo-motor means for shifting said member, a source of pressure liquid, means for supplying liquid from said source to said servo-motor means including a follow-up type pilot valve for controlling the flow of liquid to and from said servo-motor means and normally occupying a neutral position in which it blocks said flow, a first pilot pump driven by said motor, a second pilot pump driven by said reference element, two fluid channels connecting said pilot pumps in series and forming therewith a substantially closed hydraulic circuit, stationary cylinder means hydraulically connected to the first side of said circuit, a pilot piston fitted in said cylinder means with one side engaging the stem of said valve and its other side exposed to the pressure in said first side of said circuit, yieldable means engaging said valve and urging it toward said pilot piston, the pressure acting upon said pilot piston causing it to hold said valve in its neutral position when the delivery rate of one pilot pump is equal to the intake rate of the other pilot pump but a variation between the delivery rate of one pilot pump and the intake rate of the other pilot pump will cause said pilot piston to effect movement of said valve and thereby effect movement of said member, and a cylinder wall fitted in said cylinder means and movable with said member for keeping the volume of liquid in said cylinder means constant except for the very small quantity required to enable said pilot piston to effect a very slight movement of said valve.

2,714,289

## SYSTEM FOR PRODUCING THERMAL POWER

Kurt Hofmann, Winterthur, Switzerland, assignor, by mesne assignments, to Kurt Hofmann, Chiemling ueber Traunstein, Germany

Application April 22, 1949, Serial No. 89,163  
Claims priority, application Switzerland May 14, 1948  
4 Claims. (Cl. 60—59)



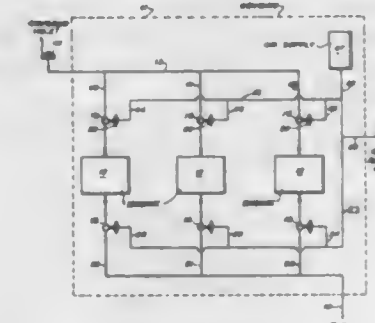
1. In the process for producing power from a hot gas wherein the operating medium is compressed, preheated by heat exchange between the expanded and the compressed medium, heated by external heat to the maximum temperature in the cycle, expanded for producing power, cooled by removal of heat from the expanded medium to the outside, and recompressed as at the beginning of the cycle; the steps of diverting a portion of the operating medium after it has been expanded to the lowest pressure in the cycle, after it has exchanged heat with the compressed medium, and before completion of its cooling by removal of heat to the outside, of separately compressing the diverted portion to the highest pressure in the cycle, and of reuniting the separately compressed portion with the remaining portion of the medium after completion of the recompression of said remaining portion to the highest pressure in the cycle and before the medium is heated by external heat.

2,714,290

## CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINES

Walter Alfred Rachug, Houston, Tex., assignor, by mesne assignments, to Humble Pipe Line Company, Houston, Tex., a corporation of Texas

Application June 16, 1951, Serial No. 232,001  
5 Claims. (Cl. 60—97)



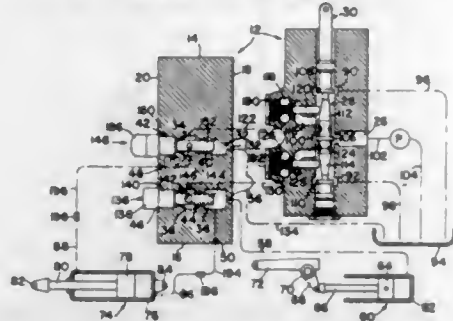
1. A control apparatus for an internal combustion engine which comprises, in combination, an atmospheric air intake line for an internal combustion engine, a feed line adapted to be connected to a source of fuel and connected to said engine, a first cut-off valve in said air intake line, a second cut-off valve in said feed line, pressure supply means for maintaining said first and second valves in an open position, and a quick opening release valve operatively connected to said first and second valves at a point remote therefrom adapted to release pressure from said first and second valves and to close same, said first and second valves being arranged to close substantially simultaneously responsive to opening of said quick release valve.



2,714,291

**SELECTOR VALVE FOR CONVERTING HYDRAULIC SYSTEM FROM SINGLE-ACTING TO DOUBLE-ACTING**

John D. Gleeson, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa

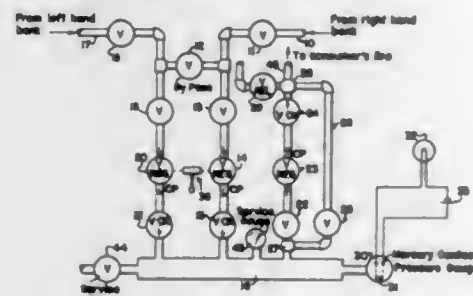
Application December 4, 1953, Serial No. 396,240  
10 Claims. (Cl. 60—97)

1. In a tractor hydraulic power lift system of the type including a single-acting motor and a double-acting motor: means for selectively operating the motors, comprising a control valve housing having a top and bottom and front and rear and opposite sides, a fluid-pressure inlet, upper front and rear chambers intersected by an upper fore-and-aft bore opening at the rear of the housing, lower front and rear chambers intersected by a lower fore-and-aft bore opening at the rear of the housing, first and second motor outlets opening at one side of the housing for connection to the double-acting motor and connected respectively to the upper rear and lower front chambers, a third motor outlet opening at another side of the housing for connection to the single-acting motor and connected to the lower front chamber, a reservoir outlet connected to the upper front chamber, and control valve means and passages for selectively connecting the rear chambers alternately to the inlet and to a reservoir; first removable means received in and closing the rear end of the lower bore and leaving the lower chambers in communication via said lower bore; and second removable means carried by the housing in the upper bore and including relatively adjustable elements for selectively establishing and disconnecting communication between the upper chambers via said upper bore.

2,714,292

**GAS FLOW CONTROL SYSTEM**

Norman S. Strandwitz, Chicago, Francis J. Elchelman, Brookfield, and William E. Doering, Chicago, Ill., assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware

Application October 29, 1952, Serial No. 317,534  
10 Claims. (Cl. 62—1)

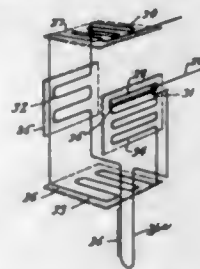
2. A gas flow control system for delivering gas at a substantially uniform predetermined pressure to a consumers line from either of a pair of separate gas sources of higher pressures, comprising a pair of high pressure regulators each having an inlet side and an outlet side, a third relatively low pressure regulator having an inlet side and an outlet side adapted to be connected to said consumers line, means connecting the inlet side of said low pressure regulator to the outlet sides of both of said high pressure regulators, conduits interconnecting the inlet sides of both of said high pressure regulators with

both of said gas sources, and selectively operable valve means included in said conduits and selectively controllable to deliver gas from either of said sources to the inlet side of either of said high pressure regulators, whereby either of said high pressure regulators may be removed from service without interrupting the flow of gas to said consumers line.

2,714,293

**DEFROSTING SYSTEMS FOR HOUSEHOLD REFRIGERATORS AND THE LIKE**

Thomas W. Duncan, Evansville, Ind., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota

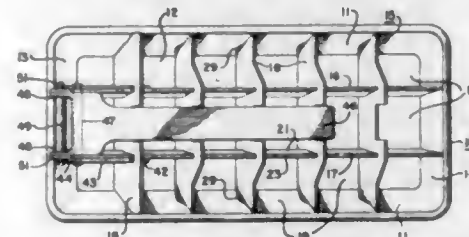
Application February 21, 1952, Serial No. 272,811  
7 Claims. (Cl. 62—4)

4. A refrigerating system including an evaporator provided with a supply of refrigerant, said evaporator comprising a header and a single continuous length of tubing connected at both ends to said header and providing a series circuit for refrigerant, said tubing including a first portion and a second portion in series with said first portion, one end of said tubing being connected to said header below the level of liquid refrigerant therein for supplying liquid refrigerant to said first portion, the other end of said tubing being connected to said header for conducting vaporized refrigerant from said second portion to said header, and means for supplying heat to said evaporator at the lowermost part of said tubing for defrosting said evaporator, the heat supplied to said tubing being also effective for inducing the circulation of refrigerant upward through said second portion of said continuous tubing to the header and downward through said first portion from said header toward the heating means.

2,714,294

**ICE TRAY GRID**

Arthur J. Frel, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 18, 1953, Serial No. 355,652  
3 Claims. (Cl. 62—108.5)

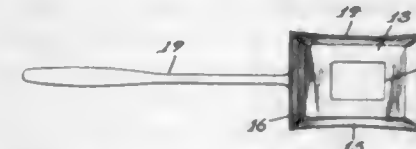
1. A removable unitary grid structure for disposition in a freezing tray comprising, two substantially inflexible longitudinal walls and a plurality of substantially inflexible walls extending transversely thereacross in spaced apart relation therealong to provide three longitudinal rows of ice block forming compartments, said transverse walls being normally inclined with respect to the vertical and movably interlocked with each of said longitudinal walls, a one-piece movable element extending along the top of each of said longitudinal walls continuously across and being interlocked with each of said transverse walls for progressively engaging and tilting them relative to said longitudinal walls toward the vertical, a level pivotally mounted upon said longitudinal walls at one end of the grid structure, said mounting of

said lever to said longitudinal walls locking them together and holding them stationary relative to one another, a link associated with each of said longitudinal walls, each of said links having one end thereof pivotally mounted to said lever and having their other end unattached to said movable elements and interlocked with the first of said plurality of transverse walls at said one end of the grid structure, said lever being swingable about its pivotal mounting to move said links for initially applying a force directly to said first transverse wall simultaneously at two spaced apart points therealong adjacent its points of intersection with said longitudinal walls to tilt said first transverse wall without this initial force being transmitted to said one-piece movable elements, and said one-piece movable elements being unattached to said links and bodily shiftable lengthwise of said longitudinal walls solely through their interlocked connection with said first transverse wall by the tilting movement imparted thereto by said links upon continued swinging of said lever to thereafter tilt all other transverse walls of the grid one after another in succession.

2,714,295

**EAR OF CORN BUTTER APPLICATOR**

Joseph S. Schick, Terre Haute, Ind.

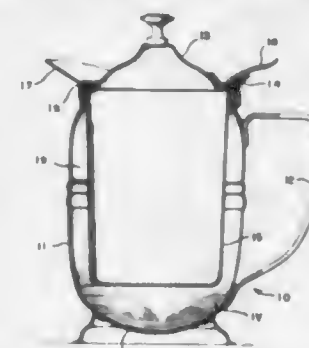
Application May 13, 1954, Serial No. 429,494  
1 Claim. (Cl. 65—12)

In a butter applicator, the combination which comprises a butter holding element having a base of rectangular shape in plan, upwardly and outwardly inclined side and end walls integral with the edges of said base with the upper edges of said side walls being of concave formation to conform in contour with a portion of the surface of an ear of corn, said base having an opening in the center thereof the edges of the opening conforming in contour to the edges of the base and equally spaced from the edges of the base and a handle extended from one end wall of said element.

2,714,296

**THERMALLY INSULATED CONTAINER**

Angelo C. Scavullo, Forest Hills, N. Y., assignor to Victor K. Scavullo, Frank Scavullo, Charles Scavullo, Marie Scavullo Saegert, and Margaret Scavullo Scott

Application December 18, 1950, Serial No. 201,379  
2 Claims. (Cl. 65—66)

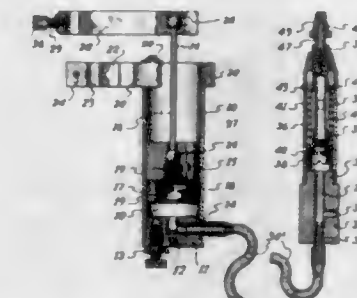
1. A wide-mouth thermally insulated container comprising two interfitting cylindrical deep-drawn stainless steel sheet metal receptacles open at one end and closed at the other, the outer receptacle being substantially larger in diameter than the inner one and terminating in an upper edge, the inner receptacle having straight side walls and an outwardly flared mouth portion integral therewith, said mouth portion terminating at one side in a pouring lip, said side walls and said mouth portion

being connected by a continuous smooth and gently curved surface between receptacle wall and lip, said flared mouth portion providing a continuous surface overlying said edge of said outer receptacle and on its underside contacting said edge throughout its extent in abutting relation and being brazed thereto, the two receptacles being spaced from each other adjacent said edge and along their lengths and at their bottom portions, the space between said receptacles being evacuated.

2,714,297

**HOSIERY REPAIR APPARATUS**

Luciano Argentin André, Mexico City, Mexico

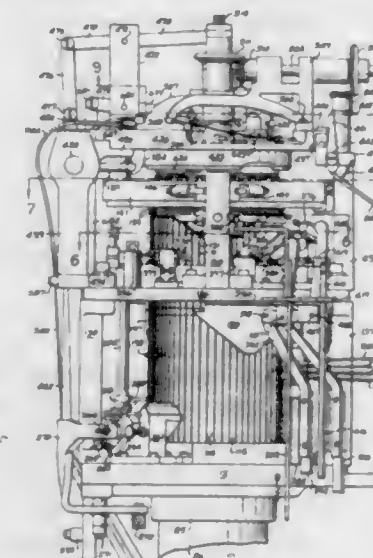
Application June 25, 1952, Serial No. 295,510  
2 Claims. (Cl. 66—1.5)

1. A relooping tool, comprising a tube provided at one end with an opening and at its opposite end with means having an inlet port for admission of pulsation of air under pressure and an exhaust port, a piston element mounted in the tube and extending through the opening, said piston element carrying a packing at its lower end and a needle clamp at its upper end, a spring between the packing and a shoulder formed on the interior of the tube, means for limiting the reciprocable movement of the piston element and cushioning the shock including slots in the piston element, a pin secured in the tube and extending through the slots, a plug mounted on the pin, and a spring in the piston element between a shoulder therein and the plug.

2,714,298

**DIAL KNITTING MACHINE AND METHOD**

Herman E. Crawford, Kernersville, N. C.

Application July 8, 1954, Serial No. 442,147  
12 Claims. (Cl. 66—24)

1. In a circular knitting machine, a cylinder, a dial, a set of latch needles on the dial, a set of latch needles on the cylinder; the combination of stitch transferring means comprising means to move each successive dial needle outward to an intermediate position from inward position to cause the stitch thereon to partially open the corresponding latch, stationary dial latch intercepting means against which the latch thus opened is moved to restrict opening of said latch, means to move the hook of the



corresponding cylinder needle through the last-named stitch, means to again move the dial needle outward to fully extended position so the latch thereon is moved beyond and released from the intercepting means, and means operable thereafter for withdrawing each successive dial needle from the corresponding stitch transferred to the adjacent cylinder needle.

2,714,299

### HOSIERY AND A METHOD OF MAKING THE SAME

Robert Howard, Tarboro, N. C., assignor to Runnymede Mills, Inc., Tarboro, N. C., a corporation of North Carolina

Application May 13, 1954, Serial No. 429,600  
2 Claims. (Cl. 66—188)



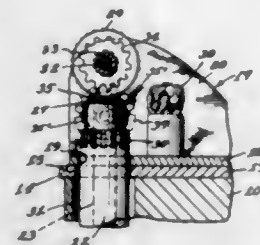
1. An integrally knit article of hosiery, comprising a sock having a lower foot and heel portion of plain knit fabric and a leg and instep portion of ribbed fabric, the line of demarcation between said plain knit and ribbed fabric being disposed along rearwardly and downwardly inclined lines extending from a point approximately midway of the top of the instep portion to points on opposite sides of the sock adjacent the heel portion thereof and being so located as to occupy a position slightly below the upper marginal edge of a shoe placed on a wearer's foot and over said sock, whereby said line of demarcation will be concealed by the upper portion of said shoe, and the foot and heel portions below said marginal edge will be substantially devoid of ribbed fabric.

2,714,300

### CIGARETTE LIGHTER

Angus McNeill, Chicago, Ill., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin

Application January 4, 1949, Serial No. 69,115  
10 Claims. (Cl. 67—7.1)



3. A lighter comprising a body, a bottom plate secured to the lower end of said body and having a portion projecting beyond the latter, a top plate secured to the upper end of said body and having a portion projecting beyond the latter, there being an opening in the projecting portion of said top plate, a frame supported on said top plate and secured thereto, said frame embodying a bottom member provided with an opening arranged in registry with the opening in said top plate and a pair of spaced parallel side members projecting from said bottom member, a sleeve provided with a longitudinally-extending open-ended bore supported on the projecting portion of said bottom plate and projecting through the registering openings in said top plate and frame bottom member, a friction wheel positioned between said side members and rotatably supported by the latter, a flint

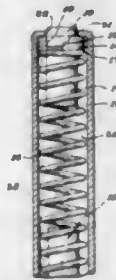
slidably positioned in the bore in said sleeve and having one end in contact with said friction wheel, resilient means normally urging said flint into contact with said friction wheel, and gear means operatively connecting said friction wheel to said sleeve for causing rotation of said sleeve and the flint as said friction wheel is rotated.

2,714,301

### FLINT MOUNTING FOR LIGHTERS

Robert W. Beattie, Brooklyn, N. Y., assignor to Beattie Jet Products Inc., New York, N. Y., a corporation of New York

Application November 4, 1950, Serial No. 194,108  
1 Claim. (Cl. 67—7.1)



In lighter construction, an elongated tubular member, the upper end of said tubular member being flanged directly inwardly to form a restricted opening therethrough concentric with the axis of said tubular member, a helical flint actuating spring within said tubular member and a one-piece flint mounting member within said tubular member and engaged with the upper end of said spring, said inwardly flanged end of said tubular member forming a stop to limit the upward movement of said flint mounting member, said flint mounting member being formed with an enlarged head overlying said upper end of said spring and with a reduced stud extending downwardly therefrom, said reduced stud lying within the coils of said spring adjacent said upper end thereof and having a diameter slightly less than that of the interior diameter of the coils of said spring, said enlarged head being recessed downwardly from the upper face thereof into a circular recess having substantially the same diameter as the diameter of said stud and of said restricted opening, the base of said recess lying in a plane closely adjacent the plane of the end of said spring, the exterior of said head being formed for slidable movement within said tube.

2,714,302

### MANTLE-MOUNTING STRUCTURE

Carl Bramming, Nashville, Tenn., assignor to Aladdin Industries Incorporated, Nashville, Tenn., a corporation of Illinois

Application October 10, 1951, Serial No. 250,721  
4 Claims. (Cl. 67—103)



1. For use in an inverted liquid-fuel mantle lantern having a mixing tube and a fuel nozzle disposed axially thereof and a burner head at the end of the mixing tube, a mantle-mounting element adapted to support an incandescent mantle, comprising a cylindrical portion adapted to be secured to said burner head, and a protective portion supported by the walls of said cylindrical portion

and providing a shield centrally of the path of fuel flow to the mantle, said protective portion being relieved in a plurality of zones around the edges thereof to provide passage for vaporized fuel mixture therethrough, whereby said protective portion, when the mantle-mounting element is secured to the burner tube, will intercept liquid drops of fuel dropping from said nozzle.

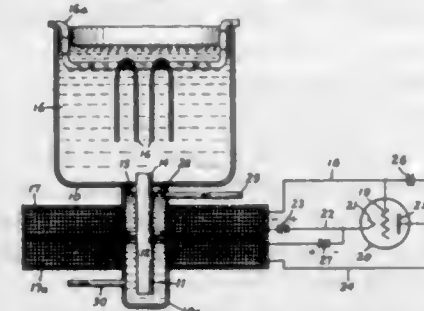
2,714,303

### COMPRESSIONAL WAVE APPARATUS FOR WASHING ARTICLES

John W. Bodman, Winchester, Mass., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine

Original application August 2, 1947, Serial No. 765,761. Divided and this application February 24, 1950, Serial No. 146,053

1 Claim. (Cl. 68—3)



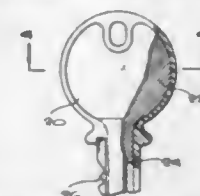
In apparatus for cleaning soiled articles including a container for soiled articles and a cleaning liquid, the combination of a diaphragm in a wall of the container, a tubular housing mounted over said diaphragm externally of the container and having fluid inlet and outlet connections, a magnetostriction rod supported substantially midway between its ends within said housing and having one end extending through said diaphragm in watertight relation thereto and in contact with the cleaning liquid, windings surrounding said housing for magnetically coupling with said rod, and an oscillator circuit connected to said windings for causing said rod to vibrate at substantially the natural frequency of longitudinal vibration therein.

2,714,304

### LUMINESCENT KEY

Luca F. Dedda, Springdale, Conn.

Application September 12, 1952, Serial No. 309,338  
1 Claim. (Cl. 70—406)



In a key, a flat, metallic core shaped to provide an inner lamination for both the shank and head of said key, and thermoplastic material molded about said core, to form the opposite faces of the head and shank respectively, said thermoplastic material being so shaped as to impart to the head and shank the key shape desired therefor, and being compounded with a luminescent material, said core lying wholly in a plane paralleling and extending midway between the planes of the opposite faces of said key, the core having a head portion about which is molded part of said material to form the head of the key, and having a shank portion about which is molded the remainder of the material to form the shank of the key, the head and shank portions of the core having their edges wholly covered by said material, said shank portion having its longitudinal edges spaced inwardly from the longitudinal edges of the molded thermoplastic covering of the shank portion, one longitudinal edge at least of the molded covering of the shank portion being notched to interfit with an associated lock.

697 O. G.—3

2,714,305

### CLIP RETAINED WALL STRUCTURE

Nels Nelsson, Chicago, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application January 19, 1951, Serial No. 206,893  
5 Claims. (Cl. 72—46)



1. The combination of a starter clip, a runner having a portion thereof provided with a plurality of spaced apertures engaged by said starter clip, a support attached to said runner, lath panels arranged in edge-to-edge relation, and anchoring clips cooperating with said starter clip and support for holding said panels against said support; said starter clip comprising an elongated center section, a hook-shaped finger extending transversely from one end of said center section and projecting through one runner aperture, and a resilient second finger extending transversely from said center section and projecting through a second runner aperture, said second finger having the free end thereof terminating in a closed loop which is positioned beyond the exposed surface of said lath panels; each anchoring clip comprising a head section embracing said support and having a pair of leg portions, one of said leg portions having an offset end portion engaging the exposed surface of said lath panels, a bowed elongated body section extending transversely from the other of said leg portions and resiliently engaging the exposed surface of said lath panels, and a bowed elongated hasp section extending transversely from said body section and effecting interlocking relation with the closed loop of said starter clip.

2,714,306

### APPARATUS FOR CALIBRATING REGULATING DEVICES OF TIMEPIECES

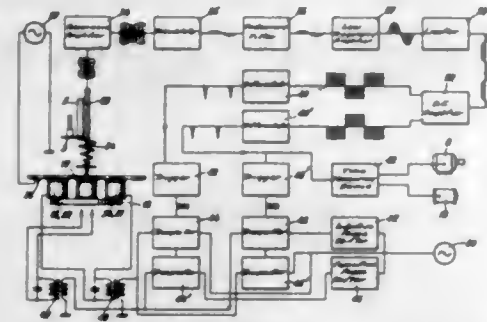
Max Hetzel, Bienne, Switzerland, assignor to Bulova Watch Company Inc., New York, Bienne Branch, Bienne, Switzerland, a joint-stock company of Switzerland

Application March 13, 1953, Serial No. 342,105  
Claims priority, application Switzerland April 9, 1952  
7 Claims. (Cl. 73—6)

1. A device for driving the regulating device intended for assembly in a clockwork and including a balance suspended by a hair spring connected thereto, comprising in combination, a first coil system capable of generating a magnetic field extending substantially in a first plane in the region occupied by the balance, a second coil system capable of generating a magnetic field extending substantially in a second plane in the region occupied by the balance, said first and second planes including a predetermined angle, a first high frequency transmitter connected to said first coil system and exciting the same for generation of said magnetic field in said first plane, a second high frequency transmitter connected to said second coil system and exciting the same for generation of said magnetic field in said second plane, the first and second transmitters supplying exciting currents to said first and second coil systems respectively, having different phases so as to generate a resultant rotary magnetic field



and means responsive to an electrical magnitude derived from the instantaneous amplitude of the vibrations of

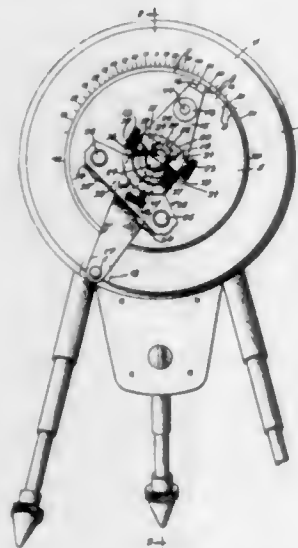


the suspended balance and controlling the frequency of at least one of said high frequency transmitters.

2,714,307

# INSTRUMENT FOR MEASURING THE PROPERTIES OF MATERIALS IN FLEXURE

Ralph F. Taber, North Tonawanda, N. Y.  
Application October 22, 1954, Serial No. 464,125  
10 Claims. (Cl. 73-100)



1. An instrument for measuring the elastic properties of materials in flexure, comprising a pair of relatively movable members, means for retarding movement of one of said members relative to the other, each of said members having a pair of specimen engaging elements projecting in spaced parallel relation for engaging opposite end portions of a test specimen, and means for adjusting one pair of said elements relative to the other according to the thickness of the test specimen, said members being operable in relative movement to flex opposite ends of said test specimen in opposite directions for indicating the elastic properties on a scale thereon when flexed a given amount.

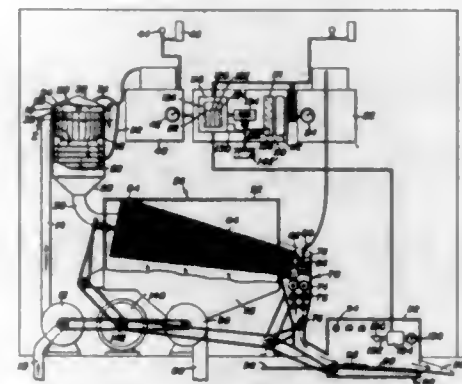
2,714,308

# MECHANICAL MUD TESTING DEVICE

Alfred C. Heck, Odessa, Tex.  
Application January 18, 1952, Serial No. 267,024  
9 Claims. (Cl. 73-153)

4. For use with a well drilling system utilizing circulating drilling mud to remove drill cuttings from a well; a well logging apparatus comprising a gas and mud separator including a substantially closed container, a vertically disposed cylinder rotatably mounted in said container, a plurality of spaced apart longitudinally disposed vanes mounted on the upper portion of said cylinder and projecting radially outward therefrom, an annular sloping baffle mounted below said cylinder and said vanes, a pump operative to deliver the well mud and the entrained drill cuttings laterally of the cylinder and against said vanes to rotate the cylinder, tubular means

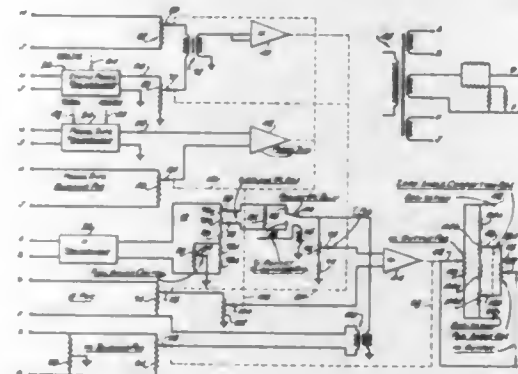
communicating with said container and adapted to collect the hydrocarbons separated from said mud and said drill cuttings, a mud discharge passage communicating with said container, a hydrocarbon analyzer, said tubular means conveying the collected hydrocarbons from said gas and mud separator to said hydrocarbon analyzer.



7. In a well logging apparatus operative to determine the hydrocarbon content of the strata penetrated by a well drilling device utilizing drilling mud to remove drill cuttings from a well, a hydrocarbon collector comprising means operative to separate the drill cuttings from the drilling mud, a plurality of superposed pairs of crushing rolls, said means delivering said drill cuttings into said rolls, an agitator including a plurality of rotating knife blades mounted below said crushing rolls, said rolls delivering crushed cuttings to said blades, pick up tubes positioned to collect hydrocarbons released in said crusher, a hydrocarbon analyzer, said pick up tubes delivering the hydrocarbons collected in said crusher to said analyzer, said analyzer being operative to determine the quantity of hydrocarbons collected in said crusher, a recording device operatively connected to log the quantities determined by said analyzer.

2,714,309

MEANS FOR OBTAINING FLIGHT DATA  
Ralph F. Redemske, Huntington Bay Hills, N. Y., assignor to Servomechanisms, Inc., Westbury, N. Y., a corporation of New York  
Application August 28, 1951, Serial No. 244,073  
11 Claims. (Cl. 73-178)

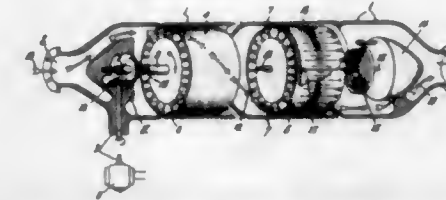


1. Apparatus for electromechanically obtaining flight data from measurable quantities which comprises transducing means for converting continuous measurements of factors affecting the flight of an aircraft into correspondingly varying voltages, at least one servo unit comprising an amplifier, motor and shaft, at least one potentiometer having a wiper mechanically coupled to said shaft for movement therewith, means for impressing one of said varying voltages across said potentiometer, and means for impressing upon the amplifier of said servo unit at least one other of said varying voltages and the fraction of the voltage across said potentiometer determined by the position of the wiper whereby the position of the shaft of said unit is a function of the ratio of two of the measured quantities.

2,714,310

# MASS RATE FLOWMETER

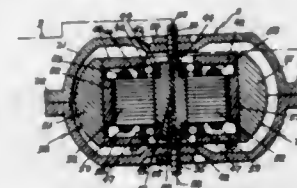
Frederic B. Jennings, Beverly, Mass., assignor to General Electric Company, a corporation of New York  
Application December 6, 1951, Serial No. 260,204  
13 Claims. (Cl. 73-194)



1. In a substantially linear fluid flow path, the flow measuring system comprising upstream impeller means angularly accelerating all of a fluid to substantially the same linear speed about an axis parallel with the directions of linear flow of said fluid in said flow path, motive means driving said impeller means at a substantially constant speed, movable means restrained and positioned downstream in said flow path in proximity with said impeller means in said flow path to reduce only the motion of said fluid imparted by said impeller, a viscous decoupling member supported stationary in said flow path between proximate portions of said impeller and restrained means other than portions thereof communicating flow of said fluid between said impeller and restrained means, and means measuring movements of said restrained means.

2,714,311

GYROSCOPE GIMBAL BALANCING SYSTEMS  
William T. Dobson III, Newton, and Stanley Kahn, Brookline, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
Application January 28, 1954, Serial No. 406,790  
2 Claims. (Cl. 74-5)

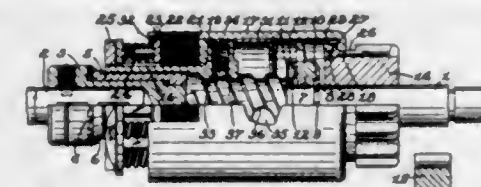


1. In a gyroscope, a suspended mass, a pair of mounting gimbals adapted to permit the rotation of the suspended mass about two mutually perpendicular axes, means for supporting said mass on the first of said gimbals comprising a central shaft formed with an eccentric cylindrical surface mounted within a cylindrical opening in the said mass concentric with the axis of said mass to permit axial and rotary adjustment of said shaft.

2,714,312

# STARTER GEARING FOR INTERNAL COMBUSTION ENGINES

Charles A. Mendenhall, Horseheads, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware  
Application November 12, 1953, Serial No. 391,403  
4 Claims. (Cl. 74-7)



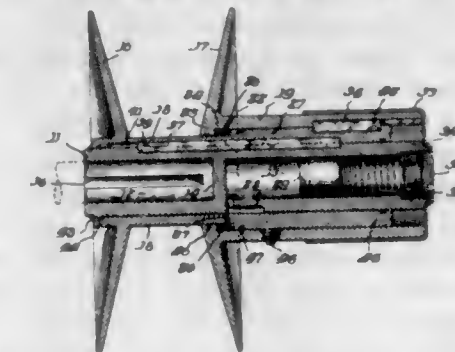
1. In an engine starter drive a power shaft, a screw shaft slidably journaled thereon and having a dental overrunning clutch connection therewith, an abutment on the power shaft limiting declutching movement of

the screw shaft thereon, a light compression spring between the screw shaft and said abutment tending to close the clutch; a pinion slidably journaled on the power shaft for movement into and out of mesh with a gear of the engine to be started, a control nut threaded on the screw shaft, a barrel member surrounding the control nut and having a splined connection at one end with the pinion, means limiting the relative longitudinal movement of the barrel and pinion, means including a compression spring normally keeping the pinion in extended relation to the barrel, and means including an overload slip coupling for transmitting rotary and longitudinal movement from the control nut to the barrel.

2,714,313

# VARIABLE PITCH PULLEY

Willard E. Gerbing, Park Ridge, Ill.  
Application March 22, 1951, Serial No. 216,966  
13 Claims. (Cl. 74-230.17)

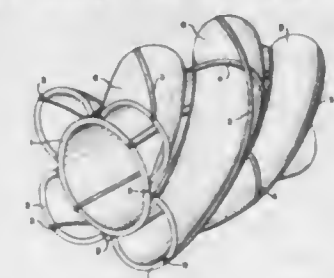


1. A variable pitch pulley including in combination a shaft member, a pair of opposed pulley halves having hub portions connected to said shaft, said hubs being longitudinally movable with respect to said shaft and to each other, and having portions defining at least one expansible chamber for receiving an incompressible fluid, and means cooperating with said expansible chamber for accommodating the changes in volume of said expansible chamber, storing the energy required to effect such changes in volume of the expansible chamber, and utilizing such stored energy to return said expansible chamber to its quiescent condition, said means including at least one variable volume chamber operatively connected to said expansible chamber through a fluid passageway, and an energy storage device operable by the variations in volume of said varying volume chamber.

2,714,314

# ROTORS FOR ROTARY GAS COMPRESSORS AND MOTORS

Per Helge N. Ulander, London, England, assignor to James Howden & Company Limited, Glasgow, Scotland, a corporation of Great Britain and Northern Ireland  
Application May 15, 1951, Serial No. 226,385  
10 Claims. (Cl. 74-434)

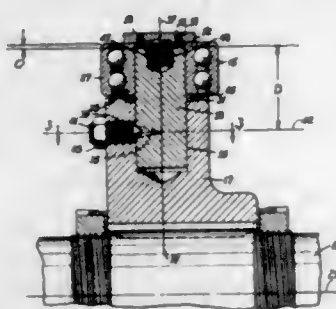


1. In a lobed rotor for compressors and the like, the combination of a tubular metal hub, a plurality of hollow lobes extending helically in relation to the axis of said tubular hub and each consisting of a pair of sheet metal shells each of arcuate form in cross-section, a helical strip of weld metal joining to one another the shells of each pair, and other helical strips of weld metal joining the shells of each pair to said hub.



2,714,315

**ROLLER MOUNTING FOR ROLLER GEAR DRIVES**  
Ernest Gordon Reader, St. Louis County, Karls G. Ziemelis, University City, and Stojan Karageogheff, St. Louis, Mo., assignors to Universal Match Corporation, Ferguson, Mo., a corporation of Delaware  
Application October 14, 1954, Serial No. 462,231  
4 Claims. (Cl. 74-465)

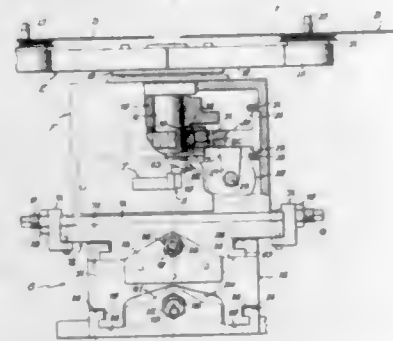


1. Means for radially mounting a roller on a driven shaft of a roller gear drive, the roller having inner and outer cylindric races; comprising a hub on said shaft having therein a cylindric radial bore, a cylindric stud located in said bore, said stud having a recess in its cylindric surface, a set screw threaded in the hub and having a point engaging said recess, said bore having a counterbore, a spacer ring of thickness greater than the depth of said counterbore and seated therein, the inner race of said roller being supported on said ring and on an extending portion of said stud with the outer end of said inner race located beyond the outer end of said stud, a flanged bearing cap threaded into the end of the stud, the flange of which engages the outer end of said inner race clear of the end of the stud, and locking means for said cap.

2,714,316

**APPARATUS FOR MANUFACTURING EARTH-WORKING DISCS**

Roy C. Ingersoll, Winnetka, Charles F. Ferre, Chicago, and Luzerne K. Albert, Harvey, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois  
Application September 22, 1951, Serial No. 247,872  
9 Claims. (Cl. 76-89.2)



1. In a work holding and indexing apparatus, a base, and a superstructure mounted thereon; rotatable means on said superstructure for supporting a work piece for intermittent arcuate movement to and from a plurality of stations including a station having work performing means thereat; motive means for intermittently driving said work supporting means between said stations; devices for arresting and locking said work supporting means against movement at each station; first adjusting means movable in a horizontal plane beneath said superstructure for bodily shifting said superstructure horizontally towards and from the above-mentioned work performing means; and second adjusting means interposed between and acting directly upon said base and first supporting means and movable in an inclined plane for raising and lowering said superstructure relative to the horizontal plane of the work performing means.

2,714,317

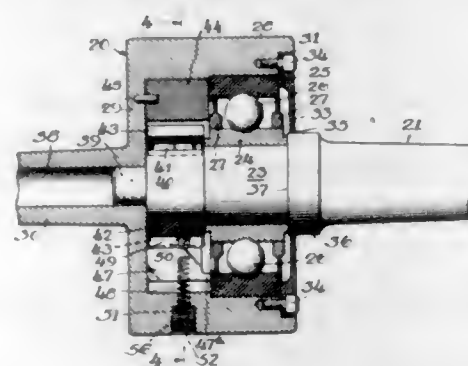
**METHOD OF AFFIXING CARBIDE AND DENSE ALLOY TIPS TO SAWS**  
Claud E. Drake, Brentwood, Mo.  
Application May 18, 1950, Serial No. 162,625  
1 Claim. (Cl. 76-112)



A method of affixing carbide tips on saw teeth which comprises forming a rounded notch-like recess in the front edge of each tooth, providing a strip of solder of the configuration of the inner face of the recess and inserting same tightly against the face of said recess, providing a tip shaped along its rear and bottom faces to fit the recess and having an enlarged forward cutting surface connected to said rear surface by inclined side faces, said forward surface being wider than the saw blade so that when the tip is centered in the recess lateral portions adjacent the cutting surface will overhang beyond the side faces of the saw blade, preparing the rearward portions of the tip and the exposed face of the strip of solder for mutual adherence, clamping a jig having a lateral recess with an inclined inner face upon a side face of the saw blade with its lateral recess aligned with a saw tooth recess, positioning the tip in the recess of the saw tooth and in the lateral recess in the jig with an inclined side face of the tip in face-to-face engagement with the inclined inner face of the lateral recess in the jig, applying heat to the saw tooth adjacent the intermediate area of bond between the tip and tooth to soften said strip of solder, applying pressure to the tip to move said tip along said inclined face of said jig toward the walls of the recess in the tooth, and removing said heat from the saw tooth to allow the solder to harden and secure the tip in place.

2,714,318

**COMBINED DRILL, TAP, AND LIVE-CENTER CHUCK ADAPTER OR THE LIKE**  
John H. Norman and William J. Anderson, Elmhurst, Ill., assignors to Howard H. Darbo, Wheaton, Ill.  
Application November 7, 1952, Serial No. 319,278  
12 Claims. (Cl. 77-60)



4. A combined drill, tap and live center chuck adapter or the like, comprising, a shank, an anti-friction bearing on the shank, a housing rotatable with respect to the shank on said bearing, a ratchet wheel on the shank within the housing, a pawl carried by and within the housing engageable with the ratchet, said ratchet and pawl inhibiting relative rotative movement of the housing and shank in one direction and permitting such relative rotative movement in the other direction, biasing means urging said pawl and ratchet into engagement, means for inactivating said biasing means and for holding the pawl out of engagement with the ratchet to permit free rotation of the housing on the shank, and means on the housing for carrying a live center, tap, or drill chuck or the like.

2,714,319

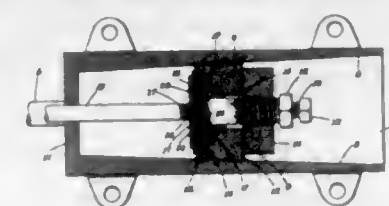
**TEAT CUP REVERSING TOOL**  
Carl E. Nelson, Colfax, Wis.  
Substituted for abandoned application Serial No. 115,538, September 13, 1949. This application June 4, 1954, Serial No. 434,601  
3 Claims. (Cl. 81-3)



1. In a teat cup turning tool comprising a handle rod, a tube surrounding the rod at one end for receiving one end of a teat cup in the tube while the rod extends into the cup, and means rigidly connecting the tube to said end of the rod with the tube spaced concentrically of the rod and the rod extending at its other end out of the tube.

2,714,320

**FAST ACTING VISE**  
John A. McDonald, Carmichael, Calif.  
Application September 22, 1953, Serial No. 381,701  
6 Claims. (Cl. 81-17)



2. A bench vise comprising a body adapted to be mounted in a fixed position on a bench, a fixed jaw on the front end of the body, a movable jaw ahead of the fixed jaw, means including a bar slidably supporting the movable jaw from the body for movement to and from the fixed jaw, means forming a chamber in the body extending lengthwise of said bar, a unit in the chamber movable lengthwise thereof and including clamping blocks arranged for separating movement to releasably engage opposed walls of the chamber, members at opposite ends of the blocks one of which cooperates with the blocks to force the same apart upon approach of the members toward each other, and a rotatable sleeve nut threaded through one member and held against axial movement in the other member; a rotatable screw shaft parallel to the bar and connected to the movable jaw and projecting into the chamber and threaded through the sleeve nut, and cooperating elements on the sleeve nut and screw shaft arranged to impart rotation to the sleeve nut in a direction to shift the blocks into engagement with the walls upon rotation of the screw shaft in one direction and to then allow the screw shaft to advance through the sleeve nut without rotation of the latter, and to impart a rotation to the sleeve nut in the opposite direction upon rotation of the screw shaft in a corresponding direction and subsequent to an initial retracting movement of the screw shaft through the sleeve nut.

2,714,321

**JAW FACE LININGS FOR A PIVOTED JAW WRENCH**  
Roy Tamplin, Tipp City, Ohio  
Application June 4, 1954, Serial No. 434,513  
3 Claims. (Cl. 81-52)

1. A device of the character described comprising a pair of handles, a semi-circular jaw formed integrally with the inner end of each handle, a hinge interconnecting the free ends of said jaws, each of said jaws having a recess in the inner face thereof, an arcuate spring mounted in each recess, a pair of semi-circular pipe-gripping mem-

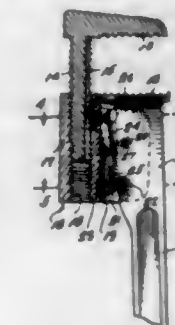
bers, and means carried by each of said springs for removably mounting one of said gripping members thereon,



said means including an abutment formed at each end of each of said springs.

2,714,322

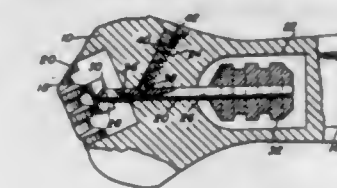
**WRENCH HAVING ROTATABLY ADJUSTABLE OUTER JAW**  
John H. Broseke, Kenton, Ohio  
Application January 13, 1954, Serial No. 403,873  
4 Claims. (Cl. 81-103)



1. An adjustable wrench of the character described comprising a handle provided with a fixed jaw at one end, a movable jaw being provided with a threaded shank, a carrier having a threaded bore therein, a pivotal connection between the carrier and the jaw end of the handle, said threaded shank being threadably disposed in the carrier, a detent member carried by the handle, said shank being formed with a longitudinal groove for receiving the detent and spring means interposed between the handle and the carrier to maintain the carrier in a position causing the detent to set in said groove.

2,714,323

**LOCK FOR ADJUSTING WORM OF A MOVABLE JAW WRENCH**  
Fred G. Lyons, Oroville, Calif.  
Application October 20, 1953, Serial No. 387,148  
1 Claim. (Cl. 81-165)



A locking device for a movable jaw wrench having a rotatable worm for adjusting the movable jaw and a body, said device comprising an abutment member for engaging the periphery of the worm, a shank extending from said abutment member, the body of said wrench having a first elongated bore terminating in an opening adjacent the worm, said first bore slidably receiving said shank, said shank having a plurality of longitudinally spaced and aligned indentations, the body of the wrench having a second bore therein extending in angular relation to the first bore and in communication therewith, a ball detent movably positioned in said second bore for selective engagement with the indentations in the shank, a coil spring disposed in said second bore with one

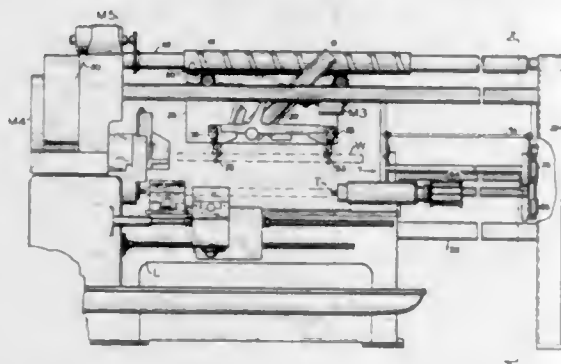


end thereof for urging the ball detent towards the indentations, an adjustable stop member positioned in said second bore in engagement with the other end of the spring for adjusting the force exerted on the ball detent by the spring, the body of the wrench having an enlarged opening extending therethrough in remote relation to the worm and receiving the remote end of the shank, and a handle attached to the remote end of said shank for longitudinal movement in the enlarged opening for selectively engaging the abutment member with the worm for selectively locking the movable jaw in adjusted position, said ball detent releasably retaining the shank in adjusted longitudinal position.

**2,714,324**  
**WORK-HANDLING MECHANISM FOR A MACHINE TOOL**

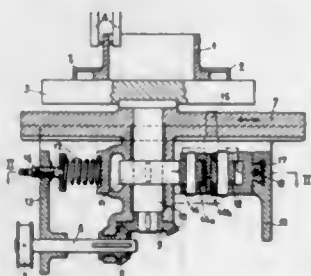
Arthur Sumner Dinsmore and Edwin R. Smith, Seneca Falls, N. Y., assignors to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts

Application July 24, 1952, Serial No. 300,708  
6 Claims. (Cl. 82-2.7)



1. In a work-handling mechanism for a machine tool having an axially-defined working locus, that improvement which comprises a work slide, means to support said slide, means to move said slide downward along a path inclined toward the head end of the machine tool and in a plane parallel to the axis of the working locus, a member mounted on a horizontal pivot on said slide, grippers on said pivoted member for holding an elongated work-piece, and means to give said member rocking movements on said slide and in opposite directions successively and both during continued downward movement of said slide, whereby the work-piece is inserted in driving position in the machine tool.

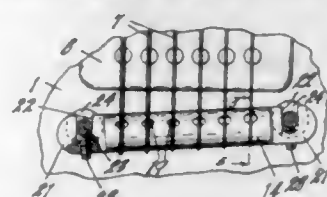
**2,714,325**  
**COPYING TURNER'S LATHE**  
Emile Junker, Zurich, Switzerland  
Application October 3, 1951, Serial No. 249,487  
1 Claim. (Cl. 82-18)



In a copying lathe for machining work pieces, such as non-round piston rings, a frame, guide means on said frame, a slide mounted for reciprocatory movement on said guide means, spring means between said frame and said slide urging the slide in one direction on said guide means, a spindle rotatably mounted in said slide with its axis perpendicular to the direction of movement of said slide, means secured to said spindle for carrying the work piece, a copying cam secured to said spindle, a rocker

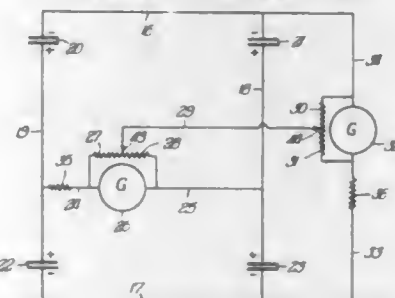
arm, means pivotally connecting said rocker arm to said slide with a pivot axis parallel to the axis of said spindle, a roller rotatably mounted in said rocker arm with its axis of rotation parallel to the axis of said spindle and in a position for engagement with the circumferential surface of said copying cam, an abutment roller in engagement with said rocker arm in a position to counteract said spring means, an abutment surface on said rocker arm for engagement with said abutment roller, the geometrical plane of said surface passing through the pivot axis of said rocker arm, a second slide, means connecting said second slide with said frame, means for adjusting the position of said second slide on said connecting means and means pivotally connecting said abutment roller to said second slide in engagement with said abutment surface and in a position to counteract said spring means, said abutment surface on the rocker arm being parallel to the direction of adjustment of said second slide on said frame in the central position of said rocker arm.

**2,714,326**  
**STRINGED MUSICAL INSTRUMENT OF THE GUITAR TYPE AND COMBINED BRIDGE AND TAILPIECE THEREFOR**  
Theodore M. McCarty, Kalamazoo, Mich., assignor to Gibson, Inc., Kalamazoo, Mich.  
Application January 21, 1953, Serial No. 332,374  
12 Claims. (Cl. 84-299)



1. A stringed musical instrument of the class described including a body and a neck, a bar-like bridge member having a longitudinally and transversely curved string supporting face and having inwardly and rearwardly inclined string bores provided with enlargements at their front ends opening on the front side of the bridge member and adapted to receive anchoring elements of strings disposed on the bridge and wrapped around the rear side thereof and inserted in said string bores, said bridge member having ears at its ends provided with slots opening at their front edges, post sockets mounted on said body in transversely spaced relation and in a plane inclined to the longitudinal plane of the neck, posts threadedly engaging said sockets for vertical adjustment therein and provided with slots in which the ears of said bridge member are disposed with the side edges of the slots in supported engagement with the posts, and bridge adjusting and thrust sustaining screws threaded into said ears to engage said posts.

**2,714,327**  
**PHOTOELECTRIC CELL CIRCUIT**  
Albert R. Squyer and Paul F. Dirksen, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a corporation of Illinois  
Application June 3, 1950, Serial No. 165,962  
21 Claims. (Cl. 88-14)



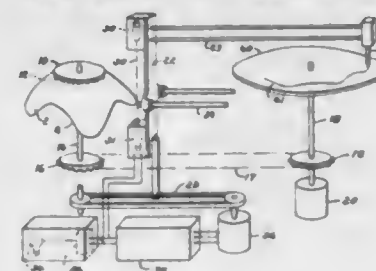
1. In a photoelectric cell circuit, in combination, four photoelectric cells of the barrier layer type arranged to

provide first, second, third, and fourth pairs of said cells, a conductive network having branches connecting like terminals of said cells, a first conductive connection between one pair of branches of said network, a second conductive connection between another pair of branches of said network, a first current responsive device in circuit with said first conductive connection, a second current responsive device in circuit with said second conductive connection, a first resistance shunting said first current responsive device, a second resistance shunting said second current responsive device, a third conductive connection connecting a point on said first resistance to a point on said second resistance, said third conductive connection being common to all of said photoelectric cells, and an output meter in circuit with the third conductive connection common to all of the photoelectric cells.

**2,714,328**  
**APPARATUS AND METHOD FOR TESTING DRAPE OF A FABRIC**

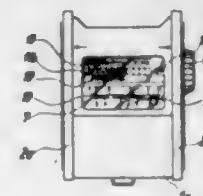
Walter J. Hamburger, Dedham, and Clinton L. Cummings, Natick, Mass., assignors to Fabric Research Laboratories, Inc., Boston, Mass., a corporation of Massachusetts

Application July 28, 1951, Serial No. 239,172  
10 Claims. (Cl. 88-14)



1. Apparatus for testing the drape of a fabric including sample supporting means supporting in a horizontal plane a central portion only of a fabric sample whereby the peripheral edge portion of said sample is not directly supported by said sample supporting means and is free to drape downwardly, follower means mounted for movement toward and away from said sample supporting means and adapted to follow the draped peripheral edge of said sample and determine the horizontal distance between the draped peripheral edge of said sample and said sample supporting means, and means for rotating said sample supporting means and said follower means relatively to one another whereby said follower means will progressively determine said distance.

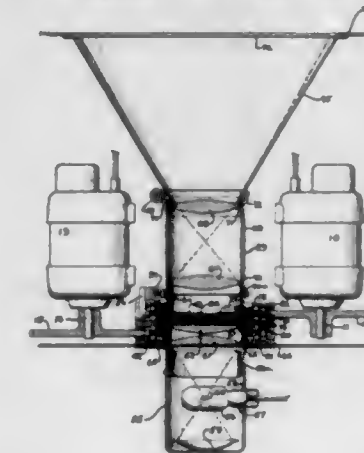
**2,714,329**  
**EXPOSURE METER**  
Erwin Pfaffenberger, Erlangen, Germany, assignor to P. Gossen & Co. G. m. b. H., Erlangen, Germany, a firm  
Application November 23, 1953, Serial No. 393,873  
Claims priority, application Germany November 24, 1952  
4 Claims. (Cl. 88-23)



1. An exposure meter comprising a casing, a light admission window in said casing, a light-sensitive cell exposed to the light admitted through said window, an electric measuring instrument controlled by said cell, a scale and pointer arrangement for indicating the light intensity values measured by said cell, a bi-partite roller mounted for rotation in said casing and comprising an outer control knob, a film sensitivity adjusting member

coaxially and rotatably mounted with respect to said knob, a first roller member provided with a plurality of axial rows of aperture values, the adjacent rows on the roller member being axially displaced against each other by one step each, a second roller member provided with a plurality of light intensity values corresponding to the light intensity values indicated on the scale, said casing being provided with second and third windows for exposing in each position of the roller one row of aperture values and correlated light intensity values, respectively, means including a film sensitivity scale for rotatively displacing and reconnecting the first and second roller members in relation to each other, so as to adjust the exposure meter for different film sensitivities, and a scale comprising at least one row of exposure values provided adjacent to the second window, parallel to the exposed row of aperture values, in such a way that the proper pairs of aperture and correlated exposure values register with each other in case of adjustment, in the third window, of the light intensity value indicated by the pointer and scale arrangement.

**2,714,330**  
**NAVIGATIONAL INDICATING AND POSITION PROJECTION INSTRUMENT**  
Robert E. Frederickson, South Gate, Calif.  
Application August 25, 1952, Serial No. 306,231  
7 Claims. (Cl. 88-24)



1. In a position indicating instrument: a set of rotatable indicating reticles; said set comprising at least one radio compass controllable reticle, a magnetic north indicating reticle, and a magnetic variation indicating reticle; adjustable means coupling said magnetic variation indicating reticle to said magnetic north sensitive reticle; each of said reticles being provided with concentric transparent and opaque portions; each opaque portion on any one reticle corresponding to axially spaced transparent portions on all other reticles of said set, said opaque portion carrying transparent indicating indicia; a transparent map-carrying plate disposed on one side of said set of reticles and spaced axially therefrom; and luminous means for illuminating said set of reticles and projecting luminous images of said transparent indicia onto said map plate, whereby said luminous images may be utilized to facilitate orientation of said map with respect to true north and determination of intersecting lines of position on said map with respect to radio transmitter locations.

**2,714,331**  
**EXTENSIBLE REAR VIEW MIRROR**  
Romeo Plante, St. Evariste Station (Frontenac), Quebec, Canada, assignor to Forsyth Accessories Regd., St. Evariste Station, Quebec, Canada  
Application February 23, 1954, Serial No. 411,869  
2 Claims. (Cl. 88-98)

1. An extensible rear view mirror comprising a cylinder, head members closing each end of said cylinder, one of said head members having a bore extending there-



through, a central tube secured to the other head member and extending within the bore of said first named head member, a piston slidable within said cylinder and surrounding said central tube, a tubular arm secured to said piston and surrounding said central tube, said arm projecting through the bore of said first named head member,



a mirror secured to the projecting end of said arm, and means to selectively feed motive fluid to the part of said cylinder adjacent said last named head member and to said central tube, said tubular arm having openings adjacent said piston to establish communication between said arm and the part of said cylinder adjacent said first named head member.

2,714,332

# RECOIL AMPLIFIER FOR MACHINE GUNS

Erik Sætter-Lassen, Gentofte, near Copenhagen, Denmark

Application September 21, 1950, Serial No. 185,936  
Claims priority, application Denmark November 1, 1949  
4 Claims. (Cl. 89—14)



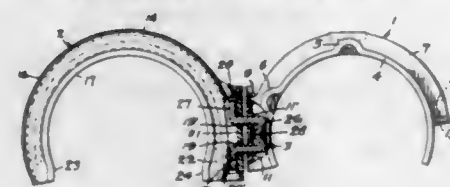
1. A recoil amplifier for a machine gun, said machine gun comprising a receiver and a recoiling breech block slidably disposed in said receiver, a barrel having its rear portion bayonet locked in said breech block by rotation of said barrel through a predetermined angle and a jacket having a reinforced forward portion with a bayonet lock therein and secured at its rear to said receiver, said recoil amplifier comprising: releasable locking means connecting said recoil amplifier to said barrel which locking means permit the barrel to reciprocate longitudinally in regard to said amplifier but prevent the barrel from being turned with regard to said amplifier; and a bayonet locking portion engageable and disengageable with said reinforced forward portion of said jacket by rotation of said recoil amplifier through said predetermined angle.

2,714,333

# LINK METALLIC BELT

Paul H. Dixon, Rockford, Ill., assignor to the United States of America as represented by the Secretary of the Army

Application February 14, 1952, Serial No. 271,564  
4 Claims. (Cl. 89—35)



1. A link metallic belt of the self-disintegrating type composed of a plurality of individual metallic links, each link comprising a shaped inner component of approximately semi-circular contour and having two spaced sub-

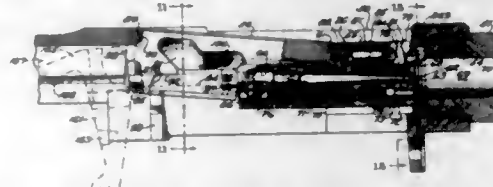
stantially flat shell gripping surfaces, at least one bridge member disposed to join said shell gripping surfaces, an outer component comprising two portions of approximately semi-circular contour having greater diametric dimension than said inner component, a bridge connecting the said outer component portions, and a tab member permanently joining the bridge members in substantial parallel alignment, the said tab member comprising a surface having a conical projection to engage the said inner component bridge member and tongue means extending to engage the outer component bridge, the outer component surrounding the inner component of the next adjacent link of said link belt in assembled condition.

2,714,334

# BREECH BOLT LOCK FOR AUTOMATIC FIREARMS

Earle M. Harvey, Agawam, Mass., assignor to the United States of America as represented by the Secretary of the Army

Application February 11, 1949, Serial No. 75,921  
3 Claims. (Cl. 89—190)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



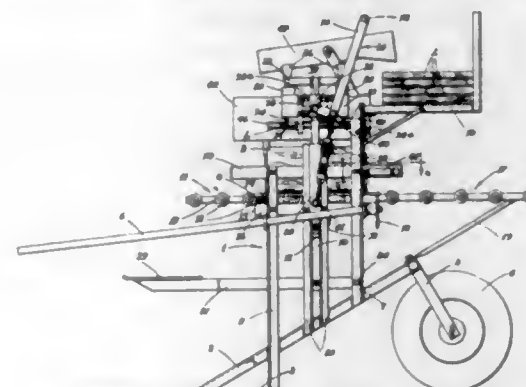
1. In an automatic firearm, a receiver having a locking shoulder, a bolt slidably mounted in the receiver for reciprocating movement between a battery position and a recoil position, a locking block mounted in the receiver for reciprocating movement between a locked battery position and a recoil position, said locking block having a cam groove, means on said locking block pivotally connecting said locking block to said bolt, an operating rod slidably mounted on the receiver, means on said operating rod cooperating with said cam groove to raise said locking block into engagement with said locking shoulder whereby said bolt is locked relative to the receiver in the battery position of said bolt, and means on said receiver cooperating with said locking block for initially raising said locking block into engagement with said locking shoulder.

2,714,335

# PORTABLE BOX LIDDING MACHINE

John G. Koehler, Lodi, Calif.

Application November 16, 1953, Serial No. 392,441  
11 Claims. (Cl. 1—10)



1. A box lidding machine comprising an upstanding frame, an anvil assembly mounted on the frame to support a box for lidding, transversely spaced vertical posts slidably mounted on the frame and normally in a raised position, the anvil assembly being disposed between the posts intermediate their ends, slide collars on the posts in a normally raised position above the anvil assembly, nailing chucks disposed in position to engage a lid on the box upon a down stroke of said slide collars, means

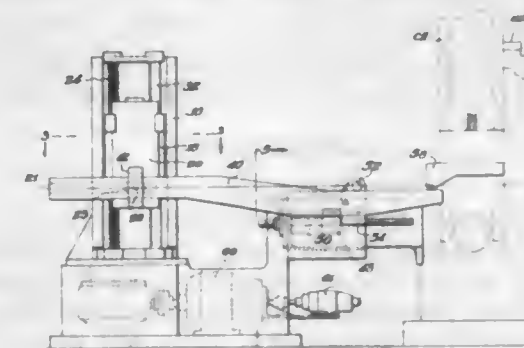
mounting the chucks in fixed connection with the collars, the chucks including normally raised nailing plungers slidable therein, means securing the plungers to the related posts for a down stroke therewith, a throw-over handle unit pivotally connected to the frame and to the collars and arranged for swinging to impart a simultaneous down stroke to said collars and chucks, said handle unit including parallel bellcrank levers disposed at opposite sides of the frame, a cross handle spanning over the frame and connecting between normally upstanding legs of said levers, the other legs of said levers being pivoted to adjacent slide collars, and links pivotally connecting between the knees of the bellcrank levers and points on the frame therebelow; and a depressible foot pedal pivotally connected to the frame and linked to the posts and arranged to impart a simultaneous down stroke to said posts and nailing plungers after the down stroke of said collars and chucks.

2,714,336

# CAM GENERATING MACHINE

Edgar H. Schmidt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application August 23, 1951, Serial No. 243,207  
6 Claims. (Cl. 90—15)



2. In a cam generating machine, in combination with a cam cutting head, a cycloidal generator including a pair of crossheads mounted to move at different velocities between two points of zero velocity, means for driving one of the crossheads at a constant velocity, a rack bar in spaced parallel relation with said driving means, a gear supported in said cycloidal generator and positioned to mesh with and roll on said rack bar, a crank pin carried by said gear for driving the other crosshead at variable velocity while the movement of said pin produces a complete cycloid, a crank pin mounted on the variable velocity crosshead, and a lever bar pivotally mounted in spaced relation from said cycloidal generator with one end thereof controlling the movement of the cutting head and the other end engaging the crank on the variable velocity crosshead to proportion the displacement of the cycloidal generator to the cutting of the cam.

2,714,337

# TRIMMING MACHINE

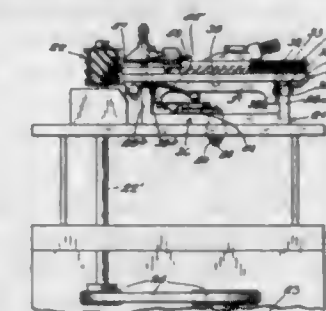
Roy M. Schultz, Chicago, Ill., assignor to Pontiac Engraving & Electrotype Co., Chicago, Ill., a corporation of Illinois

Application January 10, 1952, Serial No. 265,849  
10 Claims. (Cl. 90—19)

1. An apparatus of the class described comprising a frame, a cutter rotatably mounted on said frame, a bed adjustably mounted on said frame for movement to a predetermined position in close proximity to said cutter, a work carrier mounted on said bed for linear relative movement past said cutter, said carrier having a substantially flat work-supporting surface angularly disposed with respect to the direction of travel of said carrier, an elongated clamping bar mounted on said work-supporting surface adjacent said cutter for independent

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movement towards or away from said surface only when said carrier is in a particular position relative to said bed, and a work-sighting device mounted on said bar and disposed intermediate said bar and work-supporting



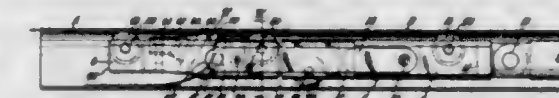
surface and movable independently thereof; said device having a portion thereof adapted to assume a substantially tangential relation with respect to said cutter when said bar is moved away from said supporting surface.

2,714,338

# INSIDE FLASH TRIMMER

Russell E. Nance, Chesterton, Ind.

Application August 13, 1953, Serial No. 374,031  
4 Claims. (Cl. 90—24)



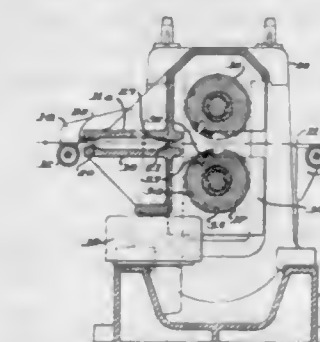
1. Apparatus for trimming a flash bead on the inner surface of a longitudinally welded metal tube which comprises an articulated elongated body adapted to be disposed within the tube so as to permit relative longitudinal motion between the body and the tube, said body including a separate tool shank section and a separate roller carriage section arranged in longitudinal disposition, a pair of spaced rollers rotatively supported by said carriage, said rollers projecting from opposite sides of said carriage and engaging opposite lateral portions of the inner surface of said tube, elongated spring means fixedly attached to said carriage with a portion thereof projecting longitudinally from one end of the carriage, said tool shank being pivotally supported intermediate its length by the projecting portion of said spring means, said tool shank being urged toward the inner surface of said tube by said spring means, a cutting tool adjustably fixed in said tool shank with its cutting edge projecting therefrom a predetermined distance in the plane of said flash bead whereby relative longitudinal motion between said body and said tube results in the trimming of said flash bead by said cutting tool.

2,714,339

# SYSTEM FOR TRIMMING WELDED JOINTS

Franz J. Waldschutz, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 21, 1949, Serial No. 100,381  
10 Claims. (Cl. 90—33)



10. A machine for trimming a flexible metal strip made up of elongated sections butt-welded end to end, comprising a pair of frames, movably mounted on the ma-



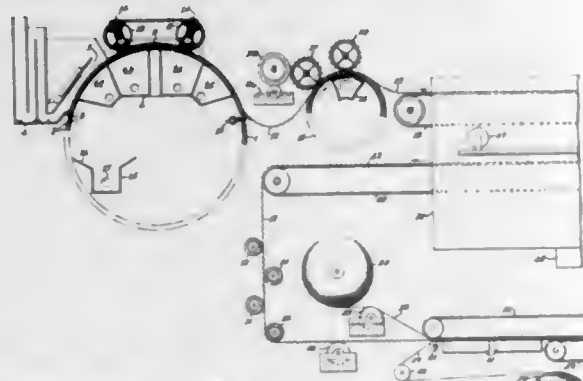
chine a pair of cutting rolls journaled on the respective frames with coplanar axes, a plurality of blade portions on the respective rolls swingable into closely spaced relation for trimming a butt-welded joint across the strip, the leading blade on each roll being located intermediate the ends of the roll and narrow relative to the roll width and projecting radially outwardly at least to the desired maximum depth of cut, each of the succeeding blade portions on each roll extending across the roll and projecting radially outwardly from the axis of the roll a successively greater distance than the preceding blade beginning at a distance intermediate the length of the leading blade and increasing stepwise with the last blade projecting a distance equal to the leading blade, said succeeding blade portions extending in helical herringbone formation across the roll body behind the leading blade, means to rotate the rolls simultaneously in opposite directions to swing corresponding blade portions on the respective rolls concurrently and in the same direction through the plane extending through and between the roll axes, means on opposite sides of said plane for supporting the strip for endwise movement through the rolls and clamping means adjacent the rolls holding the strip in tension against the force of the blades when the cutting rolls are in operation and means on the frames carrying the clamping means and roll means to simultaneously open and close the clamping means and the cutting rolls, whereby variations in strip thickness vary the spacing between the clamping members holding the strip and thereby automatically adjust the spacing between the cutting rolls to accommodate different strip thicknesses.

2,714,340

**CORRUGATED PAPER MACHINE**

Paul Brown, New York, N. Y., assignor to  
Packaging Materials Corporation

Application September 27, 1952, Serial No. 311,856  
13 Claims. (Cl. 92—39)



5. In a machine for molding corrugated paper board the combination of a molding cylinder for forming from paper pulp a self-sustaining corrugated web, and an extracting cylinder arranged to receive said web therefrom, said extracting cylinder having channels in the surface thereof for the corrugations of the web, mechanism associated with said extracting cylinder for simultaneously subjecting the pulp within said channels to a squeezing pressure and a high vacuum, and means operating prior to said squeezing pressure and high vacuum means, said means applying to the outer surface of the pulp web opposite the corrugations thereof a coating of liquid rigidifying material.

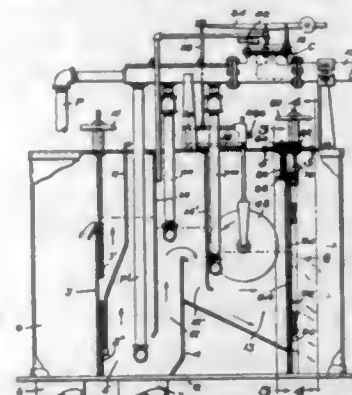
2,714,341

**METHOD AND APPARATUS FOR VOLUME AND CONSISTENCY CONTROL FOR PAPER MAKING STOCK**

Ernest A. Poirier, Waterville, Maine  
Application December 28, 1950, Serial No. 203,122  
5 Claims. (Cl. 92—46)

5. A consistency and volume regulator for paper making stock, comprising a casing having an inlet compart-

ment adapted to receive and hold paper making stock, wiper means supported in the casing to form a control compartment and a restrictor compartment communicating with the inlet compartment, outlet means for discharging paper making material from the control compartment, said outlet means including an adjustable gate mechanism having a plurality of discharge openings formed therein, one above another, said gate mechanism comprising a frame, a closure section vertically slidable



in the frame, said closure section being formed with openings therethrough, a pair of cooperating panels located against the said closure section, means for moving the panels in directions vertically and horizontally of the frame, said closure section being adjustable simultaneously with the cooperating panels and in an opposite direction thereto to vary discharge outlets formed by the panels, and said cooperating panels defining an overflow passageway for overflow stock from the control compartment.

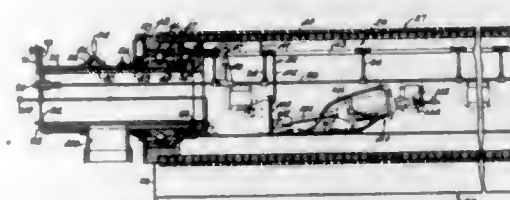
2,714,342

**SUCTION ROLL**

Edward D. Beachler, Beloit, Wis., assignor to Beloit Iron

Works, Beloit, Wis., a corporation of Wisconsin

Application November 2, 1950, Serial No. 193,679  
2 Claims. (Cl. 92—53)



1. In a suction transfer roll for a paper making machine, a stationary suction gland, a cylindrical perforate shell carried by and rotatable about said gland, packing means carried by said gland defining arcuate peripherally adjacent relatively high and low vacuum suction areas at the inner periphery of said shell, a vacuum conduit at one end of said gland for evacuating said high vacuum suction area, a suction control valve in said gland and axially spaced from said vacuum conduit for controlling vacuum communication between said vacuum suction areas, and a seal plate having a valve as a portion thereof extending substantially radially of said shell across the interior of said gland intermediate said vacuum conduit and said control valve, said valve when closed dividing said high vacuum area into axial compartments and interrupting vacuum communication between said high vacuum area and said low vacuum area.

2,714,343

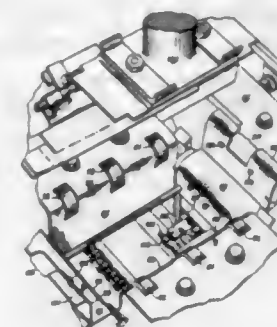
**DEVICES FOR ASSEMBLING FLAT BOX BLANKS INTO HOLLOW FOLDING BOXES**

Thomas R. Baker, Los Altos, Calif., assignor, by mesne assignments, to Baljak Corporation, Wilmington, Del., a corporation of Delaware

Application August 3, 1953, Serial No. 371,883  
9 Claims. (Cl. 93—49)

1. A device for setting up hollow end walls of a box blank having a main panel and squared hollow side walls

along side edges of the main panel, the end walls consisting of an outer end panel articulated to the end of the main panel, a top end panel articulated to the outer end panel, and an inner end panel articulated to the top end panel, the device comprising a pair of opposed first wall engaging elements engaging, and maintaining squared, said hollow side walls; a pair of opposed second wall engaging elements for maintaining said outer end walls



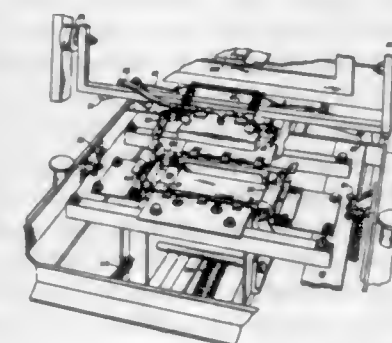
upright with respect to said main panel; a link hingedly mounted with respect to each of said second elements and movable over, and away from, the space above said main panel; a pair of folding blades for engaging said inner end panels, each of said folding blades being hingedly mounted on one of said links; and power means for hingedly moving said links about their hinge axes with regard to said second elements, and for moving said blades with regard to said links, in succession.

2,714,344

**MACHINE FOR THE AUTOMATIC ASSEMBLY OF FOLDING BOXES OF THE HOLLOW-WALLED TYPE**

Thomas R. Baker, Los Altos, Calif., assignor, by mesne assignments, to Baljak Corporation, Wilmington, Del., a corporation of Delaware

Application August 3, 1953, Serial No. 371,977  
11 Claims. (Cl. 93—51)



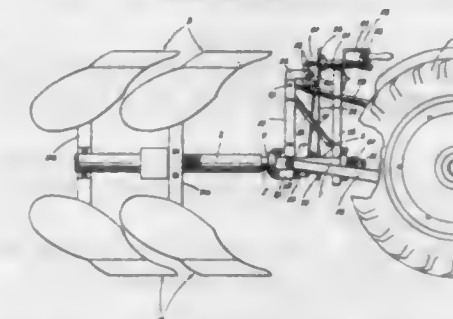
1. A device for setting up hollow-walled folding boxes from flat blanks, the device comprising a plunger and a die, the plunger comprising a central portion having lateral edges spaced less than the distance between the inner side walls of the box, and end extensions of said central portion, said end extensions being spaced apart wider than the distance between the inner end walls of the box and being longer than the distance between said lateral edges, said plunger having recesses between said central portion and said extensions, said recesses being in line with the top end walls of the box; said die comprising side folding members and end folding members constituting a throat into which the blank may be forced by the plunger, said side folding members being spaced not less than the distance between the outer side walls of the box, said end folding members being spaced farther than the distance between the ends of said extensions.

2,714,345

**REVERSIBLE MOLD BOARD PLOW**

Augustus B. Wilkerson and Martin E. Schacht, Fresno, Calif., assignors to Wilkerson & Nutwell, Inc., Fresno, Calif., a corporation of California

Application April 13, 1953, Serial No. 348,214  
8 Claims. (Cl. 97—26)



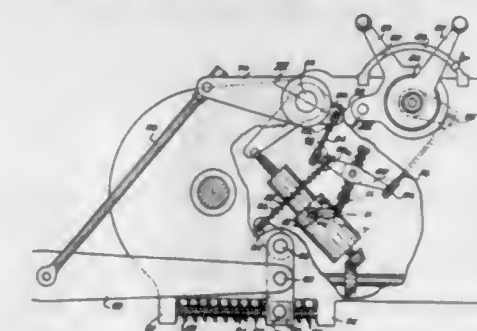
1. A reversible plow implement comprising a mounting frame adapted to be supported for movement along the ground, a longitudinal shaft, journal means securing the shaft on the mounting frame, the shaft projecting rearwardly of said frame, said journal means supporting the shaft for lateral offsetting at the rear to right or left relative to the longitudinal center line of the implement, opposed plow structures secured to and projecting from the shaft rearwardly of the frame, means to part-circle rotate the shaft to selectively dispose either plow structure in depending ground working position with the other plow structure then projecting upwardly in an out-of-use position, and means to cause said lateral offsetting of the rear of the shaft in the direction of throw from the furrow of the plow structure in said depending ground working position; said journal means including a self-aligning bearing on the frame supporting the shaft intermediate its ends, and said last named means including a lateral connection between the frame and shaft in longitudinally spaced relation to said bearing, and said connection being coupled to the shaft in laterally eccentric relation to the axis of the latter.

2,714,346

**HYDRAULICALLY CONTROLLED FARMING IMPLEMENT**

Maurice E. Valin, Versailles, France

Application May 2, 1952, Serial No. 285,733  
Claims priority, application France May 4, 1951  
3 Claims. (Cl. 97—46.07)



1. In an agricultural machine, in combination, an adjustable tool, means for moving the machine over the ground with the tool at a variable position with respect to ground surface; power means and variable delivery pump means driven thereby; fluid-operated means connected with the pump means for operation thereby and with the tool for adjusting position thereof; a control member for controlling effective pump delivery; differential mechanism comprising two movement inputs and a movement output, said control member connected with said output; dynamometer means responsive to the draft force exerted on the tool when the tool is below ground surface; means yieldably connecting said dynamometer means with one of said differential inputs for follow-up response thereof to tool draft force when the tool is below



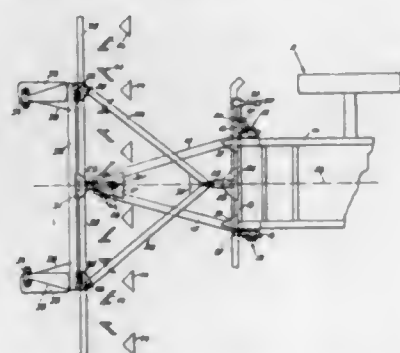
ground surface; lost motion means connecting the tool with said one input for follow-up response thereof to tool elevation when the tool is nearing its uppermost position above ground surface; and hand control means for determining tool position and connected with the other of said inputs.

2,714,347

# SUPPORTING SYSTEM FOR PUSHING AGRICULTURAL IMPLEMENTS BY MEANS OF A VEHICLE

Heinrich G. F. Roessler, Gaggenau, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

Application January 31, 1952, Serial No. 269,220  
3 Claims. (Cl. 97-47.22)

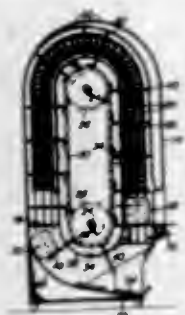


1. The combination comprising a motor vehicle, a substantially triangular supporting frame, an agricultural implement carried by said supporting frame, the base of said triangular frame extending transversely of said vehicle in front thereof, a pair of wheels mounted on said supporting frame, a triangular member having its base hinged to said vehicle in front thereof to be rockable about a transverse horizontal axis, means for mounting the apex of said triangular frame on the base of said triangular member for rocking motion about the centerline of the latter extending at a right angle to said transverse axis, and means for mounting the apex of said triangular member on the base of said triangular frame for rocking motion about said centerline.

2,714,348

# AUTOMATIC TOASTER

Nicholas J. Fokakis, Mobile, Ala.  
Application April 3, 1950, Serial No. 153,640  
2 Claims. (Cl. 99-387)



1. An automatic toaster comprising a vertically elongated housing having a pair of spaced side walls interconnected by a peripheral wall forming front, rear, top and bottom surfaces thereof, a pair of vertically spaced shafts journaled between said side walls and each having a sprocket secured thereto, an endless chain trained over said sprockets, a casing wall disposed between said peripheral wall and said chain and surrounding the latter, a plurality of bread slice guiding frames secured to and extending between said casing and peripheral walls, said casing including a pair of spaced juxtaposed sections affording a slot therebetween, a plurality of heating elements secured to said frames on opposite sides of said slot, a set of elongated bread slice engaging members

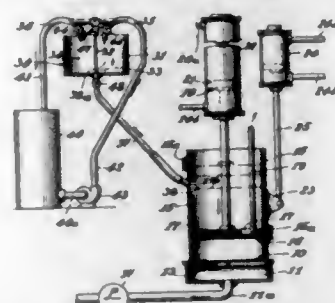
secured at longitudinally spaced points to said chain and radiating outwardly therefrom through the slot in said casing wall and between said heating elements.

2,714,349

# APPARATUS FOR MAKING FILTERMASS CAKES

Harold S. Johnston, Waupaca, Wis., assignor, by mesne assignments, to The Pfaunder Co., Rochester, N. Y., a corporation of New York

Application November 30, 1950, Serial No. 198,278  
1 Claim. (Cl. 100-73)



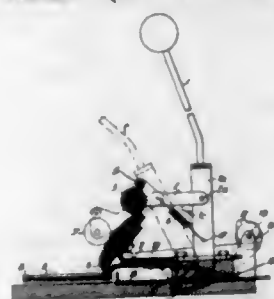
In an apparatus for making filtermass cakes, the combination of a hollow cylindrical casing, means providing a partial vacuum in said casing, a sieve above said casing, the entire lower side of which is exposed to the hollow space of said casing, a cylindrical hollow mold above the sieve resting on said sieve in one of its positions and aligned with said casing to provide a liquid tight joint therewith, means vertically moving said mold, a piston in said mold, means reciprocating said piston the length of its stroke within said mold limited to a stroke of fixed length having an upper limit and a lower limit, said mold having an orifice for supplying a charge of pulp below the piston when the piston is at its upper limit, and means including a measuring container of at least the same capacity as said charge to said mold, a discharge pipe connecting said measuring container with said charge inlet orifice, a pulp supply tank, a first pipe from said tank to the measuring container, a second pipe from said measuring container to said tank, a circulating pump for said first pipe, means connecting said first and second pipes to each other for bypassing said pulp from said measuring tank when said measuring device is emptying into said mold, whereby when said charge of pulp is in the cylinder mold the water of the pulp first drains off, then the pulp is compressed on its upper side to a cake, while a suction acts on the lower side of the cake withdrawing the water through said sieve, whereupon said mold is raised by said moving means to discharge said cake, the mold returned to said sieve, the piston raised above the charge inlet orifice for a new charge, the pulp being at all times in circulation, both when in said measuring container and when by-passed.

2,714,350

# DEVICE FOR PRINTING ADDRESSES

Gerhard Lis, Hamburg-Langenhorn, Germany, assignor to John H. Stielow, Hamburg-Langenhorn, Germany

Application March 18, 1954, Serial No. 417,159  
Claims priority, application Germany May 27, 1953  
4 Claims. (Cl. 101-126)



1. An address printing machine comprising a pivoted actuating lever, an arm pivoted thereto, stop means on

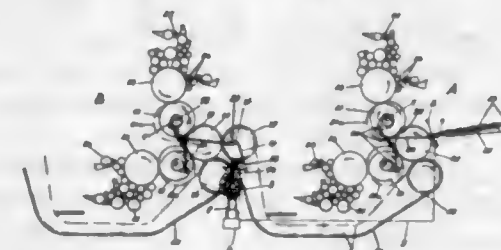
said lever to limit the movement of said arm in one direction, spring means tending to maintain said arm in contact with said stop, an inking pad traversable by said impression roller during the initial depression movement of the actuating lever, said pad having a surface substantially concentric with the axis of said lever so that during said initial movement the arm is not substantially displaced in relation to the lever, a paper support surface, a printing element holder extending forwardly of said inking pad and positioned over the paper support surface, the paper being inserted between said surface and said holder, the arrangement being such that on further depression of the lever the impression roller moves off said inking pad and traverses a printing element mounted in said holder while the arm moves pivotally in relation to said lever against said spring so that the pressure exerted on the printing element is determined solely by said spring.

2,714,351

# CONTROL MECHANISM OF MULTI-COLOUR PRINTING MACHINES HAVING A PLURALITY OF PRINTING UNITS

Werner Koch, Offenbach (Main), Germany, assignor to Faber & Schleicher Aktiengesellschaft, Offenbach (Main), Germany, a corporation of Germany

Application August 18, 1951, Serial No. 242,469  
Claims priority, application Germany August 22, 1950  
5 Claims. (Cl. 101-184)



1. In a multi-colour printing machine comprising a plurality of printing couples having a sheet delivery cylinder in each couple, a tripping device in the first and each successive couple and means including a revoluble control drum driven in fixed relation to the printing mechanism of its pertaining couple for delaying the tripping of the successive couples in relation to the first couple, geared means between said sheet delivery cylinder and said control drum, a plurality of spaced bores extending longitudinally through the said drum, slots in the said bores extending through the outer walls thereof, bolts slidable in the said bores, a cross pin on each of said bolts projecting through its pertaining slot to the outside of said drum, a cam lever arranged for contact with the said cross pins and for thereby moving said bolts out of and into the said bores, means between the said cam lever and its preceding tripping device for actuating the said cam lever simultaneously with the actuation of the said tripping device, a tripping device operating lever cooperating with the projecting ends of said bolts so as to be held inoperative thereby but to operate its pertaining tripping device on the said bolts being retracted by the said cam lever.

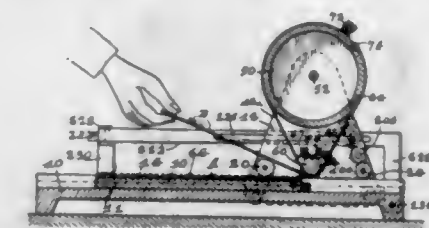
2,714,352

# APPARATUS FOR PREPARING MAKE-READY MATS FOR CURVED PLATES

Stanley M. Rookyard, Verdun, Quebec, Canada  
Application September 18, 1951, Serial No. 247,076  
8 Claims. (Cl. 101-212)

1. An apparatus for printing pre-make-ready back mats for curved plates adapted for use on cylindrical presses, said apparatus comprising, a frame including a horizontal bed adapted to support a printing plate, a carriage mounted on said frame for controlled impression contact travel relative to said bed, co-operating gear means on said carriage and rack means on said frame adapted to guide said carriage during said impression

contact travel, means to actuate said carriage gear means, paper supporting means mounted on said carriage, paper retaining means mounted on said paper supporting means, said paper supporting means being adapted to support a sheet of paper positively retained by said paper retaining means so as to bring said paper into impression contact with a plate bearing a screen ruled impression area and supported on said bed, an impression cylinder mounted for rotation on said carriage co-operating with said paper supporting means adapted to maintain the width of said impression contact area between said paper and said plate

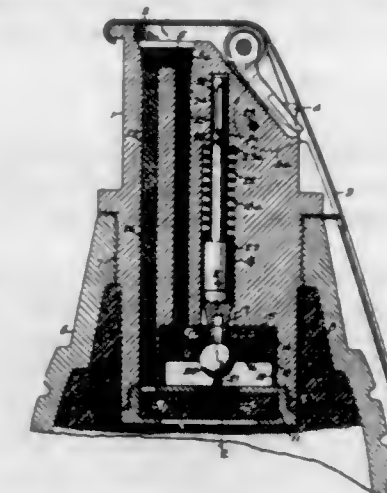


2,714,353

# TIME-IMPACT FUSE FOR HAND GRENADES

Howard W. Greer, Daytona Beach, Fla.

Application January 20, 1950, Serial No. 139,751  
5 Claims. (Cl. 102-72)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



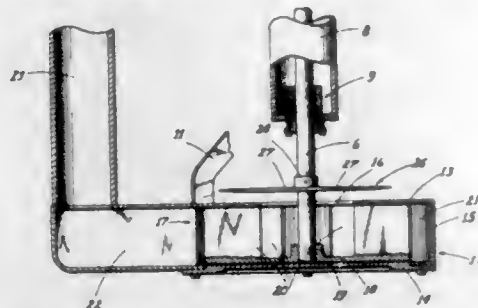
1. In a hollow body forming a hand grenade, a time-impact fuse comprising a bouchon fixed in said body and having a recessed bottom, a first primer received in a recess formed in the upper end of said bouchon, a spring actuated striker pivotally supported on said bouchon and releasable when said grenade is thrown to fire said first primer, a booster received in said recessed bottom and supporting a second primer centrally in the upper surface thereof, a spring loaded firing pin axially slidable in said bouchon in alinement with said second primer, a combustible securing collar received in said recessed bottom and concentric about said firing pin, a spacer ring in said recessed bottom interposed between said booster and said collar, a bar seat integral with said booster and bridging said second primer, a ball releasably spacing said firing pin and said second primer and engaging said bar seat, said ball being releasably supported on said bar seat by said combustible collar, an instantaneous powder train connecting said first primer and said collar, said firing pin maintaining said ball in engagement with said bar seat



upon consumption of said collar, said ball being dislodged at impact to release said firing pin for striking engagement with said second primer, and an elongated time delay train in said bouchon connecting said first primer with said booster.

### 2,714,354 PUMP

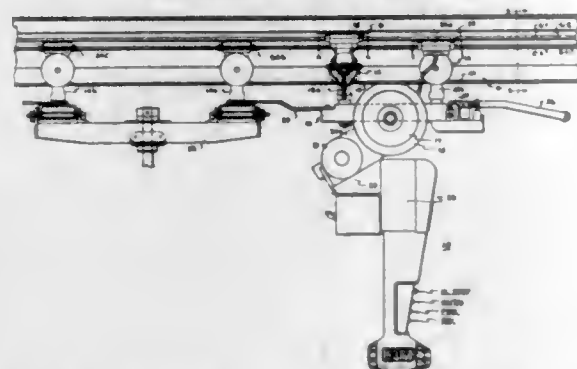
Orrin E. Farrand, Turlock, Calif.  
Application September 8, 1952, Serial No. 308,436  
1 Claim. (Cl. 103—111)



A pump for use in a sump comprising a housing having a horizontal flat upper face, a circular intake opening in said face and a discharge opening from the side of the housing, a vertical axis impeller in the housing, an upstanding impeller-drive shaft projecting into the housing through the opening, a fixed member above and spaced from the housing face and providing a bearing for the shaft, a spider connecting said member and the housing and having circumferentially spaced vertically extending legs upstanding from the upper face of the housing, and a horizontal rotary cutter fixed on the shaft within the spider adjacent the upper face of the housing, the rotary cutter having substantially radial blades the tips of which move in a path sufficiently close to the adjacent portion of the spider legs that the latter provide stationary abutments cooperating with the tips of the blades; the periphery of the intake opening lying a considerable distance radially inward from the lower end of the spider legs.

### 2,714,355 CONVEYOR DISPATCH SYSTEM

Alfred D. Benson, Detroit, Mich., assignor to Mechanical Handling Systems Inc., Detroit, Mich., a corporation of Michigan  
Application May 2, 1946, Serial No. 666,609  
46 Claims. (Cl. 104—88)

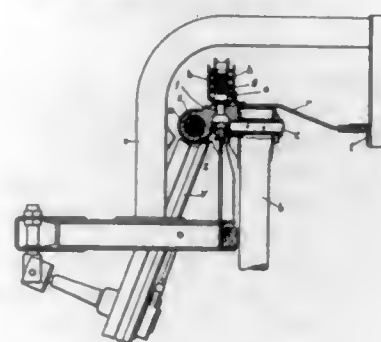


29. In a conveyor system of the type wherein self-propelled electrically powered driving units travel along endless connecting unidirectional conveyor lines and have a plurality of possible destinations in such lines along a plurality of routes, and wherein the movement of said driving units from given points in said conveyor system to various destinations may require automatically controlled intermittent stopping and starting of said driving units as well as automatically controlled movement of track switches, means for dispatching said driving units to predetermined destinations characterized by a control system including a continuous constantly energized electrical power supply throughout said conveyor lines, collector means associated with each driving unit for receiving

said power, a separate control conductor extending throughout said conveyor lines, separate collector means for contacting said control conductor, said control conductor being provided with a plurality of insulated sections capable of being independently energized and de-energized, a control circuit in each driving unit responsive to the engagement of said latter collector means with a de-energized control section for stopping said driving unit, and a control circuit responsive to the energizing of said control section for starting said driving unit.

### 2,714,356 AERIAL CABLEWAY WITH VEHICLES WITH RUNNING GEAR

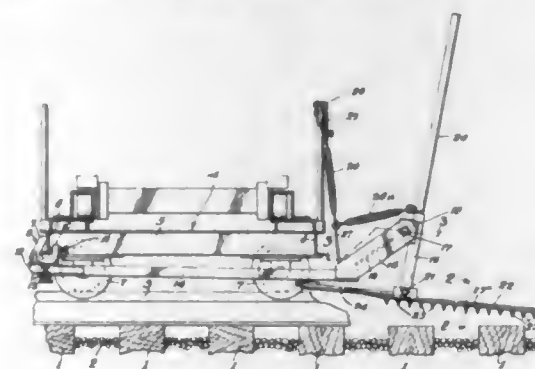
Franz Hunziker, Kussnacht am Rigi, Switzerland  
Application April 29, 1950, Serial No. 158,980  
6 Claims. (Cl. 104—197)



1. In an aerial cableway of the type comprising a single rope secured to a carriage carrier and guided on a pulley rotatably mounted in a stationary support, with wheels in a longitudinally tiltable frame on said carriage carrier adapted to run on a guide rail in said support to maintain the rope out of engagement with said pulley during passage of the carriage carrier past said support, the improvement comprising an extension member at each end of said frame, means pivotally connecting said extension member to said frame on an axis parallel with the axes of said wheels, a shaft in said extension member parallel with the axes of said first mentioned wheels, a wheel rotatably mounted on said shaft for engagement with said guide rail, and yieldable means connected with said frame and with said extension member, whereby said extension member is yieldingly maintained in a predetermined angular position in relation to said frame.

### 2,714,357 PROPELLING UNIT FOR TRACKWORKING EQUIPMENT

Henry H. Talboys, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin  
Application November 7, 1949, Serial No. 125,913  
7 Claims. (Cl. 105—90)

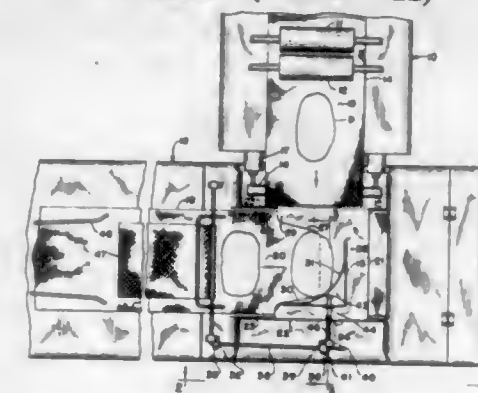


7. A propulsion device for a track-supported vehicle including a track vehicle, a ground-engaging element adapted to receive and support an operator thereon, whereby the weight of the operator is effective to hold said element against unintended movement, a force transmitting linkage connected with said element and with said

vehicle, said linkage including a manually actuatable handle portion having a neutral position and capable of movement in either of two opposite directions, whereby movement of said handle portion in one direction is effective to transmit a pushing force through said linkage to said vehicle and movement in the opposite direction is effective to impart a pulling force through said linkage to said vehicle, means for biasing said element and linkage upwardly with relation to said vehicle, and resilient means for biasing said handle portion toward neutral position in one direction, said element and handle portion being formed and adapted to be biased by gravity toward neutral position in the opposite direction.

### 2,714,358 CROSS GRAIN MOLDER

John A. Boston, York, Pa., assignor to Read Standard Corporation, New York, N. Y., a corporation of Delaware  
Application January 15, 1954, Serial No. 404,295  
5 Claims. (Cl. 107—12)



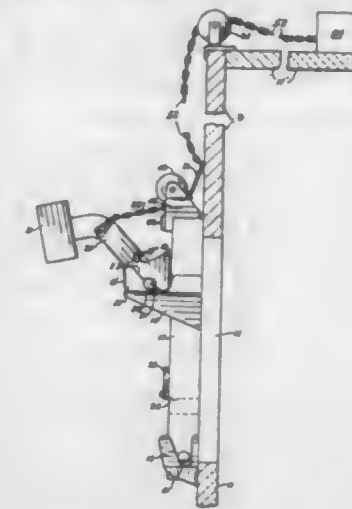
1. A dough molder including, a discharge conveyor for sheeted pieces of dough, a molding belt conveyor traveling in a direction transverse with respect to the direction of travel of said discharge conveyor and being disposed to receive sheeted pieces of dough projected crosswise thereof from said discharge conveyor, a stop member overlying said molding belt conveyor across the path of sheeted dough pieces projected from said discharge conveyor, supporting structure for said stop member including an arm over and extending in a direction crosswise of said molding belt conveyor and means carried by said arm for movement axially therealong pendently supporting said stop member for movement therewith, and resilient means carried by said supporting structure cooperating with said last named means to effect yieldable movement of said stop member upon engagement therewith of sheeted dough pieces projected from said discharge conveyor.

### 2,714,359 FURNACE DOOR

Jay J. Seaver, Evanston, Ill.  
Application July 16, 1954, Serial No. 443,818  
14 Claims. (Cl. 110—176)

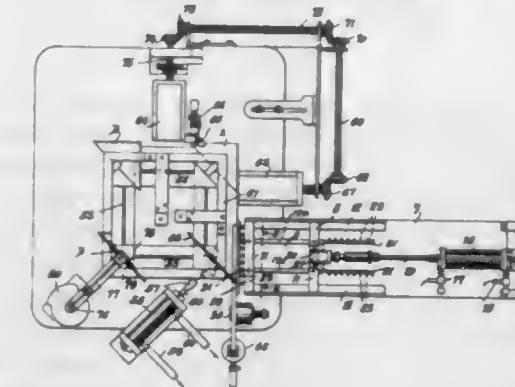
1. A door for use with a furnace having a wall enclosing a combustion space and having an opening formed in said wall for gaining access to said combustion space, said door comprising a panel, a shaft rotatably mounted on said panel in spaced relation to the front face thereof, the opposite ends of said shaft extending laterally beyond the corresponding edges of said panel, a cam on said shaft which is rotatable therewith, a lever arm rotatable with said shaft and angularly forwardly extending therefrom, a weight carried by said lever arm, operating means for disposing said panel in front of said furnace opening to close such opening, said weight exerting a force on said lever arm to rotate said shaft so as to rotate said cam into engagement with an area on the front face of said panel thereby tending to press said shaft outwardly away from said panel, and securing means extend-

ing forwardly from the face of said furnace wall for receiving the respective opposite ends of said shaft when said panel is disposed in front of said furnace opening and for holding said end against outward displacement



away from said panel responsive to the pressure exerted on said shaft by the action of said cam for the purpose of utilizing said pressure to press said panel into sealing engagement with the peripheral portions of the face of said furnace wall defining the opening therein.

2,714,360  
MACHINES FOR MAKING SHOULDER PADS  
Marvin R. Saxby, Tottenville, N. Y., assignor to Machine Enterprise Corporation, New York, N. Y., a corporation of New York  
Application December 16, 1953, Serial No. 398,520  
16 Claims. (Cl. 112—2)



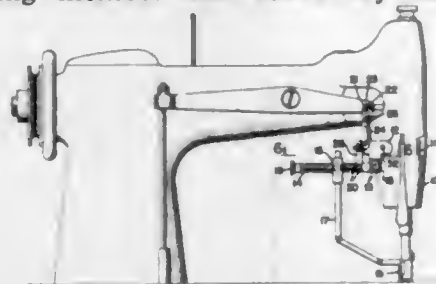
1. An apparatus for making shoulder pads comprising, feeding means including a carrier having a reciprocating and an up and down movement, said carrier having prongs entering penetrable pad material disposed below it, a suction plate to which the pad material is delivered by operation of the carrier, cutting means operative adjacent to the suction plate to sever a section of the pad material and leave the severed section resting upon the suction plate, the suction plate having a slot extending across it, a blade reciprocable above the slot and operative to double the pad material upon itself and force it downwardly through the slot while so doubled upon itself, a clamp disposed below the slot and receiving the doubled material, and stitching means to which the doubled material is conveyed by said clamp.

2,714,361  
GAUGE GUIDE FOR SEWING MACHINE  
David Le Bovit, Newark, N. J.  
Application November 27, 1953, Serial No. 394,733  
4 Claims. (Cl. 112—151)

1. For use with a sewing machine having a presser foot, a gauge guide device comprising a mounting member adapted to be secured to said sewing machine, a guide bar carried by said mounting member, a guide foot carried by said guide bar and positioned to lie sub-



stantially parallel to said presser foot, said guide bar having a cylindrical portion adjacent one end thereof mounted for rotation in said mounting member and having a plurality of circumferentially spaced, shallow, concavely-curved depressions in the cylindrical contour thereof, and spring-urged detent means receivable in said mounting member and selectively engageable in



any of said depressions and disengageable from said depressions by rotation of said guide bar to cam said detent means up along the shallow concave curve of said depressions, said detent means maintaining said guide bar in any of a plurality of positions of angular adjustment and maintaining said guide foot in any of a plurality of positions of elevational adjustment relative to said presser foot.

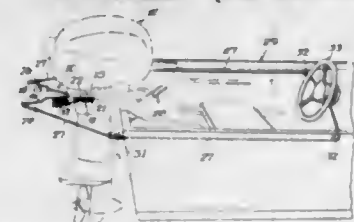
2,714,362

## STEERING ADAPTOR ASSEMBLY FOR OUTBOARD MOTORS

Simon E. Schroeder, Oshkosh, Wis.

Application May 28, 1952, Serial No. 290,402

4 Claims. (Cl. 115-18)



1. In combination, an outboard motor and mechanism mounted on said outboard motor and connected to a tiller rope for remote steering of an outboard motor boat, said mechanism comprising a plate rigidly secured to said motor and a pair of tension members each connected adjacent one end to the plate and its other end projecting to the rear of said motor and to which other end an end of said tiller rope is attached and drawn taut to exert a pull on said tension member, said plate being provided with spaced lugs one of which is provided with an opening for receiving the adjacent end of a tension member and the other adapted to overlie said tension member when in assembled relation for transmitting movement of the tension member to the plate and motor to alter the position of said motor for steering.

2,714,363

## APPARATUS FOR THE PRODUCTION OF MAGNETIC SOUND RECORDING TAPE

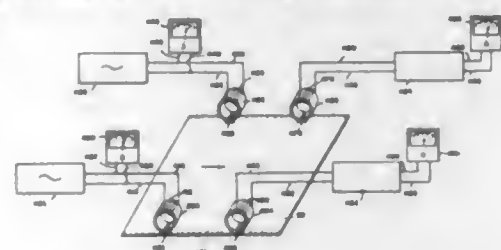
William C. Speed, Riverside, and James J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y., a corporation of New York

Original application December 21, 1950, Serial No. 201,981. Divided and this application December 29, 1951, Serial No. 269,372

12 Claims. (Cl. 118-9)

1. In apparatus for producing magnetic sound-recording and sound-reproducing tape by passing a relatively long and narrow tape base successively through a coating machine and a drying machine, one side only of the tape base being coated with a layer of free-flowing dispersion of magnetic material while moving through the coating machine and the coating being dried while moving through the drying machine, the improvement comprising magnetic charging means in the path of travel of but normally out of physical contact with the at least partially dried coated tape base to energize the coating, magnetic pickup means in the path of travel of but normally out of

physical contact with the magnetically energized tape base to determine its field strength and hence to determine whether the coating has a predetermined thickness, and adjusting means at the coating machine for adjusting the



thickness of the layer of magnetic material deposited on the tape base by the coating machine until the field strength of the magnetically energized advancing tape base indicates a coating of such predetermined thickness.

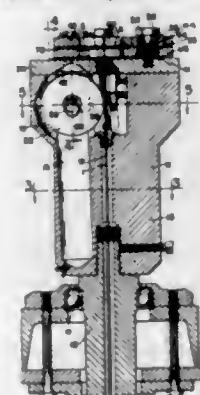
2,714,364

## STRIPING MACHINE

Robert A. Donnan, Worcester, Mass., assignor to Surprenant Mfg. Co., Boston, Mass.

Application August 15, 1951, Serial No. 242,009

12 Claims. (Cl. 118-222)



1. In a striping machine having a vertical axis along which moves a wire to be striped during operation of the machine, a head mounted for rotation about said axis comprising at least three ink compartments radiating from said axis, driving means to rotate the head about said axis, a cover plate secured to said head over said compartments, a pivot corresponding to each compartment fixed to and extending upwardly from said plate and parallel to said axis, a plurality of similar striping units, one unit for each pivot, each unit comprising a bearing movable angularly on the associated pivot in a plane perpendicular to said axis and a striping disk below said plate in the associated compartment rotatable on the unit having part of the periphery thereof moved either toward or away from said axis by the unit as the latter turns on the pivot therefor relative to said head, depending upon the direction of turning of the unit on the pivot, the angular distance from any disk to the disk on either side thereof measured around said axis being less than 180 degrees, an equalizer above said plate connected directly to said bearings and moving angularly around said vertical axis when the bearings turn on their respective pivots, and means cooperating with the equalizer tending to move said equalizer angularly around said vertical axis to turn all of the units on their pivots in a direction to move the striping disks toward the same position along said axis.

2,714,365

## APPARATUS FOR APPLYING LIQUID TO CORRUGATED SHEET MATERIAL

Tom Rowlands, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company

Application January 23, 1953, Serial No. 332,799

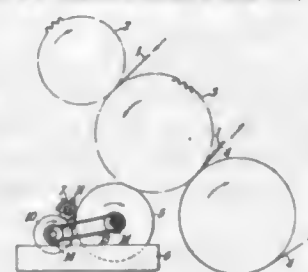
Claims priority, application Great Britain

February 6, 1952

1 Claim. (Cl. 118-262)

A device for regulating the quantity of liquid adhesive supplied to an applying roller, comprising a regulating

roller whose operative surface has grooves extending transversely of its direction of movement, and raised portions between said grooves, the arrangement being such that on rotation of the regulating roller the said raised portions touch in succession the adhesive-carrying surface of the applying roller while moving in the same general direction as the latter surface, means to supply



adhesive to that part of the surface of the applying roller which is moving towards the position at which a raised portion of the regulating roller touches the applying roller, and means to vary the speed of rotation of the regulating roller so as to vary the quantity of adhesive carried beyond the regulating roller on the surface of the applying roller.

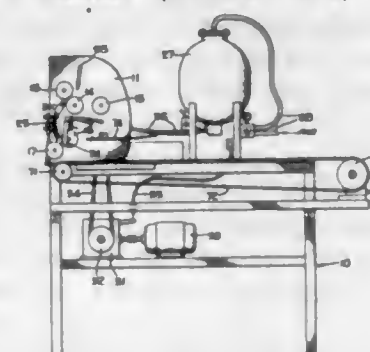
2,714,366

## APPARATUS FOR APPLYING ADHESIVE TO BRAKE LINING SEGMENTS

Oscar A. Hoffman, Altadena, Calif.

Application March 30, 1954, Serial No. 419,653

3 Claims. (Cl. 118-410)



1. A machine for applying viscous liquid adhesive to arcuate brake lining segments, which comprises inlet and outlet pairs of power driven feed rolls, said pairs of feed rolls being spaced from each other a distance less than the length of each of said segments and being adapted to pass said segments sequentially and longitudinally along an arc having the same curvature as that of said segments, guide skid means disposed between said pairs of feed rolls and adapted to frictionally receive said segments, and nozzle means disposed on the opposite side of said outlet pair of feed rolls from said guide skid means, said nozzle means being in wiping engagement with the interior surface of the segment passing adjacent thereto and being adapted to deposit said viscous liquid on said interior surface.

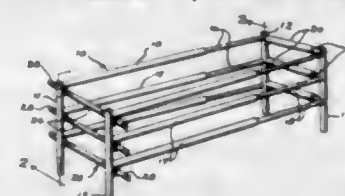
2,714,367

## ANIMAL PEN STRUCTURE

Charles A. Arnold, Whitewater, Wis.

Application September 12, 1952, Serial No. 309,339

2 Claims. (Cl. 119-27)



1. An animal pen structure comprising a first pair of posts arranged in longitudinal aligned spaced relation, at least two members arranged in end to end relation positioned longitudinally of and between said posts and con-

nected to said posts and to each other for longitudinal extensile and contractile movement, a second pair of posts arranged in longitudinal spaced relation with respect to each other positioned in parallel spaced relation with respect to said first pair of posts, at least two other members arranged in end to end relation positioned longitudinally of and between said second pair of posts and connected to the last mentioned posts and to each other for longitudinal extensile and contractile movement, at least two further members arranged in end to end relation positioned transversely of and between adjacent posts of said first and second named pairs of posts and connected to said adjacent posts and to each other for transverse extensile and contractile movement, a plurality of supporting elements arranged in spaced relation along each of the other adjacent posts of said first and second named pairs of posts, a gate extending transversely of and between the other adjacent posts of said first and second named pairs of posts, said gate including spaced bar members each having the end portions slidably supported in the adjacent supporting elements of said other adjacent posts of said first and second named pairs of posts, and means for locking the bar members in position.

2,714,368

## CALF FEEDING DEVICES

Herbert L. Voigt and Raymond N. Sellon, Jr., Milwaukee, Wis., assignors to Geuder, Paeschke &amp; Frey Co., Milwaukee, Wis., a corporation of Wisconsin

Application May 1, 1953, Serial No. 352,560

1 Claim. (Cl. 119-71)



A feeding pail having an outlet formed by a ferrule secured thereto, said ferrule having an elongated cylindrical opening of constant diameter throughout to provide an unobstructed smooth inner surface for engaging the outer surface of a nipple, a rubber nipple fitted within said ferrule and in engagement with said smooth inner surface, said nipple having an open end spaced inwardly of said ferrule, a valve having an elbow shaped body molded of clear plastic and having a neck and inlet leg at substantially right angles to each other, said neck having externally raised sharp edged rings fitted within said open end of said nipple and engaging the inner surface of said ferrule, said neck extending within the confines of said ferrule whereby said neck and said smooth inner surface of said ferrule squeeze said nipple therebetween to maintain said nipple and valve in place in said ferrule subject to removal as a unit upon gently rocking and applying withdrawal force inwardly, said inlet leg being externally threaded to hold a cap on the end thereof, ball restraining flanges formed on the inner surface of said valve body at the juncture of said neck and said inlet leg so as to be formed by cores withdrawable from said neck and leg, a cap threadedly connected to said inlet leg and having an inlet opening provided with a valve seat spaced from and spacing said neck, and an opaque ball loosely retained between said cap and said flanges to provide a check for said inlet opening.

2,714,369

## PENCIL SHARPENERS

Glen E. Wimmer, Chicago, Ill.

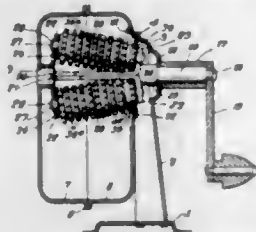
Application January 17, 1952, Serial No. 266,927

1 Claim. (Cl. 120-96)

In a pencil sharpener assembly, a base, a generally upright frame with a housing on it, a pair of cutting

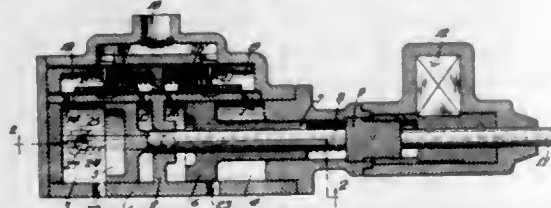


members mounted for rotation as a unit within the housing, each of the cutting members being mounted for individual rotation, the cutting members being disposed at acute angle with respect to each other and defining a conical cutting station between them, the axis of the conical cutting station being generally at right angles to the frame, the cutting members being symmetrically disposed on opposite sides of the axis of the cutting station, the axis of the cutting members intersecting at a point remote to the cutting station, each of the cutting members being composed of and including a plurality of generally flat perforated cutting disks, a central supporting core rotatably supporting the cutting disks in aligned relation, a plurality of cutting teeth spaced peripherally around each of the cutting disks, separate spacing washers between adjacent cutting disks on the core, the washers having a smaller outside diameter than the outside diameter of the cutting disks so as to provide annular clearance space between adjacent cutting disks to provide for chip clearance, each clearance space having generally



the same axial dimension as the cutting disks, the spacing washers on each cutting member where projected laterally, being aligned generally with the cutting disks, when projected laterally, on the other cutting member so that the cutting disks on one cutting member will engage disconnected spaced truncated areas of the cutting station which are opposed to the annular clearance spaces on the other cutting member to effect a staggered disposition of the cutting disks on one cutting member relative to the other, the disconnected spaced truncated areas of the cutting station engaged by the cutting disks of one cutting member alternating with the disconnected spaced truncated areas of the cutting station engaged by the cutting disks on the other, the combination of all of the cutting disks on both cutting members being effective to engage the entire conical periphery of the cutting station, the spacing washers being separate elements from the cutting disks, and means for rotating the cutting members so as to generate a conical path about the cutting station.

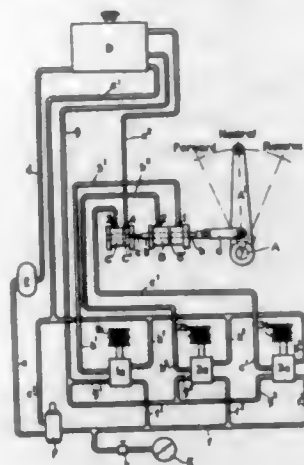
**2,714,370**  
**ROCK DRILL**  
Herbert Jeschke, Duisburg, Germany  
Application May 8, 1951, Serial No. 225,102  
Claims priority, application Germany May 13, 1950  
4 Claims. (Cl. 121—15)



1. Fluid-actuated rock drilling machine, especially for use with drills of high hardness, comprising two separate cylinders coaxially arranged one behind the other, a piston movably arranged in each cylinder, a piston rod connected to each piston, one piston rod being movably contained within the other piston rod and passing through the piston of the latter rod, each set of cylinder and piston forming a separate ram, both pistons being adapted to act upon the same member, a channel conducting compressed driving fluid to each of the cylinders, a valve mechanism in each of the pressure fluid channels to

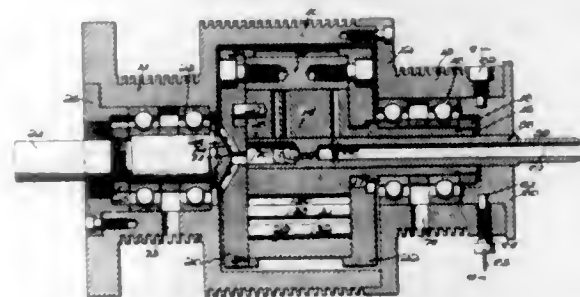
control the pressure fluid supply individually and to cause the pistons to move alternately, and a channel connecting the two cylinders to guide driving fluid from one of the cylinders into the other to pneumatically influence the piston of said other cylinder to secure uniform alternation of the strokes.

**2,714,371**  
**MEANS FOR ACTUATING THE REVERSING MECHANISM OF WEAVING LOOMS**  
Ian Stephen Porter, Barnsley, England  
Application July 5, 1951, Serial No. 235,186  
2 Claims. (Cl. 121—38)



1. In a weaving loom driven through a reversing gear the combination with the shaft which controls the position of the reversing gear of a front cylinder and a rear cylinder arranged in tandem, two pistons one in each cylinder, two piston rods one for each piston, arranged co-axially one behind the other and adapted to abut one against the other, means for connecting the piston rod of the front cylinder to said shaft, a source of fluid pressure, a valve connecting the front of the front cylinder to said source, a second valve connecting the rear of the front cylinder to said source, a third valve connecting the rear of the rear cylinder to the said source, means for controlling said valves, and a reservoir having means for connecting it to said parts of the cylinders when said parts thereof are disconnected from the source of fluid pressure to release fluid from said parts of the cylinders and thereby permit movement of the pistons to their desired positions.

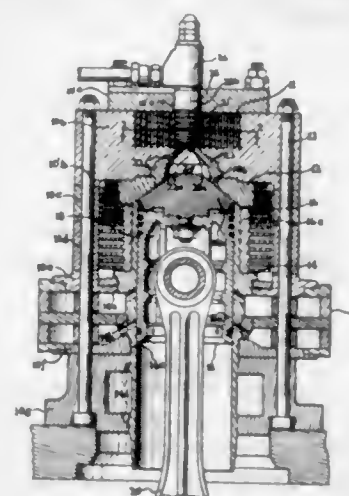
**2,714,372**  
**COMPRESSED FLUID MOTORS**  
Judson Williams, Bensalem, Pa.  
Application December 11, 1952, Serial No. 325,419  
1 Claim. (Cl. 121—57)



Mechanism including a circular head flat at its inner side and provided at its outer side with an axial shaft, an annulus carried by said head and cooperating therewith to provide an outer rotor, a solid cylindrical inner rotor disposed within the outer rotor to abut at its forward end against the flat inner side of the head of the outer rotor and removably separable rearwardly endwise from

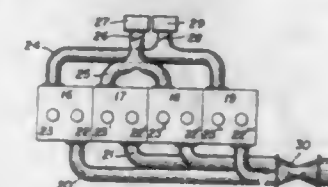
the outer rotor, the inner rotor being provided at its rear end with an axial shaft and being formed with a radial slot closed at its forward end by the flat inner side of the head of the outer rotor, an end plate removably secured to said annulus and overlying the rear end of the inner rotor to retain the inner rotor against rearward endwise separation from the outer rotor and closing the rear end of said slot, the inner side of the head of the outer rotor and the forward circular end of the inner rotor being provided one with a recess and the other with a projecting pin fixed at a single end of the pin to extend at its opposite end into said recess and coact with the peripheral wall thereof coupling the rotors to turn in unison, the projecting end of said pin being inaccessible when the rotors are assembled but being entirely free to permit rearward endwise removal of the inner rotor from the outer rotor without releasing said pin to free the inner rotor for endwise movement, a casing enclosing the rotors, said casing being open at its rear end and provided at its forward end with a bearing sleeve journaling the shaft of the outer rotor, a closure cap removably secured to the open rear end of the casing and provided with a bearing sleeve journaling the shaft of the inner rotor and supporting the inner rotor in eccentric relation to the outer rotor, and a vane pivoted upon said annulus of the outer rotor to slide in said slot of the inner rotor and dividing the area between the rotors into work chambers.

**2,714,373**  
**AIR COOLED COMPRESSION-IGNITION ENGINE AND INJECTOR THEREFOR**  
Ernst Wilhelm Spannake, Chicago Heights, Ill., assignor to Barnes & Reinecke, Inc., Chicago, Ill., a corporation of Delaware  
Application January 30, 1951, Serial No. 208,571  
2 Claims. (Cl. 123—41.31)



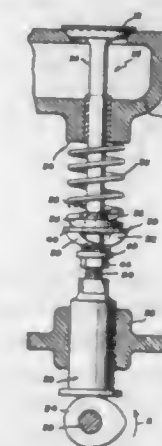
1. In an air cooled compression-ignition engine the improvement comprising, a body defining a cylinder having a fuel inlet passage and an annular seat surrounding the same, the body having a plurality of parallel cooling fins extending outwardly from its surface in the area near the passage, the fins each terminating at substantially the same radial distance from the passage to define a cylindrical space, and an injection nozzle received in the space, the injection nozzle having a sleeve portion with a cavity and a port extending from the cavity to said fuel inlet passage, and a plurality of peripheral fins essentially at right angles to the planes of the first mentioned fins and coextensive with the cylindrical space, the body portion of the injection nozzle seating snugly against said annular seat and defining a good heat conducting path from said seat away from the cylinder and radially outwardly in relation to the port and to the cavity, the injection nozzle further having an injection plunger operative to seat against the cavity in the region of the port and generally displaced from said good heat conducting path.

**2,714,374**  
**FOUR STROKE CYCLE VALVE TIMING**  
Albert Hennig, Kiel, Germany  
Application November 26, 1951, Serial No. 258,139  
Claims priority, application Germany June 26, 1951  
8 Claims. (Cl. 123—59)



1. In a multicylinder combustion engine, each of the cylinders having an intake valve, an exhaust pipe connected to a plurality of cylinders, means for producing a vacuum in the exhaust pipe during the exhaust stroke and a pressure gradient between the exhaust pipe and the intake valve, and a cam for operating the intake valve, said cam having a low level to provide a partial valve opening from a selected point in the exhaust stroke during said production of a vacuum until after the piston has passed upper dead center and a higher level to provide full opening of the intake valve during the last portion of the suction stroke.

**2,714,375**  
**TAPPET VALVE OPERATING MECHANISM**  
Carl R. Hirschberger, United States Navy  
Application September 4, 1952, Serial No. 307,946  
6 Claims. (Cl. 123—90)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



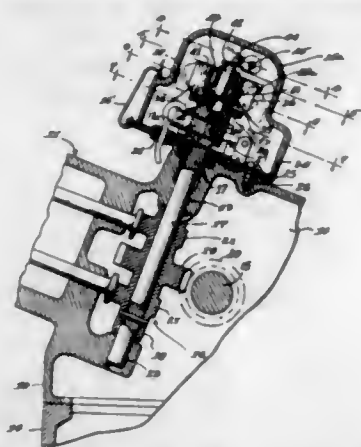
6. A rotator for a tappet valve assembly having, a valve, a valve stem and an axis, a lifting element for lifting the valve, a peripheral element on said valve stem, and a connection between said peripheral element and stem; said rotator comprising a resilient cantilever interposed between the elements through which the force of the lifting element is transmitted to the peripheral element, the free end of said cantilever extending to one side of a plane including the valve axis and the center of the cantilever root, said cantilever root being rigid.

**2,714,376**  
**POWER PLANTS**  
Laurence D. Bakke, Plymouth, and Peter Altman, Detroit, Mich., assignors to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia  
Application November 3, 1951, Serial No. 254,731  
8 Claims. (Cl. 123—195)

1. In an internal combustion engine having a crankcase, a crankshaft supported by the crankcase and a camshaft driven by said crankshaft and supported by the crankcase, said camshaft having an extension projecting through and beyond an external face of said crankcase, a breaker system and governor assembly comprising a breaker system mechanism assembled about the camshaft extension externally of the crankcase and driven by said camshaft, a governor assembly superimposed over said



breaker system mechanism and drivingly secured to the extreme outer end of the camshaft extension, and a single



housing structure secured to the crankcase and enclosing both said breaker system and governor assemblies.

**2,714,377**  
**ARCHERS' BOW**  
Lee Jackson Mulkey, Dallas, Tex.  
Application August 21, 1952, Serial No. 305,653  
5 Claims. (Cl. 124-24)

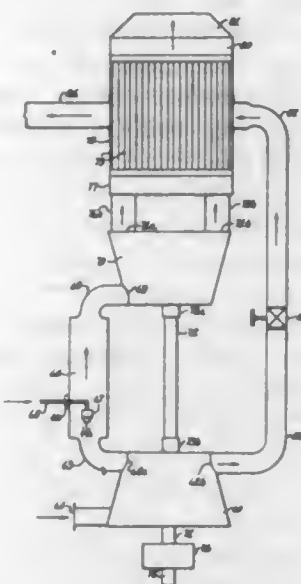


1. An archers' bow comprising an elongate intermediate member; a pair of elongate end members pivoted to opposite ends of said intermediate member and having outer ends movable toward and away from each other; means for biasing said outer ends of said end members away from each other, said means comprising a resilient means for biasing each of said end members mounted on said intermediate member and a pair of mechanical linkages connecting each of said end members to its resilient means for causing a small contracting movement of said resilient means to result in a large outward movement of the outer end of its associated end member and means restricted to sliding displacement in a plane perpendicular to said intermediate member and to which said mechanical linkages are connected to effect equal synchronous displacement of said end members.

**2,714,378**  
**AIR HEATING METHOD**  
Elek K. Benedek, Chicago, Ill., assignor to Porta Products Corporation, Rock Island, Ill., a corporation of Illinois  
Application October 6, 1951, Serial No. 250,169  
2 Claims. (Cl. 126-110)

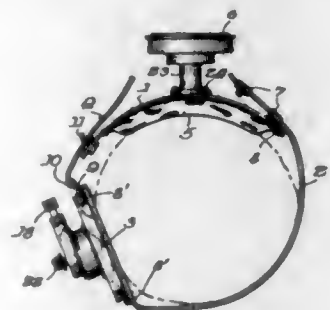
1. A method of heating space at atmospheric pressure with hot atmospheric air, that comprises (a) heating a predetermined amount of air internally to 800-1500° F. by fuel combustion therein at 1½ to 2 atmospheres, (b) adiabatically-expanding said internally heated air obtained in step (a) from 1½ to 2 atmospheres pressure to substantially atmospheric pressure and converting substantially all of the enthalpy thus lost from the air obtained in step (a) to torque energy, (c) compressing atmospheric air to 1½ to 2 atmospheres pressure using sub-

stantially all of said torque energy, (d) withdrawing the predetermined amount of air for step (a) from the compressed air of step (c), (d) adiabatically throttling to substantially atmospheric pressure the air obtained in step (c) remaining after that used for step (a) has been



withdrawn and then bringing said remaining air into heat exchange contact with the adiabatically-expanded air obtained from step (b) to heat said remaining air, and then (e) delivering the heated remaining air into the space to be heated.

**2,714,379**  
**SPHYGMOMANOMETER**  
Thomas A. Raines, Bellwood, Ill., assignor of twenty per cent to Hannah E. Tueffel, twenty per cent to George N. Guerine, twenty per cent to John D. Iacono, and ten per cent to Edmund G. Brust, Jr.  
Application May 26, 1954, Serial No. 432,400  
4 Claims. (Cl. 128-2.05)

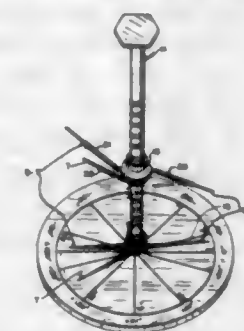


1. A sphygmomanometer, comprising a non-flexible plate, a flexible band adjustably connected at one end to one side of the plate, a casing connected at one side to the remaining end of the band, a pneumatic bag fixedly adjacent the inner side of the plate, impulse registering and indicating means mounted on the outer side of the plate communicating with the bag, a pinion carrying driven shaft mounted in the casing, means in said casing for imparting selectively modulatable rotation to said shaft, a rack bar slidably engaged within said casing meshing with the pinion, and means adjustably connecting the remaining side of the plate to the rack bar.

**2,714,380**  
**SPATIAL VECTOMETER FOR VECTOR-CARDIOGRAPHY**  
Alexander W. Freshman, Denver, Colo.  
Application April 3, 1953, Serial No. 346,610  
8 Claims. (Cl. 128-2.06)

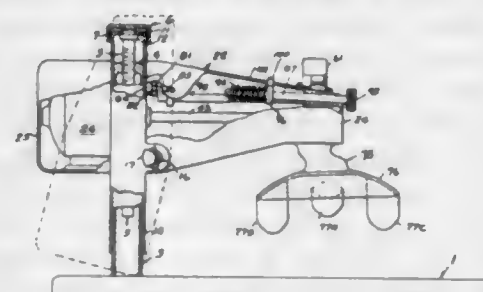
1. An instrument for interpreting an electrocardiogram by the spatial vector method comprising a plate having thereon an axial reference figure for the lead axes in the frontal plane, a rod extending at right angles to the plate

from the axis thereof, vector arms carried by the rod said container having an open end disposed adjacent above the plate, and means for mounting said arms on



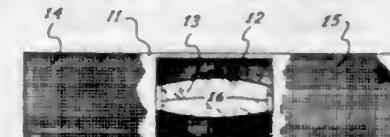
the rod so that each can extend from the rod axis in any direction in any radial plane.

**2,714,381**  
**ABDOMINAL MASSAGING MACHINE**  
Buren L. Corley and Bert T. Insley, San Francisco, Calif.;  
said Insley assignor to said Corley  
Application November 4, 1952, Serial No. 318,706  
12 Claims. (Cl. 128-61)



1. A massaging machine for stimulating action of the colon comprising: a member adapted to engage the abdomen of a person and of sufficient size to cover the area of the abdomen including portions of the ascending colon, transverse colon and the descending colon, said member being provided with a plurality of body engaging elements, means operatively connected with said elements for applying pressure through said elements and against said abdomen at successive points along a generally circular locus and in a direction along said colon from said ascending colon toward said descending colon, means holding said member against rotation for preventing movement of said elements along the length of said locus.

**2,714,382**  
**EMERGENCY BANDAGES**  
Maximino Solis Alcala, Mexico City, Mexico  
Application July 21, 1952, Serial No. 299,939  
3 Claims. (Cl. 128-268)

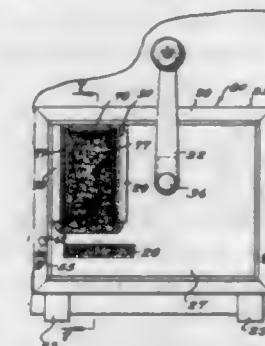


1. In an adhesive bandage of the medical type including an adhesive strip provided with a bandage portion impregnated with a medicinal substance and a removable protective cover for said bandage portion, the improvement comprising an easily breakable capsule containing an antibiotic substance and sewed to said bandage portion.

**2,714,383**  
**CIGARETTE MAKING MACHINE**  
Ming Gee, Boston, Mass.  
Application December 7, 1951, Serial No. 260,374  
2 Claims. (Cl. 131-70)

1. A cigarette making machine comprising a support, a horizontal top plate mounted on said support, said plate being formed with an aperture adapted to receive tobacco, a foldable tobacco container mounted on said top plate,

said container having an open end disposed adjacent said aperture, whereby tobacco may be fed through said open end into said aperture, a conduit member adapted



to receive a paper cigarette tube telescoped thereon, and means secured beneath said top plate in alignment with said aperture for forming and ejecting tobacco through said conduit member.

**2,714,384**  
**PRODUCTION OF CIGARETTES WITH MOUTHPIECES**  
Bernhard Schubert, Hamburg-Sasel, Germany, assignor to Kurt Korber & Co. K. G., Hamburg-Bergedorf, Germany  
Application February 24, 1953, Serial No. 338,360  
Claims priority, application Germany September 8, 1952  
7 Claims. (Cl. 131-94)



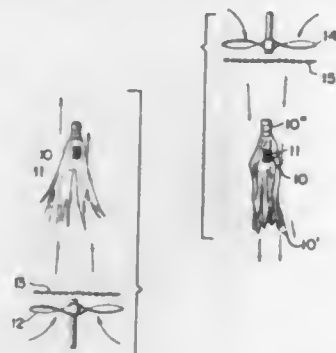
1. In an apparatus for attaching a mouthpiece to a cigarette by wrapping a piece of adhesive tape around the abutting end portions of said mouthpiece and cigarette, a rotatably mounted drum, means for rotating said drum, means on the circumference of said drum for non-rotatably supporting said mouthpiece and cigarette parallel with the axis of said drum and in abutting relation on said piece of adhesive tape with said piece of tape extending to both sides of the joint between said mouthpiece and cigarette, means mounted for radial movement in said drum at each side of said mouthpiece and cigarette, a member pivotally connected to each of said means mounted for radial movement at the outer end thereof, means urging said members into engagement with the outer side of said tape so as to fold said tape around said mouthpiece and cigarette during the outward movement of said means mounted for radial movement, and means associated with said means mounted for radial movement to move first the one at one side of said mouthpiece and cigarette and then the other one for said folding action during the rotation of said drum so as to fold first one end portion of said tape and then the other end portion thereof around said mouthpiece and cigarette.

**2,714,385**  
**METHOD FOR TREATING HEAT CURED TOBACCO**  
Peter F. Jackson, Henderson, N. C.  
Application April 2, 1951, Serial No. 218,799  
5 Claims. (Cl. 131-140)

1. The method of rendering limp, loose, and pliant the leaves of tightly bunched relatively dry hands of completely heat cured tobacco to be subjected to redrying,



comprising suspending such hands, in the tightly bunched condition in which they are presented for redrying, with the leaf tips extending downwardly while avoiding shak-



ing the hands, and directing a current of hot dry air at a temperature of 160-200° F. and a relative humidity of less than 30% upwardly into and about the suspended hands.

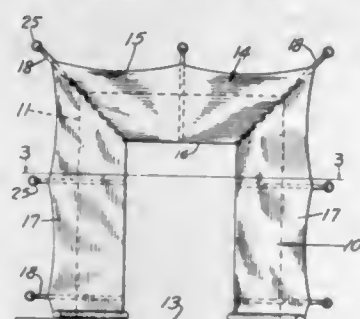
2,714,386

# ENCLOSURE TARPAULIN FOR ENCLOSING VARIABLE SIZED PASSAGEWAYS

Harry G. Worsham, Denver, Colo.

Application June 3, 1952, Serial No. 291,403

1 Claim. (Cl. 135-5)



An enclosure tarpaulin for enclosing a variable sized passageway, comprising a middle panel trapezoidal in shape in which the two non-parallel side edges diverge at similar angles from the shorter of the two parallel edges to the longer of said edges, rectangularly shaped side sections equal in width to the said divergent side edges of the middle panel attached to each of said divergent edges, the longitudinal edges of said middle panel and side sections intersecting, and forming continuous opposite longitudinal edges of different lengths, and a plurality of straps secured to the tarpaulin extending transversely of said side sections parallel to said divergent side edges of the middle panel and projecting beyond opposite longitudinal edges of said side sections.

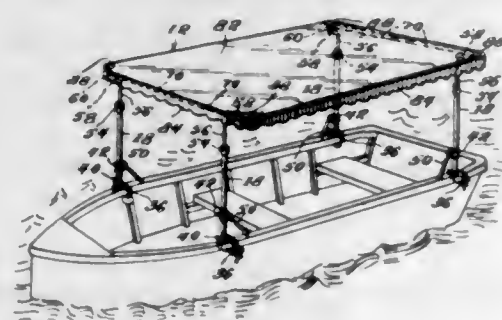
2,714,387

# PORTABLE CANOPY

Clarence B. Meldrum, Detroit, Mich.

Application June 16, 1953, Serial No. 361,965

3 Claims. (Cl. 135-6)



1. A portable canopy for mounting on the sides of a boat, comprising a series of four rectangularly spaced, vertical posts each including an elongated main portion having at its upper end a radial extension disposed perpendicularly to the length of the post and formed at its

outer end with an upwardly extending terminal part, each of said extensions constituting a crank element, for rotation of the main portion of a post through a circular path about the axis of its associated terminal part to selectively locate the lower ends of the posts in respect to said sides of the boat while preserving unchanged the rectangular spacing of the terminal parts; clamp means at the lower ends of the posts engageable with said sides, and a rectangular canopy having at its corners openings registering with and receiving said terminal parts.

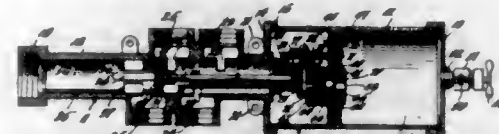
2,714,388

# AUTOMATIC WATER DISTRIBUTORS

John C. F. Malthaner, Monrovia, Calif.

Application January 4, 1950, Serial No. 136,763

20 Claims. (Cl. 137-119)



1. In a device of the class described, a power cylinder, a motor piston member reciprocable within said cylinder, a passageway through said piston member through which pressure fluid may be transferred from one side of said piston member to the other to control the reciprocating movement thereof, a cylindrical valve chamber within the piston member and comprising an enlargement of said passageway, a reciprocable valve in said chamber adapted to cut off flow through said passageway when in one end position of movement and open said passageway to flow of fluid when in the opposite end position, end walls of said valve chamber adapted to stop the valve at the ends of its movements, and resilient buffer silencer elements carried by each end of said valve, a duct in said piston member leading to an end surface of said valve, other ducts in said piston member leading respectively to a high pressure zone in the cylinder and to a low pressure zone therein, a second valve chamber in said piston member, a fluid pressure counter-balanced control valve in said second chamber adapted to alternatively place said first-named duct in communication with said two last-named ducts, and means subject to movement of the piston member in either direction to actuate said control valve.

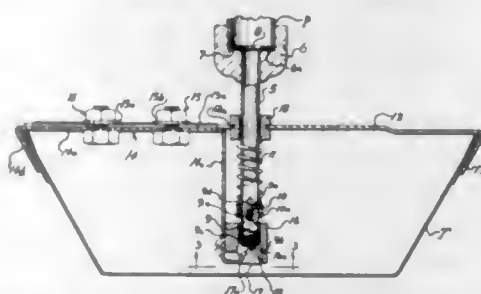
2,714,389

# DRINKING FOUNT FOR POULTRY AND DOMESTIC ANIMALS

John W. Goff, St. Paul, Minn.

Application January 30, 1952, Serial No. 269,014

7 Claims. (Cl. 137-408)



1. A device for supporting fount receptacles and for controlling the supply of liquid to such receptacles having in combination, a vertical support tube, means for removably securing said support tube in vertical position to the discharge end of a depending liquid supply pipe, mounting structure supported upon the intermediate portion of said support tube and including a pair of receptacle-supporting arms extending radially from said support tube, each of said arms having a receptacle-retaining element at the outer end thereof, said elements being adapted to cooperate to engage and support a

receptacle, means for longitudinally adjusting said arms to vary a spaced relation of said receptacle-engaging elements, said tube having a valve therein, mechanism responsive to the amount of liquid in a receptacle supported by said mounting structure for controlling the operation of said valve, a depending arm secured to the medial portion of said mounting structure and extending downwardly to a point below the lower end of said support tube, said support tube having a liquid discharge passage at the lower end thereof and a deflecting and splash-preventing element connected to the lower end of said depending arm directly below said discharge passage for affecting the distribution of liquid discharged, said element having a valve-operating abutment fixed to the lower portion of said depending arm in opposition to the valve controlling mechanism to actuate the same.

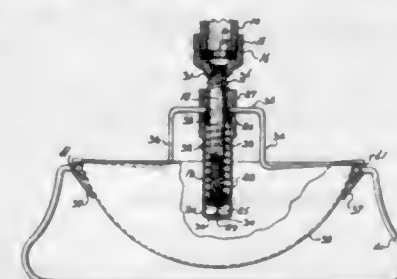
2,714,390

# SUSPENSION MOUNT FOR AUTOMATIC FOUNT

John W. Goff, St. Paul, Minn.

Application October 27, 1952, Serial No. 316,960

9 Claims. (Cl. 137-408)



1. A device for supporting fount receptacles and for controlling the supply of liquid to such receptacles having in combination, a vertical support tube, means for removably securing said support tube in vertical position to the discharge end of a depending liquid supply pipe with the lower end of said support tube overlying the bottom of a receptacle in spaced relation therewith, a valve in the support tube actuable to release liquid from said support tube through the valve, a protective sheath and valve-actuating member having a sleeve portion at the upper end thereof and extending downwardly to completely house the medial and lower end portions of said support tube and valve, a receptacle engaging element secured to the protective sheath and valve-actuating member and extending laterally therefrom, and a mechanism responsive to the amount of liquid in a receptacle supported by the protective sheath and valve-actuating member, said protective sheath and valve-actuating member having at its lower end abutment means for actuating said valve and perforate outlet means for quietly releasing liquid to said receptacle.

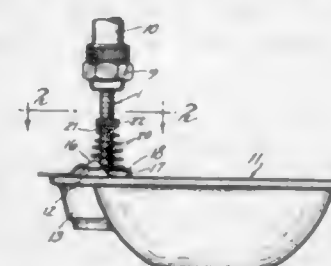
2,714,391

# ANIMAL DRINKING FOUNTAIN

John W. Goff, St. Paul, Minn., assignor to United Screw Products & Mfg. Co., St. Paul, Minn., a corporation of Minnesota

Application November 29, 1954, Serial No. 471,671

5 Claims. (Cl. 137-408)



1. In an animal drinking fountain, a rigid generally vertical water supply tube adapted for fixed mounting and for connection of its upper end portion to a source of water under pressure, a water receptacle pivotally mounted

on said supply tube for swinging movements on a generally horizontal axis above the lower end portion of said tube and having its interior in receiving communication with the lower end portion of said rigid supply tube, the said axis of said swinging movements being laterally offset from the vertical axis of the receptacle so that the weight of fluid in the receptacle will tend to swing the receptacle downwardly about said pivot axis, yielding means urging the receptacle in an upward direction, a self-closing valve within and controlling flow through said tube, said valve comprising a yieldingly outwardly biased valve plunger projecting outwardly from the lower end portion of the conduit section and responsive to inward movements of which the valve is opened, the receptacle having a valve plunger engaging portion movable therewith and oriented to move in the direction of the valve plunger and move the latter inwardly to valve opened position responsive to upward swinging movements of the receptacle from said predetermined position and to move in a direction away from and allow outward movement of the valve plunger to valve closed position responsive to downward swinging movements of the receptacle toward said predetermined position, the value of the yielding force exerted by said yielding means on the receptacle being such that said yielding means will swing the receptacle and a predetermined minimum volume of water upwardly to valve opened position but will yield and allow downward swinging movements of the receptacle to valve closed position under the weight of the receptacle and a predetermined greater volume of water.

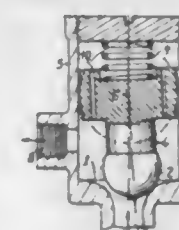
2,714,392

VALVES

Jean Mercier, New York, N. Y.

Application April 8, 1952, Serial No. 281,118

4 Claims. (Cl. 137-514.7)



1. A valve for controlling pressure fluid circulation comprising a seat having the shape of a convex revolution surface, a casing coaxial with said seat, a member movable in said casing constituted by a piston the wall of which has the shape of a portion of a first sphere and the extremity of which, facing said seat, has the shape of a portion of a second sphere of a smaller diameter and eccentric to said first sphere, said piston being mounted in said casing with a fit ensuring frictional damping of the axial vibrations of said movable member under variable fluid pressure conditions, whereby swiveling of said movable member substantially about the center of said first spherical surface allows for radial adjustments of said second spherical surface in respect to said seat.

2,714,393

# AMMONIA SUPPLY SYSTEM

Walter H. Hollinger, Chicago, Ill., assignor to The C. F. Pease Company, Chicago, Ill., a corporation of Delaware

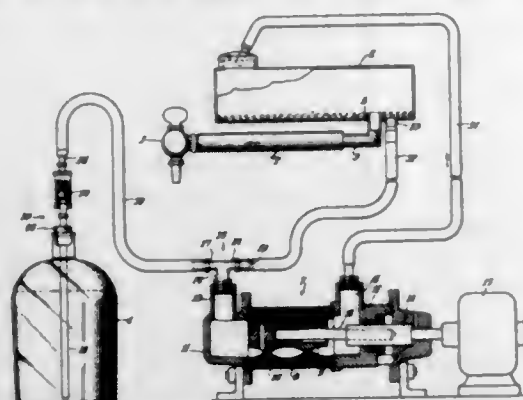
Application October 9, 1952, Serial No. 313,894

3 Claims. (Cl. 137-563)

1. An ammonia supply system for a print developer or the like comprising a reservoir having an inlet and an outlet, said outlet being provided with a trap portion, a drip valve connected to said outlet, a supply container disposed at a lower level than said reservoir, a pump having an inlet, an inlet chamber communicating with



said inlet, and an outlet, means providing communication between said container and said pump inlet, means providing communication between said pump outlet and said reservoir inlet, whereby said pump serves to elevate liquid from said container to said reservoir, and refluxing means extending between said reservoir and said pump inlet, and including a reflux outlet disposed in said reservoir at a level lower than the level of the trap portion of said first mentioned outlet, and means pro-



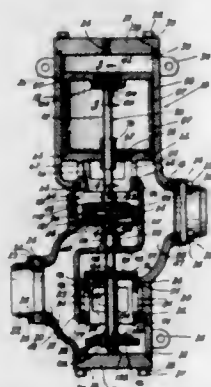
viding communication between said reflux outlet and said pump inlet, said reflux communicating means providing a greater resistance to the passage of liquid than said first mentioned communication providing means whereby said pump, during normal operation, will draw the major portion of its liquid supply from said container, and whereby ammonia is refluxed from said reservoir to said pump inlet when said container is empty to avoid damage to said pump.

2,714,394

## FOUR-WAY CHANGE-OVER VALVE

James A. Moran, St. Louis, Mo., assignor to Alco Valve Company, University City, Mo., a corporation of Missouri

Application March 5, 1951, Serial No. 213,864  
10 Claims. (Cl. 137-625.29)



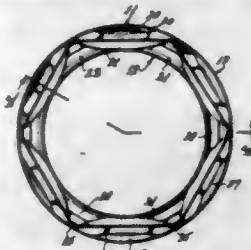
1. In a valve construction, a housing having a main high pressure inlet, a return low pressure outlet, a first working outlet for the passage of fluid through the housing, and a second working outlet for the passage of fluid through the housing, and both of said first and second outlets being separated from one another and including openings in the housing for passage of fluid into and out of the housing, an inlet valve chamber and an outlet valve chamber in said housing, each chamber having a first and a second valve seat, said several valve seats being in coaxial relation with one another, said first working outlet communicating with the first valve seat of the inlet chamber and with the second valve seat of the outlet chamber, said second working outlet communicating with the second valve seat of the inlet chamber and with the first valve seat of the outlet chamber, valve means comprising first and second inlet valve members for the inlet chamber and first and second outlet valve members for the outlet chamber, said valve members for the inlet chamber being disposed interiorly thereof, said valve members for the outlet chamber being disposed exteriorly thereof, said valve means being movable from a first position en-

gaging said first valve members and said first valve seats respectively to a second position engaging said second valve members and said second valve seats respectively, and means for moving said valve means from either position to the other, said moving means comprising a pressure-responsive mechanism separated from said inlet and outlets.

2,714,395

## INNER SPACER FOR DOUBLE WALL VENT PIPE

Saul Epstein, Los Angeles, Calif.  
Application May 24, 1952, Serial No. 289,756  
5 Claims. (Cl. 138-87)



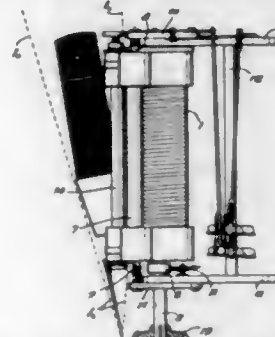
4. A circumferential spacer of generally L-shaped cross-section for disposition between the inner and outer walls of a vent pipe, said spacer having reinforcing dimples along the vertical wall of the L having a side wall continuous with the horizontal wall of the L and notches along the horizontal wall of the L between the dimples for bending the spacer circumferentially.

2,714,396

## WEFT THREADS CARRYING DEVICE FOR CIRCULAR WEAVING LOOMS

Giusto Casati, Barzano, and Carlo Cazzaniga,  
Monticello, Italy

Application July 3, 1951, Serial No. 234,992  
Claims priority, application Italy January 3, 1951  
7 Claims. (Cl. 139-13)



1. A weft thread carrying device for circular weaving looms comprising, a main loom shaft, a magnetic roller, an auxiliary roller adjacent said magnetic roller, a sleeve rotatably mounted on said main shaft, connecting arm means securing said magnetic and auxiliary rollers to said rotatable sleeve, a carriage having two rollers of magnetic material adapted to be located outside the warp threads and almost adherent to said magnetic roller, resilient belts arranged on said two rollers to maintain the latter spaced from said magnetic roller, a funnel adapted to carry a weft thread spool and a V-shaped, bent weft thread guide tapered towards its lower part, an arm whereon said guide is pivoted, and a bar of non-magnetic material to which said arm and funnel are secured and which forms parts of said carriage.

2,714,397

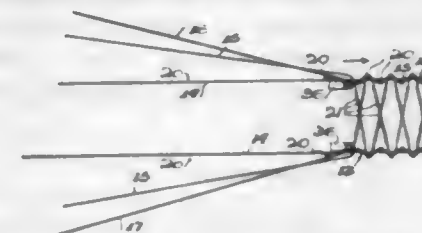
## DEVICE FOR SHIFTING PILE WARP CROSSINGS TOWARD FELL

Clarence L. Morgan, Greenville, S. C., assignor to Belrug Mills of South Carolina, Greenville, S. C., a corporation of South Carolina

Application June 28, 1954, Serial No. 439,535  
8 Claims. (Cl. 139-21)

1. An attachment for a loom including a lay and which is adapted to weave two pile fabrics connected by pile

warp crossings which are to be severed, said attachment including a device to be mounted upon the lay and mov-



able into and out of the shed of the pile warps, said device including means to engage the crossings of the pile warps and shift said crossings toward the fell.

2,714,398

## DEVICE FOR SHIFTING PILE WARP THREADS LATERALLY

Clarence L. Morgan, Greenville, S. C., assignor to Belrug Mills of South Carolina, Greenville, S. C., a corporation of South Carolina

Application October 29, 1954, Serial No. 465,645  
9 Claims. (Cl. 139-21)



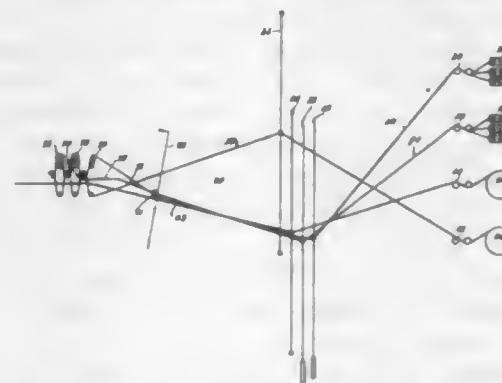
1. A device for use in connection with a loom for weaving two pile fabrics including ground warps and pile warp crossings connecting the fabrics, said loom including a lay, a pressing device mounted upon the lay and arranged near the selvage edges of the fabrics and movable transversely of the fabrics toward and from the selvage edges, said device including contact means arranged exteriorly of the sheds and exteriorly of the selvage edges, and means to move the pressing device inwardly and transversely of the fabrics so that the contact means engages the exterior of the selvage edges and forces them inwardly beyond the normal position so that the ground warps are bent inwardly and the fabrics have a reduced width when the pressing device is holding the selvage edges in the transverse inner position.

2,714,399

## TERRY PILE WEAVING

Frank W. E. Hoesselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, a corporation

Application May 29, 1952, Serial No. 290,733  
28 Claims. (Cl. 139-39)



1. The process of weaving a warp pile fabric, which comprises threading-in at least one pile warp end between spaced binder warp ends per dent to form a bracket, tensioning at least one pile warp end per dent under an abnormally low tension, interweaving with wefts the pile warp ends in opposition to all binder warp ends, and in the weaving forming a shed with slack tensioned pile warp ends down and all binder warp ends up, inserting a weft, and forcing said slack tensioned

pile warp ends up into the pile as they are gripped between the spaced binder warp ends in the same dent by beating up the weft.

2,714,400

## WEAVING WITH WIRE VARIATIONS

John Henry Harding, generally known as Harry J. Harding, Philadelphia, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania  
Application February 25, 1953, Serial No. 338,694  
4 Claims. (Cl. 139-39)



1. The method of weaving a pile fabric, which comprises fully raising selected first pile warp ends, fully lowering selected second pile warp ends, half raising first binder warp ends, lowering second binder warp ends, thus forming an upper shed and a lower shed, inserting a wire of a first series in the upper shed, inserting a shot of weft in the lower shed, fully raising second pile warp ends, fully lowering first pile warp ends, half raising second binder warp ends, lowering first binder warp ends, inserting a wire of a second series in the upper shed, inserting a shot of weft in the lower shed, fully lowering first and second pile warp ends, half raising first binder warp ends, lowering second binder warp ends, thus forming an upper shed and a lower shed, inserting a wire of the first series in the upper shed, inserting a weft in the lower shed, fully raising first pile warp ends, lowering second pile warp ends, half raising second binder warp ends, lowering first binder warp ends, thus forming an upper shed and a lower shed, inserting a wire of the second series in the upper shed, and inserting a shot of weft in the lower shed.

2,714,401

## NARROW WARE LOOM

Allan S. Hutchins, Oakham, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application December 2, 1953, Serial No. 395,747  
7 Claims. (Cl. 139-97)



7. In a narrow ware loom having a source supplying a sheet of warp and having take-up mechanism for the cloth, a tapered roll having an axis transverse of the warp intermediate the source and cloth and around which the warp is wrapped as it passes from the source to the cloth, said roll being mounted for free rotation about said axis and having the effect of creating greater tension in the warp threads at one side of the sheet of warp threads than in the warp threads on the opposite side of the sheet, the take-up mechanism drawing the warp from the source around and against said tapered roll.

2,714,402

## LUG STRAP SUPPORT HANGERS

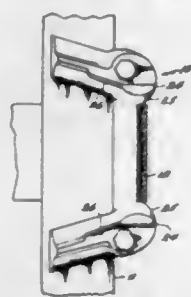
William H. Drake, Rome, Ga.

Application July 7, 1954, Serial No. 441,717  
4 Claims. (Cl. 139-154)

1. A picker stick lug strap support hanger formed in two substantially identical halves, each of said halves



comprising an elongated quarter round base member having a spaced pair of integral rearwardly extending clamping members, one at each end, and a spaced pair of integral laterally extending guide lugs, one at each end, said clamping members having a plurality of teeth projecting

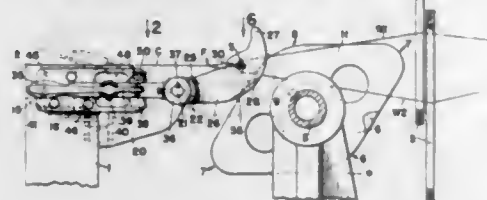


outwardly from their inner clamping surfaces; and means for securing the halves together with their clamping members tightly engaging opposite sides of the picker stick with the laterally extending guide lugs forming, with the base members, a channel adapted to receive and support the lug strap.

2,714,403

**LOOM OPERATING WITH GRIPPER SHUTTLE**  
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application April 1, 1953, Serial No. 346,120  
10 Claims. (Cl. 139-188)

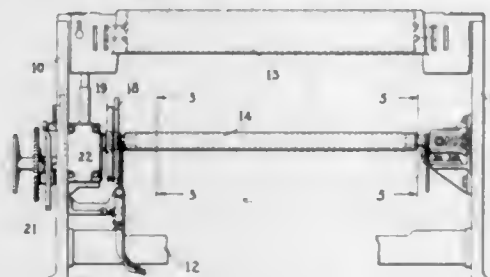


1. In a loom operating with a stationary weft supply and a gripper shuttle to introduce weft from the supply into a warp shed formed by top and bottom sheets of warp threads, a beat-up reed having spaced reed dents, a plurality of thin shuttle guiding plates having parts thereof permanently located between the reed dents and formed with aligned shuttle guiding holes to provide a guideway for the shuttle through the warp shed, each plate having a thread slot therein opening from the hole therein toward the fell of the cloth, and means to move the reed to cause the latter to move a thread left in the guideway by the shuttle forwardly out of said holes and through said thread slots to the fell of the cloth while said guiding plates are located between said dents.

2,714,404

**CLOTH ROLL SUPPORT MEANS FOR LOOMS**  
George Cadorette, Hopedale, and Harry William Thatcher, Mendon, Mass., assignors to The Draper Corporation, Hopedale, Mass., a corporation of Maine

Application May 5, 1954, Serial No. 427,720  
8 Claims. (Cl. 139-304)



1. In a loom having a take-up roll and a cloth roll upon which fabric is wound and means for supporting and rotating said cloth roll at one end and other means at the opposite end of the roll for supporting it while permitting its free rotation, said last mentioned means being

axially displaceable for disengagement of the roll, a fixed track member for supporting the roll end when released, and lever means at the roll end first mentioned for moving the roll axially to disengage it from its supporting and rotating means and having a track means within which the roll end is sustained and guided when released by said axial disengaging movement.

2,714,405

**PILE CARPET**

Frank W. E. Hoeselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, a corporation  
Original application June 19, 1950, Serial No. 168,960.  
Divided and this application November 19, 1951, Serial No. 257,006

7 Claims. (Cl. 139-403)



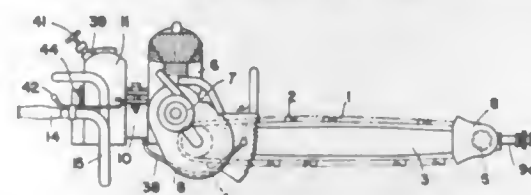
1. A pile carpet having at least one pile warp, at least one stuffer warp, binder warps and wefts interwoven together with a closeness of weave in excess of seven rows per inch, the same pile warp at one set of alternate transverse rows of pile having pairs of cut pile tufts which vary in height in the same transverse row and at another set of alternate transverse rows of pile having uncut pile loops which vary in height in the same transverse row and appear in the pile between the tufts, the high points of the tufts at least in part masking the low points of the loops.

2,714,406

**PORTABLE CHAIN SAW**

Donald J. Smith, Worcester, Mass., assignor to Reed-Prentice Corporation, Worcester, Mass., a corporation of Massachusetts

Application March 30, 1951, Serial No. 218,379  
5 Claims. (Cl. 143-32)



1. A portable chain saw comprising in combination, a first unit consisting of a chain saw and an internal combustion engine connected to said saw for driving the same, a second unit consisting of a fuel tank, a carburetor connected thereto, a lubricant reservoir, and means for supporting the unit with the fuel tank and carburetor in an upright position, a swivel connection between said units, means for clamping said swivel connection for supporting the saw and engine unit in any desired angular position with respect to the tank and carburetor unit, from which the fuel mixture passes to the engine through said swivel connection, and means for conducting lubricant from said reservoir through said swivel connection to a point on said saw.

2,714,407

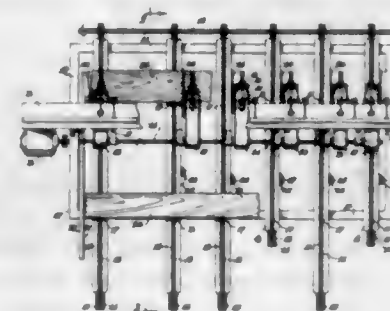
**DROP SAW LUMBER TRIMMING MACHINE**

Harry C. Pearson, Portland, Oreg., assignor to Portland Iron Works, Portland, Oreg., a corporation of Oregon

Application December 26, 1951, Serial No. 263,381  
13 Claims. (Cl. 143-41)

5. In a lumber trimming machine adapted for trimming lumber of random lengths to predetermined maximum lengths having a base saw and a plurality of ad-

justably mounted driven saws having operative and inoperative positions spaced at said predetermined lengths from said base saw, means for advancing individual pieces of lumber in a parallel, spaced-apart relation in a horizontal plane and in a direction at right angles to the longitudinal direction of the lumber and with said pieces being positioned to be trimmed closely adjacent one end thereof by said base saw, and individual actuating means operatively connected to each of said plurality of saws for independently moving the associated saw from one



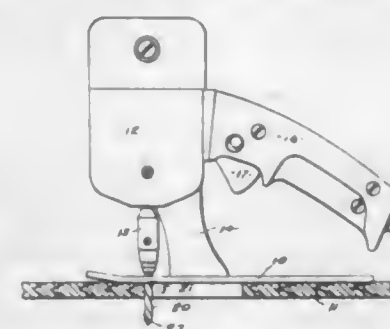
of said positions to the other; the invention comprising means for sensing the length of said individual pieces as they advance toward said saws, and means responsive to said sensing means for energizing certain of said actuating means whereby any saws in an operative position between said base saw and the saw most remote from said base saw intercepted by an advancing piece will be moved to an inoperative position and said most remote saw will be moved to an operative position if not already in such position.

2,714,408

**SCROLL CUTTING TOOL**

Dane Harald Pedersen, Camillus, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a corporation of New York

Application December 28, 1953, Serial No. 400,410  
4 Claims. (Cl. 144-134)



1. A hand manipulated, power operated, scroll cutting tool comprising a base plate adapted to be positioned on the work piece, a housing mounted on the plate, a spindle journaled vertically in the housing and having a cutter chuck, a cutter carried by said chuck and extending downwardly through the plate, and a guide pin depending from the under side of said plate and arranged in proximity to the cutter.

2,714,409

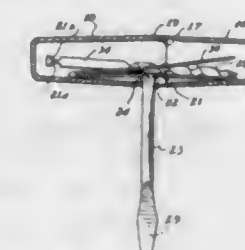
**TOOL HANDLE**

Frank W. Primrose, Brooklyn, and Gilbert Adamec, Bronx, N. Y.; said Adamec assignor to said Primrose

Application March 16, 1953, Serial No. 342,316  
1 Claim. (Cl. 145-62)

A tool handle comprising separable hollow handle parts, one of said handle parts having a closed end, an externally threaded open end and a slot extending inwardly from the open end, a rib portion extending inwardly along one side of the slot, the second of said handle parts having a closed end and an internally threaded open end adapted to mate with the threaded end

of said first handle part, and a tool element having a hook formation extendable into the slot and over the inwardly extending rib, said hook formation having a depressed retaining portion adapted to be sprung over the rib, said rib having an end shoulder face over which

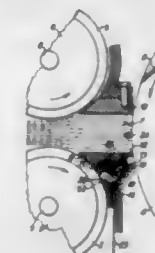


the retaining portion is seated when the tool element is extended into the end of the slot and said tool element having a shoulder engaging with the outer surface of the handle part to prevent the inward displacement of the tool element.

2,714,410

**SHEARABLE COUNTER KNIFE**

Georg Möller, Geesthacht, Germany  
Application September 4, 1952, Serial No. 307,820  
3 Claims. (Cl. 146-119)



1. A tobacco cutting machine comprising a frame, a cutter drum rotatably mounted in said frame, at least one knife mounted longitudinally of the periphery of said drum, a substantially rectangular mouthpiece having upper and lower jaws mounted adjacent the periphery of said drum, a pair of opposed conveyors mounted in said frame to feed tobacco leaves into said mouthpiece, a counter knife supported on the lower jaw of said mouthpiece against which the shearing of tobacco is effected, headed shearable fastening means securing the counter knife to said lower portion of said mouthpiece, retaining means connecting the heads of said fastening means to said counter knife, a second retaining means loosely connecting said counter knife to said frame whereby the heads of said fastening means and said counter knife are prevented from falling into the cut tobacco in the event of said fastening means being sheared when the knife blade strikes a solid object in the tobacco, and retarding means on said lower jaw to stop rotation of said cutter drum when said counter knife is released.

2,714,411

**CHERRY STEMMING AND SORTING MACHINE AND METHOD**

John G. Aguilar and William A. Cox,  
San Francisco, Calif.

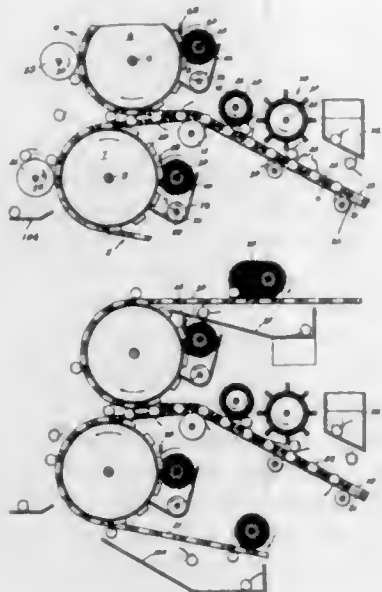
Application May 16, 1951, Serial No. 226,554  
29 Claims. (Cl. 146-238)

6. The method of stemming cherries and the like that comprises the steps of supporting unstemmed cherries in a layer substantially stationary relative to rotation about their respective axes for bodily movement of said cherries along a path of travel, positioning said cherries with the stems of some of said cherries in said layer projecting upwardly and with the stems of the remainder of said cherries projecting downwardly, moving said layer with the stems so positioned, gripping all of the said upwardly and downwardly projecting stems of said layer while said cherries are moving in said path and thereafter



causing relative movement between the stems so gripped and the cherries in direction away from each other whereby said cherries will be pulled from said stems.

28. In a machine of the character described having a pair of generally horizontally extending conveyors disposed one above the other with their adjacent runs together and formed with perforations in registration with each other along said runs, the combined thickness of said belts being about equal to the diameter of a cherry and each pair of said registering openings being adapted to receive a cherry therein with the stems of the unstemmed cherries projecting above or below said runs according to whether their stems are directed upwardly or downwardly, an upper and a lower pulley at one of the corresponding ends of said belts over which said belts extend in engagement therewith for respectively gripping the upwardly and downwardly projecting stems between said pulleys and said belts whereby the cherries having stems thereon will be carried around said pulleys for release therefrom at the upper and lower sides of the upper and lower pulley respectively, and the cherries without stems will drop from said perforations by gravity upon movement of said belts around said pulleys, means below the lower of said adjacent runs for supporting the cherries within said registering openings with the downwardly projecting stems extending therepast, and separate receivers positioned for receiving the stemmed and unstemmed cherries when they are respectively dropped from said perforations and released from said pulleys.

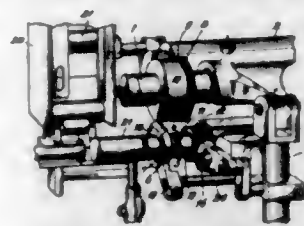


29. In a fruit processing machine, a carrier having a plurality of apertures therein, means connected to progress said carrier to move said apertures over a fruit supporting path, means for delivering unstemmed fruit to the upper surface of said carrier, said apertures being larger in diameter than the majority of said fruit, fruit supporting means moving with said carrier and beneath said apertures along said path to prevent fruit from passing through said apertures, said fruit supporting means being located at a distance below the top of said carrier at said apertures not substantially less than the average diameter of the fruit being delivered to said carrier whereby all fruit of average diameter entering said aperture are progressed by said carrier with only the stem thereof projecting from the surface of said carrier, means for preventing fruit on said carrier, but not in said apertures, from passing a first position along said path, means for gripping said projecting stems at a second position along said path beyond said first position, said fruit supporting means terminating its recited relation to said carrier at a third position along said path to discontinue its support of said fruit, and means for applying relative movement between said stems and fruit at a fourth position to separate said fruit from said stems.

2,714,412

## MACHINE TOOLS

Alois Tröndle, Goppingen, Württemberg, Germany, assignor to L. Schuler, A.-G., Goppingen, Württemberg, Germany, a corporation of Germany  
Application August 17, 1951, Serial No. 242,307  
Claims priority, application Germany August 30, 1950  
5 Claims. (Cl. 153—2)



1. A machine tool for simultaneously pressing screw-threads and cutting the ends from metallic tube and cylindrical container blanks, comprising an upper spindle rotatably mounted and having upper tool members thereon in the form of pressing and cutting tools, a bearing bracket pivotally mounted and rotatably carrying the upper spindle, a lower tool mandrel rotatably mounted below the upper spindle and having secured thereon tool members in the form of pressing and cutting tools to cooperate with the pressing and cutting tools of the upper spindle, a pull rod connected to the bearing bracket to move the upper tool members adjacent to and in cooperation with the lower tool members by rotation of the bearing bracket around its pivot, a sleeve mounted for slight rotation on the lower tool mandrel and having means at one end to effect its slight rotation and a longitudinal slot extending from the last-mentioned means to the other end thereof, and means connected to the pull rod and to the means on the sleeve to effect slight rotation of the sleeve upon each movement of the pull rod, said longitudinal slot in the sleeve being directed sidewardly when the pressing and cutting tools are spaced from each other but upon actuation of the pull rod to bring the tools toward each other with a blank on the sleeve and mandrel, the sleeve will be slightly rotated on the lower mandrel to bring the slot in a position facing upwardly so that the tools can act on the blank in cooperating relationship.

2,714,413

## METHOD AND APPARATUS FOR MAKING PLASTIC VENETIAN BLIND LADDERS

Joseph L. Hunter and Thomas A. Martin, Riverside, Calif., assignors to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware  
Application February 15, 1951, Serial No. 211,096  
6 Claims. (Cl. 154—1.6)



1. The method of making plastic Venetian blind ladders comprising the steps of bringing two plastic tapes together in spaced parallel relation and transporting said tapes in the same direction and at the same rate of speed, applying heat to said tapes immediately ahead of the point at which they become parallel so that the adjacent surfaces thereof are heated above the fusion temperature of the plastic, severing a strip of plastic cross bar stock into individual cross bars, and carrying said individual cross bars into the space between said parallel portion of said tapes at the same rate of speed and in the same direction of travel as the tapes, pressing the ends of said cross bars into contact with the tacky, partially fused adjacent surfaces of the tapes and holding said ends in place until the plastic has cooled below the fusion temperature.

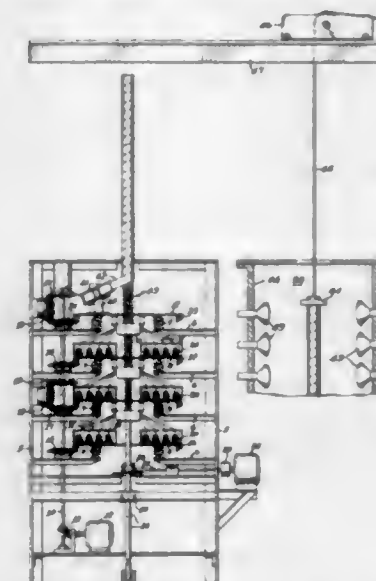
2. A machine for making plastic Venetian blind ladders comprising a pair of endless traveling bands having adjacent cooperating portions arranged face-to-face in

laterally spaced, parallel relationship, said bands being driven so that said cooperating portions travel in the same direction and at the same rate of speed, means for forming plastic tapes on the outer faces of the outer courses of said bands in adhesive contact therewith, whereby said tapes are carried by said bands and continue to be supported by them as they turn and form the inner course, a heater for applying heat to said tapes so that the exposed surfaces thereof are heated above the fusion temperature of the plastic, and a conveyor carrying plastic cross bars into the space between said bands at the point where the bands approach one another for the beginning of parallel travel, said conveyor including means for bringing the ends of said cross bars into contact with the tacky, partially fused adjacent surfaces of said tapes as the latter are carried along by said bands and maintaining said contact until said tapes have cooled below the fusion temperature.

2,714,414

## FABRICATION OF PIPE FROM GLASS FIBER AND PLASTIC MATERIAL

Carl De Ganahl, Greenlawn, N. Y., and John A. Grant, Granville, and Clare E. Bacon, Newark, Ohio; said Grant and said Bacon assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware  
Application August 17, 1950, Serial No. 180,066  
17 Claims. (Cl. 154—1.8)



1. The method of fabricating pipe which comprises advancing a mandrel upwardly, continuously applying upon the upwardly advancing mandrel a plurality of helical layers of glass thread coated with a fluent plastic material, treating the mandrel with the layers thereon to set the plastic material, and subsequently removing the mandrel therefrom.

10. In an apparatus for fabricating pipe, powerdriven means for advancing a mandrel upwardly at a uniform rate, a rotatable table having a central opening for the mandrel, means for rotating the table, means for supporting a plurality of filament carriers on the table, a receptacle and means therein to guide filaments from the spools through the receptacle and onto the mandrel.

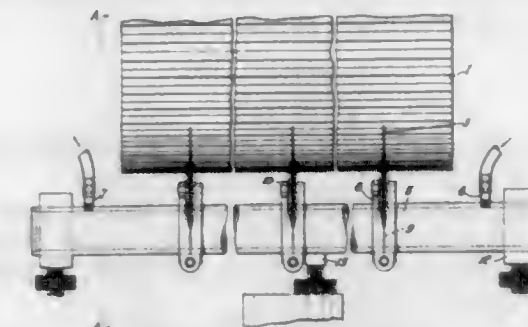
2,714,415

## MACHINES FOR MAKING CORRUGATED PAPER BOARD

Tom Rowlands, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company  
Application May 25, 1953, Serial No. 357,169  
Claims priority, application Great Britain March 9, 1953  
5 Claims. (Cl. 154—30)

1. In apparatus for making corrugated board, means to convey a corrugated web of material, means to apply

liquid adhesive to said corrugated web, a guide member to engage and guide said web, part at least of said guide member being arranged to engage a portion of said web to which adhesive has been applied, a conduit constituting

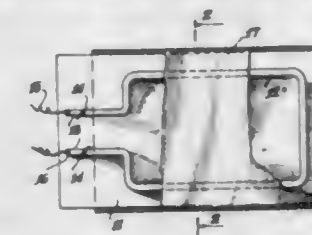


ing a support on which said part of said guide member is mounted, and means to pass a stream of cooling fluid through the said conduit so as to cause said part to be cooled.

2,714,416

## HEAT SEALING MACHINE AND SEALING MEMBER THEREFOR

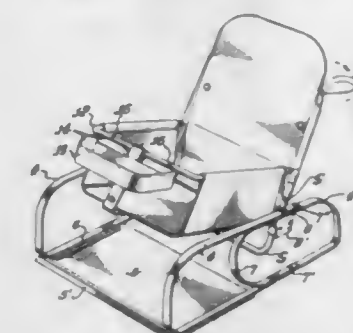
Alfred Fener, Brooklyn, N. Y., assignor to Nicholas Langer, New York, N. Y.  
Application June 28, 1954, Serial No. 439,825  
10 Claims. (Cl. 154—42)



1. A sealing member for heat sealing machines comprising, in combination, a base having a plane face, and an elongated metal heater element of curved configuration having its ends secured to said base in the absence of any tensional forces on said element and having its operative face in parallelism with said face of the base, the portions of said element between its ends being free for displacement in the plane of said base but being restrained against displacement away from said base.

2,714,417

SPRING BASE FOR BABY JUMPER CHAIR  
Frederick E. Golding, Los Angeles, Calif., assignor to Aeon Industries, Inc., Los Angeles, Calif.  
Application April 18, 1952, Serial No. 283,023  
1 Claim. (Cl. 155—17)



A spring supporting base for a chair, including a base plate, two spring loop-like members of flat spring metal having their lower sides straight and set upon the opposite edges of said base plate and hingedly secured thereto along their inner edges, whereby to be foldable together flatwise upon said base plate, each of said members having a C-shaped spring portion between its top and bottom to give additional springing strength, each of said loop-like members having on its inner top side an angle plate secured to the top of said loop-like member and to the top end of said C-shaped spring portion and depending



on the inner side thereof, an angle member secured to the inner side of said depending plate and having an inwardly opening channel to receive the side member of a chair, and an outwardly opening channel to receive a spring actuated latch member therethrough for locking the side member of a chair in place in said channel.

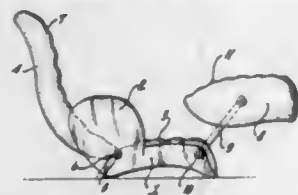
2,714,418

# CONTOUR CHAIR WITH MOVABLE PADDED SEAT

Leo C. Malco, Long Beach, Calif.

Original application February 15, 1951, Serial No. 246,757, now Patent No. 2,650,644, dated September 1, 1953. Divided and this application February 9, 1953, Serial No. 335,877

1 Claim. (Cl. 155-105)



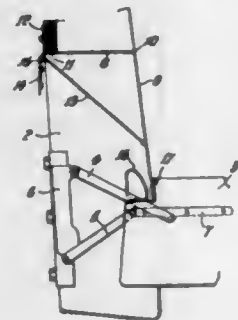
A contour chair with movable padded seat comprising a base, said base having depending legs and a fixed padded seat at the top thereof, a back, the front of said back being padded, means pivotally securing said back to the base, said means being clampable to hold the back in upright position, a padded seat cushion resting on the fixed padded seat and covering the entire top surface of the fixed padded seat in one position of the cushion, a pair of links one on each side of the seat cushion, each link being pivotally secured to the cushion at one end thereof and pivotally secured to the base at the other end thereof, said seat cushion being movable upwardly and forwardly relative to the base and into a plane above the fixed padded seat and being pivotable about the pivotal mounting of said padded seat cushion on the links, and clamp means engaging said links to hold said links in adjusted positions.

2,714,419

# ARM RESTS

Albert Arthur Killington, Romford, England  
Application March 5, 1953, Serial No. 340,466

6 Claims. (Cl. 155-112)



2. In a vehicle body structure, a seat back having an arm rest receiving recess therein, a swinging arm rest within said recess and adapted to swing outwardly therefrom to an operative arm supporting position, hinge means connecting said arm rest and structure, a cover plate of rigid material for said recess, when said arm rest is at the operative position said cover plate extends at a cover position from a hinged end adjacent an outer edge of said recess to a free end adjacent said arm rest, a swinging plate of rigid material adapted to swing within said recess, said swinging plate having a forward end pivoted on the hinged end of said cover plate and having a rearward end pivoted on said structure, a swinging lever pivoted on said structure adjacent the rearward end of said swinging plate and having a swinging end in sliding engagement with said cover plate, said lever extending angularly forward and toward said arm rest

when said cover plate is at the cover position, and resilient means yieldingly urging the swinging end of said lever forwardly, said arm rest having portions engageable with said cover plate to force the latter into said recess upon swinging of said arm rest into said recess.

2,714,420

# TABLE AND BENCH

Charles E. Stout, Santa Clara, Calif.

Application April 5, 1954, Serial No. 420,813

4 Claims. (Cl. 155-124)



1. An integral table-and-bench combination suitable for outdoor use comprising: a pair of supporting posts; a table rigidly secured to the top of said posts and extending to one side thereof; support means rigidly secured to the posts intermediate their ends and likewise extending to one side thereof, but in a direction opposite to that of the table; and a bench rigidly secured to said support means and spaced from said posts to permit a degree of nesting with other such table-and-bench combinations for storage purposes.

2,714,421

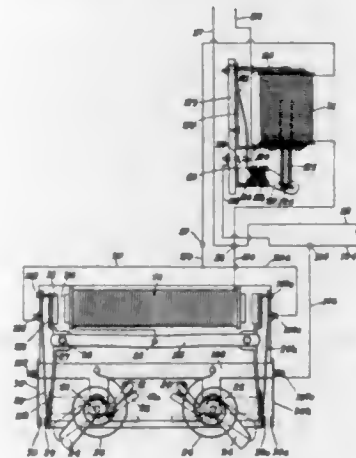
# CLOCKWORK DEVICE FOR CONTROLLING AN ELECTRIC CIRCUIT AT PREDETERMINED HOURS

Blagio Frantellizzi, Rome, Italy

Application September 18, 1951, Serial No. 247,122

Claims priority, application Italy September 20, 1950

3 Claims. (Cl. 161-1)



1. A timed switch mechanism comprising, in combination, an electric circuit including a relay operating a switch, an electromagnet having an armature, a wheel member mounted for rotational and axial movement, timing means for rotating said member to complete one revolution every 24 hours, cam means arranged to permit axial movement of said wheel member, means for setting the cam means to permit said axial movement at a predetermined time, a spring normally held under tension by said wheel member and moving the same axially when the cam means is set to permit axial movement, a two-armed member rotatably mounted on a pivot, an insulated end part of said

spring being in operative connection with one arm of said two-armed member and rotating said two-armed member when the spring is released during the axial movement of said wheel member, a return spring acting upon said two-armed member adapted to return it to its normal position after rotation, a two-armed lever rotatably mounted on a pivot, one lever arm carrying the armature of said electromagnet and the other lever arm being arranged adjacent the other arm of said two-armed member, said two-armed lever being rotated around its pivot upon engagement of said other arm of the two-armed member with the other lever arm, said engagement closing a circuit through the electromagnet, and the rotational movement of said other lever arm closing said electric circuit.

2,714,422

# TAPERED LEADER PIN AND DIE SHOE BUSHING ASSEMBLY

Kasimir Janiszewski, Milwaukee, Wis.

Application September 12, 1950, Serial No. 184,367

12 Claims. (Cl. 164-118)



1. In a die set comprising relatively reciprocable first and second platens, said first platen being provided with a first tubular bushing, the combination of a second tubular bushing mounted in the second platen and axially aligned with the first bushing, said second bushing being provided with a bore wall tapered in a direction to reduce its cross section axially away from the first bushing, and a leader pin having one end telescopically receivable in said first tubular bushing and having an axial taper at its other end complementary to the wall taper of the second bushing, said leader pin being positioned in axial alignment with the first bushing when said tapers mate, said leader pin having its respective ends engaged in both bushings in a proximate relative position of said platens, the tapered end of said leader pin affording quick relief of tension in the event of forceable removal from said tapered bushing during the separation of said platens if the pin wedges in the first bushing, the said complementary tapered surfaces of the pin and the second bushing comprising means for returning said leader pin into the tapered bore of said second bushing without damaging contact of the pin with the second bushing in a subsequent relative approach of the platens, even if the pin has been displaced consequent upon said wedging.

8. In a die set including first and second platens, a bushing in said first platen to slidably receive a leader pin, and a mount for said leader pin in said second platen, said mount and leader pin having complementary tapers opening toward said first platen whereby said leader pin is releasably mounted in said mount, the combination with said mount and leader pin of means for axially separating said leader pin and mount comprising means for developing axial thrust between said mount and pin whereby to withdraw said pin from said mount, said leader pin is provided with an axial tap at its end remote from its tapered end, said withdrawing means comprising a yoke removably positioned on the second platen, and a bolt rotatably pendent from said yoke for axial engagement with said leader pin tap to withdraw the pin.

2,714,423

# RETRIEVABLE BRIDGING PLUG FOR OIL WELLS

John B. Hitchings, Long Beach, Calif.

Application July 10, 1953, Serial No. 367,163

10 Claims. (Cl. 166-125)



1. A retrievable bridging plug, including a bridging portion and a tubular engaging tool portion above the bridging portion, said bridging portion including a packer means and slip means mounted thereon, spring means on said engaging tool portion releasably engaging the bridging portion, a setting mandrel slidably mounted for vertical movement in the engaging tool portion, releasable means in the engaging tool portion engaging and holding the setting mandrel in raised position in the engaging tool portion, said setting mandrel engaging and expanding the slip means in the released and lowered position thereof.

2,714,424

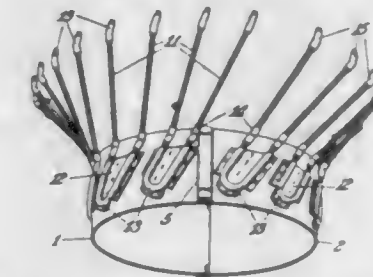
# DEVICES FOR CLEANING THE WALLS OF BORE HOLES

Albert Edward Atkinson, Hinchley Wood, Esher, England

Application May 26, 1952, Serial No. 290,055

Claims priority, application Great Britain June 26, 1951

8 Claims. (Cl. 166-173)



1. A device or scratcher of the kind described for cleaning the walls of bore holes, comprising a longitudinally divided ring-like structure carrying the scratcher wires and means capable of constituting a folded joint between two adjacent division edges of said structure, said means comprising a folded flange formation attached to one of said division edges and occupying a part only of the full extent of such division edge in the axial direction thereof, a folded flange formation attached to the other of said division edges and shaped to be interengaged with said first flange formation to constitute the joint between the said division edges, said second folded flange formation being shaped and arranged to extend also in an axial direction over a part of said first division edge not occupied by its associated flange formation when the division edges are aligned so that the portion of the said second flange formation which overlaps the said first flange formation is deformable relative to the latter to secure the joint against displacement in an axial direction.



2,714,425

**AUTOMATIC VACUUM CLEANER**

Allen P. Cawl, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware

Application April 21, 1954, Serial No. 424,547  
8 Claims. (Cl. 183—37)

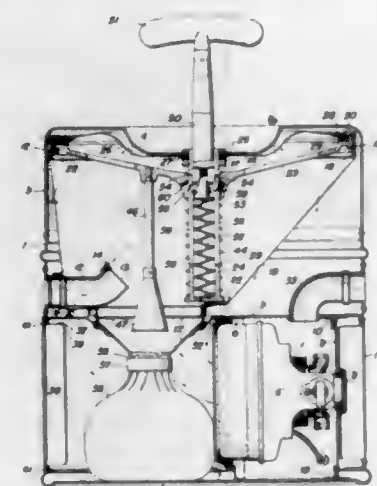


1. In combination with a vacuum cleaner having a dust separating member and means for producing flow of air therethrough, a pneumatically actuated element for controlling the operation of said cleaner, a differential pressure diaphragm movable in response to variations in pressure drop of air passing through said dust separating member, a valve assembly comprising a housing having a valve seat and a movable valve member, said valve member being movable to open position by displacement of said diaphragm, manually operable means for moving said valve assembly towards and away from said diaphragm to change the displacement of said diaphragm required to open said valve, and conduit means controlled by said valve connecting said pneumatically actuated element with said means for producing flow of air.

2,714,426

**SUCTION CLEANER HAVING A CLEANING AND DISPOSABLE DIRT STORING CONTAINER**

Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio  
Application January 21, 1953, Serial No. 332,145  
13 Claims. (Cl. 183—58)



1. In a suction cleaner, a fabric filter having an inlet for dirt laden air and a dirt outlet, a dirt container connected to receive dirt discharged through said outlet, a ram for forcing dirt from said filter through said outlet into said container, a spring connected to said filter and normally maintaining the same under tension, and means for simultaneously relaxing said filter against the bias of said spring and actuating said ram to force dirt through said outlet and for thereafter suddenly releasing said filter to said spring to subject the same to a snapping cleaning action and for withdrawing said ram from said outlet.

2,714,427

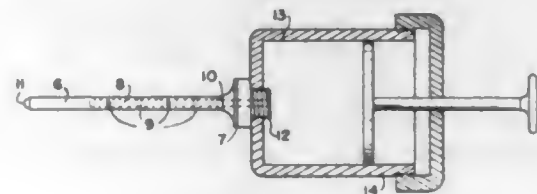
**LUBRICATING NOZZLE**

Robert L. Huffman, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application February 13, 1952, Serial No. 271,411  
1 Claim. (Cl. 184—1)

A lubricating device for use with a bearing having two ends of equal diameter forming bearing surfaces on

either side of a central cavity, said central cavity having a larger diameter than said ends, said device comprising a nozzle of the same diameter throughout its length and terminating in a closure at one end and adapted to protrude through the length of said bearing, perforations in said nozzle longitudinally disposed along that portion of said nozzle which is enclosed by said central cavity,



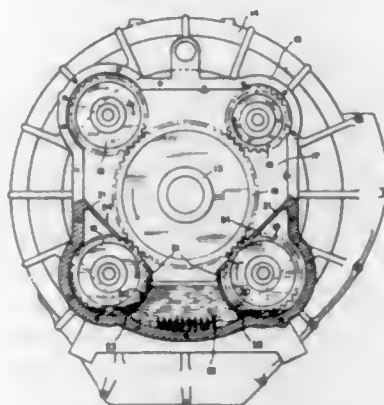
means for introducing under pressure a lubricating substance into said nozzle through its open end to be expelled through said perforations into said central cavity when the nozzle is inserted into said bearing, said nozzle being of such a diameter as to contact only said end bearing surfaces and form a tight fit with each surface to thereby prevent the introduction of said lubricating substance to said bearing surfaces.

2,714,428

**ACCESSORY GEAR DRIVE LUBRICATING MEANS**

Raymond J. Green, Muskegon, Mich., assignor to Continental Motors Corporation, Muskegon, Mich., a corporation of Virginia

Application September 1, 1951, Serial No. 244,811  
3 Claims. (Cl. 184—11)



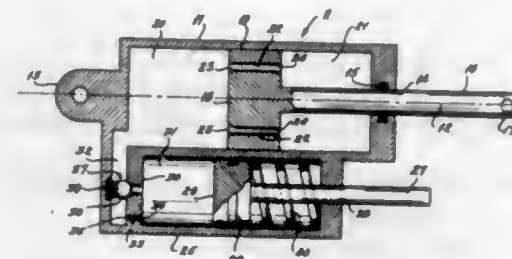
1. In an accessory gear case structure for an internal combustion engine having a crankcase and a crankshaft, an accessory casing secured to the crankcase, a driving gear mounted in said casing and drivingly secured to said crankshaft, and a plurality of driven gears mounted in said accessory casing and nested about and in mesh with the driving gear, said casing provided with intermediate partition walls providing pockets in which each of a pair of adjacent driven gears are mounted, each of said pockets providing an auxiliary oil sump, each of said partition walls provided with a metering oil passage directly connecting the pockets with the main oil sump and with an opening above the level of the oil in said main oil sump through which the driven gear projects to engage the driving gear and through which oil may be splashed by said driven gear from the auxiliary sump onto said driving gear and said other driven gears, the oil sumps in said accessory casing comprising a lubrication system independently separate from the engine lubrication system utilized to lubricate the engine parts other than said driving and driven gears aforesaid, said partition walls having converging sloping wall portions overlying the driven gears in said pockets and serving to collect and drain surplus oil into the main oil sump.

2,714,429

**SHIMMY DAMPER FOR STEERABLE AIRCRAFT WHEEL**

Murray D. Etherton, Kirkwood, Mo., assignor to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland

Application June 22, 1951, Serial No. 233,068  
3 Claims. (Cl. 188—96)



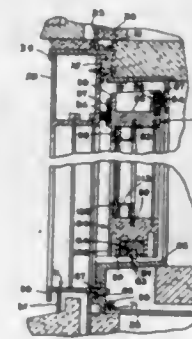
1. A shimmy damper comprising a fluid filled dashpot cylinder, a piston in said cylinder for forming two chambers in said cylinder, a rod for said piston extending through one end of said cylinder, means for establishing communication between said chambers through said piston which includes ducts having flared openings at one end so that flow of fluid therethrough will be greater in one direction than the other, a reservoir cylinder disposed adjacent to said dashpot cylinder and in communication therewith, a piston in said reservoir cylinder, a spring in said reservoir cylinder for forcing fluid into said dashpot cylinder; and means for regulating the flow of fluid between said cylinders which concludes a wall structure having a check valve controlled duct and duct in the wall structure having a flared opening at one end so that the flow of fluid will be greater in one direction than the reverse direction.

2,714,430

**FRAME STRUCTURE FOR A WINDOW**

Gerald D. Peterson, Detroit, Mich.  
Original application January 28, 1948, Serial No. 4,794, now Patent No. 2,663,917, dated December 29, 1953. Divided and this application February 18, 1953, Serial No. 346,770

15 Claims. (Cl. 189—75)



14. In an all metal frame for supporting closure panels, the combination comprising: header and sill sections having opposed surfaces; a pair of inner sections, one of which is secured to the header section and the other of which is secured to the sill section, said inner sections each having opposed surfaces with a flange extending therefrom and a groove provided therein, said flanges lying within a first plane and said grooves defining a second plane parallel with said first plane; a pair of jambs engaging said header and sill sections, said jambs having opposed surfaces, each surface having a flange extending therefrom and lying within said first plane and a groove provided therein lying within said second plane and means securing said jambs in fixed relationship with and abutting the corresponding ends of said sill and header inner sections.

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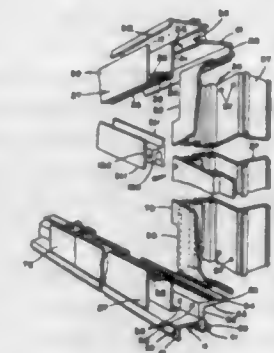
2,714,431

**WINDOW FRAME STRUCTURE**

Gerald D. Peterson, Detroit, Mich.

Original application January 28, 1948, Serial No. 4,794, now Patent No. 2,663,917, dated December 29, 1953. Divided and this application February 18, 1953, Serial No. 346,771

7 Claims. (Cl. 189—75)



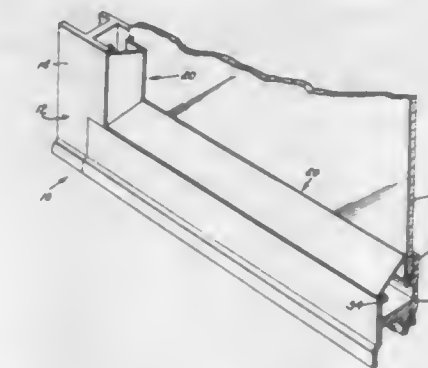
1. In a structure for effecting rigid and releasable engagement between the header, jambs and sill of an all-metal window frame capable of supporting parallel, overlapping fixed and movable closure panels, the combination comprising: a header having first and second offset, substantially parallel webs connected along adjacent edges by a first member substantially perpendicular thereto; a sill having first and second offset, substantially parallel webs connected along adjacent edges by a second member substantially perpendicular thereto, said first and second members being co-planar and the faces of said first webs being parallel, opposed and spaced further from each other than said second webs, which are also opposed; a pair of jambs each having a jamb web and a channel portion having an inner leg and a web, said jamb web being substantially perpendicular to said leg and secured thereto along the free edge thereof, said leg bearing against said members adjacent the ends thereof, said jamb webs bearing against the ends of said second webs, and said channel webs being closer together than said jamb webs and bearing against said first webs; and screws affixing said legs to said members.

2,714,432

**GLAZING STRIP FOR WINDOW CONSTRUCTION**

Donn C. Blanchard, Miami, Fla., assignor to Denison Corporation, North Miami, Fla., a corporation of Florida

Application May 28, 1954, Serial No. 433,049  
1 Claim. (Cl. 189—78)



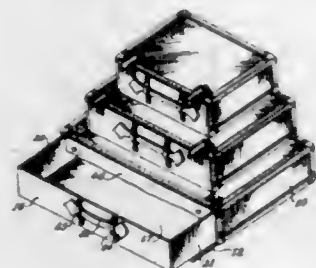
A glazing strip for securing glazing in place within a frame and wherein the frame embodies substantially similar peripheral and channeled rails and with each rail including inner and outer spaced apart parallel flanges, the inner flange being provided with an outwardly extending centering flange whereby to accurately position the glazing within the frame, the outer flange being provided along its edge with an inwardly directed extension, the glazing strip spanning the space between the glazing and the outer flange, said glazing strip com-



pressively engaging the glazing and clamping the glazing against said inner flange, the glazing strip having a relatively wide inner flange portion in sealed engagement with an outer surface of the glazing and with the flange portion provided with a rearwardly angled tongue extension that engages the marginal edge of the glazing for its major width and with the tongue being disposed between the marginal edge of the glazing and the centering flange, said glazing strip having an intermediate face portion disposed at an angle to the said inner flange portion and sloping away from the juncture between said glazing and said inner flange portion, said glazing strip along its outer marginal edge being reversely bent to form a hook for its full length whereby to yieldably engage the inwardly directed extension of the outer flange whereby to maintain the glazing strip against accidental displacement, the said hooked marginal edge terminating flush with the outer face of the said outer flange and whereby to drain water away from the juncture of the inwardly directed extension and the hooked portion of the glazing strip.

#### 2,714,433 LUGGAGE

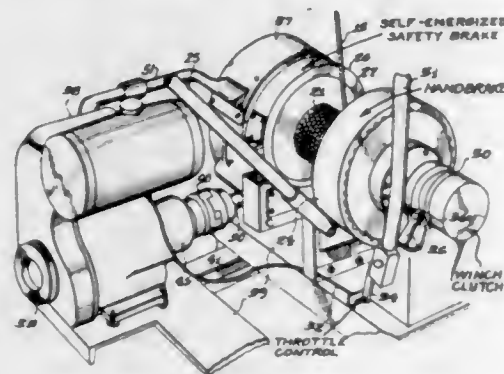
George W. Wilson, Washington, D. C.  
Application September 19, 1952, Serial No. 310,418  
2 Claims. (Cl. 190—6)



1. A traveling bag comprising a substantially rectangular-shape case having upper, lower, side and end walls, means hinging one edge of one of said side walls to the lower wall, fasteners for temporarily securing the opposite edge of said hinged side wall to said upper wall, a handle positioned on said hinged side wall, a tray slidably mounted in the case, and over-lapping flaps positioned between said hinged side wall and the tray and secured to the inner surfaces of the upper and lower walls, respectively.

#### 2,714,434 POWER DRIVEN WINCH AND HOIST MECHANISM

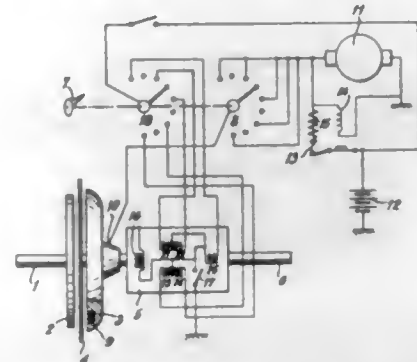
Harold William Peterson, Chicago, Ill.  
Application October 28, 1954, Serial No. 465,225  
4 Claims. (Cl. 192—094)



1. In a winch mechanism including a gasoline type engine power source, a winch clutch and throttle control, and a self-energizing load brake, the combination comprising a low speed disengaging clutch coupled to the motor, and a cushioned coupling between the low speed clutch and the winch clutch drive.

#### 2,714,435 VARIABLE SPEED TRANSMISSION DEVICES

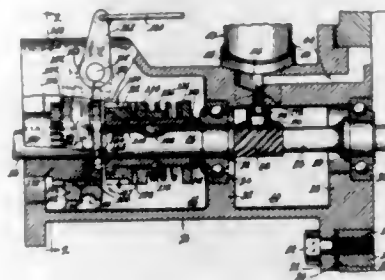
François d'Ozouville, Paris, France, assignor to Siper S. A., Emsallah, Tangier, a corporation of the Tangier Zone  
Application March 13, 1950, Serial No. 149,366  
Claims priority, application Switzerland October 26, 1949  
5 Claims. (Cl. 192—3.5)



1. A variable speed transmission device for connecting a driving shaft with a driven shaft and having a multiple speed gear mechanism arranged to be operated by electromagnetic means controlled by a change speed lever being adapted to take any one of a plurality of working positions, comprising, in combination, an electromagnetically operated friction clutch; an electric circuit for said clutch; a clutch-control switch inserted in said circuit; an electric selector switch arranged to render selectively effective said electromagnetic means operating said gear mechanism so as to bring the same into any desired operating condition, said clutch-control switch and said selector switch being mechanically coupled with said lever, said clutch-control switch being arranged for interrupting said electric circuit of said clutch so as to cause disengagement of said clutch when said lever is actuated for changing speeds; and means responsive to the speed of the driving shaft for controlling the operation of said clutch whereby said clutch is automatically and progressively engaged in response to the speed of the driving shaft when said lever is in any of said working positions.

#### 2,714,436 POWER TAKE OFF

Harry F. Heisler, Hudson, Iowa  
Application April 10, 1950, Serial No. 155,106  
4 Claims. (Cl. 192—48)

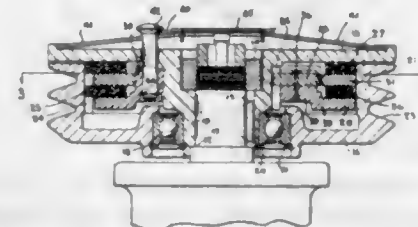


1. A clutch assembly adapted to be introduced between a drive shaft and a driven shaft comprising, in combination, a first coupling means for selectively coupling or uncoupling said drive shaft with said driven shaft for transmitting power, said first coupling means including a coupling member mounted on said drive shaft and having formed thereon first and second coupling elements, said first coupling element being part of said first coupling means, torque-overload responsive means carried by said drive shaft adapted to cooperate with said second coupling element to cause said coupling member to be rotatable with said drive shaft, said coupling member being rotatable with respect to said drive shaft when said second coupling element is not cooperating with said torque-overload responsive means carried by said drive member, said second coupling element and said torque-overload responsive means carried by said drive shaft for cooperating

therewith constituting a second coupling means adapted for transmitting power thereby from said drive shaft to said driven shaft for transmitting power, and said second coupling means normally being operative for transmitting power but adapted to become inoperative for transmitting power when the demand for power by said driven shaft exceeds a predetermined amount.

#### 2,714,437 FRICTION CLUTCH

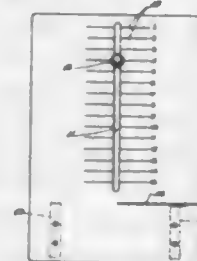
Charles B. Spase, Nedrow, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York  
Application June 14, 1954, Serial No. 436,630  
4 Claims. (Cl. 192—69)



1. A friction clutch comprising a driven hub member having a discoidal flange at the outer end thereof, a driving pulley journaled for free rotation on the inner end of the hub and having a cylindrical flange confronting said discoidal flange and encircling the intermediate portion of the hub in spaced concentric relation thereto, inner and outer annular driving members mounted in said cylindrical flange for rotation therewith and having free movement relative thereto in a direction axially of the clutch structure, the intermediate portion of said hub being cylindrical and having a plurality of keyways in the surface thereof extending axially of the hub, an annular driven member mounted on the intermediate portion of said driven hub and having free axial movement relative thereto, said annular driven member being positioned between said inner driving member and said pulley, a second annular driven member arranged intermediate said annular driving members, key means slidably interlocking said driven annular members and said driven hub member whereby said driven annular members are individually shiftable relative to each other and to said driven hub member, a dish plate arranged with its concave side confronting the outer surface of the discoidal flange of said driven hub member and having its peripheral portion engaging said discoidal flange adjacent the periphery thereof, a series of pins carried by said dish plate and extending axially of the clutch structure through said discoidal flange and said first-mentioned annular driven member, said pins being provided on their inner ends with enlarged head portions, said dish plate being formed of resilient material and serving, in conjunction with said pins, as spring means urging said annular driven members and said annular driving members into frictional engagement.

#### 2,714,438 TYPEWRITER BOTTOM MARGIN GAUGE

John A. Gerts, Chicago, Ill.  
Application February 6, 1953, Serial No. 335,448  
2 Claims. (Cl. 197—189)



1. A bottom margin gauge for typewriters comprising a paper table extension member; a bumper post adjust-

ably secured to an upper part of the top surface of said extension member; and a compensator member secured to a bottom part of the extension member, spaced a slight distance thereabove and forming a narrow strip extending parallel thereto in a horizontal direction so as to counteract the tendency of paper being typed upon to follow the contour of the typewriter roller in front of the extension member.

#### 2,714,439 CAN POSITIONING MACHINE

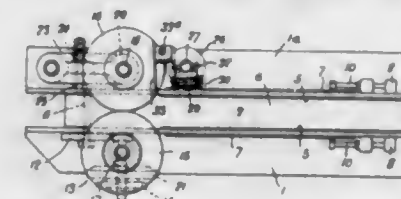
Wilber W. Prickett and Mona E. Prickett, San Diego, Calif.  
Application May 20, 1954, Serial No. 431,076  
20 Claims. (Cl. 198—31)



1. A can positioning machine comprising a base, an endless conveyor mounted on said base, said conveyor including spaced, vertical side members and a series of spaced fingers disposed between said side members whereby the periphery of said conveyor is divided into a plurality of can receiving pockets said fingers being laterally shiftable between said side members, means for shifting said fingers between a position adjacent one side of the conveyor and a position adjacent the other side of the conveyor in response to the orientation of a can received in each one of the pockets, means for projecting the fingers and associated cans from between the side members as the fingers approach a horizontal position whereby the associated cans will fall to one side of the conveyor dependent upon the positioning of the fingers therebeneath, and means positioned adjacent said conveyor to receive discharged cans.

#### 2,714,440 DEVICES FOR EJECTING FLAT ARTICLES

Albert John Forty and Arthur Frederick Whillock, Chesham, England, assignors to Hall Telephone Accessories Limited, London, England  
Application July 24, 1951, Serial No. 238,224  
10 Claims. (Cl. 198—34)

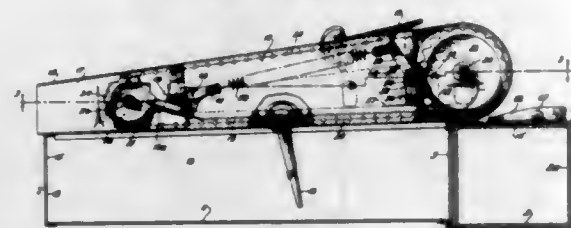


5. In combination, a travelling conveyor means and a device for ejecting postal letters and like flat articles from a position of rest and depositing each ejected article on edge upon the said travelling conveyor means at a given instant of time determined by selective control means, said device comprising a container or stall to which the articles are fed one by one, and having a moving base, a pair of spaced guide members extending upwardly there-



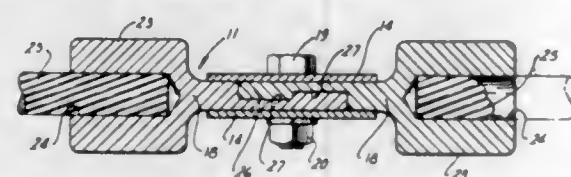
from and adapted to support the article in a substantially upright position resting on edge on said moving base, the said base moving towards one end of the container in the direction in which the article is to be ejected, a stop member extending transversely of the base adjacent said one end of the container outwardly therefrom and adapted normally to restrain the article from moving with the moving base substantially beyond said one end of the container, and to be moved out of the path of movement of the article upon actuation of said selective control means to permit the article to move with the said moving base outwardly from said one end of the container, and a pair of continuously rotating co-operating resilient rollers supported above said moving base adjacent said one end of the container for rotation in a plane parallel to the base and adapted to receive therebetween an article moving with the said base so that upon said movement of said stop member the article is fed by the moving base into the bight of the said co-operating rollers to be ejected thereby so as to be deposited on edge upon the said travelling conveyor means.

**2,714,441**  
**FINGER FEED CONVEYERS**  
Edwin B. Nolt, New Holland, Pa., assignor to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
Application May 14, 1954, Serial No. 429,761  
3 Claims. (Cl. 198-170)



1. In conveying mechanism of the class in which pivotally mounted feed fingers carried for movement in sweeping relation through a predetermined operative path over a supporting surface have control arms respectively cooperating with a guide rail to maintain said fingers erected, the combination comprising a guide rail normally extending parallel to said path, means moveably supporting said rail for movement transversely to said path, a crank arm having a free end operatively engaging said rail, means mounting said arm for angular movement about one end thereof, resilient means urging said arm toward perpendicular relationship with said rail, and stop means coacting with said arm to prevent same from reaching such perpendicular relationship.

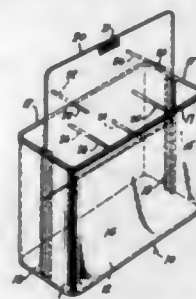
**2,714,442**  
**TROLLEY STRUCTURE FOR CONVEYORS**  
Paul Klamp, Detroit, Mich., assignor to Mechanical Handling Systems, Inc., Detroit, Mich., a corporation of Michigan  
Application July 21, 1954, Serial No. 444,864  
8 Claims. (Cl. 198-177)



1. A trolley assembly for cable type conveyors, comprising arms having laterally spaced parts, a bracket comprising separable sections having portions arranged in face to face contact between the parts aforesaid of the arms and respectively having cable anchorage means extending from opposite edges of said portions for attachment to adjacent ends of lengths of cable, means for removably clamping the parts of the arms together with

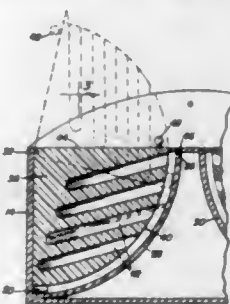
the sections therebetween, and a part extending laterally inwardly from each section into a recess formed in the adjacent section and coacting with the opposite side walls of the recess to provide a driving connection between the sections independently of the clamping means.

**2,714,443**  
**RECEPTACLES FOR DENTURES**  
Verna G. Kuvin, Springfield, N. J.  
Application September 8, 1951, Serial No. 245,688  
1 Claim. (Cl. 206-1)



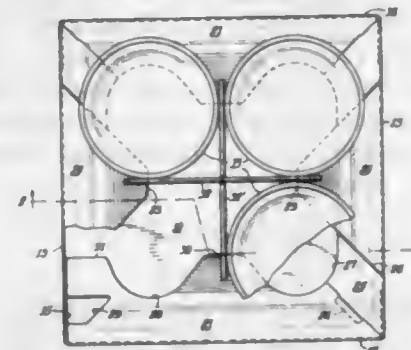
A denture receptacle, comprising an elongated container having spaced parallel front and back members, spaced parallel end members disposed along corresponding edges of said front and back members, a bottom member disposed along the corresponding edges of said front, back and end members, and an open top, said container adapted to contain a denture cleaning liquid, opposed slideways on the inner surfaces of said end members substantially in the middle thereof, a partition extending into the container and having side edges fitting in said slideways, denture support means carried by said partition and projecting on opposite sides thereof substantially perpendicularly to the plane of the partition, said support means being spaced along inverted arches defining the outlines of dentures to support separate dentures on opposite sides of said partition and within said container and gripping means mounted at the top portion of said partition for sliding said partition upwardly for removal of said dentures from said receptacle.

**2,714,444**  
**TOOTHBRUSH HOLDER**  
Mary H. Shippen, Lost Springs, Wyo.  
Application February 13, 1953, Serial No. 336,683  
2 Claims. (Cl. 206-15.1)



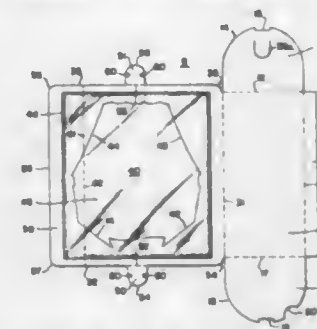
1. A toothbrush holder comprising a casing, an arcuate multiple toothbrush receiving element of ninety degree sector shape having a normally vertical side and a normally horizontal side, means pivotally securing said element within said holder at the center of curvature of said arcuate element, a lid having beveled edges extending beyond the periphery of said element, complementary beveled surfaces on the upper edges of said casing, the beveled edges of said lid engaging said beveled surfaces to seal said casing, said casing having an arcuate guard secured therein in alignment with one of said beveled surfaces, said element having a plurality of substantially parallel recesses therein for receiving toothbrushes, each of said recesses sloping downwardly and toward said vertical side, the innermost portions of said recesses extending below the outer portions of said recesses when said element is in both opened and closed positions.

**2,714,445**  
**TRAY FOR CERTAIN TYPES OF FRAGILE AND OTHER ARTICLES**  
Paul A. Nemoede, Keller, Tex., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware  
Application May 27, 1953, Serial No. 357,839  
7 Claims. (Cl. 206-45.14)



1. A tray for fragile articles comprising a single piece of material such as paperboard cut, scored and folded to provide a polygonal bottom wall, a side wall extending upward from each edge of the bottom wall, means securing the side walls in their upwardly extending relationship, and a flap inclining inwardly over and downwardly toward the bottom wall from the upper edge of each side wall, the inner terminal edge of each flap being substantially in contact with the bottom wall, each flap at each of its ends extending substantially into conjunction with the adjacent flap end at the tray corners, each of flap edges adjacent to each corner end and at a place spaced from the tray corner being notched, the adjacent notches of adjacent flaps at each corner being complementary to one another.

**2,714,446**  
**PACKAGES**  
Edward D. Gillam, Penn Valley, Pa.  
Application April 1, 1953, Serial No. 346,181  
7 Claims. (Cl. 206-45.31)



1. A package comprising a rectangular bottom panel, a pair of end panels joined to said bottom panel, one at each end thereof by a transverse crease line and extending upwardly therefrom, an upper panel portion hingedly connected along its margins to said bottom panel and extending longitudinally therebeyond, said bottom panel having an upwardly extending gluing tongue along one of its margins in adherent engagement with said upper panel portion, said upper panel portion having a cut out portion, a transparent panel secured to said upper panel portion in covering relation to said cut-out portion, and inclined resilient locking members on said upper panel portion for engagement with locking members on said end panels.

**2,714,447**  
**TUBING AND METHOD OF PRODUCING SAME**  
Alfred W. Gardes, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan  
Application June 22, 1950, Serial No. 169,569  
5 Claims. (Cl. 206-46)

2. A one-piece tubing comprising side walls defining an interior space and having flanges forming a multi-

thickness rib projecting radially outwardly of said space, said tubing having integral compressed sealed end portions and a reducing atmosphere in said interior space to prevent corrosion of the inner surfaces of said tubing.

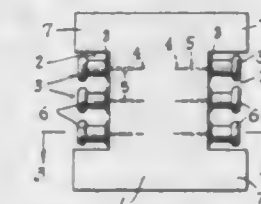


**2,714,448**  
**CONTAINER COMBINED WITH DETACHABLE PHONOGRAPH RECORD AND STEREOSCOPIC DEVICE**  
Nathan J. Brown, Barrington, Ill.  
Application March 22, 1954, Serial No. 417,540  
1 Claim. (Cl. 206-47)



A container assembly comprising a box having a front panel, perforations through said panel defining a disc, a phonograph recording on the inner surface of said disc, a pattern on the outer side of said front panel partly formed by a component on the disc and partly formed by at least one component spaced from the disc, said first-mentioned component being stereoscopic in character, and a pair of eyeglasses mounted in a wall of said box, a portion of said wall including said glasses being defined by perforations for removal therefrom for viewing said first-mentioned component, said glasses being properly colored so that said first-mentioned component, when viewed through said glasses, appears to have three-dimensional characteristics.

**2,714,449**  
**PUSH PIN PACKAGE**  
Herbert S. Holland, Orange, Conn., assignor to The Waterbury Tack Company, Inc., Shelton, Conn., a corporation of Connecticut  
Application July 17, 1952, Serial No. 299,379  
4 Claims. (Cl. 206-66)



4. A package of push pins comprising a carrier consisting of a rectangular block of penetrable material having a recess in at least one edge thereof, and a plurality of push pins supported by said block in said recess with their shanks penetrating the material of the block and their heads engaging the bottom of the recess, said recess having such depth that the edge of the sides of the block which are recessed is substantially flush with the outer ends of the heads of the push pins mounted in said recess and the thickness of the block being approximately equal to the diameter of said heads.

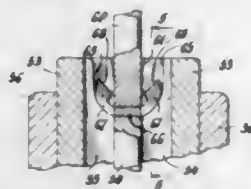


**2,714,450**  
**METHOD OF METAL FORMING AND IMPROVED**  
**APPARATUS THEREFOR**

Robert Chestnut, Tenaflly, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Original application September 30, 1950, Serial No. 187,774. Divided and this application September 25, 1951, Serial No. 248,263

6 Claims. (Cl. 207—2)



1. In that method of forming a metal product in which directional pressure is applied to a confined, solid metal mass to extrude metal therefrom through at least one orifice defining the cross sectional area and shape of the extruded metal, the improvement consisting in applying said pressure to said mass in a direction substantially at right angles to the direction of flow of said metal through said orifice and progressively shortening the dimensions of said mass in the direction of the applied pressure as the metal of said mass flows through said orifice, thereby also shortening the dimensions of said orifice in the direction of the applied pressure.

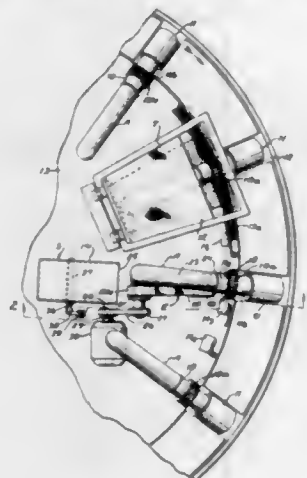
5. In a metal extruding apparatus, means arranged to form and define an elongate metal confining chamber having at least one elongate slot-like opening in its side through which metal confined in said chamber may be laterally extruded and a pressure element sized to closely fit said chamber and operable in said chamber to move toward the end thereof to apply extruding pressure to metal confined therein and to progressively shorten one dimension of said slot-like opening during an extrusion operation.

**2,714,451**  
**APPARATUS FOR SORTING THIN RUBBER**  
**ARTICLES**

John R. Gammeter, Akron, Ohio

Application January 24, 1951, Serial No. 207,547

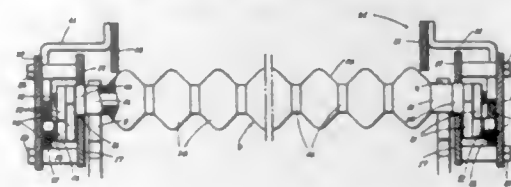
8 Claims. (Cl. 209—74)



1. Apparatus for sorting thin rubber articles, comprising a conveyor having a series of forms thereon extending freely for receiving the articles to be moved in succession along a path, a receptacle having a mouth opening toward said path, said receptacle having a plurality of chambers therein for different classes of articles, said chambers having inlet openings inwardly of said mouth, a closure member shiftable to open one or other of the inlet openings of said chambers, testing means successively manifesting said different classes of articles on said forms, article ejecting means in cooperation with said receptacle for ejecting the articles in succession from said forms into said mouth of the receptacle, a

mechanism for shifting said closure member, releasable activating means preset by said testing means manifesting a predetermined class of article on a given said form, holding means preset in coordination with movement of said given form away from the testing means and operable for releasing said activating means in readiness for a next succeeding operation thereon, means operable through said preset holding means in coordination with further movement of said given form into article ejecting position with respect to said receptacle for actuating said mechanism and thereby to shift said closure member to close one said chamber inlet opening and to open the other for receiving an article ejected from the given form into said mouth.

**2,714,452**  
**ENDLESS CONVEYOR SIZER**  
 Everett Lorence, San Jose, Calif.  
 Application October 19, 1951, Serial No. 252,117  
 2 Claims. (Cl. 209—106)

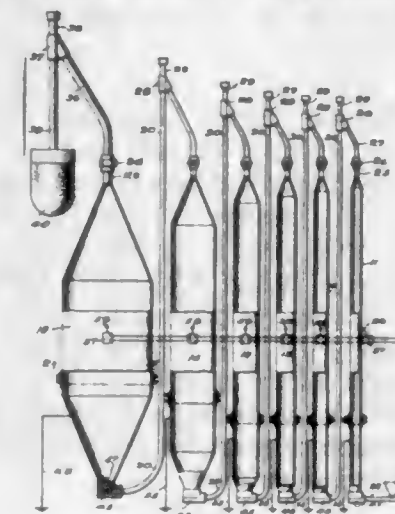


1. In a sizer which includes a supporting frame, a driven endless horizontal conveyor arranged so that its upper run forms a sizing bed, and pairs of transversely spaced end sprockets mounted on the frame and supporting the conveyor at the ends of said run; the conveyor comprising link chains at the sides spaced laterally out from the sprockets and transverse sizing rollers between the chains, each chain including articulated linkage between adjacent rollers, each linkage comprising a pair of links, a cross shaft connecting the linkages at their adjacent ends and on which the rollers are turnable and pivot means connecting the links at their adjacent end; means cooperating with said articulated linkages in the upper run of the conveyor operative to progressively increase the space between the rollers as said run advances, said means including rollers turnable on the cross shaft between the sizing rollers and the chains and frame-supported guide means for said last named rollers, and other rollers on the cross shaft between the sizing rollers and said turnable rollers and engaging the sprockets, all the rollers being turnable on the cross shaft independently of each other.

**2,714,453**  
**APPARATUS FOR FRACTIONATING FINELY**  
**DIVIDED MATERIAL**  
 James F. Miller, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army  
 Application August 10, 1951, Serial No. 241,376  
 2 Claims. (Cl. 209—142)

1. A continuous run apparatus for fractionating finely divided material consisting of a plurality of vertical elutriation tubes of different diameters arranged in ascending order, conduit means connecting the several tubes in series with the top of each tube connected through the conduit means with the bottom of the next larger tube of the series, a source of compressed gas coupled to the bottom of the smallest tube of the series, means for introducing the material to be fractionated into the apparatus near the connection with the source of compressed gas, a gas discharge outlet with filtering means connected with the upper end of the largest tube of the series, the several tubes each consisting of two separable abutted parts, flanges being secured to and projecting outwardly from each of said parts, the flanges being separated when

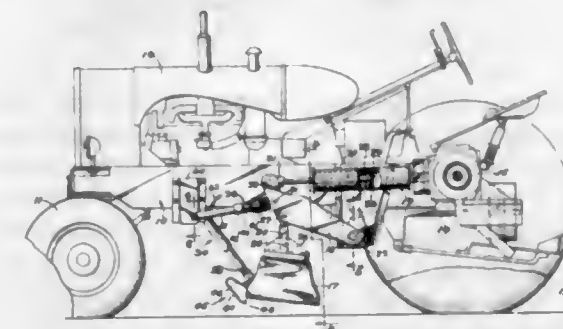
the parts are abutted, and bolts passing through the flanges to secure the separable parts together, a collar or band



within said container comprising a pair of annularly stepped similarly oriented conical plates having apertures in alternate steps with the apertures of one plate offset relative to those of the other plate, concentric equal length apertured tubes of varying diameters engaging at their ends with the backs of the steps of said plates, said plates having reinforced central portions, a drawbar anchored to the central portion of one of the plates and extending through a central aperture in the other plate, cam lever means mounted on the extended end of said drawbar and engageable with said other plate to clamp said plates and tubes together in assembled relation, one of said plates having a peripheral extension, and means for clamping said cover and said peripheral extension in fluid-tight engagement with the container, there being flow passages for the material to be filtered in said container and cover.

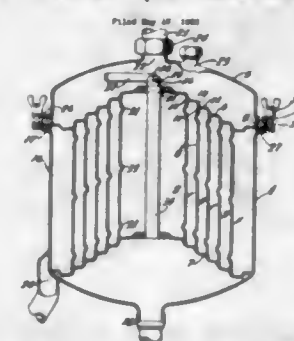
being fixed to one of the parts of each pair and enclosing the abutted edges of the joint so as to aid in sealing the same.

**2,714,454**  
**MAGNETIC SWEEPER**  
 William Vutz, Little, Pa., assignor to Consolidated Diesel Electric Corporation, Stamford, Conn., a corporation of New York  
 Application April 5, 1954, Serial No. 421,124  
 14 Claims. (Cl. 209—215)



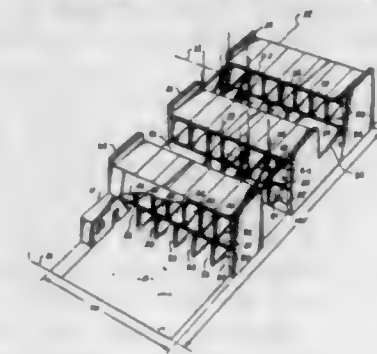
1. In a magnetic sweeper, the combination of a tractor including a chassis, wheels at the front and rear ends of said chassis, an internal combustion engine mounted on said chassis having drive means for driving the wheels at one end of said chassis; an electro-magnet carried by said chassis extending crosswise between said front and rear wheels; an electrical generator mounted on said chassis adjacent the driven wheels; means driven by said drive means for driving said generator, and conductive means interconnecting said generator and electro-magnet for energizing said electro-magnet.

**2,714,455**  
**STRAINER**  
 Edwin J. Galloway, Neenah, Wis., assignor to Neenah Milk Products Company, Neenah, Wis., a corporation of Wisconsin  
 Application May 18, 1953, Serial No. 355,698  
 1 Claim. (Cl. 210—183)



In a strainer, the combination of a container, a removable cover for said container, a filtering unit disposed

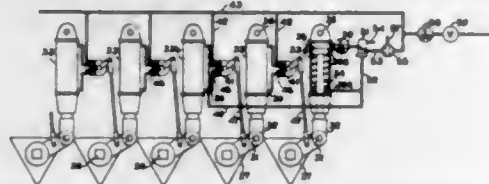
**2,714,456**  
**CAR PARKING SYSTEM**  
 Carlisle F. Mansueth, Pacific Palisades, Calif.  
 Application August 24, 1953, Serial No. 376,152  
 7 Claims. (Cl. 214—16.1)



5. In a multiple story mechanical car parking system for storing cars on a building lot area, the combination of: a plurality of at least three multiple story storage units extending transversely across said lot area in parallelism and in spaced relation to one another, including a front storage unit, an intermediate storage unit, and a rearward storage unit, craneways in the spaces between said storage units extending transversely of said lot area and extending vertically from the ground floor level upwards, each of said storage units having on its stories above the ground story thereof rows of adjacent car storage stalls opening to adjacent craneways, with intermediate storage unit stalls being one-car-in-depth and being open at the two ends thereof to the adjacent craneways in front of and rearwardly thereof, an elevating mechanism disposed in each of said craneways, each elevating mechanism including a supporting frame disposed entirely above the first floor, rails extending longitudinally along the sides of each craneway above the first story and supporting said frame for movement longitudinally of the craneway, and an elevator mounted for vertical movement in said supporting frame, each of said craneways being shorter longitudinally at the ground floor level than at upper story levels to afford a cross-over area for the forward passage of car from one storage unit to an adjacent storage unit and at least one of said cross-over areas forming part of a passageway extending from the front storage unit to the craneway between the intermediate and rearward storage units, said elevators being lowerable from their supporting frames to the ground floor level to service ground floor stalls only in the portions of the craneways not occupied by said cross-over areas and being movable vertically from the ground floor upwards and positionable opposite upper storage stalls flanking the respective craneways including the stalls directly above said cross-over areas, there being ground floor car entrance openings along the front of said front storage unit and car exit openings along the rear of said rearward storage unit.

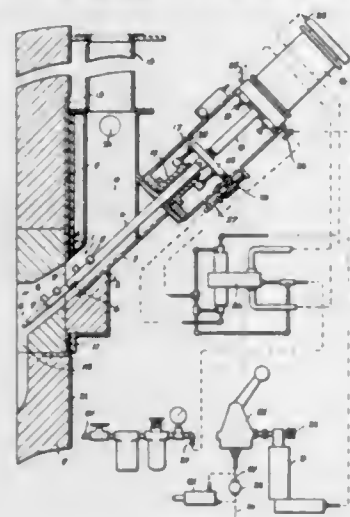


**2,714,457**  
**GRATE MECHANISM**  
 Carl Djuvik, Star Lake, N. Y., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania  
 Application March 26, 1954, Serial No. 419,048  
 8 Claims. (Cl. 214-18)



1. Apparatus for discharging a shaft furnace comprising in combination a plurality of parallel grate bars each rotatable about its long axis, a source of fluid under pressure, individual fluid operated means for rotating each grate bar between a first grate position and a second grate position provided with a first conduit admitting fluid urging said fluid operated means toward said first grate position and a second conduit admitting fluid urging said fluid operated means toward said second grate position, a manually operated valve means for connecting said source of fluid with said second conduit of a first said fluid operated means, valve means associated with each other said fluid operated means movable from a first valve position in which said first conduit is connected with said source of fluid and said second conduit is connected with an exhaust to a second valve position in which said first conduit is connected with an exhaust and said second conduit is connected with said source of fluid, means linking each grate bar with the valve means associated with the next adjoining grate bar, whereby said valve means is moved to said first valve position when said grate bar is moved to said first grate position and to said second valve position when said grate bar is moved to said second grate position, an interlock conduit connecting said second conduit of a fluid operated means other than said first fluid operated means to said first conduit of said first fluid operated means, and means operable by the pressure of the fluid in said interlock conduit for connecting said second conduit of said first fluid operated means with an exhaust.

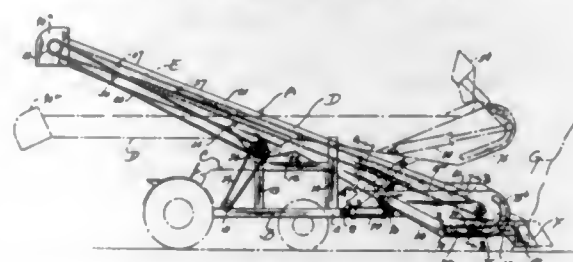
**2,714,458**  
**DEVICES FOR FEEDING GRANULAR AND OTHER SIMILAR MATERIALS**  
 Arthur Croft, Douglas William Hammond, and Maurice Thomas James Goff, Thornbury, Bradford, England, assignors to Crofts (Engineers) Limited, Thornbury, Bradford, England  
 Application March 27, 1952, Serial No. 278,762  
 Claims priority, application Great Britain February 25, 1952  
 7 Claims. (Cl. 214-23)



1. A device for feeding granular material to a shaft furnace, including a feed passage inclined downwardly at

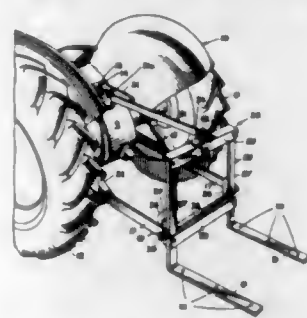
an angle sufficient to assist gravity feed but insufficient to effect gravity feed of the granular material, said passage being constricted at an intermediate point to control the gravitational feeding movement of material through the passage, the lower outlet portion of such passage below the constriction flaring outwardly to allow a freer movement of material in said portion, a skeleton feed ram which only partially closes said passage mounted to reciprocate in said passage to urge the material towards said outlet and have a stirring action, said ram comprising a rod with lateral projections thereon, operating means for causing reciprocation of the feed ram, means for controlling the ram feeding action so that its rate of reciprocation varies inversely with the resistance thereto of the granular material in said passage, and an inlet for the admission of granular material into the feed passage through feed means.

**2,714,459**  
**PORTABLE SHOVEL TYPE LOADING DEVICE**  
 John J. Hay, Knoxville, Tenn.  
 Application June 3, 1953, Serial No. 359,413  
 1 Claim. (Cl. 214-90)



A shoveling and loading mechanism comprising an automotive vehicle having a frame, and a power take-off, an elongated conveyor frame pivoted between its ends upon the vehicle frame for a see-saw type motion with respect to the vehicle frame, an endless conveyor belt rotatably supported by the conveyor frame, means for operating said belt off of the power take-off of the vehicle, hydraulic means for moving the conveyor frame with respect to the vehicle frame on said pivot axis, a hopper carried by said conveyor frame in position to move materials onto the conveyor belt, a scoop type shovel having an entrance opening thereto and an opposed discharge opening, means mounting said shovel for movement upon the conveyor frame for loading and swinging movements to discharge material from the scoop into said hopper, and hydraulic means connected between said conveyor frame and said shovel for moving the shovel between shoveling and dumping positions.

**2,714,460**  
**LIFT FORK FOR TRACTOR**  
 Curtiss L. Cook, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois  
 Application October 1, 1951, Serial No. 249,115  
 8 Claims. (Cl. 214-140)



1. A carrier attachable to a tractor having a power lift unit, a pair of laterally spaced apart lower levers swingably connected with the tractor and actuated by said power lift unit, and upper link means connected with

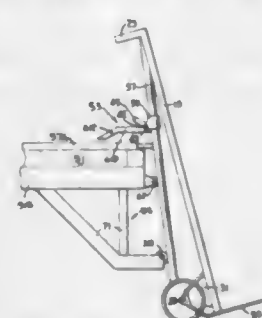
the tractor above said lower levers, said lower levers being movable relative to said upper link means, said carrier comprising a carrier member having an upright portion, means for connecting the upper part of said upright portion to the rear end of said upper link means, a cross member having end portions spaced to detachably receive the rear ends, respectively, of said lower levers, whereby raising and lowering movement of said lower levers when said power lift unit is operated serves to raise and lower said cross member, and vertically extending slot means carried by said carrier in a position to receive said cross member and extending generally vertically at such an angle that when said lower levers are raised to shift said cross member from its lower position to its upper position in said slot means, said carrier member is tilted.

**2,714,461**  
**OIL DRUM CARRIER**  
 Harry H. Walker, Beirut, Lebanon  
 Application April 17, 1953, Serial No. 349,397  
 4 Claims. (Cl. 214-384)



1. An oil drum carrier including a frame provided with a handle extending therefrom, said frame being swingably mounted about a generally horizontal axis on a pair of ground-engaging wheels, a pair of depending drum-engaging members positioned on one side of said axis and spaced apart a distance on the order of the length of an oil drum to be carried, each of said drum-engaging members being pivotally mounted on said frame for unrestrained swinging movement, each of said drum-engaging members having a projecting portion facing inwardly and toward the other drum-engaging member, each portion having an upper generally curvilinear surface, each said projecting portion being normally spaced above the upper portion of said oil drum, each portion having an inner surface inclined to the longitudinal axis of its member, each of said drum-engaging members having a normal generally vertical position, each of said projecting portions being formed and adapted upon swinging movement of said handle in one direction to move across an end chime of said oil drum, movement of said handle in the opposite direction being effective to cause said projecting portion to engage the end chime and thereby elevate said oil drum.

**2,714,462**  
**HAND TRUCK**  
 Frazier S. Butler, Memphis, Tenn.  
 Application June 22, 1953, Serial No. 363,357  
 8 Claims. (Cl. 214-515)

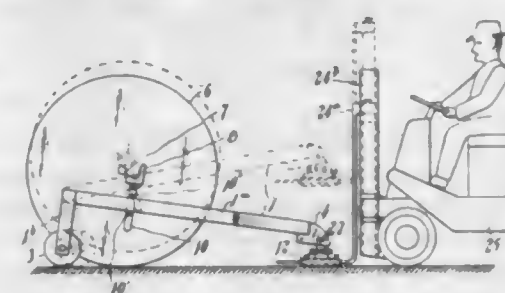


1. In a hand truck, a pair of upright members, a pair of collars slidably embracing said members, a shaft rotatably mounted in portions of said collars offset from said

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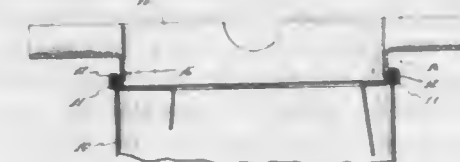
members, cam means fixed to said shaft normally out of engagement with said members, and lever means connected to said shaft to rotate same and shift said cam means into member engagement, member engagement by said cam means effecting friction braking against relative sliding of said collars and members.

**2,714,463**  
**REEL TRUCK**  
 Kenneth S. Fraser, Toronto, Ontario, Canada  
 Application January 4, 1954, Serial No. 402,001  
 1 Claim. (Cl. 214-620)



A material-reel carrier comprising a fork shaped reel support frame, the bifurcation providing an opening at the forward end, wheel sets positioned to support the said frame at the forward open end thereof, a hinging joint positioned to restrain the rearwardly positioned closed end of the said fork-shaped frame but to allow the frame to change its attitude angularly about a pivotal axis, a pallet, a caster having an eye portion forming part of said hinging joint and a swivel bearing portion, means for swivelly journaling said bearing portion upon said pallet to constitute said pivotal axis, means characterizing said pallet for receiving the tiering forks of a lift truck, and means positioned upon said frame intermediate the said wheels and said pallet for seating the ends of a bar placed axially through a reel for lifting the same.

**2,714,464**  
**ASH TRAY ATTACHMENT FOR METAL CANS**  
 Murtha K. Cline, Moscow, Idaho  
 Application November 1, 1952, Serial No. 318,197  
 3 Claims. (Cl. 220-1)



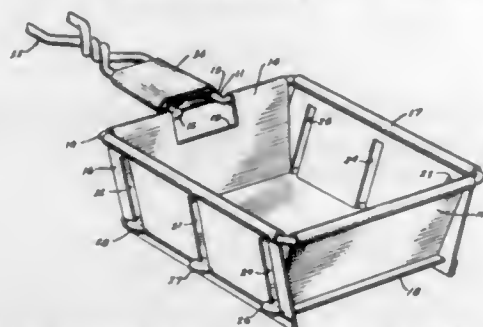
3. A receptacle assembly comprising the combination with a sheet metal can having a closed lower end, the upper end of the can having an apertured end closure set inwardly of the end of the can and having a peripheral flange extending upwardly within the can end to the edge thereof, an annular tray having a central opening and having a depending annular flange seated within said peripheral flange, said peripheral flange tapered outwardly from its lower edge upwardly, and the annular flange having a plurality of projections at its lower edge provided with upturned sharp edges pressing against the tapered surface of the peripheral flange and holding the tray and can together, said projections being hard enough to deform the surface of said peripheral flange where the sharp edges engage said surface.

**2,714,465**  
**COLLAPSIBLE PAN**  
 Clarence I. Blair, Wichita, Kans.  
 Application July 23, 1953, Serial No. 369,864  
 4 Claims. (Cl. 220-6)

1. A receptacle comprising: a rigid substantially rectangular planar frame; two oppositely positioned side

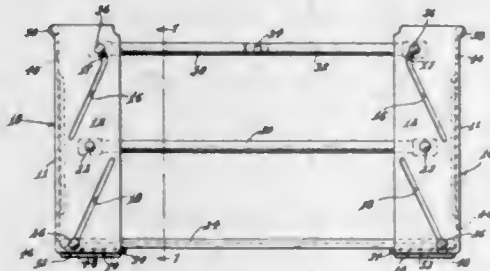


walls; means pivotally connecting the respective upper edges of said side walls to respective opposite sides of said frame; a bottom normally spanning the space between the lower edges of said side walls; a plurality of laterally spaced parallel upright apertures in each of said side walls extending from points near their respective up-



per edges to points near their lower edges; and identically spaced projections along the opposite side edges of said bottom and extending through and slidably secured in respective ones of said apertures; a pair of oppositely disposed end walls; and means pivotally connecting the respective upper edges of said end walls to respective opposite ends of said frame.

**2,714,466**  
**COLLAPSIBLE CONTAINERS**  
Thomas F. Killeen, Worcester, Mass.  
Application November 9, 1954, Serial No. 467,683  
6 Claims. (Cl. 220-7)

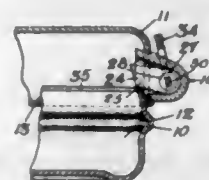


2. A collapsible container comprising two end wall members, a pair of rigid elements extending between said members at opposite sides thereof and maintaining them in substantially spaced relation, similar ends of said rigid elements being pivotally connected to opposite sides of one of said members and the other ends of said rigid elements being pivotally connected to opposite sides of the other of said members, tracks formed in each said member at opposite sides thereof, one pair of said tracks in each said member being to one side of the axis of said pivotal connection of the member to said rigid elements and another pair of said tracks in each said member being to the other side of the axis of said pivotal connection of the member to said rigid elements, a bottom wall element having one end mounted on one of said end wall members for movement along one of said pair of tracks therein and having its other end mounted on the other of said end wall members for movement along one of said pair of tracks therein, and locking means extending between said end wall members and having opposite end portions movably connected to said end wall members at the locations of the other of said pair of tracks therein, whereby said end portions may be moved along the latter said tracks, said locking means comprising rigid hinged-together members, the axis of whose hinges may be shifted to lock said end wall members in rigid parallelism and to release said end wall members for movement about their said pivotal connections to said rigid elements.

**2,714,467**  
**AIRTIGHT COVER RELEASES FOR CONTAINERS**  
Dimitrije M. Zivanow, New York, N. Y.  
Application October 28, 1954, Serial No. 465,286  
4 Claims. (Cl. 220-43)

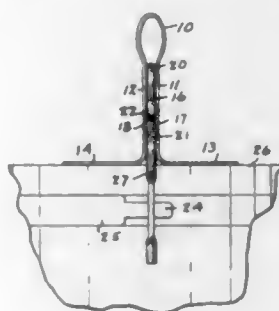
1. An airtight cover releasing attachment for a container having a removable cover provided with a side

wall having an opening therethrough, a hollow housing secured in said opening having an outer portion positioned outside said wall and an inner portion positioned inside said wall, said housing having a longitudinal recess therein extending through said inner portion and part-way through said outer portion and terminating in a circularly rounded rear wall near the outer end of said outer portion, said recess having opposed vertical walls, a substantially horizontal floor, and a ceiling sloping upward at an acute angle from said rounded wall to the extremity of said inner portion, a tongue of substantially the same length and width as said recess positioned in



said recess and having one end rounded complementarily to said rounded rear wall and registering thereagainst, said floor being cut away in said inner portion, one side wall of said outer portion having an opening therethrough in alignment with the center of curvature of said rounded wall, said tongue having a rectangular opening therein aligned with said wall opening, a key adapted to register in said aligned openings to swing said tongue through an arc between the ceiling and the floor of the recess, the free end of the tongue when the tongue is positioned against the floor with the cover closed on the container pressing the rim of the container away from the cover and hence releasing the cover from the container.

**2,714,468**  
**TEAR STRIP CAN OPENER**  
Bernard D. Stuvell, Indianapolis, Ind.  
Application June 21, 1954, Serial No. 438,108  
5 Claims. (Cl. 220-52)



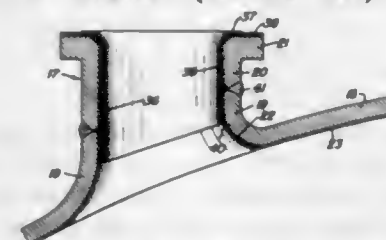
1. For holding and guiding a can key tear strip having a shank with an upper head laterally extending from the shank and having a slot extending longitudinally of and through a lower portion of the shank receiving a free end of the tear strip of the can therethrough for winding about the stem, a holder for the key comprising a pair of approximately semi-circular feet disposed in a common plane with diametrical sides adjacent one another; a leg extending upwardly and approximately normal to said plane from each of the opposing diametrical sides of said feet; said legs at their upper portions integrally uniting one with the other through an inverted U bend in the nature of a loop; said bend through said legs spacing apart said feet a distance normally less than the thickness of said key head; said key head being received between said legs upwardly from said feet and compressibly gripped therebetween as a means for rotating the key about its shank axis with said slotted end portion of the key shank extending below said feet approximately normal to said plane thereof.

**2,714,469**  
**LOCKING RING CONSTRUCTION**  
Robert C. Carlson, Mariemont, Ohio, assignor to Emery Carpenter Container Company, Cincinnati, Ohio, a corporation of Ohio  
Application November 24, 1954, Serial No. 470,982  
6 Claims. (Cl. 220-55)



1. In combination a cylindrical shipping drum having a closed bottom and an open top, and means to close and seal said top, said means comprising a reinforcing band substantially encircling the open end of said drum, a break in the band at one side of said drum, a lid adapted to seat within the open end of the container, said lid having an annular flange adapted to rest on the rim of the drum above said reinforcing band, a metal ring which is substantially U-shaped in cross section having an upper flange which is adapted to seat upon the marginal edge of said lid and a lower flange adapted to engage under the lower marginal edge of said reinforcing band, said ring being split and having the ends thereof overlapping one another, a linkage system interconnecting the respective ends of said split ring, said linkage system including a locking lever, said linkage system disposed to the inside of said locking ring and adapted to fit into the space provided at the break in the reinforcing band, said linkage system adapted to constrict said ring upon the swinging of said locking lever in a plane at right angles to the plane of said locking ring upwardly into a position between the ring and the drum within the recess provided at the break in the reinforcing band, whereby said linkage system, including the locking lever, is protected by said band.

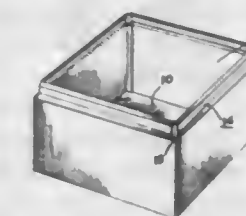
**2,714,470**  
**CONTAINER CONSTRUCTION**  
Elbert A. Sanford, Irondequoit, N. Y., assignor to The Pfaunder Co., Rochester, N. Y., a corporation of New York  
Original application March 24, 1951, Serial No. 217,345.  
Divided and this application August 1, 1952, Serial No. 302,153  
9 Claims. (Cl. 220-64)



6. The combination with a processing container having an outwardly swaged nozzle, a nozzle flange member welded to said nozzle and a fused ceramic coating on the inner surfaces of said container, nozzle and member and on the flange of said member, of a repair shield comprising a tube section of relatively thin, corrosion-resisting sheet metal fitting the coated inner surfaces of said mem-

ber and nozzle and having a flange pressed therefrom to partially cover the flange of said member, a ring of relatively thin, corrosion-resisting sheet metal surrounding said tube section under the flange thereof and covering the flange of said member, and a layer of corrosion-resisting cement interposed between said tube section and the coated surfaces of said nozzle member for securing said shield and ring to said nozzle and member and sealing the spaces therebetween.

**2,714,471**  
**STACKING CARRIERS**  
Milton C. Sherman, Coral Gables, Fla.  
Original application September 15, 1950, Serial No. 185,059. Divided and this application August 25, 1952, Serial No. 306,093  
3 Claims. (Cl. 220-97)



1. A rectangular stacking carrier including four vertical side walls, and a bottom wall secured to said side walls at an elevation above the bottom edges of the latter providing a depending peripheral flange below said bottom wall, the upper edge of each of said four side walls provided with a flexible flange inwardly and upwardly offset with respect to the outer surface of its respective side wall, and each of said flanges separated at its ends from the flanges of the adjacent side walls to provide gaps between the flanges at the corners of the carrier, said flanges of the side walls providing means for stacking several carriers one above the other, with the bottoms of superposed carriers resting upon said flanges and allowing flexing of said flanges of the side walls to absorb shock between stacked carriers.

**2,714,472**  
**WEIGHING APPARATUS**  
Philip B. Richardson, Montclair, N. J., assignor to Richardson Scale Company, Clifton, N. J., a corporation of New Jersey  
Application November 17, 1950, Serial No. 196,241  
20 Claims. (Cl. 222-63)

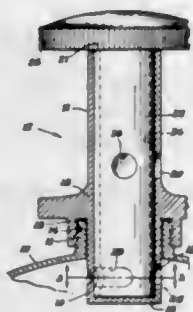


1. In weighing apparatus, the combination of means for weighing material intermittently and discharging weighings thereof at equal predetermined time intervals, a reservoir arranged to receive successively the weighings of material from said weighing means, a feeder capable of discharging material from the reservoir at a variable rate and in a continuous stream, and means responsive to variations in the volume of material con-



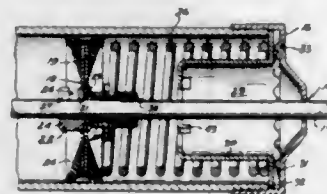
tained in the reservoir for adjusting the feeder to regulate the rate of discharge of the continuous stream of material therefrom and to maintain a residue of material in the reservoir.

**2,714,473**  
**TOOTHPASTE DISPENSING CAP**  
Clarence A. Best, New Albany, Ind.  
Application November 13, 1952, Serial No. 320,204  
4 Claims. (Cl. 222-217)



4. For use with a container having a neck providing a dispensing port for said container, means for dispensing a measured quantity of material from said container comprising a collar threadably engageable with said neck, a body member fixed on said collar and having portions thereof projecting oppositely from said collar, one of said portions being disposed within said container when said collar is so engaged with said neck, said body member being formed to provide a chamber having a movable wall remote from said container for varying the volume of said chamber, spring means engaging said wall to urge it resiliently toward its position in which said chamber has its smallest volume, said body member being formed further to provide an inlet port in said one body portion and an outlet port in the other of said portions, said inlet port providing communication between the interior of said container and said chamber, and said outlet port providing an exit from said chamber to the exterior of said container, and valve means providing a closure for the outer end of said chamber and controlling said ports for oppositely opening and closing the same, said wall being moved by incoming material to enlarge the volume of said chamber when said inlet port is open, and moved by said spring means to decrease the volume of said chamber when said outlet port is open.

**2,714,474**  
**PISTON LOCKING DEVICE**  
Edwin P. Sundholm, Albert City, Iowa  
Application January 31, 1950, Serial No. 141,417  
12 Claims. (Cl. 222-386)



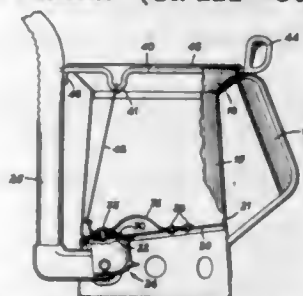
1. A grease-gun having a barrel, a cap-member at one end of said barrel, a piston in said barrel, a piston-rod slidable through said piston and said cap-member, locking-means for securing said piston at one end of said barrel, said locking-means including a cup having a radially-extending flange secured at one end of said barrel by said cap-member, an aperture in the bottom of said cup with at least one radially-extending lug therein, at least one radially-extending finger fixedly and non-rotatably secured on said piston adapted to pass through the aperture in said cup when not aligned with said lug and thereafter adapted to be rotated into alignment with and engagement with said lug.

**2,714,475**  
**DISPENSING CONTAINER FOR FLUIDS**  
Paul Edward Roehrich, Rockville Centre, N. Y., assignor to Richford Corporation, New York, N. Y., a corporation of New York  
Application October 29, 1951, Serial No. 253,649  
2 Claims. (Cl. 222-501)



1. A dispensing container for fluids comprising: a body member providing a fluid reservoir having an opening at one end; a cap removably secured over the open end of the body member, said cap being dome-shaped and projecting outwardly and having a dispensing aperture at its outer end; and a dispensing valve assembly of unitary construction and made of an inherently yielding, resilient material for controlling the dispensing aperture disposed in the cap and having a ring-shaped base disposed between the open end of the body member and the cap and serving as a seal, a plurality of spring arms integrally connected to the inner periphery of the ring-shaped base and curving inwardly towards each other and thence longitudinally of the cap towards the aperture therein and a tapered stud-like valve body integrally connected to the outer ends of the spring arms and having a tip portion projecting outwardly through the aperture in the cap and a peripheral portion seating around the edges of the aperture, said spring arms being spaced from each other and from the inner surface of the cap so as to provide an unobstructed fluid passage from the reservoir to the dispensing aperture and serving to yieldingly support the valve body in seating engagement with the sides of the aperture so that it may be depressed by inward pressure applied to the tip portion of the valve body to open the aperture and said spring arms flexing inwardly towards the fluid reservoir in the body portion and towards each other so as to be stressed in compression when the valve body is depressed.

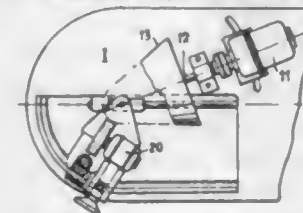
**2,714,476**  
**LIQUID DISPENSERS**  
Loyal V. Locke, Delphos, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio  
Application March 20, 1953, Serial No. 343,646  
9 Claims. (Cl. 222-508)



2. A liquid dispenser of the character described comprising a casing adapted to receive liquid contents for dispensing, said casing including a bottom having a discharge opening therein provided with spout means therebelow, a valve adapted to close said discharge opening from within said casing, means including a spring mounting said valve on said bottom with said spring biasing said valve to the closed position thereof, a crank mounted for rotational and limited axial movement on a horizontal axis in the upper portion of said casing, means including a link connecting said valve with said crank to exert a lifting force on said valve against said spring in response

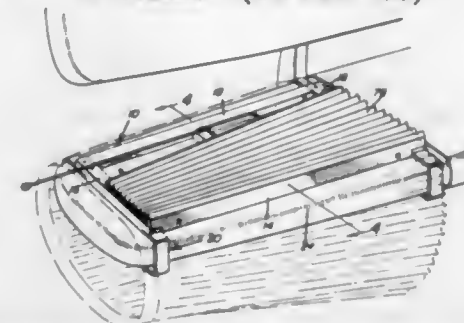
to rotational movement of said crank, said crank extending rearwardly through said casing and including a lever at the rearward end thereof adapted to extend upwardly in the position of said crank wherein said valve is closed, and said casing having a flange at the upper end thereof adapted to overlap said lever upon forward movement of said crank following rotation thereof to the open position of said valve to lock said crank against further rotational movement in either direction and thereby to hold said valve in locked position against said spring.

**2,714,477**  
**PROCESS AND A MACHINE FOR TREATING THE OUTSIDE SURFACES OF HAT FELTS**  
Jacques Schwelg, Basel, Switzerland  
Application July 6, 1953, Serial No. 366,269  
17 Claims. (Cl. 223-18)



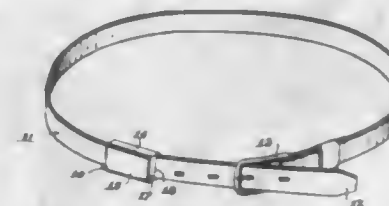
1. In a machine for treating the outside surface of a hat felt, said machine having a rotatable conical hat block with a rounded top portion on which said hat felt is mounted, the combination of a longitudinal carriage, means for reciprocating said longitudinal carriage and comprising a reversible motor, a grinding unit mounted on said longitudinal carriage and comprising a grinding wheel and a motor operatively connected to said grinding wheel for rotating the same, and guide means providing a guideway for and engaged by said longitudinal carriage, said guideway being parallel to the adjacent horizontal contour of said hat block, whereby said grinding wheel is adapted automatically to roughen a hat felt mounted on said hat block when said grinding wheel and said hat block are rotated and said longitudinal carriage is reciprocated along said guideway.

**2,714,478**  
**APPARATUS FOR PLEATING SKIRTS**  
Gerald A. McCusker, McKeesport, Pa.  
Application October 9, 1953, Serial No. 385,241  
3 Claims. (Cl. 223-33)



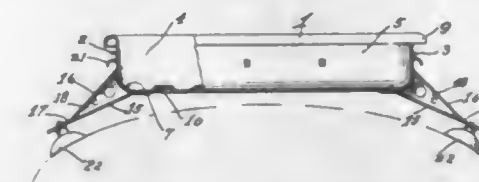
1. In combination with a steam iron having a base portion provided with steam vent openings, an open, generally rectangular framework secured to said base portion and enclosing at least some of said vent openings, one element of said framework consisting of a fixed pressure bar, a movable pressure bar disposed in opposed relation to the fixed bar, means for urging the movable bar toward said fixed bar, a sheet of flexible porous material secured at opposite edges to said fixed and movable pressure bars respectively so as to be spaced above said base portion in covering relation to some of said vent openings, said material being corrugated to provide alternate peaks and valleys, and a plurality of forming strips disposed within said valleys to retain the material of a skirt therein for pleating the same when the said movable pressure bar is urged toward the fixed bar.

**2,714,479**  
**EMERGENCY KEY HOLDER FOR APPAREL BELTS**  
Edward Zeltzew, Philadelphia, Pa.  
Application July 30, 1952, Serial No. 301,659  
1 Claim. (Cl. 224-26)



An emergency key holder comprising a key container including front, back, side and end walls, said end walls having access slots parallel with and contiguous the back wall as the only ways whereby keys may be passed into and out of said container, in combination with an apparel belt of a size to snugly fit and close said access slots and function as a support for said key container when the latter is assembled on said belt, the front wall of the key container being spaced a distance from the plane common to both access slots sufficient to provide a chamber for keys which will lie between the assembled belt and said front wall of said key container to which chamber access may be had only when the key container and belt are disconnected.

**2,714,480**  
**LUGGAGE CARRIER**  
George R. Harris, Montrose, Calif.  
Application August 7, 1952, Serial No. 303,106  
2 Claims. (Cl. 224-42.1)



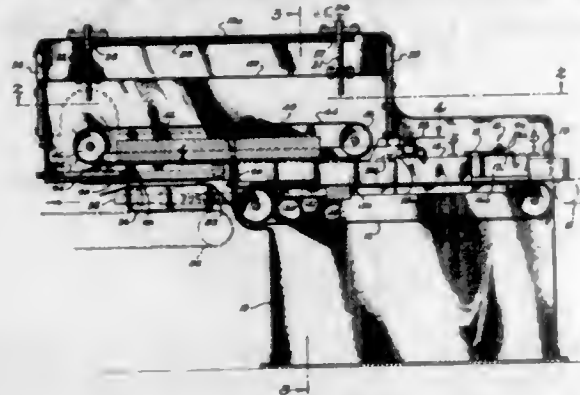
1. For attachment to the curved top surface of an automobile having drainage gutters along the curved side edges thereof, a one-piece sheet metal luggage carrier in the form of a shallow tray having vertically directed side and end flanges, the bottom corners of the tray being well rounded, brackets integral with and extending from the rounded corners of the tray near the ends of the side flanges thereof, the brackets having transverse perforations at the ends thereof for receiving straps engaging said gutters to lock the carrier in position on the top of the car, each bracket consisting of a plate laterally extending from the bottom surface of the tray, a brace extending from the flange of the tray to the plate at a point directly within the transverse perforation thereof and a web bridging the space between the brace and plate, and suction cups secured to the underside of said brackets near the outer ends thereof, the brackets being downwardly and outwardly directed to tilt the suction cups into position for correct engagement with the curved top surface of the car.

**2,714,481**  
**PACKAGING APPARATUS**  
John K. Bruce, South Pasadena, and George L. Frank, Los Angeles, Calif., assignors to Bruce Engineering Corporation, San Francisco, Calif., a corporation of California  
Application February 12, 1951, Serial No. 210,552  
12 Claims. (Cl. 226-15)

1. Apparatus for packaging containers in cartons comprising a feeder conveyor for the containers, automatic means for orienting the containers on the conveyor into groups with each group comprising a plurality of containers confined on the conveyor within an area not ex-



ceeding the area of the carton, stationary suspension means for lifting a group of containers off of the feeder



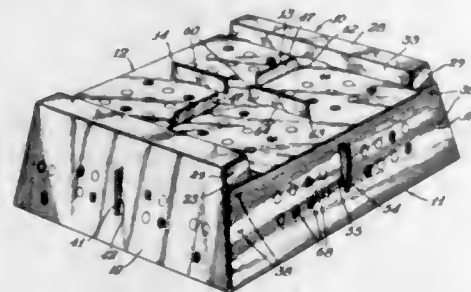
conveyor and suspending said group from above, and separate means for carrying said suspended group over an opened carton and for dropping said group into the carton.

2,714,482

**SHIPPING CONTAINER FOR LIVE CHICKS**

George P. Props, Fort Wayne, Ind., assignor to Fort Wayne Corrugated Paper Company, Fort Wayne, Ind., a corporation of Indiana

Application March 23, 1951, Serial No. 217,273  
5 Claims. (Cl. 229-6)



3. A container comprising a rectilinear bottom, opposite trapezoidal side walls extending upwardly from said bottom and connecting integrally therewith, trapezoidal end walls extending upwardly from opposite margins of said bottom and extending above said side walls, end wall flaps extending laterally from the lateral margins of said end walls and having lower free marginal edges resting on said bottom and upper free marginal edges extending parallel to the bottom at the level of the upper margins of said end walls, offset cover walls extending horizontally from the upper margins of said end walls in overlying relation to said upper free marginal edges of said end wall flaps, said offset cover walls having laterally extending offset flaps extending from the lateral edges thereof downwardly between said end wall flaps and said side walls and said offset cover walls having down-turned terminal offset flaps, a longitudinal partition extending between said end walls and having upwardly extending projections contacting the under surfaces of said offset cover walls to support the same, a top lying substantially in the plane of the upper edges of said side walls and between said terminal offset flaps and having projections extending in interlocking relation to said terminal offset flaps.

2,714,483

**HOLLOW WALLED FOLDING BOXES**

Arthur E. Randles, Redwood City, Calif., assignor, by mesne assignments, to Baljak Corporation, Wilmington, Del., a corporation of Delaware

Application November 26, 1952, Serial No. 322,610  
2 Claims. (Cl. 229-31)

1. A hollow-walled folding box made from a single blank of foldable sheet material and suited for automatic machine assembly, the box comprising, a bottom panel; outer end wall panels articulated to opposite ends of the bottom panel; a top end panel articulated to each of said outer end wall panels; the ends of the top end panels being

cut on a bias; an inner end wall panel articulated to each of said top end panels, said inner end wall panel being narrower than the outer end wall panel; a pair of outer side wall panels articulated to opposite sides of the bottom panel; a top side panel articulated to each of said outer side wall panels, the top side panel having an angular extending tab at each end underlying the top end panel in the completed box, the tab extending a substantial distance beyond the inner edge of the top side panel; a flap articulated to the ends of said top side panels and the entire extent of the tabs thereof along a fold line normal to the line of articulation between said top side panel



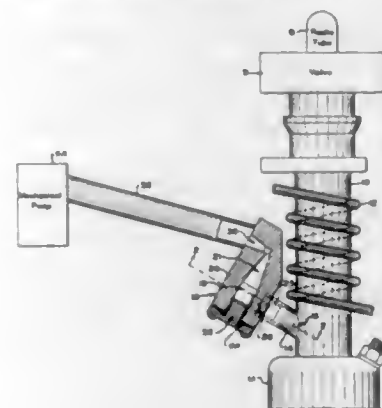
and said outer side panel, said flap lying substantially parallel to the outer end wall panel in the finished box to reinforce said tab against flexing; an inner side wall panel articulated to each of said top side panels, its line of articulation to the top side panel being shorter than the line of articulation between the top side panel and the outer side wall panel; a gusset panel at each box corner, said gusset panel having a diagonal crease line, each of said gusset panels being articulated to an outer side wall panel and an outer end wall panel, respectively, along lines of articulation forming a right angle; and a base panel articulated to each of said inner side wall panels, said base panel being secured to said bottom panel.

2,714,484

**HIGH-VACUUM DEVICE**

George W. Carr, Manchester, and Richard B. Lawrance, Cambridge, Mass., assignors to National Research Corporation, Cambridge, Mass., a corporation of Massachusetts

Application February 2, 1953, Serial No. 334,654  
5 Claims. (Cl. 230-101)



1. Apparatus for evacuating radio tubes and the like wherein the evacuating apparatus is periodically opened to atmospheric pressure as each new, unevacuated tube is connected thereto, the apparatus comprising an oil diffusion pump and means for preventing loss of oil in the form of mist due to bursts of air passing through the diffusion pump at high velocity, said means comprising a trap for centrifugally separating oil droplets from high velocity air passing through the foreline of the diffusion pump; said trap comprising means defining an upwardly extending chamber having a conical top, means connected to the diffusion pump foreline providing a tangential inlet passage for air and oil droplets entering the bottom of said chamber from the foreline, and means providing an exit passage at the apex of the conical chamber top for escape of the air to a mechanical pump, the bottom of the chamber, the inlet and exit passages being all inclined upwardly as seen from the diffusion pump so that

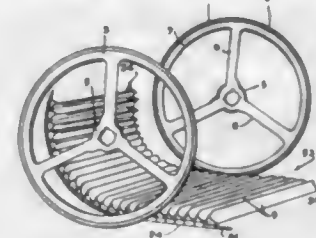
the pumped air passes upwardly from the diffusion pump and the separated oil can flow by gravity in an unobstructed path back to the diffusion pump.

2,714,485

**BLOWER ROTOR CONSTRUCTION**

Adam D. Goettl, Phoenix, Ariz.

Application June 28, 1951, Serial No. 234,001  
4 Claims. (Cl. 230-134)



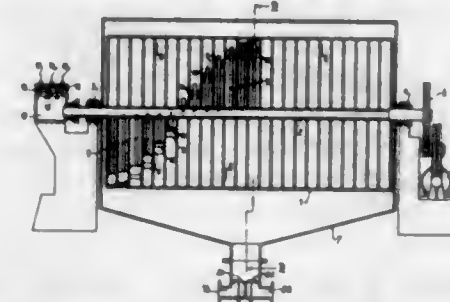
1. A blower composed of circular end pieces of sheet metal having annular grooves adjacent their peripheral edges receiving and retaining the edges of an interpositioned substantially cylindrical blade assembly consisting of a plurality of blades extending parallel to the axis of said rotor, each having struck up end portions lying substantially in radial planes relative to the rotor axis; radial tabs at the ends of said struck up portions having rolled beads along the outer edges of said tabs, wires at each end extending through said beads at each end of each blade, and the edges of said blade assembly being retained in the annular grooves of said end pieces.

2,714,486

**APPARATUS FOR THE PURIFICATION OF STARCH SUSPENSIONS**

Elerus P. Roelofs, Gasselternijveen, Netherlands

Application September 29, 1952, Serial No. 312,070  
3 Claims. (Cl. 233-29)



1. An apparatus for the purification of starch suspensions, comprising a rotary drum, a plurality of ring-shaped partitions secured to the circumferential wall of said drum, at least one supply tube opening near the circumferential wall of the drum, a partition extending inwards substantially parallel to the axis of the drum and being secured to the wall of the drum in front of the mouth of the supply tube with respect to the direction of rotation of the drum and a discharge opening being provided in the circumferential wall of the drum in front of said partition with respect to the direction of the drum rotation.

2,714,487

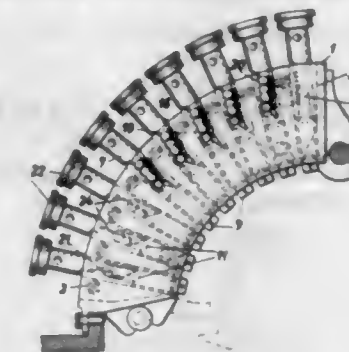
**LOCKABLE KEY BANKS FOR BUSINESS MACHINES, SUCH AS CASH REGISTERS**

Kurt Kollmann, Bielefeld, Germany, assignor to Anker-Werke A. G., Bielefeld, Germany, a corporation of Germany

Application March 8, 1952, Serial No. 275,573  
Claims priority, application Germany October 24, 1951  
4 Claims. (Cl. 235-27)

1. A lockable key bank for cash registers, calculating machines, bookkeeping machines and the like business machines, comprising a frame structure, a row of aligned push members slidably mounted on said structure, each

of said members being only axially movable in the direction normal relative said structure, each of said members having a key-controllable lock device slidably mounted on said structure to permit actuating the member upon insertion of a matching lock key, means to prevent rotation



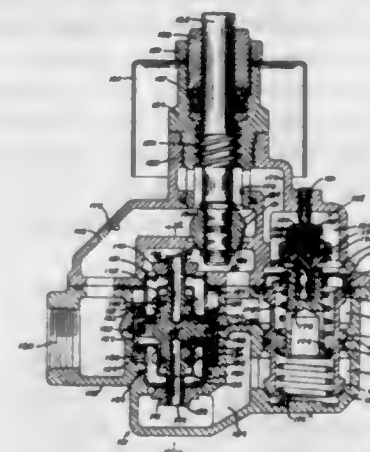
of said lock device with respect to said structure, said lock device having a single set of aligned lock bolts slidably in said member in a direction perpendicular to the axis of said member and in a plane oblique to the common axial plane of said members.

2,714,488

**MIXING VALVE**

Adolf Von Wangenheim, Detroit, Mich., assignor to Detroit Controls Corporation, Detroit, Mich., a corporation of Michigan

Application October 15, 1952, Serial No. 314,818  
4 Claims. (Cl. 236-12)

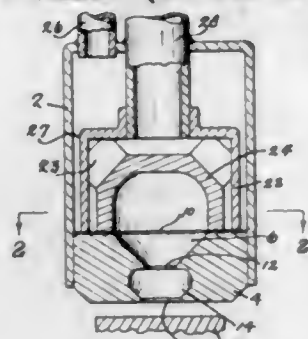


4. A temperature controlling valve comprising a casing having a lower portion and an upper portion, said lower portion having a hot liquid inlet and a cold liquid inlet, flow equalizing valve means controlling flow through said inlets, means responsive to pressure of the liquid entering said inlets and operable to actuate said equalizing valve means, means forming an annular valve seat, first and second conduits leading from said equalizing valve means, said first conduit conveying hot liquid to said valve seat, a second valve seat spaced from and concentric with said first valve seat, said second conduit conveying cold liquid from said equalizing valve to said second valve seat, a tubular valve member having its opposite end portions engageable alternately with said seats, means to guide said tubular valve member, a pair of spring means within said tubular valve member and acting in opposition to each other, thermostatic means responsive to the temperature of the liquid flowing through said valve seats and operable to move said tubular valve member to reduce flow through said first-named valve seat upon temperature increase, one of said spring means opposing such movement of said tubular valve member, the other of said spring means acting with said thermostatic means to urge said tubular valve member toward said first-named valve seat, abutment means within said upper casing portion and positioning said thermostatic means, means to adjust said abutment means to determine the temperature at which said tubular valve member will engage said first-named valve seat, a con-



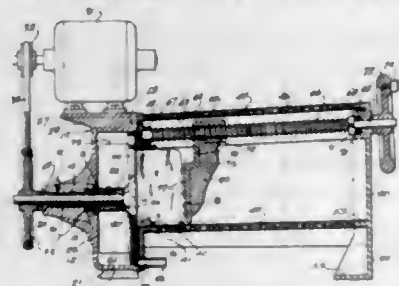
duit in by-pass relation to said tubular valve member and leading from said second conduit for conveying cold liquid, said casing having an outlet, and valve means controlling flow of mixed hot and cold liquid and of cold liquid from said by-pass conduit to said outlet.

**2,714,489**  
**SHATTER-PULVERIZING OF FRIABLE SOLIDS**  
Theodore Nagel, Brooklyn, N. Y.  
Application February 6, 1952, Serial No. 270,146  
1 Claim. (Cl. 241—39)



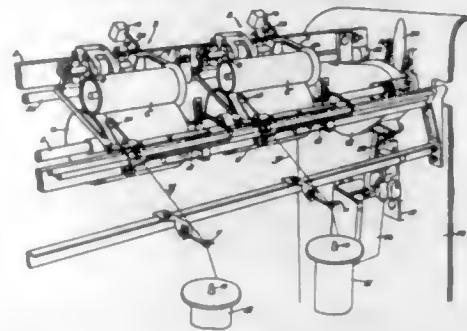
In an apparatus for shatter-pulverizing solids, the combination of means defining a confined space or chamber, said chamber being provided with an injection orifice and with an ejection orifice; a source of supply of a compressed gaseous service medium; a source of fluidized friable solids; means for continuously conducting the compressed service medium to the said injection orifice of said chamber radially of said chamber; means for continuously conducting the fluidized solids into said service medium before the latter reaches the injection orifice, the area of said ejection orifice being less than twice that of the injection orifice but at least 10% larger than that of the injection orifice; and a target adjacent the said ejection orifice against which the solids continuously discharging from the ejection orifice are impinged to shatter-pulverize the solids.

**2,714,490**  
**ICE SHAVING MACHINE**  
George W. Prechter, New Orleans, La.  
Application December 21, 1951, Serial No. 262,711  
4 Claims. (Cl. 241—92)



1. In an ice shaving machine, a hollow cylindrical cutter rotor chamber having opposed inner and outer end walls and a peripheral wall, said inner end wall having an opening through which a body of ice to be shaved can be exposed, a cutter rotor journaled on said outer end wall, said cutter rotor comprising a circular plate having a peripheral edge running close to the peripheral wall of the chamber, said circular plate having an inner side running close to said inner chamber end wall and an outer side spaced from the outer chamber end wall, circumferentially spaced radial vanes fixed on and projecting at right angles from said outer side of the circular plate, said vanes being proportioned to occupy the space between said outer chamber end wall and the circular plate and having radially outward edges running close to the peripheral wall of the chamber, radial slots in said circular plate between adjacent vanes, and radial blades on said circular plate having shaving edges projecting through the slots, said blades being disposed at angles to the plane of the circular plate.

**2,714,491**  
**INTERLOCKING CONTROL MEANS FOR THE STOP-MOTIONS OF MULTI-SPINDLE MACHINES**  
Richard G. Hilbert, Smithfield, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts  
Application September 4, 1953, Serial No. 378,620  
20 Claims. (Cl. 242—37)



1. In a multi-unit machine embodying a stop-motion for each individual unit thereof, power-means for driving said units, mechanical means for actuating said stop-motions, means for connecting the power-means to drive said stop-motion actuating means, and automatically-operated control-means for disconnecting said power-means from the stop-motion actuating means when power is cut off from the machine whereby to prevent premature actuation of the stop-motions when power is again applied to the machine.

**2,714,492**  
**REELING DEVICE**  
Robert Stock, Montreal, Quebec, Canada  
Application December 16, 1949, Serial No. 133,375  
15 Claims. (Cl. 242—55)



1. In a device of the character described, a casing, two spaced apart reels rotatively mounted inside said casing for rotating in two directions, a pulley associated with each of said reels, a flexible sheet member wound at both ends on said reels and displaceable thereby, means connecting said reels to rotate the same in a common direction, including said flexible sheet member and an endless belt capable of slipping relative to at least one of said pulleys, means for disengaging one of said pulleys from its associated reel in one direction of rotation except through said flexible sheet member, frictional means applied to one of said reels, and means effective to urge the reel winding said flexible sheet to rotate at a greater peripheral speed than the reel from which said flexible sheet is unwound, whereby said flexible sheet is wound over one of said reels against the friction exerted by the slipping of said belt and is wound over the other of said reels against the friction exerted by said frictional means.

**2,714,493**  
**CORE FOR SHEET MATERIAL**  
Alfred J. Gramp, Philadelphia, Pa.  
Application September 11, 1950, Serial No. 184,285  
6 Claims. (Cl. 242—74)

3. A non-metallic core for supporting sheet material said core carrying an externally positioned flap skived partly into the core and lying closely contiguous to the

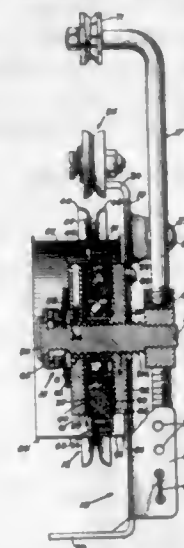
wall of the core, the flap tapering outwardly to a feathered edge substantially tangential to the surface of the core

formable to assume a substantially circular-cylindrical shape when rotating and to assume a flattened shape when not rotating.



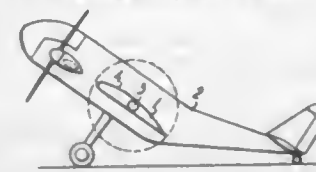
and forming a continuation of the core periphery to grip the end of sheet material inserted therein.

**2,714,494**  
**YARN TENSION COMPENSATING DEVICE**  
Edward A. Wentz, Montclair, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey  
Application September 23, 1953, Serial No. 381,930  
11 Claims. (Cl. 242—155)



1. A yarn tension compensating device comprising a support, an internally screw threaded sleeve connected to said support, a grooved wheel rotatably mounted on said sleeve having a brake surface at one side thereof, brake means in frictional contact with said surface, an externally screw threaded member having means at one end for operating said brake means, said member being threaded through said sleeve and cooperating therewith to vary the effectiveness of said brake means, spring means on said support for urging said member in a direction to cause said brake means to be rendered effective, and a yarn tension responsive arm connected to said member for decreasing the effectiveness of said brake means in response to an increase in yarn tension.

**2,714,495**  
**AIRCRAFT WITH ROTARY DEFORMABLE-SECTION SUSTAINING WING**  
Henrich Carl Johann Focke, Amsterdam, Netherlands, assignor to Ministerio da Aeronautica, Diretoria do Material, Rio de Janeiro, Brazil  
Application May 20, 1952, Serial No. 288,832  
Claims priority, application Netherlands May 23, 1951  
7 Claims. (Cl. 244—10)



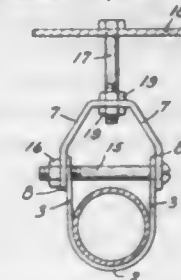
1. In a flying machine having a fuselage with propeller means thereon having a slipstream with a horizontal component and wing means lying in the slipstream; means supporting at least a portion of said wing means for rotation about an axis transverse to said fuselage, and the said portion of said wing means being de-

**2,714,496**  
**ANTENNA MAST ASSEMBLY**  
Norman V. Doyle, Marlin, Tex.  
Application June 15, 1953, Serial No. 361,561  
3 Claims. (Cl. 248—38)



3. An antenna mast assembly including, an elongate sectional mast adapted to extend from ground level adjacent a building to a point considerably elevated above the roof of the building, an elongate tubular sleeve slidably receiving the mast and through which at least those sections of the mast above the lowermost section are slidable, the sleeve being of sufficient length to extend vertically from below the roof of the building to a point well thereabove, supporting means holding the sleeve against lateral movement but permitting vertical movement of the sleeve, said supporting means being tightenable for holding the sleeve vertically elevated, releasable means for securing the mast against movement in the sleeve, a ground support for the lower end of the mast, and means for holding the lower end of the mast against lateral movement, the lower end of the sleeve being spaced above the ground support a distance greater than the length of the lowermost mast section when the sleeve is held vertically elevated by tightening of the supporting means.

**2,714,497**  
**PIPE HANGER**  
Robert B. Denis, West Springfield, Mass., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware  
Application July 25, 1951, Serial No. 238,516  
1 Claim. (Cl. 248—62)



A pipe hanger which comprises a saddle member having a substantially semi-circular seat adapted to receive the pipe to be suspended, a pair of substantially flat, parallel side arms merging substantially tangentially with said semi-circular seat and lying in substantially vertical planes, a yoke member having a central, horizontally disposed bearing portion, intermediate downwardly and outwardly inclined spacing portions integral with the ends of said central portion, and flat parallel end portions integral with the free ends of said intermediate portions and ex-

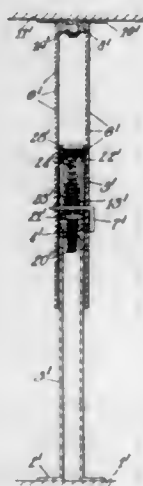


tending vertically downwardly therefrom, the spacing between said end portions being such that said side arms are received therebetween in overlapping contiguous relationship and closely cooperate therewith to provide resistance to inward bending of said end portions, said overlapping portions having aligned openings, a bolt extending through said openings and interconnecting said overlapping contiguous portions, and a nut threaded on said bolt to maintain the two members in snug relationship along the axis of the bolt, so that one end of the yoke member is substantially fixed between the bolt head and an upstanding portion of the saddle member, with the other end substantially fixed between the nut and the other upstanding portion of the saddle member, said relationship also providing that the load of the pipe exert bending forces on the bolt such that the central portion of the bolt tends to bend toward the pipe, and that downward bending of the intermediate and parallel end portions of the yoke member about the bearing portion is minimized, said flat end portions and said side arms being so constructed and arranged as to remain in said contiguous relationship throughout distortion and inward movement along the bolt due to load and thus minimizing the bending moment imparted to the bolt at each side of the hanger, and a suspension means connected with said central bearing portion for support of the hanger.

2,714,498

## PROPS OR SHORES

Ernst Wüthrich, Erlenbach, near Zurich, Switzerland, assignor to Societe Financiere pour l'Industrie Metallurgique S. A., Geneva, Switzerland  
Application April 24, 1952, Serial No. 284,190  
Claims priority, application Switzerland April 30, 1951  
6 Claims. (Cl. 248—354)



1. A prop or shore comprising an inner tube, an outer tube fitting telescopically thereover and provided with vertically spaced holes, screw means for expanding or shortening the length of the prop or shore, a pile of discs having bevelled edges supported on the upper end of the inner tube and individually displaceable in the axial direction inside the outer tube and of total height corresponding approximately to the distance between two adjacent holes of said spaced holes in the outer tube, and a pin adapted to be selectively inserted through one of the holes in the outer member and disc pile, after extending the prop or shore telescopically to a desired separation.

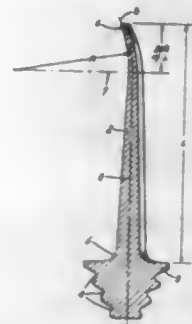
2,714,499

## BLADING FOR TURBOMACHINES

Donald F. Warner, deceased, late of Marblehead, Mass., by Mildred R. Warner, executrix, Marblehead, Mass., assignor to General Electric Company, a corporation of New York  
Application October 2, 1952, Serial No. 312,766  
5 Claims. (Cl. 253—77)

1. A turbomachine blade having spaced root and tip sections and an intermediate section spaced from the

root section by an amount of the order of 80 percent of the spacing between the root and tip sections and having leading and trailing edge portions, and all sur-

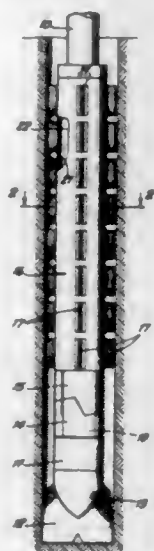


faces of the blade having curvilinear elements in all directions between the intermediate section and the tip section and between the leading and trailing edge portions.

2,714,500

## IMPACT DRILL

Robert E. Snyder, Pasadena, Calif., assignor to Snyder Oil Tool Corporation, a corporation of California  
Continuation of application Serial No. 734,990, March 15, 1947. This application February 6, 1952, Serial No. 270,189  
6 Claims. (Cl. 255—3)



1. A drill of the class described which includes: a shank adapted to be rotated in a well having drilling fluid therein; a body mounted on said shank for rotation with respect to the wall of said well, said body having a series of generally longitudinally extending slots therein; a series of T-shaped blades having resilient stem portions extending generally radially through said slots to engage said fluid, said stem portions being of sufficient stiffness to develop a torque retarding the rotation of said body, and of sufficient resilience to pass over any obstacles of a type normally encountered in wells, said blades being progressively circumferentially deflected as said torque developed by their passage through said fluid is increased; and a liner within said body bearing against the cross-bar portions of said T-shaped blades to hold said blades in place.

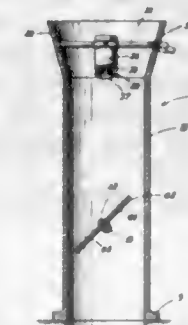
2,714,501

## FUEL INJECTOR FOR INTERNAL COMBUSTION ENGINES

Arthur G. Sellers, Stockton, Calif., assignor of one-half to Walter H. Ireland, Manteca, Calif.  
Application May 24, 1952, Serial No. 289,841  
2 Claims. (Cl. 261—36)

1. A fuel injector, for an internal combustion engine, comprising a fuel tank, a carburetor unit arranged for communication with the intake manifold of an engine, a fuel conduit system connected between the tank and the carburetor unit, a pump interposed in said conduit

system, and an operator controlled metering valve unit interposed in said conduit system between the pump and said carburetor unit; the latter comprising an elongated intake sleeve, a butterfly type throttle valve in the intake sleeve intermediate its ends, means linking the throttle valve and metering valve unit for actuation in unison, a mounting spider in the sleeve toward its outer end from the throttle valve, a fuel discharge nozzle secured centrally on the spider and facing the throttle valve and means connecting the fuel conduit system with the

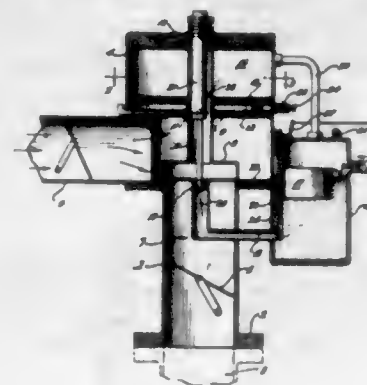


interior of the nozzle; the nozzle including a body having an internal chamber and a bore extending from said chamber to the discharge end of the nozzle, and said bore having a longitudinally fluted portion; and a check valve adapted to open in the direction of the throttle valve, the check valve comprising a stem slidable in the fluted portion of the bore, a conical valve on the outer end of the stem adapted to engage a seat on the body, the bore opening through the seat, and a spring in the chamber yieldably urging the stem axially inwardly.

2,714,502

## CARBURETOR OF THE VACUUM CONTROLLED TYPE

Harry W. McClain, Long Beach, Calif.  
Application January 16, 1953, Serial No. 331,668  
4 Claims. (Cl. 261—44)



1. A carburetor comprising a cylinder, a pipe depending from the cylinder, a throttle valve in the pipe, an air intake pipe extending into the cylinder, said cylinder having a chamber therein into which said pipe opens and said air intake pipe extends, a transverse wall in the cylinder defining the top of said chamber, a piston in said cylinder, means on the piston movable with relation to said pipe to control the flow of air into said pipe, a fuel chamber, a fuel pipe extending from the fuel chamber into said first named pipe, and a needle valve projecting from the piston and extending into the fuel pipe to control fuel flow from the fuel pipe, said cylinder having a chamber therein above the piston, and conduit means open to said first named pipe and opening into the last named chamber to evacuate the last named chamber and cause the piston to rise in the last named chamber, an altitude compensator comprising a pipe extending from the top of said fuel chamber and into the last named chamber, said fuel chamber having an air bleed port therein extending into the top thereof.

2,714,503

## CARBURETOR JET

Harry F. Heisler, Hudson, Iowa  
Application January 14, 1953, Serial No. 331,284  
2 Claims. (Cl. 261—78)

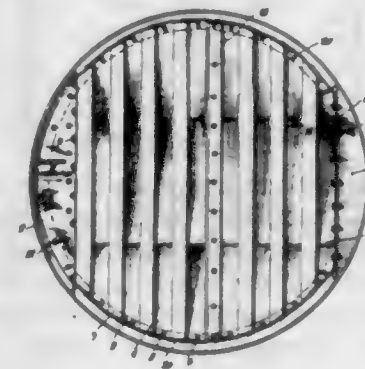


1. A carburetor dispersal jet comprising, a tube, a concavo-convex plate having a diameter greater than that of the diameter of said tube secured to and closing one end of said tube with the convex side facing said tube end, a funnel shaped element having a diameter greater than that of the diameter of said plate secured to said tube near said concavo-convex plate; said tube having metering orifices formed therein between said concavo-convex plate and said funnel shaped element and discharging laterally directly toward the inside of said funnel shaped element, and means formed at the other end of said tube for securing it to a carburetor jet supply passageway.

2,714,504

## LIGHT WEIGHT FRACTIONATING TRAY

Vernon O. Bowles, Rye, N. Y., assignor to Socony Mobil Oil Company, Inc., a corporation of New York  
Application December 17, 1952, Serial No. 326,481  
12 Claims. (Cl. 261—114)



11. In combination with a tower, a fractionating tray comprising a plurality of troughs spaced at uniform intervals transversely across the tower and arranged in coplanar relationship one with the other, a plurality of L-shaped sections having the horizontal legs thereof attached to the downstream edges of each of the aforementioned troughs, the vertical legs of said sections being serrated and pointing downward and overhanging into adjacent troughs, thereby affording passages for the upward flow of vapor therethrough, a plurality of end closure plates perpendicularly affixed to either end of the troughs and overhanging sections, a plurality of stiffening webs extending across the troughs in a right angle direction thereto, each of said end closure plates overlapping one another and having a recessed slot extending vertically from the lower edge thereof at a point corresponding to the juncture of the upstream wall of the adjacent downstream trough and the end closure plate affixed to said adjacent trough, the slotted edge in each of said plates engaging the upstream wall of the adjacent downstream trough, said stiffening webs being slotted and the slots therein engaging the serrated edges of said overhanging vertical legs to afford a rigid combination of stiffened interlocking troughs.



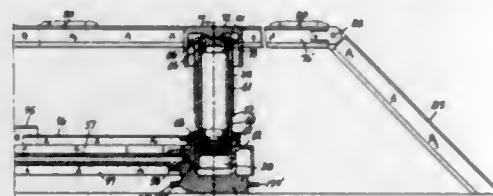
2,714,505

**APPARATUS FOR MINE ROOF CONTROL**

Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application May 1, 1948, Serial No. 24,574

8 Claims. (Cl. 262—1)



3. In a walking jack mechanism, a base, a roof support having forward and rearward ends, a jack on said base for adjusting said roof support, means in advance of said jack for advancing it relative to a working face, and a fender pivotally connected to the rearward end of said roof support and extending obliquely rearwardly therefrom into engagement with a mine bottom.

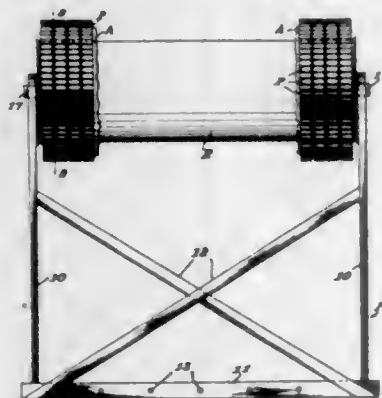
2,714,506

**STRUCTURE FOR REMOVING ICE FROM A ROADWAY**

Ralph D. Hansen, Sioux Falls, S. Dak.

Application March 4, 1953, Serial No. 340,205

2 Claims. (Cl. 262—19)



1. A structure for removing ice from a roadway comprising a truck attachable frame, an elongated rubber roller having stub shafts molded in each end of said roller axially thereof, the other ends of said stub shafts being rotatably engageable with said frame, a cushion pad removably surrounding the rubber roller, and a multiplicity of plates each including a base portion secured to the pad, and a road engageable portion projecting radially outwardly of the roller.

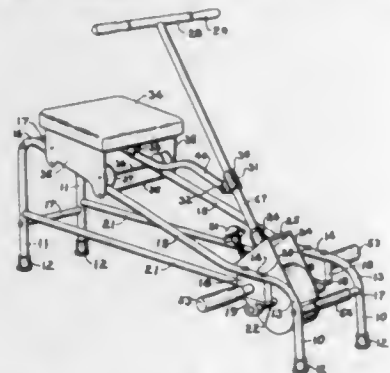
2,714,507

**EXERCISING MACHINE**

Norris E. Goodrich, Battle Creek, Mich.

Application September 19, 1950, Serial No. 185,651

8 Claims. (Cl. 272—72)



1. In a rowing type exercising machine, an operating lever movable rearwardly and forwardly by rowing movements of the user, a frame comprising side members, each having rear and front legs and a track inclined downwardly from the rear leg to the front leg of the machine,

a seat for the user traveling on said inclined track, a one-piece link having connection with said seat and said lever, the connection of the link with the lever being shiftable along said lever, means for securing said link in selected shifted relation on the lever, and a foot rest projecting outwardly of the forward lower end of each side frame member.

2,714,508

**PIT CLEARING CONSTRUCTION FOR BOWLING PIN HANDLING MACHINES**

Frank W. Anderson, North Weymouth, Mass., assignor to Murphy Automatic Pinsetter Company, Inc., Cambridge, Mass., a corporation of Massachusetts

Original application December 16, 1949, Serial No. 133,385. Divided and this application November 28, 1952, Serial No. 323,110

4 Claims. (Cl. 273—43)



1. In a pin handling machine for bowling alleys wherein a pit is provided at the rear end of the alley to receive pins and balls from the alley, the combination with such pit of a rotary disc set therein having an upwardly coned surface, an upstanding guard about the periphery of the disc of a height to intercept fallen balls and pins at the periphery of the disc, the upper surface of the disc being smooth and unobstructed between its apex and said guard, the guard having a gap in the rear semi-circumference of the disc substantially of the length of a pin for the discharge of successive pins outwardly from the surface of the disc and across the periphery thereof and conveyor means adjacent the gap to receive the objects passing therethrough.

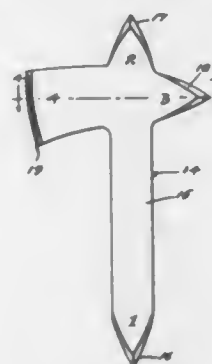
2,714,509

**WEAPON THROWING GAME**

James C. Ramsey, Lincoln, N. Mex.

Application January 2, 1952, Serial No. 264,489

1 Claim. (Cl. 273—106)



In a game of skill, a target and a weapon adapted to be thrown at said target, said weapon comprising a substantially flat blank formed with a plurality of fixed sharpened target engaging elements extending in a plurality of directions in the plane of the blank, each of said elements extending at an angle of substantially 90° relative each adjacent element, one of said elements comprising a blade, and the remainder of said target engaging elements comprising sharpened points.

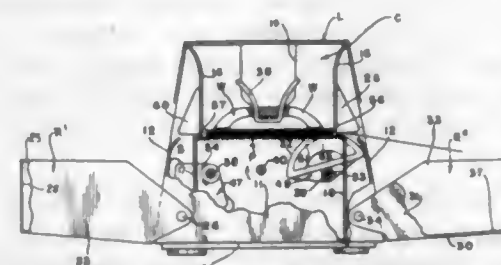
2,714,510

**MECHANICAL CARD SHUFFLER**

Richard C. Oppenlander, Englewood, and John C. Rowley, Jr., Denver, Colo., assignors, by mesne assignments, to Rocco Products Inc., Minneapolis, Minn., a corporation of Minnesota

Application June 12, 1950, Serial No. 167,574

5 Claims. (Cl. 273—149)



1. In a mechanical card shuffler, a support member for a pile of cards, a member cooperating with the support in spaced relation directly above the top surface of the support for defining a gap centrally of the length of one side of the pile of cards when placed on the support, said gap being in length a fraction less than one-fifth of the length of said one side of the pile of cards and having a dimension through which a card can pass only slightly greater than the thickness of a card, means acting against the bottom card of the pile on each end portion only thereof to move the bottom card in the plane thereof through the gap, and means comprising a vertically positioned plate projecting from a point at the gap outwardly beyond the gap for preventing a card from moving upwardly from the gap after being moved there-through.

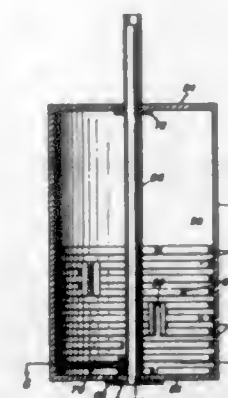
2,714,511

**MAZE PUZZLE**

Donald J. Derrig, Watkins Glen, N. Y., assignor of fifty per cent to Rocco Sindoni, Waverly, N. Y.

Application September 30, 1952, Serial No. 312,335

2 Claims. (Cl. 273—153)



1. A puzzle comprising a cylindrical container having inner and outer side walls and end walls affixed to said side walls, an axial rod extending between said side walls, a tubular sleeve shaft rotatably mounted on said rod extending through an end wall and into said cylindrical container, a laterally extending arm on said shaft, and a plurality of spaced annular ribs on the inner walls of said container forming trackways therebetween, the outer end of said arm riding in one of said trackways, said ribs each having a transverse slot therein through which the arm can enter the next trackway, and a plurality of stops extending between said ribs in said container, said arm being engageable with said stops to prevent rotation of said shaft throughout 360° between any pair of said ribs.

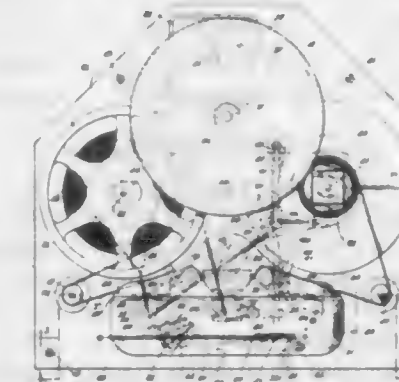
2,714,512

**EQUIPMENT FOR USE WITH MAGNETIC TAPE RECORDS**

Frank J. Reed, Philadelphia, Pa., assignor to The International Electronics Company, Philadelphia, Pa., a corporation of Pennsylvania

Continuation of application Serial No. 101,052, June 24, 1949. This application May 26, 1954, Serial No. 432,405

10 Claims. (Cl. 274—4)



1. Equipment for use with magnetic tape records comprising in combination with a pair of reels between which a tape record is adapted to be fed, a tape driving capstan adapted to engage a tape in the path of feed between the reels, a displaceably mounted tape guide adapted in a first position to guide a tape in driving engagement with said capstan and in a second position to release such driving engagement, said tape guide being yieldingly held in said first position but being displaceable to release the driving engagement of the tape with the capstan under the influence of excessive tensioning of a tape, a tape scanning device also adapted to engage a tape in the path of feed between the reels, said scanning device being mounted for displacement toward and away from the tape, and mechanism providing for displacement of the scanning device away from the tape upon displacement of said guide from the first to the second position.

2,714,513

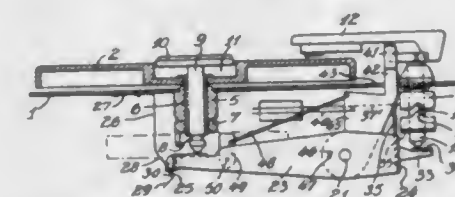
**CONTROL DEVICE FOR PHONOGRAPHS, ELECTROMAGNETIC REPRODUCERS, AND THE LIKE APPARATUS**

Marcel Jules Helene Staar, Woluwe-Saint-Pierre, Belgium, assignor to Usines Gustave Staar, Societe Anonyme, Brussels, Belgium

Application April 27, 1951, Serial No. 223,356

Claims priority, application Belgium April 28, 1950

11 Claims. (Cl. 274—9)



1. In combination with phonographs, electromagnetic reproducers and the like record reading devices, the provision of a support, a turn-table thereon, adapted to carry a record, a stop located normally in the vicinity of the location of the periphery of the record during the playing thereof, and adapted to be urged sideways by the record when shifted transversely over the turn-table, a tone arm adapted to cooperate with the record, centering means adapted to be shifted vertically into register with the central opening of the record during the playing thereof, means associated with the tone arm to rise and sink therewith with reference to the record, a motor driving the turn-table, a circuit feeding same, a switch controlling said circuit, a control lever adapted to pivot round a horizontal axis with reference to the support, means actuatable by said control lever control in timed succe-



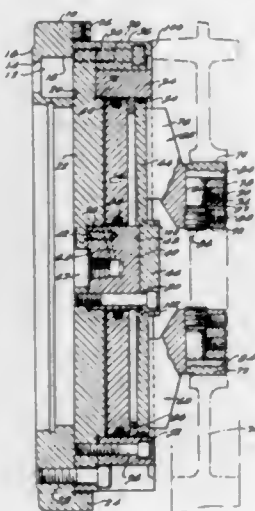
sion the movements of the centering member, the means associated with the tone arm and the switch in the circuit and means controlled by the stop, controlling said control lever for rocking the latter, a hollow spindle arranged axially of the turn-table and rigid therewith, a cam rigid with the lower end of said hollow spindle, a catch adapted to be engaged by said cam, a member carried by the tone arm so as to cooperate with the stop in such a manner that the stop returns to its position and the catch is urged into the path of the cam when the sound-collecting needle has engaged the terminal section of the record groove, said catch being adapted when engaged with the cam to return the control lever into its starting position.

2,714,514

**INTERNAL DIAPHRAGM CHUCK**

George Hohwart, Farmington Township, Oakland County, and Ernest F. Hohwart, Detroit, Mich., assignors to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan

Application March 8, 1954, Serial No. 414,792  
8 Claims. (Cl. 279—1)



1. An internal diaphragm chuck comprising a backplate, an annular wall mounted on and extending from said backplate, a central hub also mounted on said backplate and extending therefrom in the same direction as said annular wall, a flexible and resilient diaphragm fastened centrally to said hub projecting radially therefrom with the periphery thereof in proximity but spaced from said annular wall, means sealing the annular space between said diaphragm and said wall, an annular piston interposed between said back plate and said diaphragm, sealing means between and engaging the periphery of said piston and said annular wall, sealing means between and engaging the inner edge of said piston and said hub, an annular spacer between the periphery of said piston and the periphery of said diaphragm, means for admitting fluid under pressure behind said piston for advancing the same against said spacer to flex the periphery of the diaphragm outwardly, work-carrying jaws on said diaphragm movable into a work-releasing and -receiving position by flexure of said diaphragm, and stop means on said annular wall engageable by the work when pressure against said diaphragm is released, said stop means supporting the work radially outwardly of the jaws and locating the same axially on the chuck.

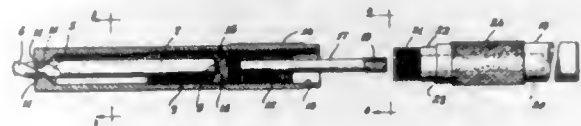
2,714,515

**EXTENSION CHUCK FOR TWIST DRILLS**

William J. Faso, Huntington Station, N. Y.  
Application June 29, 1953, Serial No. 364,607  
4 Claims. (Cl. 279—89)

1. In an extension drill chuck, a twist drill having spiral flutes and spiral blades at one end portion and a

shank portion at the opposite end, a tubular chuck member having an opening forming a sliding fit with the blades of the drill and arranged with projections extending into the opening and engaging the spiral flutes of the drill and abutting the drill shank portion to limit outward movement of the drill through said opening, a locking member adjustably mounted in an intermediate portion of the bore of the chuck member and having a stem of less diameter than the bore of the chuck member extending from one end of the locking member concentrically of the bore of the chuck member and adapted to project from the end of the chuck member opposite the end arranged with the projections with the opposite end of the locking member abutting one end of the drill shank



portion and retaining the other end of the drill shank portion against the projections of the chuck member, and an extension rod having one end portion arranged to be engaged in the chuck bore, said end portion of the extension rod having an elongated recess therein to engage the projecting end of the stem of the locking member and said end portion of the extension rod having the elongated recess therein removably connected to an intermediate portion of the chuck bore between the locking member and the end of the chuck member opposite the end arranged with the projections, the engagement of the stem of the locking member with the elongated recess guiding said end of the extension rod into the chuck bore.

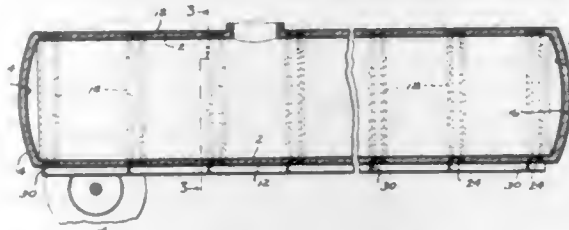
2,714,516

**LIQUID TRANSPORTING TANKS**

David S. Brown, Fanwood, N. J.

Continuation of application Serial No. 54,376, October 14, 1948. This application February 3, 1955, Serial No. 485,981

9 Claims. (Cl. 280—5)



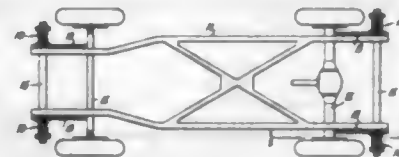
1. In a tank truck or trailer for use in transporting perishable liquids over highways and in which an elongated tank is designed for support near its ends over the vehicular wheels, the combination with laterally spaced reach bars extending approximately from end to end of said tank, of a tank comprising an inner liquid container of suitable corrosion-resisting metal and an outer metal jacket, too thin to constitute weight-carrying structural elements in themselves, and a layer of insulating material of substantial inherent structural strength located between and so intimately bonded to the metal layers that the three layers form a substantially integral weight-supporting and stress resisting means, the elongated body of said tank being of curved section and having between the container wall and the jacket stress rings located at intervals along the length of the tank and so securely bonded to the container jacket as also to form reinforcing parts of the substantially integral weight-supporting and stress-resisting structural means, transverse contour-fitting cross supports being secured to the outside of said jacket opposite the stress rings, said cross supports extending between and being secured to the reach bars.

2,714,517

**SUSPENSION SYSTEM**

Hugh S. Powell, Menlo Park, Calif., assignor to Powell Spring Company, San Francisco, Calif., a corporation of California

Application January 31, 1950, Serial No. 141,412  
5 Claims. (Cl. 280—124)



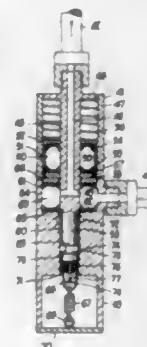
1. In an automobile suspension system, a spindle secured to the frame of said vehicle, a suspension arm operatively connecting said spindle to the axle of the vehicle, a tubular member formed of deformable material and positioned about said spindle, a spring mounted on said spindle and wrapped about said tubular member, one end of said spring being secured to said spindle and the other end of said spring being secured to said suspension arm and tending to overcome the force exerted by the weight of the vehicle, said tubular member being provided with a co-axial chamber and means for forcing fluid into and out of said chamber to increase or decrease the resistance offered by said tubular member to said spring.

2,714,518

**COUPLING FOR HOSES OR PIPES**

Valentin Balass, Zurich, Switzerland, assignor to Tecno Trade Anstalt, Mauren, Liechtenstein, a corporation of Liechtenstein

Application August 25, 1953, Serial No. 376,475  
Claims priority, application Switzerland  
January 17, 1953  
2 Claims. (Cl. 284—16)



2. A fluid conduit coupling comprising a first section and a second section; said first section having an axial bore therein, a chamber adjacent to said bore and including a radial passageway extended outwardly for connection to a fluid conduit, a device slidably mounted in said bore for sealing said chamber from said bore when the sections are uncoupled, releasable means for locking said device against movement when it is in the sealing position, and a spring between said section and device urging said device away from said sealing position; said second section having a rod, said rod having an axial passageway adapted to be coupled at one end to a fluid conduit and terminating at the other end in radial ports leading to the exterior of said rod, a casing slidably mounted on and surrounding said rod; a spring urging said casing to a position sealing said radial ports; said rod having a key portion extending beyond said ports; in the coupled position of said sections, said key portion being adapted to release said locking means and to engage itself with said slidable device whereby the latter is moved from sealing position by said rod and the casing in said second section is moved from sealing position by the end of the first section.

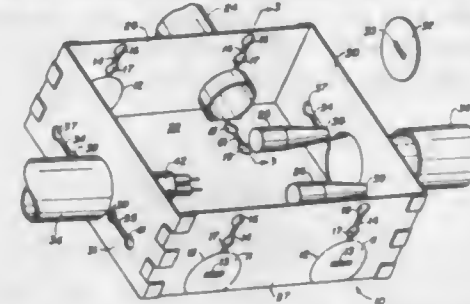
2,714,519

**OUTLET BOX HAVING AN INTEGRAL CONDUIT SECURING MEANS**

Arlie D. Hill, San Diego, Calif.

Application June 9, 1953, Serial No. 360,622  
5 Claims. (Cl. 285—24.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)



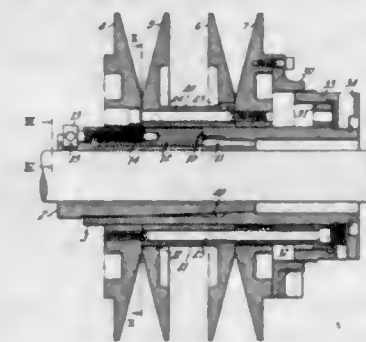
1. A conduit box comprising a portion defining an opening, a plurality of apertures spaced from said opening in diametrically opposite directions, and diametrically extending slots connecting said opening and said apertures, whereby a tool may be forced into one of said apertures to expand said opening to receive a conduit of slightly greater size.

2,714,520

**FASTENING DEVICE FOR SECURING MECHANICAL MEMBERS TO SHAFTS OR THE LIKE**

Erwin W. Krause, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application March 6, 1952, Serial No. 275,122  
2 Claims. (Cl. 287—52.06)



1. Fastening means for attaching a pulley or the like to a shaft, comprising: an annular longitudinally split support member having a shaft engaging bore and an externally tapered surface portion; a longitudinally split hub member having a cylindrical external surface and a tapered bore fitting said tapered surface portion; said members jointly defining a keyway between them which is formed by a longitudinally extending aperture in said hub member and a longitudinally extending recess in the exterior of said support member, said recess being of greater length than said aperture and radially aligned with said aperture; a key disposed in said keyway having a threaded longitudinal bore, the length of said key being the same as the length of said aperture such that it is axially movable with said hub member and axially movable relative to said support member; a rotatable actuating screw threadedly engaging said threaded bore of said key and being axially fixed relative to said support member; and means for rotating said screw to effect relative axial movement of said members whereby said support member contracts radially for clamping engagement with a shaft and said hub member expands radially for clamping engagement with a pulley or the like.

2,714,521

**POLARIZED SAFETY LOCK SYSTEM**

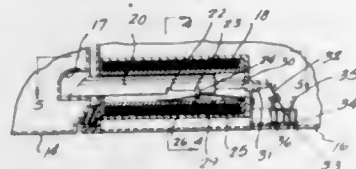
Ralph X. Graham, East Braintree, Mass.

Application April 21, 1953, Serial No. 350,191  
4 Claims. (Cl. 292—144)

1. An electrically operated door lock system for a motor vehicle comprising a door lock having a bolt-



operating solenoid, a permanently magnetized bolt controlled by said solenoid, a source of current, circuit means connecting said source to said solenoid and including a manually operated reversing switch arranged to selectively energize said solenoid with current from said source in either direction, the solenoid being arranged to move said bolt to locking position when energized with current in one direction and to move said bolt to unlocking position when energized with current in the opposite direction, an inertia-operated reversing switch in said circuit means

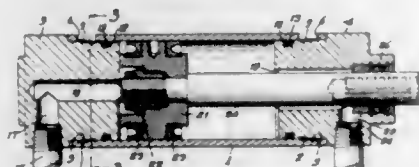


between said manually operated reversing switch and said source, said inertia-operated switch having contact means normally in circuit with and connecting said source to said manually operated switch and other contact means arranged to at times reverse the polarity of the current applied to said manually operated switch, and magnetically controlled detent means in said solenoid lockingly engaging said bolt and being movable away from locking engagement with the bolt responsive to energization of the solenoid.

2,714,522

#### FASTENING MEANS FOR PRESSURE CYLINDER CLOSURE

Robert E. Becker, Logansport, Ind., assignor to Logansport Machine Company, Inc., a corporation of Indiana  
Application April 1, 1950, Serial No. 153,326  
1 Claim. (Cl. 292—256.6)



An air cylinder including an open-ended tube, a cylindrical head penetrating and rotatable with respect to the tube, the outer wall of said cylindrical head being in engagement with the inner wall of said tube, opposed grooves of substantially equal triangular cross section in the inner wall of the tube and the outer wall of the head, said grooves together forming an annular chamber partly in the tube and partly in the head, a slot through the wall of the tube communicating with the chamber, a thin flexible tape in said chamber having a thickness substantially equal to the depth of said grooves, a width substantially equal to the width of said slot and a length substantially equal to the circumference of the chamber, said tape having one end detachably anchored to the head within the groove in the head, said tape being thereby drawn into the chamber in response to relative rotation of the tube and head to fill said chamber and to distort the tape into a frusto-conical ring having the entire inner circumferential edge thereof in contact with said head and having the entire opposite circumferential edge thereof in contact with said tube.

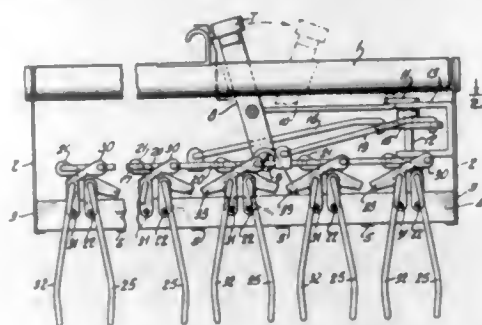
2,714,523

#### EGG LIFTER

George N. Bliss, Ithaca, N. Y.  
Application April 10, 1952, Serial No. 281,640  
8 Claims. (Cl. 294—87)

8. In a lifter for rounded domed objects in rectangular holes, the combination of a frame, a handle attached to said frame, parallel rockshafts on said frame, an operating linkage for said rockshafts, lifting units operated by said rockshafts, said units being spaced in accord with the spacing of said rectangular holes, the lifting unit compris-

ing a pair of cranks movable in opposite directions thru a limited arc by a pair of said rockshafts, said pair of rockshafts serving a number of similar units, rigid lifting prongs loosely mounted on said cranks so that the cranks may swing them loosely toward and away from each other by partially rotating the rock shafts, and limiters for forcing the prongs to grasp the rounded object after the prongs are inserted around it in the rectangular hole, said limiters having outer fulcrums located between the pivots

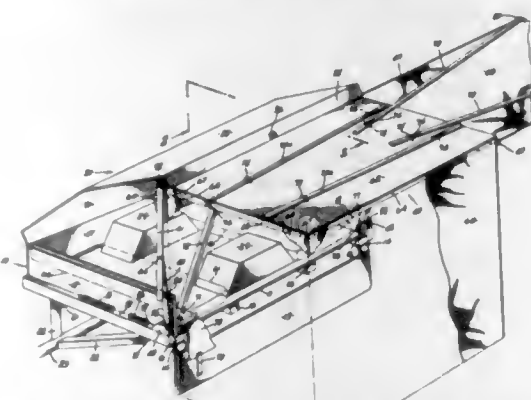


of said prongs and their tips so that when the pivots of the prongs are forced apart by the cranks the tips of the prongs are forced inward to grasp the object, said fulcrums coming in contact with the prongs only in their grasping position, the prongs being free from fulcrums during the initial inserting and sliding movements of the prongs so that they can guide themselves around the domed object without restraint by crank or fulcrum, whereby resistance to insertion is reduced.

2,714,524

#### CAMPING TRAILER WITH HINGED COVER AND ROOF EXTENSION

Sylvan J. Swiggum, El Monte, Calif.  
Application November 4, 1952, Serial No. 318,642  
4 Claims. (Cl. 296—23)



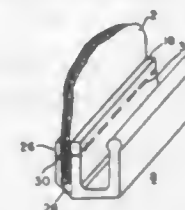
1. An ambulatory automobile trailer comprising an open-topped body having a side wall pivoted about a horizontal axis for movement into a downwardly depending position, a cover pivotally connected to said body along its side spaced from said pivoted side wall and including a top surface spaced from the upper edge of said body and sized as to overlie said body in one position, collapsible supporting means pivoted to said cover and to said body adjacent said pivotal side and movable between a collapsed position adjacent and between said body and cover and an extended aligned supporting position in which it extends therebetween and functions to support said cover in its raised position, and a rigid top member having a surface area substantially equal to the area of said body and slidably supported by said cover at one of its sides for sliding movement between an underlying position, in which it is positioned below and within the horizontal limits of said cover, and a raised position in which it extends outwardly from said cover in a raised position of the latter and from its sliding support thereon and overhangs said body, and strut elements pivotally connected to said top at points spaced from the sliding support of the latter with said cover and to said body and pivotally interconnected as to be movable between a folded position in

which they extend within said body with said top in its lowered position and in alignment in a second supporting position with said top in its raised position.

2,714,525

#### FLEXIBLE DRIP MOLDING

Milton Kessler, Youngstown, Ohio  
Application March 19, 1953, Serial No. 343,321  
4 Claims. (Cl. 296—107)



1. A flexible drip molding for a fabric rain covering consisting entirely of a continuous strip of flexible molding comprising a water-receiving channel-shaped member having a front and a rear wall, joined at the bottom to form said channel-shaped member and a smaller fabric-receiving channel formed between said rear wall and a third wall integrally joined at its lower edge to said rear wall at the bottom edge of the latter, the whole comprising a homogeneous, flexible, unitary member.

2,714,526

#### THERMOSTAT

Frank Reingruber, Yonkers, and Joseph Reingruber, Astoria, N. Y.

Original application October 26, 1945, Serial No. 624,674, now Patent No. 2,584,924, dated February 5, 1952. Divided and this application January 5, 1952, Serial No. 265,144

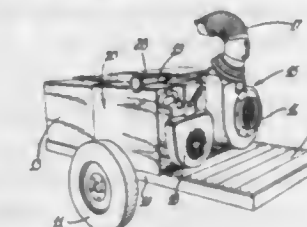
1 Claim. (Cl. 297—11)



In a thermostat a linearly expansible and contractible bar having a relatively high coefficient of expansion, a spring member having a lower coefficient of expansion, said spring member being sharply bent at its center in the form of a crotch and having a straight leg extending from each side of the crotch to the bar, each leg terminating at the end in a sharply bent toe secured in flat engagement on an end of the bar and an element arranged in the crotch and tensioned against the spring member, said element being movable with the spring member upon the expansion and contraction of the bar, each leg of the spring member being normally straight at one temperature and under expansion of the bar with increase in temperature being convexly curved adjoining the toes and concavely curved adjoining the crotch, thereby effecting magnified movement of the crotch toward the bar and whereby relatively small linear expansion of the bar is translated into greater amplified movement at the crotch for accomplishing a sensitive, more rapid action of the element controlled by said crotch.

2,714,527

SLIDABLE COVER FOR PORTABLE SPRAYER  
Clayton H. Thompson, Elgin, Ill., assignor to Elgin Sweeper Company, Elgin, Ill., a corporation of Illinois  
Application January 5, 1953, Serial No. 329,529  
7 Claims. (Cl. 299—29)



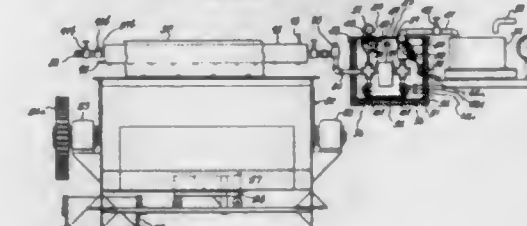
1. In a portable sprayer, a chassis, a tank of material to be sprayed thereon, operating mechanism on the chassis at one end of the tank for dispensing the material to be sprayed from the tank, a generally U-shaped cover extending over and along the sides of said tank and a slide mechanism between the cover and tank extending generally lengthwise of the tank and chassis and supporting the cover for longitudinal sliding movement in one direction to extend over the operating mechanism and also for sliding movement in an opposite direction over the tank to expose the operating mechanism for access thereto.

2,714,528

#### APPARATUS FOR SUPPLYING ATOMIZED THERMOPLASTIC

Alwin F. Keiser, New York, N. Y., assignor, by mesne assignments, to "Straba" Handels-Aktiengesellschaft, Zurich, Switzerland

Application June 1, 1951, Serial No. 229,512  
12 Claims. (Cl. 299—58)



1. Apparatus for atomizing heat liquefied asphalt for application to aggregate particles, said apparatus comprising in combination a gear pump having an inlet and an outlet, a container adjacent said gear pump, a strainer within said container disposed for straining heat liquefied asphalt directed through said container, means for directing heat liquefied asphalt from said container to said inlet of said gear pump, a by-pass line communicating between said outlet and said inlet of said gear pump for passage of heat liquefied asphalt from said outlet to said inlet without passage through said strainer in said container, a pressure relief valve in said by-pass line adapted for permitting passage of heat liquefied asphalt through said by-pass line from said outlet to said inlet of said gear pump while maintaining substantially constant a predetermined pressure on the high pressure side of said gear pump, an air trap in communication with said outlet of said gear pump, vent means for venting air from said air trap, a common casing disposed about said gear pump, said container, said by-pass line, said pressure relief valve and said air trap, means for maintaining the atmosphere within said casing substantially at a predetermined superatmospheric temperature, a motor outside of said casing operatively connected to said gear pump, power supply means for supplying motivating power to said motor, thermal control means operatively arranged with said power supply means to cut off motivating power for said motor responsive to temperature of asphalt in said container below a predetermined superatmospheric pressure, means for directing heat liquefied asphalt from a source of heat liquefied asphalt to said container for passage through said strainer and to said

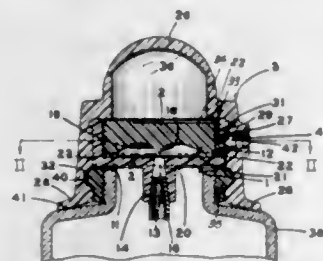


inlet of said gear pump, an atomizer-carrying manifold, a plurality of atomizer nozzles, conduit means communicating between said atomizer nozzles and the upper portion of the interior of said atomizer-carrying manifold, means for heating said atomizer-carrying manifold, a conduit communicating between said outlet of said gear pump and said atomizer-carrying manifold, a one way valve adapted to permit passage of heat liquefied asphalt from said outlet of said gear pump to said manifold and to prevent passage of fluid in the opposite direction, a steam line communicating with the interior of said manifold and adapted to admit steam into said manifold from a source of steam under superatmospheric pressure, a one way valve in said steam line adapted to permit passage of steam through said steam line from said source of steam to said manifold and to prevent passage of fluid in the opposite direction, a shutoff valve in said steam line optionally operable to shut off passage of steam through said steam line to said manifold, and means for instituting and shutting off the supply of heat liquefied asphalt to said atomizer-carrying manifold from said gear pump.

2,714,529

## SPRAY TYPE DISPENSER

Arthur P. Kebel, Kalamazoo, Mich., assignor to Miller Protecto Products, a corporation of Michigan  
Application February 12, 1952, Serial No. 271,222  
6 Claims. (Cl. 299—88)



1. An atomizer head for use with a bottle having an upstanding neck, the combination comprising: a generally cup-shaped member having a central opening through the bottom thereof for communication with the interior of the bottle; a disk member within said cup-shaped member and having a concavity in its lower surface defining a liquid chamber between said disk member and the bottom of said cup member; an atomizing opening through the side of said cup member; a plurality of grooves in the upper surface and sidewall of said disk defining a passageway from a point above said disk member to a point adjacent said atomizing opening, and a groove in the lower surface of said disk defining a passageway from said liquid chamber to said sidewall groove; a pressure actuable valve in said liquid chamber normally closing said cup central opening; and an encircling wall of resilient organic plastic material having a retaining portion engaging the external periphery of said cup-shaped member and engaging also the upper end of said bottle and having an opening therethrough in register with said atomizing opening and a bulb member formed on and integral with the upper end of said retaining portion for enclosing an air space above said disk.

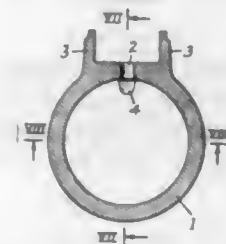
2,714,530

## SPRAY TUBE ORIFICES FOR IRRIGATING DEVICES

Arthur P. Shepard, Flushing, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey  
Application October 11, 1951, Serial No. 250,864  
8 Claims. (Cl. 299—104)

1. In a multiple nozzle spray tube irrigating device, the improvement comprising a spray tube, a multiple number of nozzle orifices defined by and extending through the wall of said spray tube, at least some of the individual

orifices of said multiple number of nozzle orifices each having at least one individual projection adjacent a portion of the inner orifice terminus and extending inwardly

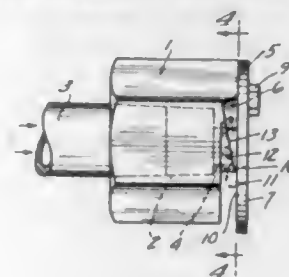


from the inner surface of said wall and each said projection being positioned on the axial side of each said individual orifice.

2,714,531

## SPRAY NOZZLE

Orlando W. Kromer, Minneapolis, Minn.  
Application June 15, 1953, Serial No. 361,643  
12 Claims. (Cl. 299—121)

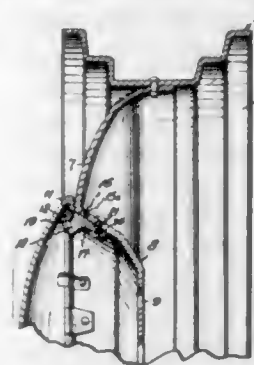


1. A spray nozzle comprising a main body having a longitudinally extended jet producing bore therethrough, a spreader plate carried by one end of said body, spacer means overlying said bore spacing said spreader plate from said one end of said body and substantially normal to said bore, said spacer means being of less than 180 degrees in circumferential extent and having converging undersurfaces which intersect said bore; said body, spacer means and spreader plate defining an outwardly opening passage of more than 180 degrees of circumferential extent underlying said bore, a lip on said body intermediate said spreader plate and said one end of the body, said lip having a flat forward surface sloping outwardly from the spacer means toward the spreader plate and terminating below the bore in closely spaced relation to said spreader plate, with said bore opening through said lip.

2,714,532

## WHEEL CONSTRUCTION

George R. Simon, Seibert, Colo.  
Application July 14, 1950, Serial No. 173,868  
1 Claim. (Cl. 301—108)



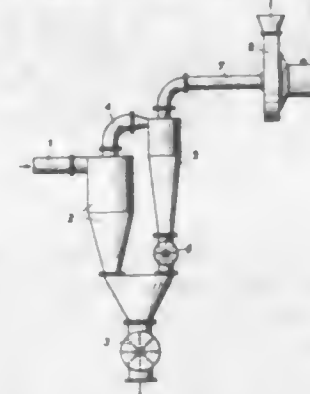
In an automobile wheel construction including a wheel wall, a hub cap having an inwardly protruding portion, and a plurality of spring fingers projecting from the wall in spaced circumferential relation to each other and engaging the inwardly protruding portion to retain the hub cap, the provision of a plurality of blocks attached to said wheel wall in spaced circumferential relation to each other and each is equidistant circumferential relation to

an adjacent pair of spring fingers, said blocks each having a shoulder at its outer end concentric with the circumference of said wheel, said shoulders being adapted to engage the inwardly protruding portion of said hub cap.

2,714,533

## PNEUMATIC CONVEYOR

Johann Alois Arquint, Bern, Switzerland, assignor to Gebrüder Buhler, Uzwil, Switzerland  
Application September 3, 1952, Serial No. 307,649  
Claims priority, application Switzerland September 6, 1951  
1 Claim. (Cl. 302—11)

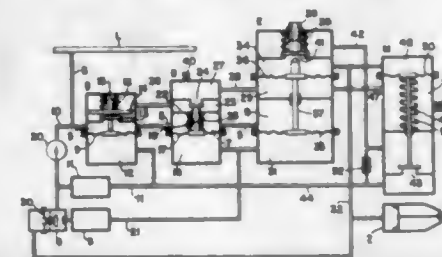


In a pneumatic conveyor having a pre-separator and a post-separator for separating conveyed material from the conveying air under subatmospheric pressure, and a first air lock gate common to said separators for connecting them with the atmosphere, the combination of fluid flow means for connecting said separators, means for drawing air from said post-separator, and a second air lock gate between said post-separator and said first air lock gate for reducing the pressure difference between the atmosphere and the air in said post-separator.

2,714,534

## CONTROL DEVICE FOR COMPRESSED AIR BRAKES

Siegfried Keller, Effretikon, Switzerland, assignor to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland, a Swiss company  
Application January 17, 1952, Serial No. 266,829  
3 Claims. (Cl. 303—38)



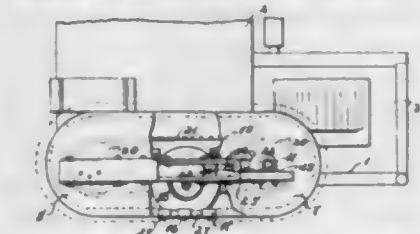
1. In a fluid pressure brake, in combination with a brake line, a normally charged fluid pressure reservoir and a normally exhausted actuator to be filled from said reservoir; a triple valve including three pressure chambers, valve means connecting said reservoir with a first one of said pressure chambers, and operating means for said valve means comprising loading means and subjected to the resultant effect of the pressure in said three pressure chambers and of said loading means, to normally close said valve means under the opposing effects of said loading means and of the pressure in the second one of said pressure chambers connected with said brake pipe, to open said valve means upon a reduction of brake pipe pressure and to close said valve means again dependent on the pressure arising in said first pressure chamber after the opening of said valve means; a passage connecting said first pressure chamber with said actuator and generating a transient pressure rise in said first pressure chamber upon the opening of said valve means; a quick service valve device connecting the brake line with a third

one of said pressure chambers to vent fluid pressure from the brake line into said third pressure chamber upon a reduction of brake pipe pressure; an outlet forming a restricted connection of said third pressure chamber with the atmosphere to generate transient pressure in said third pressure chamber upon a reduction of brake pipe pressure to neutralize the effect of the transient pressure rise in said first pressure chamber, said quick service valve device comprising means for interrupting the venting of fluid pressure from the brake line to said third pressure chamber to effect a decrease of the transient pressure in said third pressure chamber.

2,714,535

## ENDLESS TREAD

Napoleon Loiselle, Dawson Creek, British Columbia, Canada  
Application May 29, 1953, Serial No. 358,321  
4 Claims. (Cl. 305—10)

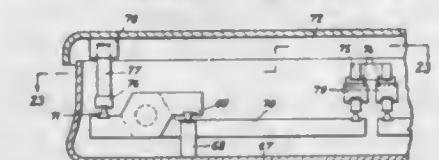


1. A tread assembly for tractors for use in conjunction with the rubber tired wheels thereof, said assembly comprising a plurality of segments, means to secure said segments in an adjacently articulated relationship, and means to join the ends of said tread assembly, thereby forming an endless tread, each of said segments comprising a transverse ground engaging web, side members extending at right angles from the underside of said web and adjacent the ends thereof, adjacent side members being adapted to interlock one with the other, and cable channels formed on the underside of said web adjacent said side members, said means to join the ends of said tread assembly together comprising a pair of hooks extending from the underside of one of said webs, hook anchors secured to the underside of the other of said webs, said hooks being adapted to engage around said anchors, and a locking plate spanning part of each of the upper sides of said webs.

2,714,536

## SCALE BEARINGS

Armin Wirth, Zurich, Switzerland  
Application March 6, 1950, Serial No. 147,829  
7 Claims. (Cl. 308—2)



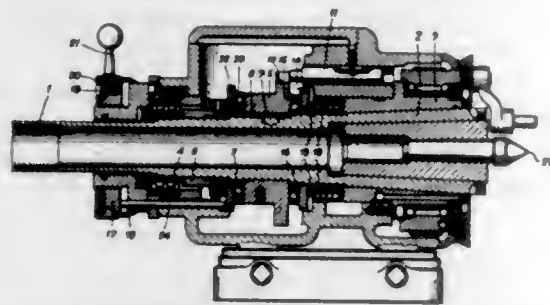
1. Self-centering support for weighbeams and similar scale members, comprising a base block the lower surface of which is shaped for engagement with a knife-edge, a tilting-block in knife-edge engagement with the upper surface of said base block, said last-mentioned knife-edge engagement forming an angle with said first-mentioned knife-edge engagement and the top surface of said tilting-block being convexly curved and engaging the underside of said weighbeam, means to prevent lateral separation of said base block and said tilting-block, and means to prevent lateral separation of said tilting-block and said weighbeam, the radius of said convexly curved surface of the tilting-block being greater than the height of said tilting-block whereby a vertical load transmitted to said tilting-block through said weighbeam urges said tilting-block towards vertical position and subjects said base block and said tilting-block to compression stress only.



2,714,537

**BEARING ARRANGEMENT**

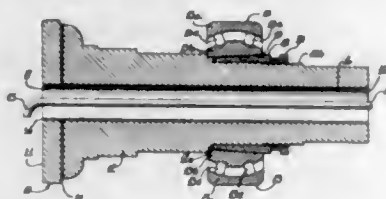
Fritz Studer, Glockenthal-Thun, Switzerland  
Application July 2, 1952, Serial No. 296,856  
Claims priority, application Switzerland July 7, 1951  
7 Claims. (Cl. 308—70)



1. A bearing arrangement comprising, in combination, fixed supporting means having an inner frusto-conical bearing face; a spindle means rotatably mounted in said fixed supporting means and having an outer frusto-conical bearing face located opposite said inner bearing face of said supporting means, said spindle means being movable in said supporting means in one axial direction for decreasing the clearance, and in the opposite axial direction for increasing the clearance between said frusto-conical bearing faces; spring means abutting against said supporting means and against said spindle means and urging the latter to move in said one axial direction; manually operated adjusting nut means mounted on said supporting means; a plurality of connecting rods mounted in said supporting means and slidable in axial direction, said connecting rods engaging at one end thereof said adjustable nut means and at the other end thereof said spindle means whereby said spindle means can be axially moved in said opposite direction by adjustment of said adjustable nut means to move against the action of said spring means for increasing the clearance between said frusto-conical bearing faces whereby the clearance between said bearing faces can be adjusted during rotation and standstill of said spindle means.

2,714,538

**INSULATING SLEEVE FOR DRYER BEARINGS**  
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin  
Application September 11, 1952, Serial No. 309,016  
5 Claims. (Cl. 308—77)



1. A journal-bearing structure for heated drier drums, comprising a shaft having a passageway therethrough, means for circulating cooling air through said passageway, bearing means surrounding the shaft for rotatably supporting the same, and insulating means substantially coextensive with the bearing means interposed between said shaft and said bearing means for maintaining spaced relation therebetween, while permitting a substantial portion of the shaft to be exposed to the atmosphere.

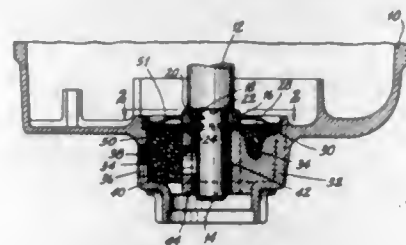
2,714,539

**LUBRICATING MEANS FOR ELECTRIC MOTOR SHAFT THRUST COLLARS**

Joseph T. Roddy, Overland, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri  
Application January 2, 1952, Serial No. 264,376  
3 Claims. (Cl. 308—134.1)

1. In a motor construction, in combination, a rotatable shaft disposed in other than horizontal position, a collar

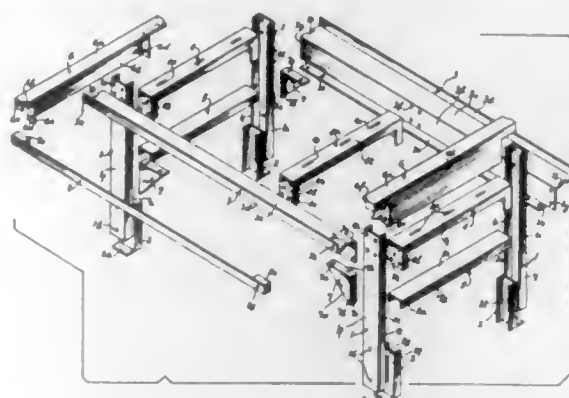
secured near the lower end of said shaft for rotation with said shaft, a rigid plate member disposed about said shaft below said collar for bearing abutment with said collar, said plate member having a main central opening for receiving said shaft, said opening being extended radially of said shaft at a plurality of angularly spaced positions around said main central opening, a plate-like member of resilient compressible oil absorbing and conducting material disposed about said shaft below said



2,714,540

**TABLE CONSTRUCTION**

Kenneth F. Diehm, Temple, Pa., assignor to Textile Trimming & Boarding Machine Co., Reading, Pa., a corporation of Pennsylvania  
Application October 21, 1954, Serial No. 463,707  
12 Claims. (Cl. 311—1)

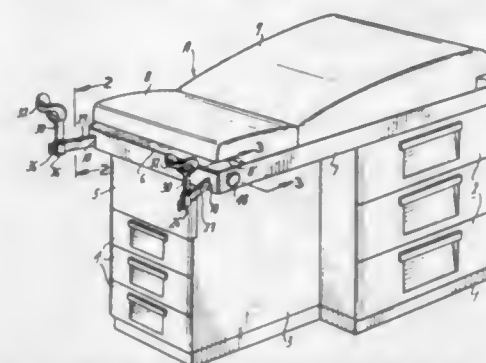


8. In a table construction, a pair of spaced longitudinal shell members adapted to be carried by depending legs, each of said longitudinal shell members being formed with an outwardly extending ledge having an upstanding outer flange, a pair of lateral shell members extending between said longitudinal shell members and carried by said legs, a holding member extending inwardly from each of said lateral shell members and spaced over the adjacent portions of said ledges, a pair of longitudinally spaced table top end sections seated on said ledges and having their opposite longitudinal edges in engagement with said upstanding flanges to restrain lateral movement of said end sections, a lateral rib on each lateral edge of said end sections, the distal pair of said ribs each extending into the space between the adjacent holding member and its underlying ledge portions, the proximate pair of said ribs being spaced from each other, and an intermediate table top section disposed between said end sections overlying said proximate ribs and secured to said ledges, said intermediate section thus combining with said holding members and vertical flanges to fixedly maintain said end sections in position on said ledges.

2,714,541

**FOOT STIRRUPS FOR PHYSICIAN'S EXAMINING TABLES**

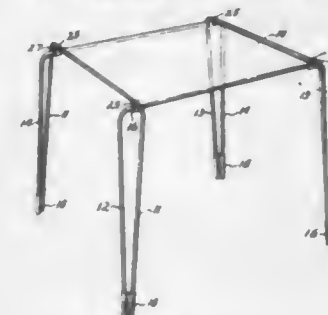
Allan S. Reichert, Clayton, and Roy T. Adolphson, Webster Groves, Mo., assignors to Shampaine Company, St. Louis, Mo., a corporation of Missouri  
Application July 7, 1953, Serial No. 366,584  
6 Claims. (Cl. 311—11)



1. In a physician's examining table including a base member and a rectilinear top member mounted upon and extending over the upper end of the base member, said top member being substantially wider than the base member across the transverse margin of its foot-end and projecting laterally outwardly therefrom on either side to form rectangular overhanging portions; foot stirrups comprising a stationary hinge-bracket mounted on and projecting downwardly from the underside of each overhanging portion adjacent the transverse margin across the foot-end thereof, a bar rockably mounted at one end for optional disposition in concealed position horizontally beneath the overhanging portion and in extended position horizontally outwardly from the overhanging portion, a foot stirrup slidably mounted on each bar, and means for optionally locking each bar in concealed and extending positions.

2,714,542

**COLLAPSIBLE TABLE SUPPORTING MEANS**  
Henry P. Glass, Chicago, Ill.  
Application December 30, 1953, Serial No. 401,151  
6 Claims. (Cl. 311—84)



1. A collapsible article of furniture comprising a top having a plurality of edges, a plurality of pairs of legs for supporting said top, each of said pairs of legs comprising a U-shaped member pivotally mounted on a different edge of said top intermediate the ends of said member to support said top when moved from a folded position wherein said legs are adjacent the edges of said top to an extended position transversely to said top, said adjacent legs of different said pairs of legs being bent to converge toward each other at their free ends when in said extended position, and ferrule means provided on the ends of said adjacent legs to lock said adjacent legs together in said extended position.

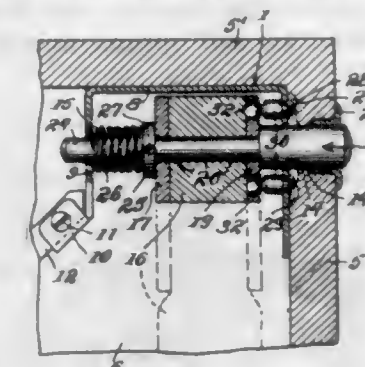
2,714,543

**FIXTURE BRACKETS WITH LEG SUPPORT AND LOCK ASSEMBLY FOR TABLES**

Elmer J. Hosler, San Diego, Calif.  
Application June 22, 1954, Serial No. 438,475  
7 Claims. (Cl. 311—99)

7. In a folding leg table, at each corner a shaft mounted to supply a pivot for the table leg thereat and connected

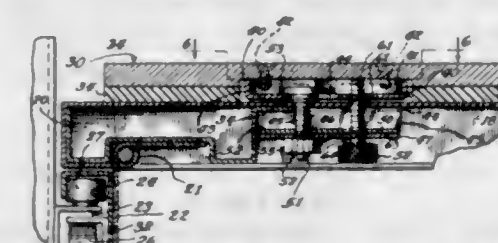
thereto against axial movement, resilient means mounted to urge said leg outwardly, and means to lock said leg to said table in folded and upright position, said locking



means being disengaged by inward thrust upon said shaft against the force of said resilient means whereby said leg may be pivoted about said shaft and positioned in locked folded and locked upright position.

2,714,544

**TYPEWRITER MOUNTING FOR DESKS**  
Charles M. Abrahamson, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois  
Application November 29, 1951, Serial No. 258,957  
15 Claims. (Cl. 312—29)



1. In a device for detachably mounting a typewriter or similar office machine on a desk drop shelf or similar support that is movable from a horizontal in-use position to a vertical out-of-the-way position, a base mounting for the typewriter adapted to be secured to the latter, said base mounting comprising a typewriter base plate adapted to overlie and be supported upon the drop shelf when installed thereon, an attachment plate secured to the underneath side of the base plate at a region offset rearwardly from the vertical axis passing through the center of gravity of the combined base mounting and typewriter, there being a keyhole slot formed in said attachment plate and comprising a release opening and a neck portion, and an attachment post mounted on said drop shelf having a shank portion and an enlarged head, whereby for reception and confinement said head is passed through the release opening and said shank is fitted within the neck portion of the keyhole slot, said neck portion projecting rearwardly of the drop shelf when the latter is horizontal with the base mounting thereon so that, upon movement of the shelf to its vertical position, the end of the neck portion will serve as a pendulous centering suspension for the combined typewriter and base mounting and retractable means for locking said attachment post within said neck portion of the key hole slot.

2,714,545

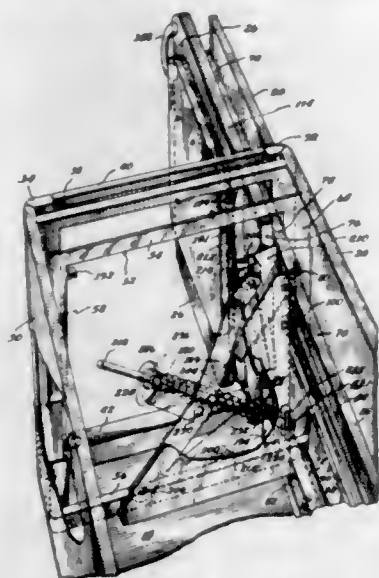
**TYPEWRITER DESK**

Charles M. Abrahamson, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois  
Application November 29, 1951, Serial No. 258,958  
18 Claims. (Cl. 312—29)

1. A supporting structure for typewriters and the like comprising a support, a typewriter-supporting drop shelf pivoted adjacent its rear edge to said support and movable from a substantially horizontal operative position, by a swinging action about a horizontal axis, downwardly to an approximately vertical out-of-the-way lowered position, and instrumentalities for counterbalancing the weight of said drop shelf and the typewriter mounted thereon comprising a member mounted on and movable



bodily with the drop shelf and providing an elongated guideway extending generally in the fore and aft direction of the drop shelf, a lever arm having one end pivoted to said support below the level of the drop shelf when extended and about an axis spaced forwardly from the



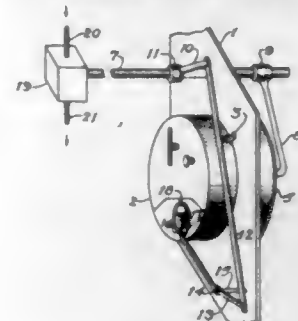
vertical plane of the drop shelf when in its out-of-the-way position, a follower carried at the free end of said lever arm and confined in said guideway, and spring means normally urging said lever arm about the pivotal axis thereof in a direction whereby said follower is constrained to move forwardly in said guideway.

**2,714,546**  
**CLOSING PLATE FOR PAD OPENINGS OF**  
**EVAPORATIVE COOLERS**  
Roman M. Lesniak, Phoenix, Ariz.  
Application July 27, 1953, Serial No. 370,419  
2 Claims. (Cl. 312-296)



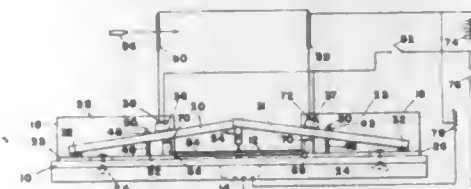
2. A closing plate for evaporative coolers having cases with rectangular pad openings surrounded by flanges consisting of a rectangular flat metal plate having an inner face and an outer face, resilient gasket material secured to the inner face of said plate adjacent the perimeter edges thereof to provide a sealing gasket between the inner face of said plate and the outer faces of said case flanges, a lifting handle on the outer face of said plate, and resilient cleats attached to the inner face of said plate adjacent the top and bottom edges thereof, retaining said plate on said case flanges, said cleats having offsets so that their outer portions will extend under the top and bottom flanges of said cooler case; the upper offsets of the cleats adjacent the upper edge of said plate being disposed so that said plate may be pushed upward on the top flange of said case to permit movement of said cleats adjacent the bottom edge of said plate over the top edge of the bottom flange of said case, and a vertically extending laterally disposed fin on the inner face of said plate engaging lateral portions of said cooler case to prevent transverse displacement of the said plate on said case flanges.

**2,714,547**  
**RECORDING APPARATUS**  
Billy G. Francis, De Ridder, La., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application April 18, 1951, Serial No. 221,623  
3 Claims. (Cl. 346-33)



1. In a gas flow metering and recording apparatus having a circular chart which rotates around a first axis, a shaft which rotates in response to the flow of gas around a second axis substantially parallel to said first axis, a stylus attached to said shaft and extending over the face of said circular chart, and a clock for rotating said chart, the novel combination which comprises control means connected to said clock for automatically starting or stopping said clock, an arm connected to said shaft, a lever operatively engageable and disengageable with said control means, said lever also being operatively connected to said arm whereby when said shaft is rotated in one direction due to a flow of gas the lever moves to a first position where said lever operates the control means so that the clock will automatically begin running and when said shaft is rotated to an extreme position in the opposite direction due to the termination of said flow of gas said lever is moved to a second position where said lever operates the control means so that the clock will be prevented from running.

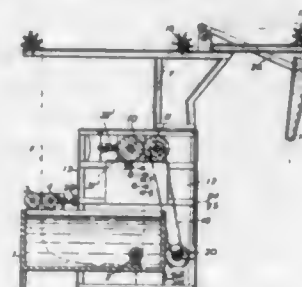
**2,714,548**  
**VELOCIMETER**  
Robert J. Peterson, National City, Calif.  
Application October 6, 1952, Serial No. 313,213  
4 Claims. (Cl. 346-38)



1. A velocimeter for use with projectile-interrupted electric circuit means spaced apart and individually connected with an electromagnetic means and with a source of energy, having a base, a powered turntable mounted on said base, a recording disc on said turntable, a pair of stylus assemblies, supporting means holding said stylus assemblies above said turntable and spaced along a radius of the turntable, electromagnetic means retaining said stylus assemblies retracted from said turntable when said electromagnetic means are energized, said stylus assemblies having means for biasing the same toward said turntable, each of said stylus assemblies comprising a hinge block, a stylus block pivotally mounted on the hinge block to remain normally in operative position and to move in one direction into inoperative position, a stylus on said stylus block, spring means to pivot said stylus block on said hinge block when said stylus strikes said turntable in motion, whereby the stylus is allowed to move with said turntable and is withdrawn therefrom after such striking without damage to the turntable and any recording disc thereon, both of said stylus blocks being pivotally removable in the same direction.

## CHEMICAL

**2,714,549**  
**WET HEAT TREATMENT OF MATERIAL OF POOR ELECTRICAL CONDUCTIVITY**  
Emile Bernard Bates, Leicester, England  
Application March 29, 1951, Serial No. 218,238  
Claims priority, application Great Britain April 1, 1950  
4 Claims. (Cl. 8-151.2)

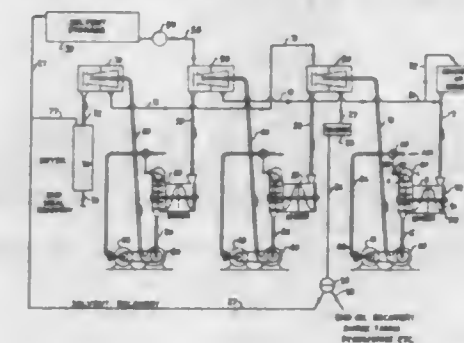


1. The method of removing undesirable impurities from the fibers of organic textile material in the form of a fabric, rope or strand to render the same more absorbent, which comprises continuously moving the textile material into and through an aqueous cleansing solution to saturate the fibers thereof, continuing the passage of the textile material out of the solution and while moving such material subjecting it while out of the solution to a resistance heating in sufficient amount to raise the entrained solution to boiling in the fibers, continuing such boiling for a period of time sufficient to develop on the surface of the fibers a froth carrying the impurities, and then substantially immediately thereafter removing from the surface of the textile material the impurities carrying froth.

**2,714,550**  
**NONELECTROLYTIC PRODUCTION OF CHLORINE**  
Ralph Miller, Pleasantville, N. Y., assignor to The Chemical Foundation, Incorporated, a New York membership corporation  
No Drawing. Application December 10, 1951, Serial No. 260,939  
10 Claims. (Cl. 23-219)

1. The process of producing chlorine and ammonia from ammonium chloride which comprises reacting ammonium chloride with manganous oxide, the mol ratio of ammonium chloride to manganous oxide being substantially two to one, to form ammonia and manganous chloride, separating the ammonia from the manganous chloride, reacting the manganous chloride with manganese dioxide and nitric acid, employing not less than 1 mol of manganese dioxide and not less than 4 mols of nitric acid for each mol of manganous chloride, at a temperature sufficiently elevated to form gaseous chlorine and manganous nitrate, separating the chlorine from the manganous nitrate, thermally reacting the manganous nitrate in the presence of air and water to form nitric acid and manganese dioxide, separating and recovering the nitric acid, recycling the recovered nitric acid to the chlorine formation step of the process, reducing a part of the manganese dioxide to manganous oxide, the amount of manganous oxide formed being not less than the amount consumed in the ammonia liberation step, recycling the manganous oxide to the ammonia liberation step and recycling the remainder of the manganese dioxide to the chlorine formation step.

**2,714,551**  
**APPARATUS FOR SOLVENT EXTRACTION OF VEGETABLE OILS**  
Michael W. Pascal, Shaker Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio  
Application August 13, 1949, Serial No. 110,142  
2 Claims. (Cl. 23-270)



1. Apparatus for solvent extraction of oil-bearing seeds comprising in combination a plurality of successive extracting stages, each stage including: (1) a mixer, (2) a continuous solid bowl centrifuge connected to said mixer for separating a slurry formed in said mixer into a substantially solids-free miscella and a seed pulp, (3) a pump and connecting passages for forcibly moving the slurry from the mixer to the solid bowl centrifuge, (4) variable speed mechanism for driving the pump, and (5) means actuated by change in volume of liquid in the mixer connected with the speed change mechanism to vary the speed of the pump; the apparatus also comprising conduits for leading seed pulp from the centrifuge of one stage to the mixer of a succeeding stage, a passage for carrying liquid away from the centrifuge of the first stage, and a passage for moving substantially solids-free liquid from the centrifuge of one stage to the mixer of a preceding stage counter-current to the movement of seed solids between stages, each said mixer comprising an elongated horizontal chamber having a discharge at one end and a liquid dome in open communication therewith rising above the mixer and in which a hydrostatic head may be maintained, a float in said chamber connected to the variable speed pump driving mechanism for varying the speed of the pump, the mixer having agitating elements coextensive of its length, and all said passages, mixers and centrifuges forming a closed liquid and gas tight system.

**2,714,552**  
**DIRECT CONDENSATE COOLER IN FLUE GAS GENERATOR**  
Donald K. Martin, Pittsburgh, Pa., assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio  
Application April 12, 1951, Serial No. 220,673  
1 Claim. (Cl. 23-281)



In an apparatus for producing a non-oxidizing atmosphere suitable for use in metallurgical processes, in combination, a combustion chamber, means for introducing into said combustion chamber a fuel-air mixture to be burned therein, a direct-cooling chamber connected to receive hot flue gas generated in said combustion cham-



ber, an outlet for the cooled gas from said cooling chamber, means for distributing a liquid in intimate contact with the flue gas in said cooling chamber and directing said liquid upon the surfaces contacted by the flue gas entering said cooling chamber, means for withdrawing the liquid accumulating in said cooling chamber, an indirect cooler, said liquid-distributing means, withdrawing means and cooler forming with said cooling chamber a closed circuit for the liquid, said circuit being sealed against entrance of air and extraneous liquid, and means for removing excess liquid introduced into said circuit by condensation from the flue gas, the cooling capacity of said indirect cooler being sufficient to cause moisture to be condensed from the flue gas.

2,714,553

# FERTILIZER AND METHOD OF MAKING SAME

Carlisle H. Bibb and Reid H. Leonard, Pensacola, Fla., assignors to Newport Industries, Inc., Pensacola, Fla., a corporation of Delaware

No Drawing. Application February 15, 1951,

Serial No. 211,184

3 Claims. (Cl. 71-23)

1. A method which comprises subjecting wood to hydrolytic conditions of aqueous acid under pressure to obtain a moist hydrolyzed mass containing substantial amounts of lignin residue and to convert at least one-fourth of the original weight of the wood to sugars, removing water-soluble material from the mass by washing the same while retaining the organic solvent soluble ingredients, dissolving  $x$  molar equivalents of urea in the moist hydrolyzed mass to react the same therewith, then reacting the urea-containing mass with  $(\frac{1}{2}$  to 1) $x$  molar equivalents of formaldehyde, and recovering a fertilizer product comprising a urea-formaldehyde condensation product dispersed in and partially combined with said hydrolyzed material.

2,714,554

# METHOD OF PRODUCING GADOLINIUM

Frank H. Spedding and Adrian H. Daane, Ames, Iowa, assignors to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application March 27, 1953,

Serial No. 345,255

11 Claims. (Cl. 75-84)

1. A process of recovering pure metallic gadolinium from a mixture containing gadolinium oxide and at least one of the oxides of the rare earths of the group consisting of samarium, europium and ytterbium, comprising treating the mixture with hydrogen chloride whereby the chlorides of gadolinium and of the rare earths are formed; mixing said chlorides with a reducing agent selected from the group consisting of alkali metal and alkaline earth metal; bringing the mixture to a temperature between 1350 and 1450° C. whereby the gadolinium chloride is selectively reduced to metallic gadolinium while the other rare earth chlorides remain as chlorides; and removing said other rare earth chlorides by dissolving in water.

2,714,555

# METHOD OF SEPARATING CERTAIN PLATINUM GROUP METALS WITH CATION EXCHANGE RESINS

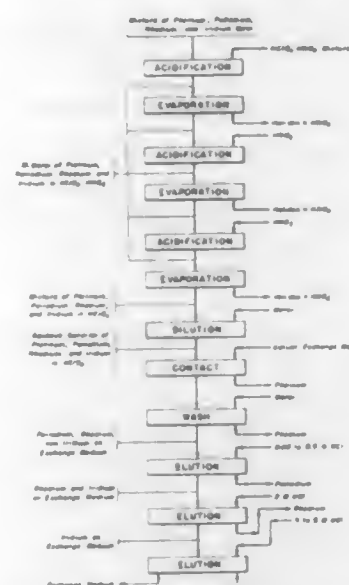
Peter C. Stevenson, Livermore, Antoine A. Franke, San Francisco, Richard J. Borg, Millbrae, and Walter E. Nervik, Piedmont, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application August 23, 1954, Serial No. 451,725

12 Claims. (Cl. 75-121)

2. A method of separating a mixture of platinum, palladium, rhodium, and iridium comprising placing an aqueous, halogen-free solution of the salts of said metal ions on a suitable cation exchange medium, recovering the separated effluent platinum solution, washing the exchange medium with water, recovering the wash solution, combining the effluent platinum solution with the wash solution, placing a quantity of 0.05 M to 0.5 M hydrochloric

ous, halogen-free solution of the salts of said metal ions on a suitable cation exchange medium, recovering the separated effluent platinum solution, washing the exchange medium with water, recovering the wash solution, combining the effluent platinum solution with the wash solution, placing a quantity of 0.05 M to 0.5 M hydrochloric



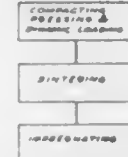
2,714,556

# POWDER METALLURGICAL METHOD OF SHAPING ARTICLES FROM HIGH MELTING METALS

Claus G. Goetzel, Yonkers, N. Y., assignor to Sintercast Corporation of America, Yonkers, N. Y., a corporation of New York

Application November 25, 1950, Serial No. 197,605

11 Claims. (Cl. 75-203)



1. A method for the manufacture of heat resistant metal articles, such as turbine blades, buckets, nozzles, vanes and other structural gas turbine parts, in which finely divided, high melting refractory material powder selected from the group consisting of tungsten, molybdenum, tantalum, columbium, titanium and zirconium, mixtures of these metals, their refractory carbides and combinations thereof intimately mixed with a skeleton binder metal powder is shaped by pressure in a mold to a porous body which is thereafter sintered at an elevated temperature into a strong porous skeleton and thereafter infiltrated with a lower melting metal to form a dense article, which comprises providing said refractory material with particle sizes substantially all less than 20 microns, compacting said material of controlled particle size to a critical pore volume falling within the range of about 37% to 59%, sintering said compacted body into a strong porous skeleton and thereafter infiltrating said porous skeleton body with a heat resistant metal of lower melting point than the skeleton selected from the group consisting of iron, nickel, cobalt and chromium, mixtures of these metals, and mixtures thereof with tungsten, molybdenum and tantalum, whereby a heat resistant article is obtained having markedly improved room temperature and high temperature strength, and improved resistance to fatigue and to creep at elevated temperatures.

2,714,557

# VACUUM PACKAGING OF FOOD PRODUCTS

Reid A. Mahaffy, Cedar Grove, N. J., assignor to Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia

Application February 17, 1954, Serial No. 410,923

4 Claims. (Cl. 99-174)



1. The method of forming a vacuum package of perishable food products which comprises, adhering a polyethylene coating to a cellophane film, making two exterior walls of said coated film with a poly-ethylene coating on the interior walls thereof, arranging a sheet of polyethylene film between said exterior walls and coextensive with each, sealing the lower and side edges with heat and pressure to form a two-compartment container, placing like perishable food products in said compartments, evacuating said compartments, and sealing the previously unsealed top edges with heat and pressure while preventing reentrance of atmospheric air, thereby forming two sealed compartments.

2,714,558

# HEAT ABSORBING GLASS

Wilbur F. Brown, Glenn C. Mook, Joseph J. Jarosi, and Curtis W. Davis, Jr., Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application June 24, 1952,

Serial No. 295,356

3 Claims. (Cl. 106-54)

1. A low expansion soda-lime-silica heat absorbing glass produced from a batch comprising substantially the following ingredients in approximately the proportions shown:

	Pounds
Sand	1000
Limestone	311
Soda ash	127
Salt cake	70
Feldspar	26
Salt	20
Borax	316
Ground coal	8.5
Rouge	5.2

and having a daylight transmittance of 76.5 to 79% and a total sun radiation transmittance of 42 to 50%.

2,714,559

# COATED PLASTIC SHEET AND METHOD OF MAKING SAME

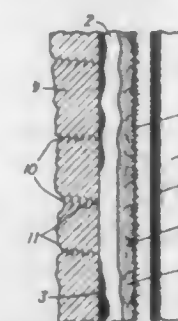
William H. Sheffield, West Englewood, and Karl W. Koeniger, South Orange, N. J., and Charles B. Hemming, New Rochelle, N. Y., assignors, by mesne assignments, to United States Plywood Corporation, New York, N. Y., a corporation of New York

Application March 27, 1950, Serial No. 152,157

7 Claims. (Cl. 117-9)

5. A decorative covering comprising a plastic sheeting having optical characteristics within the range of translucency to transparency and having the wear surface thereof embossed to resemble leather, with the pressure lines caused by the embossing extending to the rear surface of said sheeting, a mist coating of irregular thickness applied at random intervals to said rear surface and a basic color coat different than the color of said mist coating applied over said mist coating and said rear surface,

whereby said mist coating and said basic color coat are protected against wear, but are visible from said wear surface side, a flocking adhesive covering said basic color coat, an aluminum powder mixed in said adhesive to increase the hiding power of said basic color coat, and a comminuted flocking material having the individual



ends thereof securely embedded in said adhesive while the opposite ends of said material are free so that a soft napped surface is provided for still further increasing the hiding power of said basic color coat and for permitting bonding said covering to a supporting object by means of an adhesive.

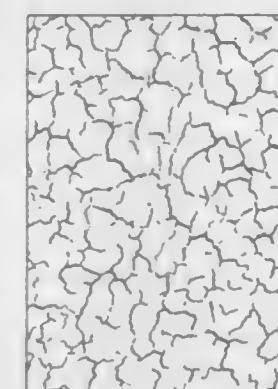
2,714,560

# METHOD OF DECORATING A SURFACE WITH A CRACKLE FINISH

Raymond H. Hookway, Shaker Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application July 1, 1952, Serial No. 296,621

11 Claims. (Cl. 117-41)



1. The method of decorating a substantially non-porous surface to provide segregated raised areas of color superimposed upon a background color thereby imparting color to the areas between said segregated raised areas which comprises the steps of coating said surface with an oleoresinous base coating composition characterized in that it remains tacky for a period of from about 1 to about 8 hours, and during the time which said oleoresinous base varnish remains tacky, re-coating said surface with a latex water emulsion paint as a continuous wet film of non-uniform thickness by using a coating applying means which deposits the coating on direct contact of said means with said surface, and allowing the plural coated surface to dry.

2,714,561

# FEATHER TREATING METHOD

Edward R. Frederick, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army

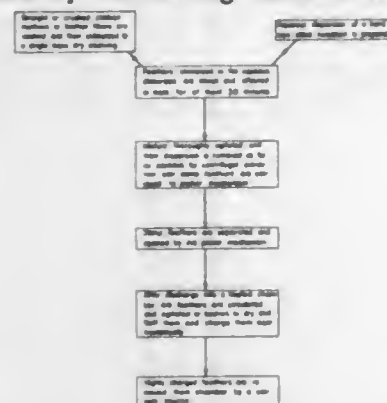
Application August 18, 1952, Serial No. 304,874

6 Claims. (Cl. 117-55)

1. A method of treating land fowl feathers which comprises removing most but not all of the natural oil and wax from the feathers, immersing them in an aqueous dispersion of a hard wax, allowing the mixture to stand for at least thirty minutes, removing most of the dispersion so that the feathers are merely damp, opening



the barbs of the feathers while still damp, drying the opened feathers by circulating them in a closed heated



chamber with concomitant agitation to fluff them and build up a strong electrostatic charge, and removing the fluffed feathers from the chamber.

2,714,562

**SELF-SEALING WRAPPING MATERIAL**

John F. Hechtman, Munising, Mich., assignor to The Munising Paper Company, Chicago, Ill., a corporation of Ohio

No Drawing. Continuation of application Serial No. 187,667, September 29, 1950. This application October 9, 1953, Serial No. 385,271

13 Claims. (Cl. 117—68.5)

2. As a new article of manufacture, a sheet of self-sealing wrapping material adapted completely to encase an article and thereby seal the same, said article comprising a thin, flexible sheet of a non-porous material having on one surface thereof an exposed flexible film of a cohesive, substantially non-adhesive material comprising a mixture of natural rubber and a copolymer of from 50 to 80% by weight of a butadiene-1,3 hydrocarbon and from 20 to 50% by weight of an acrylic nitrile having a molecular weight below 100,000, in the proportion of 10 to 60% of natural rubber and 90 to 40% of the copolymer, on a dry weight basis, and having on the other surface thereof an exposed flexible wax film.

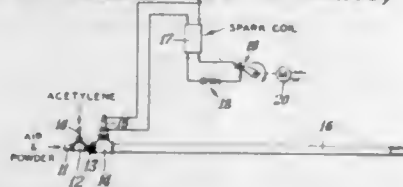
2,714,563

**METHOD AND APPARATUS UTILIZING DETONATION WAVES FOR SPRAYING AND OTHER PURPOSES**

Richard M. Poorman, Speedway, and Herbert B. Sargent, Indianapolis, Ind., and Headlee Lamprey, Lakewood, Ohio, assignors to Union Carbide and Carbon Corporation, a corporation of New York

Application March 7, 1952, Serial No. 275,332

27 Claims. (Cl. 117—105)



18. A method for coating an object which comprises mixing a fuel gas with an oxidizing gas to form a mixture capable of being detonated; prior to such mixing feeding into at least one of the fuel gas and oxidizing gas a comminuted solid material unconsumable by the detonation phenomenon; introducing said detonatable mixture containing said comminuted material into an elongated barrel having an open end until said barrel is substantially filled therewith; igniting said detonatable mixture to produce a detonation and thereby transmit to said comminuted material some of the energy of said detonation to eject said comminuted material at high velocity from the open end of said barrel; directing said comminuted material toward said object to be coated under the impetus of said energy; and thereafter repeating said feeding, mixing, introducing, igniting and directing steps at short intervals of time less than one second.

2,714,564  
**PRODUCTION OF METALLIC TITANIUM**  
Alfred C. Loonam, New York, N. Y., assignor to Chilean Nitrate Sales Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 12, 1948,

Serial No. 20,592

11 Claims. (Cl. 117—107)

1. In a method of recovering titanium in the form of a high-purity metallic product from crude titanium-bearing material, the improvement which comprises treating the crude titanium-bearing material to produce a titanium carbide product subjecting titanium carbide to the action of gaseous iodine at an elevated temperature to produce titanium tetraiodide, and contacting the titanium tetraiodide in vapor form with a heated surface at a temperature in the range 1100° C. to 1700° C. to effect decomposition of the titanium tetraiodide and deposition of metallic titanium on the heated surface.

2,714,565

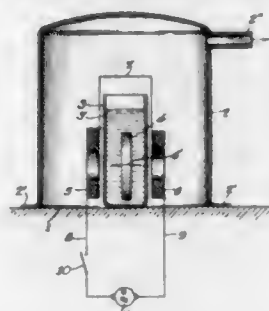
**METHOD OF AND APPARATUS FOR CLEANING CAPACITOR FOILS**

Hermann Heywang, Karlsruhe, Germany, assignor to Siemens & Halske Aktiengesellschaft, Munich, Germany, a corporation of Germany

Application May 11, 1954, Serial No. 428,968

Claims priority, application Germany May 12, 1953

13 Claims. (Cl. 134—22)



1. The method of cleaning capacitor foils of the type comprising a striplike metallic member carrying on both sides thereof dielectric layers which extend laterally marginally beyond the metallic member at least along one edge thereof to form along such edge a vacant space extending between said layers comprising the following steps, namely, immersing the foil to be cleaned in a cleaning fluid, and causing the cleaning fluid within said marginal vacant space to boil.

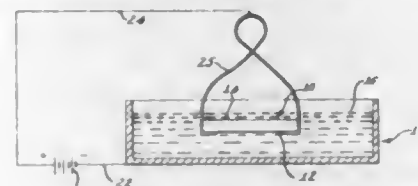
2,714,566

**METHOD OF TREATING A GERMANIUM JUNCTION RECTIFIER**

Loy E. Barton, Princeton, and Ralph L. Sherwood, New Brunswick, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application May 28, 1952, Serial No. 290,484

4 Claims. (Cl. 148—1.5)



1. A method of treating a wafer of semi-conductive germanium of one conductivity type to introduce a layer of an opposite conductivity type therein comprising electrolytically etching the surface of said wafer in a solution of not more than 1/500 percent electrolyte solute free from N-type and P-type impurities in distilled water, rinsing said surface, placing a selected impurity upon said surface, said selected impurity being a material which will impart conductivity characteristics of said opposite type

to said body, and heating said wafer and impurity until said impurity diffuses into said wafer through the electrolytically etched surface thereof.

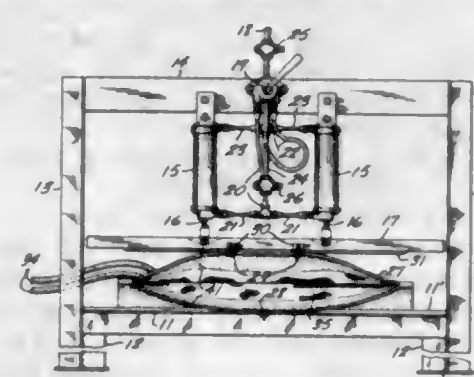
2,714,567

**PRELIMINARY PRESSING OF BENT LAMINATED GLASS**

Earl Cravener, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application October 17, 1952, Serial No. 315,252

10 Claims. (Cl. 154—2.7)



1. Apparatus for the preliminary pressing of bent laminated assemblies comprising two sheets of glass and an interposed sheet of plastic material which are to be bonded together into a unitary structure by the action of heat and pressure, which apparatus comprises, in combination, a bag substantially impervious to air, the walls of the bag comprising layers of electrically conductive rubber, means for quickly opening and holding open the openable end of the bag to insert and remove laminated assemblies and for quickly closing and clamping the said end of the bag to seal the bag after a laminated assembly has been inserted therein, a hose connection to the bag, means for evacuating air from the bag through the hose connection, and electrical leads connected to the electrically conductive rubber layers for passing current through the walls of the bag to heat a laminated assembly contained therein.

2,714,568

**ASPHALT LAMINATE**

Raymond G. Newberg, Roselle Park, Edwin R. Littmann, Westfield, and Francis P. Ford, Roselle, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application February 27, 1952,

Serial No. 273,778

9 Claims. (Cl. 154—50)

7. A laminated product consisting of at least two sheets of paper, cardboard and the like and a liquid cementitious composition between said sheets, said cementitious composition consisting of an oxidized asphalt having incorporated therein equal proportions of, in amounts of 1 to 3% by weight based on the asphalt, a hydrocarbon oil having a viscosity at 210° F., between 70 and 1000 SSU and a copolymer of 20 to 80% styrene and 80 to 20% of isobutylene, said copolymer having an intrinsic viscosity greater than 0.7 and being prepared by copolymerization at temperatures below -50° C.

2,714,569

**LAMINATED THREAD**

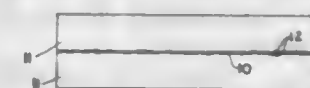
Karl E. Prindle, Shaker Heights, and George Lacy, Cleveland, Ohio, assignors to The Dobeckmun Company, Cleveland, Ohio, a corporation of Ohio

Application January 18, 1952, Serial No. 267,108

15 Claims. (Cl. 154—53.6)

1. A continuous-filament thread of specular appearance comprising a first narrow ribbon of cellulose acetate butyrate, a deposit of metal coating one surface of said

ribbon, a second ribbon of cellulose acetate butyrate in contiguous relation with said deposit of metal, a flexible and transparent adhesive binding said second ribbon



to said deposit of metal and said first ribbon, the thickness of said deposit of metal being less than .001 millimeter.

2,714,570

**CUSHIONED WRAPPING MATERIAL**

Paul Brown, Walpole, N. H., assignor to Packaging Materials Corp., Providence, R. I., a corporation of Rhode Island

Application November 3, 1951, Serial No. 254,693

1 Claim. (Cl. 154—55)



As a new article of manufacture, a flexible sheet of corrugated packing material comprising a sheet having on one side parallel ribs built up of loosely felted pulp, said ribs being substantially thicker than the portions of the sheet intermediate the ribs which are also of loosely felted pulp, shallow grooves on the reverse side of the sheet underlying said ribs leaving parallel strips having non-flat surfaces on said reverse side between said grooves, scorings extending transversely of said ribs and to a depth less than the thickness of said ribs and insufficient to form protrusions on said reverse side of the sheet, said scorings having substantially flat narrow bottom surfaces, and a flexible reinforcing sheet cemented to separate area portions of said non-flat inter-groove strips.

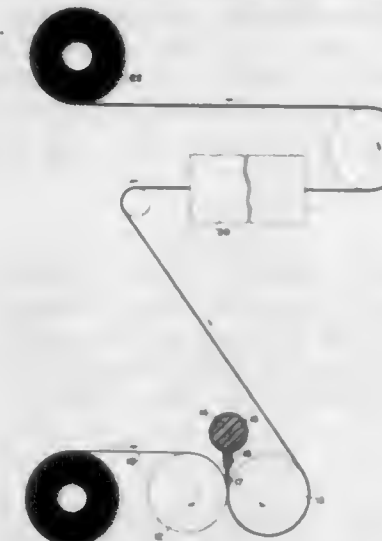
2,714,571

**PROCESS FOR BONDING A POLYETHYLENE FILM TO A FIBROUS WEB**

Clarence E. Irion, North Pownal, Vt., and Karl E. Prindle, Shaker Heights, Ohio, assignors to The Dobeckmun Company, Cleveland, Ohio, a corporation of Ohio

Application April 8, 1952, Serial No. 281,162

7 Claims. (Cl. 154—139)



1. The process for bonding a polyethylene film to a fibrous web which comprises the steps of extruding a film of molten polyethylene onto a fibrous web, pressing said film into said web by urging said fibrous web against a roll with said film between said fibrous web and said roll, cooling said film at least to a temperature at which it is non-tacky with respect to the surface of said roll to establish a preliminary relatively weak bond between said film and said fibrous web, removing said film from the surface of said roll, reheating said film to at least 225° F. and thereupon recooling said film to substantially normal environmental temperature to finally establish a strong bond between said film and said web.



2,714,572

# METHOD OF FLY CONTROL AND SYNERGISTIC TOXICANT COMBINATION THEREFOR

James W. Hansen, Berkeley, Calif., assignor to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware

No Drawing. Application April 2, 1952,

Serial No. 280,185

5 Claims. (Cl. 167—30)

1. An insecticidal composition comprising as an active component a synergistic combination of the gamma isomer of hexachlorocyclohexane and a combination of 2 parts of 2-nitro-1,1-bis(p-chlorophenyl) butane to one part of 2-nitro-1,1-bis(p-chlorophenyl) propane.

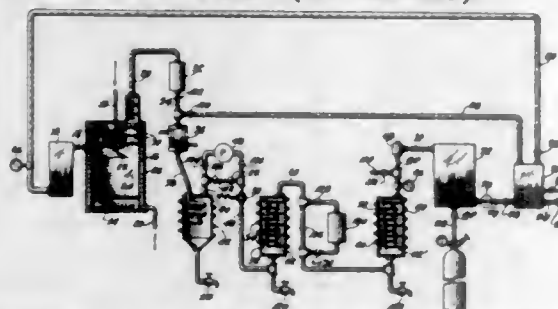
2,714,573

# PROCESS FOR RECOVERING VOLATILE FLAVORS

Frank Fessler, Newark, N. J., assignor, by mesne assignments, of 100/995 to James J. Gustat, East Orange, 100/995 to Patrick F. McDevitt, Jersey City, 100/995 to Edwin W. Phillips, Millburn, 50/995 to Charles W. Hutchinson, Bayonne, 50/995 to Arthur J. Blake, Jersey City, 100/995 to Raymond J. Lamb, Ridgewood, 400/995 to Frank Fessler, Newark, and 95/995 to Richard Low, Newark, N. J.

Application October 14, 1950, Serial No. 190,188

4 Claims. (Cl. 202—39)



1. Process for recovering the volatile flavors from fruit juices or the like, introducing a stream of an inert non-condensable gas of a temperature lower than 212° F. into a stripping zone to strip a fruit juice or the like, cooling in several stages the mixture resulting from the stripping action and including gas, water vapor and volatile flavors, the temperature in the first stage being maintained between 32° and approximately 33° F., the temperature in the following stages being below the freezing point of water, the temperature in each of the said following stages being lower than that in the preceding stage, allowing water vapor and the volatile flavors to precipitate in each of said stages, withdrawing the precipitates from said following stages, and recycling the gas to the starting material.

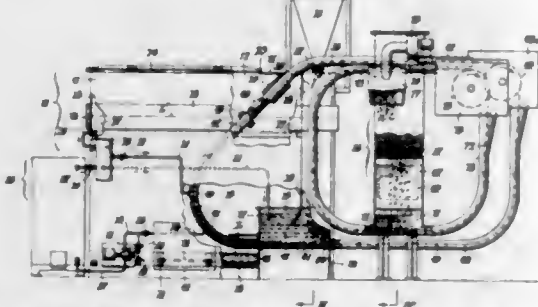
2,714,574

# DEGREASING AND CLEANING APPARATUS

Thomas J. Kearney, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan

Application August 4, 1953, Serial No. 372,269

9 Claims. (Cl. 202—169)



1. In degreasing apparatus for cleaning loose material such as chips or small articles by treatment with hot liquid solvent such as trichlorethylene or the like, a walled enclosure having an immersion tank therein for the hot solvent; a passage through which the contaminated material is introduced from above at the exterior of the enclosure to drop into the immersion tank; an aerating tower

adjacent the enclosure; a trunk extending up through the enclosure to the exterior and connecting into the top of the aerating tower said trunk having conveyer means therein for lifting the material from the bottom of the immersion tank for delivery to and gravity release to drop within the aerating tower; and a second separate trunk extending up from the bottom of the drying tower and having conveyer means therein for lifting the dried cleansed material to a higher level for discharge from the apparatus.

2,714,575

# PRODUCTION OF METALLIC TITANIUM

Eugene Walner, Cleveland Heights, and Merle E. Sibert, Garfield Heights, Ohio, assignors, by mesne assignments, to Horizons Titanium Corporation, Princeton, N. J., a corporation of New Jersey

No Drawing. Application July 3, 1952,

Serial No. 297,157

9 Claims. (Cl. 204—71)

1. In the method of producing metallic titanium by electrolysis of an alkali metal fluotitanate in a substantially anhydrous fused salt bath consisting essentially of an alkali metal fluotitanate and at least one halide salt from the group consisting of alkali metal halides and alkaline earth halides, the improvement which comprises incorporating in the bath a halide of an extraneous tetravalent metal of the group consisting of zirconium, hafnium, and thorium in an amount comprising at least about .2% by weight of the alkali metal fluotitanate in the bath, thereby increasing the particle size of the electrodeposited titanium.

2,714,576

# ELECTROLYTIC PREPARATION OF 2,5-DIALKOXY-2,5-DIHYDROFURANS

Niels Konrad Friedrich Wilhelm Clauson-Kaas, Klampenborg, and Franz Limborg, Copenhagen, Denmark, assignors, by mesne assignments, to Sadolin and Holmblad A/S, a corporation of the Kingdom of Denmark

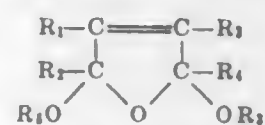
No Drawing. Application April 23, 1953,

Serial No. 350,767

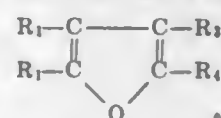
Claims priority, application Denmark December 29, 1949

8 Claims. (Cl. 204—78)

1. Method for producing, without formation of substituted derivatives, 2,5-dialkoxy-2,5-dihydrofurans of the formula:



where R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> are from the group consisting of hydrogen and aliphatic groups of less than 5 carbon atoms, and R<sub>5</sub> is an aliphatic group of 1 to 5 carbon atoms, comprising electrolyzing at a temperature sufficiently low to permit production of said product, a solution containing a furan of the formula:



where R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> have the above significance, an aliphatic alcohol of 1 to 5 carbon atoms and an electrolyte soluble in the solution to be electrolyzed to produce the product free of substituted derivatives, and recovering the product.

2,714,577

# NEUTRONIC REACTOR

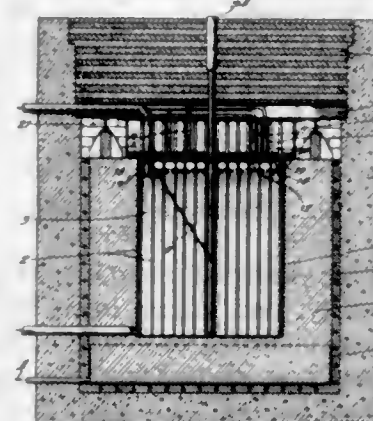
Enrico Fermi, Santa Fe, N. Mex., and Walter H. Zinn, Chicago, Ill., assignors to the United States Atomic Energy Commission as represented by the United States Atomic Energy Commission

Application November 2, 1945, Serial No. 626,383

1 Claim. (Cl. 204—193)

In a neutronic reactor, a container, a cover therefor, a plurality of composite rods suspended from the cover

so as to extend well into the tank, each rod being composed of an aluminum portion extending into the tank from the cover and a thermal-neutron-fissionable portion secured to a region of the aluminum portion spaced from the cover and extending from the aluminum portion in a direction away from the cover, and heavy water filling the



container to a level above the juncture of the fissionable portion with the aluminum portion for each composite rod so as to cause the fissionable portion to be wholly immersed, variation in the level of the heavy water serving to vary the amount of heavy water above the fissionable portions and thus to vary the neutron-reflecting action of the heavy water.

2,714,578

# MANUFACTURE OF PERMEABLE BARRIERS

Charles F. Teichmann, Crestwood, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application October 2, 1951, Serial No. 249,334

4 Claims. (Cl. 210—8.5)



1. In the production of porous permeable barriers for the diffusive separation of fluid mixtures comprising constituents of different molecular weight which involves providing a porous barrier of integrally consolidated, mechanically rigid solid material of relatively great permeability, injecting into the internal pore space a fluent liquid which is non-wetting with respect to the surfaces of said porous solid material and in an amount effective to partially saturate the internal pore space and leave unoccupied a residual portion of the pore space and thereafter immobilizing said liquid in situ to provide a diffusion barrier of desired relatively lesser permeability.

2,714,579

# LUBRICATING OIL ADDITIVES

Dilworth T. Rogers, Summit, and John P. McDermott, Springfield, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application July 18, 1951,

Serial No. 237,477

15 Claims. (Cl. 252—46.7)

4. A composition comprising a major proportion of an oily vehicle selected from the group consisting of mineral oils, natural fatty oils and synthetic ester oils and containing 0.001 to 5% by weight, based on the total composition, of the reaction product of an arylsilanol in which at least two silicon bonds are occupied by aryl groups, the remainder of the silicon bonds being occupied by hydroxy groups and a phosphorus sulfide reacted to substantial completion at a temperature within the range of 150 to 250° C.

2,714,580

# MAGNETIC MATERIALS AND METHODS OF MAKING THE SAME

Reginald S. Dean, Washington, D. C., and John D. Burney and William O. Cook, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application September 19, 1951,

Serial No. 247,376

1 Claim. (Cl. 252—62.5)

The method of making a soft magnetic material comprising the steps of weighing out the following percentages by weight of 61.8% Fe<sub>2</sub>O<sub>3</sub>; 15% ZnO; 23.2% FeVO, adding water thereto, mixing the same to an approximate consistency of SAE 30 oil, adding two drops of a wetting agent, continuing said mixing for at least thirty minutes, drying said mix in an oven at 110° C. for a period of approximately fourteen hours, pulverizing the same to a powder adapted to pass through a 60 mesh sieve, adding 8% by weight of a 5% soluble starch solution, pressing the same into a compact, sintering the same in air for three hours at approximately 1250° C., and allowing the same to slowly cool thereafter.

2,714,581

# LUMINESCENT MATERIAL

Ferdinand Anne Kröger and Willy Hoogenstraaten, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

No Drawing. Application October 10, 1951,

Serial No. 250,798

Claims priority, application Netherlands October 17, 1950

6 Claims. (Cl. 252—301.6)

6. A phosphor consisting essentially of zinc silicate activated by gallium.

2,714,582

# FINELY DIVIDED DISPERSIBLE ASPHALTIC COMPOSITION AND METHOD OF MAKING THE SAME

Edward J. Day, Leominster, Mass., assignor to Lukon, Inc., Leominster, Mass., a corporation of Massachusetts

No Drawing. Application April 26, 1954,

Serial No. 425,759

10 Claims. (Cl. 252—311.5)

1. A substantially dry asphaltic mix in a finely divided dry powder form characterized by substantially spontaneous dispersibility in water after the particles have become wet, said mix comprising the following components in the following proportions:

	Parts by weight
Finely divided friable asphaltic material.....	100
A finely divided dry dispersing agent selected from the group consisting of organic sulfonic acids, salts of organic sulfonic acids, ligno-sulfonate salts, water soluble soaps, polyoxyethylene stearate, sorbitan tristearate, sulfated fatty alcohols and sulfonated alkylphenoxylethanol.....	3 to 25
and a finely divided dry protective colloid.....	2 to 10

said mix having a degree of fineness such that a majority of the particles pass through a 300 mesh screen.

2,714,583

# CONVERSION OF CARBON MONOXIDE AND WATER TO HYDROCARBONS IN THE PRESENCE OF METAL MOLYBDITE CATALYSTS

Frank S. Fawcett, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 23, 1952,

Serial No. 267,910

5 Claims. (Cl. 260—2)

1. A process for preparing normally solid hydrocarbons which comprises reacting carbon monoxide and water, as



sole initial reactants, in the presence of a catalyst selected from the group consisting of the metal molybdates and tungstates, which are metal salts of an acid of the formula  $H_2MO_n$ , wherein  $n$  is from 2 to 3, inclusive, and  $M$  is selected from the group of molybdenum and tungsten, the metal substituted for hydrogen in the said formula being characterized in that the ions thereof form by reaction of aqueous ammonia a compound selected from the group consisting of oxides and hydroxides which are soluble in the presence of excess aqueous ammonia, and oxides and hydroxides which are soluble in water, at a temperature in the range of 125° C. to 350° C. under a pressure of at least 200 atmospheres and thereafter separating the said hydrocarbons from the resulting mixture.

2,714,584

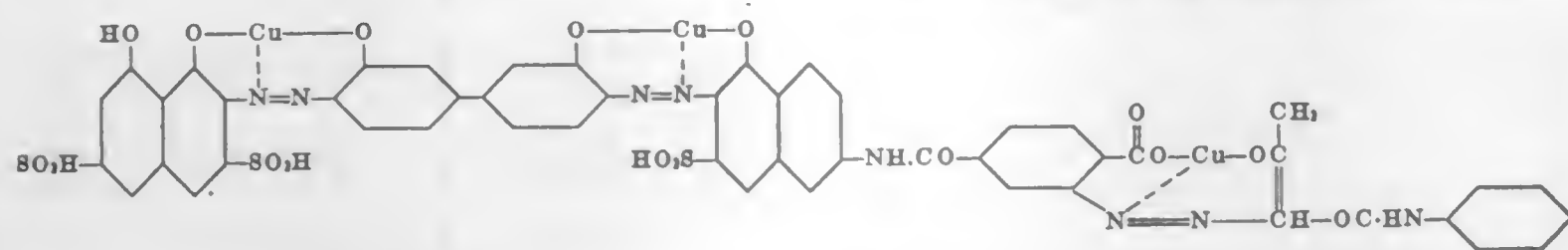
## COLLOIDAL ASPHALT FILLERS FOR PLASTICS

Ferdinand Küster, Borgholzhausen, Germany; Julia Küster, sole heir of said Ferdinand Küster, deceased

No Drawing. Application November 20, 1951,  
Serial No. 257,417

1 Claim. (Cl. 260—28.5)

A plastic molding composition comprising an organic synthetic resin selected from the class consisting of polyvinyl chloride and polyvinylidene chloride, and a filler of an asphaltic pyrobitumen intimately admixed to said resin, in the proportions of between 2 and 50 parts by weight of asphaltic pyrobitumen to 100 parts by weight of resin, said filler being of substantially colloidal fineness with a particle size between one micron and one millimicron, said plastic composition being characterized by having high insulation resistance, high tensile strength and high resistance to cold flow.



2,714,585

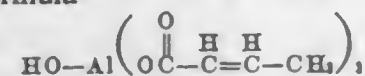
## CURING OF SILICONE RESINS WITH ALUMINUM CROTONATE

Maynard C. Agens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application May 26, 1954,  
Serial No. 432,608

6 Claims. (Cl. 260—46.5)

1. A composition of matter comprising (1) a heat-hardenable hydrocarbon-substituted polysiloxane resin, containing an average of more than 1 and less than 2 hydrocarbon groups per silicon atom and (2) a curing catalyst for the said resin comprising aluminum crotonate having the formula

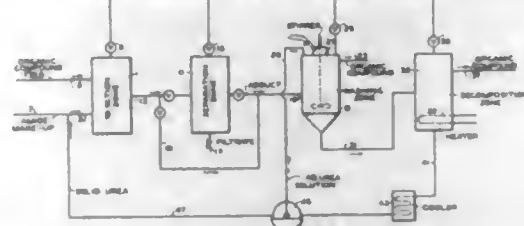


the said curing agent being present in an amount suf-

ficient to convert the said resin in the presence of heat to a cured, tack-free state.

2,714,586  
WASHING UREA AND THIOUREA CONTAINING ADDUCTS

Charles S. Lynch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Application June 25, 1951, Serial No. 233,403  
10 Claims. (Cl. 260—96.5)



1. A process for purifying an adduct of an occluded hydrocarbon impurity, said adduct being selected from the group of adducts consisting of a urea adduct of a normal paraffinic hydrocarbon selected from the group of n-paraffinic hydrocarbons having from 6 to 50 carbon atoms per molecule, comprising, admixing said adduct at a temperature below the adduct decomposition temperature with a saturated aqueous solution of urea, settling the adduct from said hydrocarbon impurity of the admixture and recovering the settled adduct and the impurity from the settled admixture as separate products of the process.

2,714,587

## AZO DYESTUFFS

Reinhard Neier and Walter Wehrli, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm  
No Drawing. Application February 11, 1952,  
Serial No. 271,064

Claims priority, application Switzerland February 17, 1951  
7 Claims. (Cl. 260—145)

7. The azo dyestuff corresponding to the formula

2,714,588

## COPPER-CONTAINING DISAZO DYESTUFFS

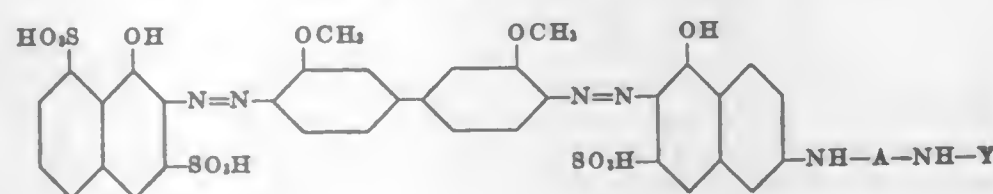
Ernst Keller, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application January 28, 1952,  
Serial No. 268,694

Claims priority, application Switzerland February 7, 1951

9 Claims. (Cl. 260—148)

3. The complex copper compound of a disazo dyestuff having the general formula



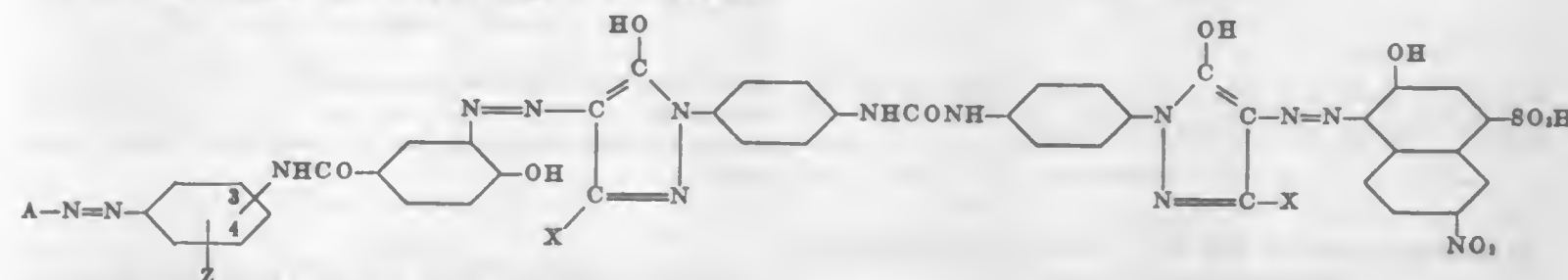
wherein A represents a 1,4-phenyl radical and Y represents an alkoxy radical.

2,714,589  
COPPERABLE TRISAZO DYESTUFFS

Peter Hindermann, Batterie, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm  
No Drawing. Application May 19, 1952,  
Serial No. 288,768

Claims priority, application Switzerland June 4, 1951  
4 Claims. (Cl. 260—159)

1. A trisazo dyestuff corresponding to the formula:



wherein A represents the radical of an o-hydroxybenzoic acid coupled in the p-position to the hydroxyl group and Z represents a member selected from the group consisting of H, —CH<sub>3</sub> and —OCH<sub>3</sub>, and X represents a member selected from the group consisting of methyl and phenyl.

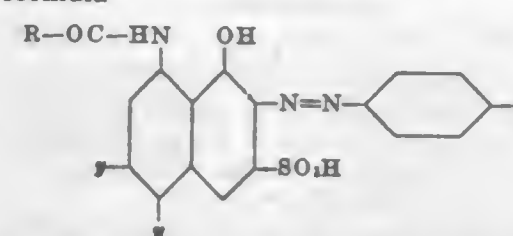
2,714,590

## ACID MONOAZO DYESTUFFS

Franz Frisch, Arlesheim, and Walter Wehrli, Riehen, Switzerland, assignors to Sandoz A. G., Basel, Switzerland  
No Drawing. Application July 10, 1952,  
Serial No. 298,184

Claims priority, application Switzerland July 18, 1951  
6 Claims. (Cl. 260—199)

1. The acid monoazo dyestuffs corresponding to the general formula



wherein x stands for a radical selected from the group consisting of straight and branched chain alkyl radicals containing four and five carbon atoms, one y stands for the sulfonic acid group, the other y being hydrogen, and wherein R stands for a member selected from the class consisting of alkyl, chloroalkyl, alkoxyalkyl, alkoxy, cycloalkoxy and mononuclear aralkyl, aryloxyalkyl, aryl, aryloxy and aralkoxy, the alkyl in the last-mentioned class being lower alkyl throughout.

2,714,591

## CELLULOSE SULFATE PREPARATION

Eugene D. Klug and Harold M. Spurlin, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 8, 1951,  
Serial No. 245,766

11 Claims. (Cl. 260—215)

1. A process for preparing cellulose sulfate which comprises steeping cellulose in a bath of steeping liquor comprising essentially between about 20% and 70% by weight of sulfuric acid of at least about 90% and not more than 100% strength dissolved in lower fatty acid until said cellulose is uniformly impregnated with said steeping liquor, removing excess steeping liquor to adjust the amount of sulfuric acid distributed on the cellulose to not more than about 10 moles per anhydroglucose

unit, suspending the steeped cellulose, following removal of excess steeping liquor, in an inert organic liquid selected from the group consisting of liquid hydrocarbons and liquid chlorinated hydrocarbons to form a slurry, and sulfating the cellulose, the entire process being conducted at a temperature below about 20° C.

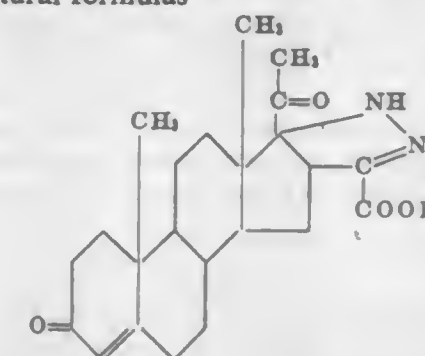
2,714,592

## ESTERS OF 16,17-(3',1'-(3'-CARBOXY-2'-PYRAZOLINO)PREGNEN-20-ONES AND METHODS FOR THEIR PREPARATION

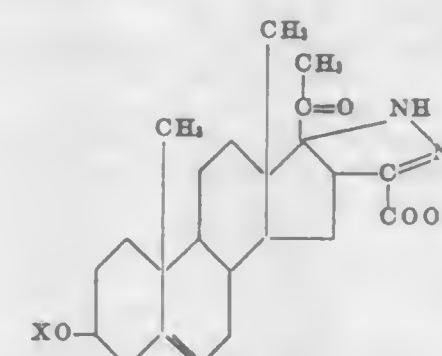
George P. Mueller, Park Ridge, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois  
No Drawing. Application April 20, 1953,  
Serial No. 349,984

6 Claims. (Cl. 260—239.5)

1. A member of the class consisting of the compounds of the structural formulas



and



wherein X is a member of the class consisting of hydrogen and (lower alkyl)—CO—radicals and R is a member of the class consisting of lower alkyl radicals and radicals of the structural formula (lower alkyl)<sub>2</sub>N-(lower alkyl-ene).

2,714,593

## DIHYDROPYRROLO-(3,2-c) QUINOLINE DERIVATIVES

Hans Ulrich Hörlein, Hans Andersag and Helmut Timmer, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware

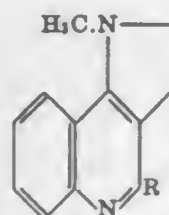
No Drawing. Application April 28, 1953,  
Serial No. 351,752

Claims priority, application Germany May 26, 1952  
The portion of the term of the patent subsequent to October 5, 1971, has been dedicated to the public  
7 Claims. (Cl. 260—287)

1. As a new chemical compound, a substance chosen



from the group consisting of compounds represented by the formula:



wherein R is chosen from the group consisting of hydrogen, carboxy and N-methylcarbanyl.

2,714,594

# HALOBENZOATES OF 1,2,3,4-TETRAHYDROISO-QUINOLINEALKANOLS

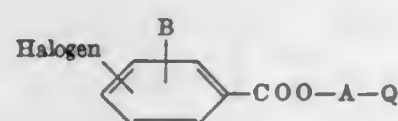
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application January 13, 1954,

Serial No. 403,910

8 Claims. (Cl. 260-287)

1. A compound of the structural formula



wherein A is a lower alkylene radical, B is a member of the class consisting of halogen, hydrogen, and lower alkyl radicals and Q is a 2-(1,2,3,4-tetrahydro)isoquinoline radical containing attached to the carbon atoms of the nitrogen-containing ring members of the class consisting of hydrogen, lower alkyl and phenyl radicals.

2,714,595

# DERIVATIVES OF ISONICOTINIC ACID-1-OXIDES

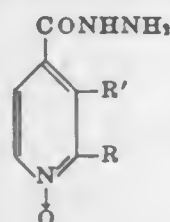
Jack Bernstein and Kathryn A. Losee, New Brunswick, N. J., assignors to Olin Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application September 18, 1952,

Serial No. 310,374

6 Claims. (Cl. 260-295)

1. A compound of the group consisting of: the hydrazides of isonicotinic acid-1-oxides having the structural formula



wherein R is a member of the group consisting of hydrogen, lower alkyl, and (lower alkyl)-oxy, and R' is a member of the group consisting of hydrogen, lower alkyl, (lower alkyl)-oxy, and halo; and their acid-addition salts.

2,714,596

# PIGMENT DYES OF THE ISOTHIAZOLANTHRONE SERIES

Ernst Gutzwiller and Wolfgang Schoenauer, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland

No Drawing. Application June 8, 1953,

Serial No. 360,382

Claims priority, application Switzerland June 16, 1952

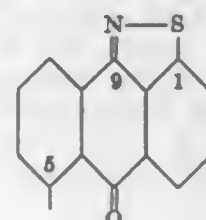
4 Claims. (Cl. 260-303)

1. A condensation product which corresponds to the formula



wherein R stands for a radical selected from the group

consisting of benzanthranyl and anthraquinonyl radicals, Y stands for a radical of the formula



which is connected at the 5-position to R by an —NH— bridge, and Z is a member selected from the group consisting of hydrogen and the Y radicals as hereinbefore defined.

2,714,597

# HALO SUBSTITUTED 4(5)-ARYLOXYMETHYL-IMIDAZOLES

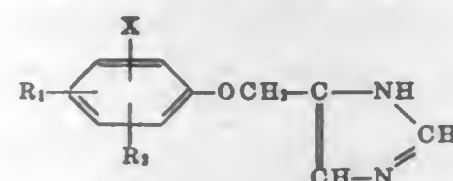
Richard U. Schock, Leo R. Swett and Howard J. Glenn, Waukegan Township, Lake County, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application August 28, 1952,

Serial No. 306,932

13 Claims. (Cl. 260-309)

1. New composition of matter having the formula



wherein X is halogen and R1 and R2 are selected from the group consisting of hydrogen, halogen, lower alkyl, lower alkoxy, and phenyl.

2,714,598

# 1-HYDROXY-2-CYANO-4-SUBSTITUTED ANILINO-ANTHRAQUINONE COMPOUNDS

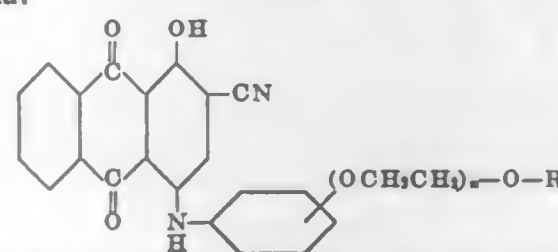
George J. Taylor and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1951,

Serial No. 221,123

6 Claims. (Cl. 260-380)

1. The anthraquinone compounds having the general formula:



wherein R represents a member selected from the group consisting of a hydrogen atom, a methyl group and an ethyl group, n represents a number selected from three and four and wherein the —(OCH2CH2)n—O—R group is attached to the anilino radical shown in a position selected from the ortho and para positions to the amino group of the anilino radical.

2,714,599

# OXIDATION OF 3-HYDROXYSTEROIDS

Gunther S. Fonken, Kalamazoo, Robert H. Levin, Kalamazoo Township, Kalamazoo County, and A Vern McIntosh, Jr., Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 16, 1952,

Serial No. 299,232

20 Claims. (Cl. 260-397.45)

1. A process which comprises: contacting a saturated

secondary-hydroxy-steroid with an organic hypochlorite under substantially anhydrous conditions to convert the secondary-hydroxy group to a keto group.

2,714,600

# OXIDATION-CHLORINATION OF 3-HYDROXYSTEROIDS

Gunther S. Fonken, Kalamazoo, Robert H. Levin, Kalamazoo Township, Kalamazoo County, and A Vern McIntosh, Jr., Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 16, 1952,

Serial No. 299,233

15 Claims. (Cl. 260-397.45)

1. A process which comprises: contacting a saturated 3-hydroxy-steroid with an organic hypochlorite in the presence of water.

2,714,601

# ALPHA-CHLORINATION OF 3-KETOSTEROIDS

Gunther S. Fonken, Kalamazoo, Robert H. Levin, Kalamazoo Township, Kalamazoo County, and A Vern McIntosh, Jr., Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 16, 1952,

Serial No. 299,234

20 Claims. (Cl. 260-397.45)

1. A process for the  $\alpha$ -chlorination of a ketosteroid which comprises: contacting a saturated 3-ketosteroid with an organic hypochlorite to introduce a chlorine atom in  $\alpha$ -position to the keto group.

2,714,602

# HYDROXYLATION OF VINYL-CYCLOHEXENE

Leslie Stephen Abbott, Banstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application April 18, 1950,

Serial No. 156,722

Claims priority, application Great Britain April 26, 1949

17 Claims. (Cl. 260-410)

16. A process for the production of diesters of ethyl cyclohexan-3:4-diol which comprises, the step of reacting vinylcyclohexen-3:4 with about 1 molar proportion of a peracid selected from the group consisting of performic and peracetic acid, dissolved in the corresponding carboxylic acid, at a temperature of 35-95° C., in the presence of a catalytic amount of sulphuric acid, the step of hydrolysing the monoester so produced, the step of esterifying the resultant diol, and hydrogenating the resultant esterified diol to produce a diester of ethyl cyclohexan-3:4-diol.

2,714,603

# PROCESSING ALKYL ESTERS OF FATTY ACIDS

Charles G. Goebel, Cincinnati, Ohio, assignor to Emery Industries, Inc., a corporation of Ohio

No Drawing. Application October 6, 1951,

Serial No. 250,199

6 Claims. (Cl. 260-416)

1. A process for the hydrolysis of the esters of volatile monohydric alcohols and higher fatty acids, of 12-22 carbon atoms chain length which comprises boiling the esters with water containing a Twitchell reagent and an acidifying reagent, allowing water vapor and the alcohol liberated by the hydrolysis to escape continuously, continuously replenishing the evolved water and continuing the boiling until the desired degree of hydrolysis is attained.

697 O. G.—8

# 2,714,604 PRODUCTION OF OXYGENATED HYDROCARBONS

Robert L. Mitchell and Oren V. Luke, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application September 4, 1952,

Serial No. 307,907

11 Claims. (Cl. 260-451)

1. In a process for the production of oxygenated hydrocarbons by the vapor phase partial oxidation of hydrocarbon materials wherein a main stream comprising a reaction mixture containing oxygen and hydrocarbon materials is heated to an elevated temperature below that at which the oxidation reaction will take place in an uncontrolled manner and the oxidation reaction proceeds at a rapid rate after an induction period, the improvement which comprises introducing into the main stream during the induction period an auxiliary stream comprising a mixture of oxygen and hydrocarbon materials which has been heated to an elevated temperature and in which the induction period has passed so that the oxidation reaction is proceeding in the auxiliary stream at a rapid rate.

2,714,605

# SULFATION OF HYDROXYLATED POLYBUTADIENES

Rufus V. Jones, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application May 7, 1951,

Serial No. 225,053

24 Claims. (Cl. 260-458)

1. A process which comprises reacting a hydroxylated polybutadiene with a complex of sulfur trioxide and an organic compound in the presence of a tertiary amine solvent and thereby sulfating at least a portion of the hydroxyl groups of said hydroxylated polybutadiene.

16. A composition of matter which comprises a sulfated hydroxylated polybutadiene having at least a portion of the hydroxy groups of said hydroxylated polybutadiene sulfated by reacting the hydroxylated polybutadiene with a complex of sulfur trioxide and an organic compound in the presence of a tertiary amine solvent.

2,714,606

# PROCESS FOR THE PRODUCTION OF NITROUS ESTERS

Samuel Soloveichik, New York, N. Y.

No Drawing. Application June 21, 1954,

Serial No. 438,325

3 Claims. (Cl. 260-466)

1. The method of producing nitrous esters, comprising heating a mixture of an aliphatic alcohol, boric anhydride and nitric acid and distilling off the nitrous ester as soon as it is formed.

2,714,607

# POLYETHOXY ESTERS OF p-BUTYLAMINO-BENZOIC ACID

Max Matter, Worb, near Bern, Switzerland, assignor, by mesne assignments, to Ciba Pharmaceutical Products Inc., Summit, N. J., a corporation of New Jersey

No Drawing. Application February 13, 1951,

Serial No. 210,796

Claims priority, application Switzerland February 15, 1950

5 Claims. (Cl. 260-471)

1. A new ester which corresponds to the formula



wherein n stands for an integer from 4 to 50 inclusive, and R stands for a member selected from the group consisting of hydrogen and alkyl radicals containing not more than 6 carbon atoms.



2,714,608

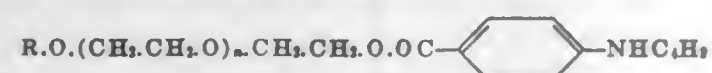
**POLYETHOXY ESTERS OF ISOCYCLIC ORGANIC CARBOXYLIC ACIDS**

Max Matter, Worb, near Bern, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application September 15, 1953, Serial No. 380,337

Claims priority, application Switzerland February 15, 1950 6 Claims. (Cl. 260-471)

1. The new esters of the formula



wherein  $n$  is an integer from 7-18 and  $R$  stands for a member selected from the group consisting of hydrogen and an alkyl group having at most 6 carbon atoms.

2,714,609

**POLYETHOXY ESTERS OF N-SUBSTITUTED p-AMINOBENZOIC ACIDS**

Max Matter, Worb, near Bern, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application July 2, 1954, Serial No. 441,157

Claims priority, application Switzerland February 15, 1950 6 Claims. (Cl. 260-471)

1. The new esters of the formula



wherein  $n$  means an integer from 7 to 50 inclusive,  $R$  stands for a member selected from the group consisting of hydrogen and saturated hydrocarbon radicals having at most 6 carbon atoms,  $R'$  represents a member of the group consisting of cycloalkyl- and oxaalkyl radicals having from 4 to 7 carbon atoms.

2,714,610

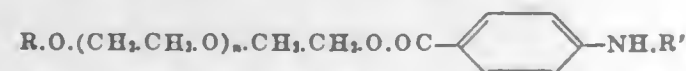
**POLYETHOXY ESTERS OF N-SUBSTITUTED p-AMINOBENZOIC ACIDS**

Max Matter, Worb, near Bern, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application April 14, 1955, Serial No. 501,444

Claims priority, application Switzerland February 15, 1950 3 Claims. (Cl. 260-471)

1. The new esters of the formula:



wherein  $n$  means an integer from 7 to 50 inclusive,  $R$  stands for a member selected from the group consisting of hydrogen and saturated hydrocarbon radicals having at most 6 carbon atoms and  $R'$  represents a member of the group consisting of alkyl radicals having from 5 to 7 carbon atoms.

2,714,611

**POLYCARBOXYLIC ACID ESTERS OF OXYPROPYLATED ALKYL MONOAMINES**

Alvin Howard Smith, Kirkwood, Mo., assignor to Petrolite Corporation, a corporation of Delaware

No Drawing. Application April 10, 1952, Serial No. 281,652

12 Claims. (Cl. 260-475)

1. Hydrophile synthetic products; said hydrophile synthetic products being obtained by reaction between (A)

a polycarboxy acid selected from the group consisting of acyclic and isocyclic acids having no more than 8 carbon atoms and consisting of carbon, hydrogen and oxygen, and (B) high molal oxypropylation derivatives of alkyl mono amines having present at least one group in which there is present at least 8 and not more than 32 carbon atoms joined by carbon to carbon linkages, with the proviso that (a) the initial amine be xylene-soluble; (b) the amount of propylene oxide employed be not less than 4 and not over 20 moles per reactive hydrogen atom present in the original amine, including reactive hydrogen atoms attached to oxygen atoms; (c) the oxypropylation product must be xylene-soluble; and with the further proviso that the ratio of (A) to (B) be one mole of (A) for each hydroxyl radical present in (B).

2,714,612

**SEPARATION OF 4- AND 5-NITRO-ANTHRANILIC ACID**

Hardin Kibbe Porter, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 25, 1954, Serial No. 432,308

6 Claims. (Cl. 260-518)

1. A process for separating 4-nitroanthranilic acid from a mixture containing 4- and 5-nitroanthranilic acid which comprises dissolving one mole of the isomeric mixture in from 4 to 6 mols of sulfuric acid of from 65% to 85% concentration at temperatures of from 60° to 110° C., cooling the solution to from 10° to 35° C. under agitation, and filtering off the 4-nitroanthranilic acid.

2,714,613

**DI-(p-SUBSTITUTED PHENYL)-THIOUREAS**

Charles F. Huebner, Chatham, N. J., and Caesar R. Scholz, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J., a corporation of New Jersey

No Drawing. Application October 8, 1953, Serial No. 385,030

7 Claims. (Cl. 260-552)

1. A member of the group consisting of a di-(p-substituted phenyl)-thiourea wherein the substituent in one of the phenyls is a di(lower alkyl)aminoethoxy radical and the substituent in the other phenyl is a butoxy radical, and non-toxic acid addition salts thereof.

2,714,614

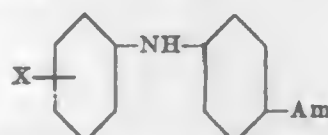
**SUBSTITUTED AMINODIPHENYLAMINES**

Viktor Weinmayr, Pitman, N. J., assignor to E. I. du Pont de Nemours &amp; Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 20, 1951, Serial No. 222,157

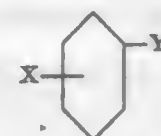
12 Claims. (Cl. 260-571)

1. The process of preparing a 4-aminodiphenylamine having the formula:

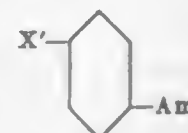


in which  $X$  represents a radical containing from 1 to 4 carbon atoms and selected from the group consisting of

alkyl and alkoxy radicals, and  $Am$  represents a member of the group consisting of amino, monoalkylamino containing from 1 to 4 carbon atoms, dialkylamino in which each alkyl contains from 1 to 4 carbon atoms, phenylamino and p-alkylphenylamino radicals in which the alkyl radicals contain from 1 to 4 carbon atoms, which comprises hydrogenating a mixture of (1) a compound having the formula:



in which  $X$  has the significance above stated and  $Y$  represents a member of the group consisting of nitro and hydroxylamino radicals, and (2) a phenylamine having the formula:



in which  $X'$  represents a member of the group consisting of hydrogen and alkoxy radicals containing from 1 to 4 carbon atoms and  $Am$  has the significance above stated, in a solution having a pH no higher than 4 and in the presence of a hydrogenation catalyst selected from the group consisting of palladium and platinum.

2,714,615

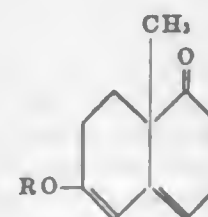
**OXONAPHTHALENE CORTISONE INTERMEDIATES**

Melvin S. Newman, Columbus, Ohio, and Sambasiva Swaminathan, Mylapore, India, assignors to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

No Drawing. Application March 8, 1954, Serial No. 414,886

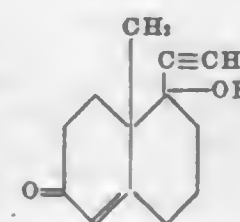
19 Claims. (Cl. 260-586)

1. A new composition of matter consisting of a 1,2,3,7,8,8a-hexahydro-6-alkoxy-8a-methyl-1-oxonaphthalene having the structural formula:



wherein  $R$  is a lower-alkyl group.

2. A new composition of matter consisting of an 8a-methyl-1,2,3,4,6,7,8,8a-octahydro-1-ethynyl-1-hydroxy-6-oxonaphthalene, having the structural formula:



2,714,616

**PRODUCTION OF ANHYDROUS FORMALDEHYDE**  
Arthur W. Schnizer and Gene J. Fisher, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application September 18, 1952, Serial No. 310,348

3 Claims. (Cl. 260-606)

1. Process for the preparation of anhydrous formaldehyde which comprises passing vapors of trioxane over phosphoric acid at about 200 to 240° C.

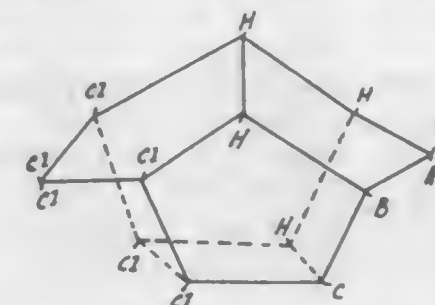
2,714,617

**PRODUCTION OF CYCLOBUTANO COMPOUNDS**  
Rex E. Lidov, Denver, Colo., and Henry Bluestone, Shaker Heights, Ohio, assignors, by mesne assignments, to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application January 7, 1953, Serial No. 330,165

6 Claims. (Cl. 260-648)

1. As a new composition of matter a compound having the structure:



wherein  $A$ ,  $B$ , and  $C$  are of the group consisting of hydrogen and methyl, said compound containing not more than one methyl group.

2,714,618

**MANUFACTURE OF CHLOROFLUOROCARBONS**  
Cyril Woolf, Morristown, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 21, 1954, Serial No. 438,361

9 Claims. (Cl. 260-653)

1. The process for fluorinating  $CCl_2=CCl_2$  to form  $CCl_2FCCl_2F$  which comprises introducing a gas phase mixture comprising  $CCl_2=CCl_2$ , substantially anhydrous  $HF$  and free chlorine into a reaction zone, the amount of  $HF$  and free chlorine being sufficient to ultimately form a substantial quantity of  $CCl_2FCCl_2F$ , and heating said mixture in said zone at temperature in the approximate range of 300-600° C., while in the presence of zirconium tetrafluoride-activated carbon catalyst, for a time sufficient to cause fluorinating reaction of a substantial quantity of  $CCl_2=CCl_2$  and effect formation of a gaseous chlorofluorocarbon reaction product comprising a substantial quantity of  $CCl_2FCCl_2F$ .

2,714,619

**PROCESS FOR POLYMERIZING 1,3-DIHALOOLEFINS**

Arnold H. Anderegg and Donald S. Melstrom, Houston, Tex., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application July 25, 1951, Serial No. 238,580

4 Claims. (Cl. 260-654)

1. The process for the production of dimers and trimers of 1,3-dichloropropene which comprises, bringing 1,3-dichloropropene into direct contact with a catalyst solution consisting essentially of aluminum chloride dis-



solved in nitromethane in the liquid phase, and at a temperature in the range of from about  $-10^{\circ}\text{C}.$  to about  $50^{\circ}\text{C}.$

2,714,620

**METHOD OF DESTROYING CATALYST RESIDUES**  
Robert F. Leary, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application September 27, 1951,  
Serial No. 248,630

2 Claims. (Cl. 260-669)

1. In a process for the preparation of drying oils wherein 60 to 95 parts of butadiene are copolymerized with 40 to 5 parts of styrene at a temperature of  $20-100^{\circ}\text{C}.$  in the presence of 1.5 to 10 parts of finely divided metallic sodium and 50 to 100 parts of an inert hydrocarbon diluent boiling between  $20^{\circ}$  and  $200^{\circ}\text{C}.$ , and wherein residual catalyst is removed upon completion of the reaction, the improvement which comprises treat-

ing the reaction product with 2 to 3 molar equivalents of at least 85% acetic acid to completely destroy the catalyst and provide an easily filterable product.

2,714,621

**PROCESS FOR PREPARING 2,5-DIPHENYL-1-HEXENE FROM ALPHA-METHYLSTYRENE**  
Milton J. Hogsed, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 9, 1952,  
Serial No. 265,727

3 Claims. (Cl. 260-669)

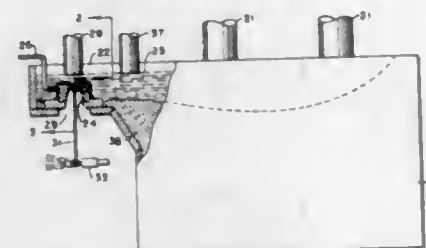
1. Process for the preparation of 2,5-diphenyl-1-hexene which comprises heating alpha-methylstyrene in the presence of a polymerization inhibitor under pressure at a temperature of  $200$  to  $400^{\circ}\text{C}.$ , and isolating from the reaction mixture 2,5-diphenyl-1-hexene as the resulting product.

## ELECTRICAL

2,714,622

**METHOD AND APPARATUS FOR FIBERIZING REFRACTORY MATERIALS**  
John C. McMullen, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application March 3, 1953, Serial No. 339,997  
12 Claims. (Cl. 13-6)



7. The method for releasing a uniform steady stream of molten refractory material at the correct temperature for subsequent fiberizing comprising applying by arc-heating a regulated amount of heat to the molten material just prior to its passing through at least one releasing orifice, releasing the molten material through said orifice, cooling said orifice a regulated amount, and forming a layer of solidified refractory material on the surfaces of said orifice.

2,714,623

**NON-METALLIC CONDUCTOR**  
Leslie C. Wolcott, Warren, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 9, 1950, Serial No. 148,595  
3 Claims. (Cl. 174-120)



2. An electrically conducting cable comprising a non-metallic fibrous core which includes substantially parallel threads encased in a sheath of braided threads, said core being impregnated with comminuted conducting material and encased by an insulating sheath and having, intermediate the core and sheath, an intermediate layer of bonding material.

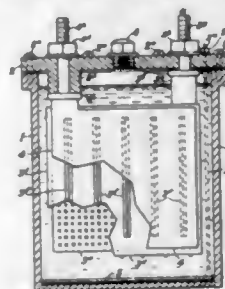
2,714,624

**STORAGE BATTERIES**  
Arquimedes Sayas Costa and Aristides Millan Gonzalez, Guanajay, Cuba

Application March 10, 1954, Serial No. 415,208  
3 Claims. (Cl. 136-28)

1. In storage batteries of the alkaline electrolyte type comprising a suitable receptacle closed at the top by a re-

movable cover and in which are suspended a group of electrically interconnected positive plates, a group of negative plates electrically interconnected with each other but spaced from the group of positive plates, said cover having openings through which project outward rods coming independently from said group of positive plates and from said group of negative plates, and an opening for pouring liquid into said receptacle, said last named opening having a cover with a valve which prevents the entrance of foreign matter into said receptacle while allowing gases to escape from the receptacle, the improvements which comprise the use, in combination, of an alkaline electrolyte consisting of an aqueous solution of about 10 to 50% potassium hydroxide, about 10 to 50% potassium zincate, about 20 to 60% potassium aluminate and distilled water; positive plates each of which consists of a



stainless steel plate with multiple perforations, said plate being coated with a paste consisting of oxide of silver, oxide of mercury, hydroxide of nickel and pulverized carbon, said coating of paste being in turn covered with porous paper that is not attacked by the electrolyte and said paper covering being in turn covered with laminated porous rubber, preferably with ridges on its outer surface; negative plates consisting of plates made from an alloy of bismuth and zinc; and a flat horizontal plate resting on the bottom of said receptacle and duly spaced from said negative and positive plates, said flat horizontal plate being made from stainless steel, having multiple perforations and being furnished with an upstanding rod of the same metal which extends upwards through the entire height of the receptacle, pierces the cover of the same and is attached to said cover.

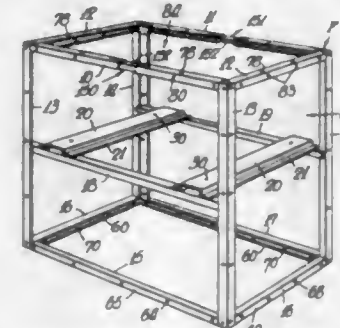
2,714,625

**TELEVISION CABINETS**  
Sidney H. Gould, New York, N. Y.

Application October 27, 1950, Serial No. 192,492  
1 Claim. (Cl. 174-50)

An inside superimposed triple deck metal skeleton frame-panel covered television cabinet in which said skeleton is interrupted to serve as a television aerial, the

top and bottom decks each being formed of four U-cross-section channel beams extending along the top and bottom four edges of the frame with the bases of each beam being vertical and the legs of the U-cross-section being horizontal and directed inwardly, the front and back beams of the top deck being centrally interrupted and connected by an insulating material, and the middle deck being formed by front and back U cross section beams with the side flanges of each being positioned vertically and directed downwardly and the base member



of each being positioned horizontally and said middle deck also including two relatively wide inverted U-cross-section members spaced substantially inside of the sides of the skeleton and having horizontal feet extensions from the side edges of the ends of the legs of the U-cross-section mounted on the horizontal flanges of the angle beams and vertical angle beams extending along and connected to the corners of each of the decks, the panels being mounted on the vertical faces of the beams forming the skeleton.

2,714,626

**PRIVATE LINE INTERCOMMUNICATING TELETYPEWRITER SYSTEM**  
George A. Locke, Glen Head, N. Y., Lawrence E. Melhuish, Glen Ridge, N. J., and Bernard Ostendorf, Jr., Stamford, Conn., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 11, 1951, Serial No. 261,022  
18 Claims. (Cl. 178-2)



1. In a directed message telegraph system wherein coded messages are directed to selected destinations automatically under control of address codes preceding said coded messages, a main tape controlled transmitter of said system for sending addresses followed by messages, a message storing tape controlled transmitter into the tape of which messages may be recorded without addresses, address coding means, address representing elements operable selectively one at a time to selectively derive an address from said address coding means and supply it into the tape of said main transmitter, and means automatically operable by the conclusion of said supply to transfer a message for said address from the storage of said message storing tape transmitter to follow said address into the tape of said main transmitter.

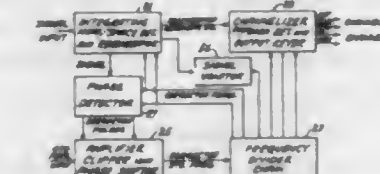
2,714,627

**ELECTRONIC MULTIPLEX TELEGRAPH RECEIVING TERMINAL APPARATUS**  
Eugene Richard Shenk, Fairlawn, and Philip Eckert Volz, Florham Park, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application December 8, 1950, Serial No. 199,764  
21 Claims. (Cl. 178-50)

1. An electronic circuit arrangement for separating the constituent signal elements of a multichannel, plural-con-

dition, aggregate telegraph signal train, including an input circuit to which said signal train is applied to produce output signal trains having opposing phase relationship with respect to each other, a timing-wave generator arranged to produce a plurality of harmonically-related timing waves, a phase-detector circuit coupled to said input circuit and said timing-wave generator to determine the phase relationship between said signal train and said timing waves, a phase shifting circuit coupled between said

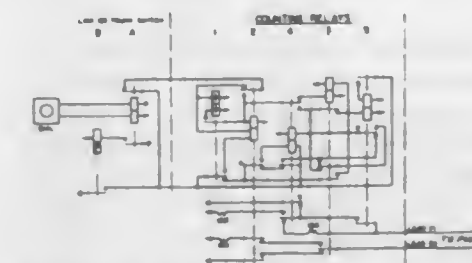


phase detector circuit and said timing wave generator to adjust the output waves of the latter into substantial synchronism with said signal train, a plurality of output circuits one for each category of constituent desired, and an electronic switching circuit coupled between said input output circuit and said output circuits and arranged to be actuated by said harmonically-related timing waves to energize the output circuit corresponding to the signal element under consideration.

2,714,628

**AUTOMATIC TELEPHONE SYSTEM**  
Hans P. Boswau, Dundee, Ill., assignor to Leich Electric Company, a corporation of Illinois

Application June 25, 1952, Serial No. 295,401  
22 Claims. (Cl. 179-18)

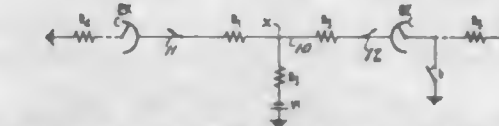


1. In an automatic telephone system of the relay type, a universal relay link circuit adapted for operative coaction with connector switches in a 100-line system or with selector switches in a selector system, respectively, said link circuit comprising circuit-switching and control means for governing the setting up of connections over said connector or over said selector, respectively, and for maintaining such connections and for causing release thereof, said circuit switching and control means including relay means for governing the selection of called subscribers, signalling and supervisory control means, ringing and ring-selection means, timing control means, and battery-feed control means for the calling and for the called lines.

2,714,629

**MARKING CIRCUIT**  
Roelof Maarten Marie Oberman, The Hague, Netherlands, assignor to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands

Application July 25, 1952, Serial No. 300,807  
5 Claims. (Cl. 179-18)



5. In an automatic switching system having a line finder switch and a final selector switch, and a contact on each said switch corresponding to a given subscriber, the improvement comprising means for producing differ-

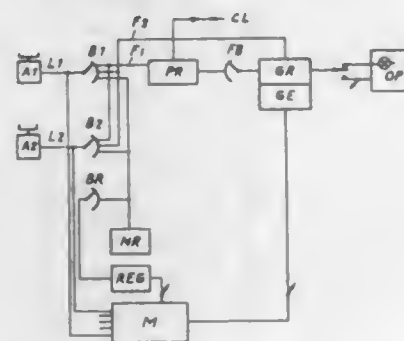


ent identification markings at said contacts corresponding to a given subscriber when (1) said system is connected to said line finder contact, when (2) said system is connected to said final selector contact and said subscriber is busy, and when (3) said system is connected to said final selector contact and said subscriber is free, said means including a marking circuit comprising: a voltage source, an arrangement of resistances having three terminals, and three separate voltaic connections connected respectively from said three terminals to said line finder contact, said final selector contact, and said voltage source, the values of said resistances being selected in combination with said means to produce said different identification marking voltages.

2,714,630

**PRIVATE AUTOMATIC BRANCH EXCHANGE**  
Nils Emil Nilsson, Stockholm, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a Swedish company

Application October 22, 1951, Serial No. 252,509  
Claims priority, application Sweden November 16, 1950  
4 Claims. (Cl. 179-27)



1. An automatic branch exchange comprising a plurality of extension lines, a plurality of exchange lines, and means for interconnecting the said extension lines and the said exchange lines, said means comprising line equipment for each of said exchange lines, a first selector for each of the said extension lines, a first register and means connecting said register to a calling one of said extension lines, a marker connected to the said first register and arranged to switch an extension line to an exchange line, a link circuit, a selector arranged to connect said exchange lines to said link circuit upon incoming exchange line call to one of said extensions, a manual operating board having indicating means to advise the attendant thereof of the said connection to the said link circuit, a second register constituting a unit with said link circuit arranged to be set by the attendant and further arranged to connect to the said marker, a connecting circuit completed by said second register between the said link circuit and the said one of said extensions and including the said first selecting device whereby upon response by the said one of said extensions the said second register disconnects the said connecting circuit and connects the said one of said extensions to the line equipment for the said incoming exchange line.

2,714,631

**SWITCHING DEVICE FOR USE IN AUTOMATIC TELEPHONE SYSTEM OR A SIMILAR SYSTEM**

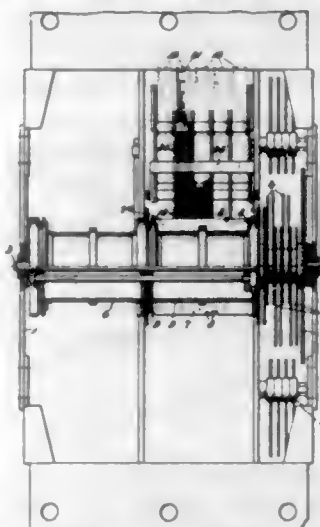
Jacob Marinus Unk, Nicolaas Scheffer, and Reinhard Cornelis Greve, Hilversum, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 29, 1950, Serial No. 198,062  
Claims priority, application Netherlands December 1, 1949

10 Claims. (Cl. 179-27.5)

1. A switching device comprising a carriage movable within a predetermined range of operative positions and having a first portion provided with contact wipers, a contact bank positioned to engage said wipers, said carriage

having a second portion provided with a group of exchangeable keys each having a distinct profile, a row of movable tags cooperatively disposed with respect to the second portion of said carriage and having a predetermined rest position, a selected key in said carriage being arranged in each operative position thereof opposite said row of tags, means to displace said tags in said row from

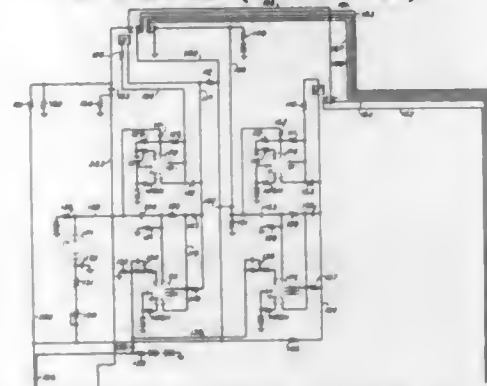


their rest position in a direction tending to contact said selected key to an extent depending on the profile of the selected key whereby at least one of said tags in said row is displaced to a different degree than the remaining tags, a switch operatively associated with each tag in said row, and means linking each switch to the associated tag such that upon displacement of said one of said tags only that switch linked to said one of said tags is actuated.

2,714,632

**RINGING GENERATOR AND INTERRUPTER USING ELECTRON TUBES**

Nathan I. Hall, West Los Angeles, Calif., and Franklin A. Korn, Westfield, and Harold E. Powell, Clifton, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application December 20, 1949, Serial No. 134,108  
31 Claims. (Cl. 179-84)



3. A pulse generating system comprising a first group of conductors, means for selectively and cyclically applying pulses to said first group of conductors on a time basis, a second group of conductors, a plurality of electron discharge devices sequentially and cyclically rendered conductive under the control of said means, and a relay individual to each of said devices and operable in response to conduction in the associated one of said devices, said relays being operable selectively to interconnect said first and said second groups of conductors.

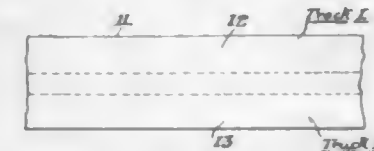
2,714,633

**PERSPECTIVE SOUND SYSTEMS**

Clarence Robert Fine, Tomkins Cove, N. Y., assignor, by mesne assignments, to Perspecta Sound Inc., New York, N. Y., a corporation of New York  
Application October 8, 1953, Serial No. 384,897  
14 Claims. (Cl. 179-100.1)

1. A system for producing perspective sound effects from a recording medium having a single recording track

with a composite signal recorded thereon having an audio intelligence signal component and a plurality of control signal components, the amplitude of said control signal components being at least 18 decibels below that of said audio signal component, said system comprising a single pick-up adapted to derive from said recording medium electrical signals representative of said composite signal and having said audio and control signal components, a plurality of specially segregated sound reproducers, means supplying said audio signal component to all said repro-

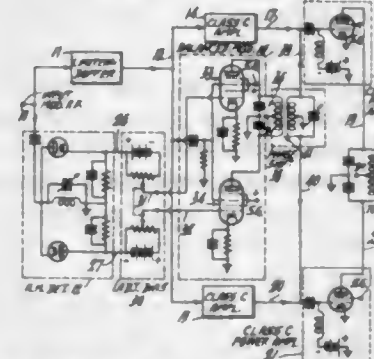


ducers with identical wave forms, means for controlling the output of each of said reproducers in correspondence with a respective control signal whereby perspective sound effects are produced in accordance with said control signals, and for causing said audio signal component to be supplied only to a predetermined number of said reproducers and with an amplitude independent of said control signals in response to a value of a resultant of the levels of said control signal components below a predetermined value, whereby said system is rendered substantially fail-safe.

2,714,634

**MODULATED RADIO FREQUENCY SIGNAL AMPLIFIER**

James R. Hall, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 16, 1954, Serial No. 423,675  
9 Claims. (Cl. 179-171)



1. Means to amplify a modulated radio frequency input signal, comprising, means to separate the signal into its phase component and its amplitude component, two parallel amplifying paths, means to apply said phase component thru said parallel amplifying paths, modulator means coupled to receive said phase component and said amplitude component and having outputs applied to said parallel paths to introduce modulation components in quadrature with said phase components so that the results in said parallel paths appear as differentially phase modulated signals, a common output circuit for said paths arranged so that the phase components from said two paths cancel each other therein, whereby said modulation components are combined in said output circuit to reproduce said input signals in amplified form.

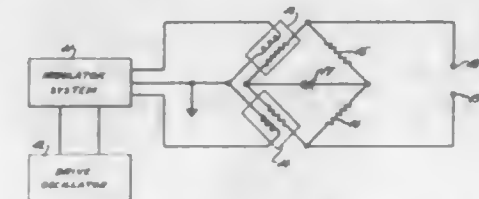
2,714,635

**MODULATOR-THERMAL DEMODULATOR SYSTEM**

Otto H. Schmitt, Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of the Navy  
Application August 7, 1944, Serial No. 548,489  
1 Claim. (Cl. 179-171)

A modulator system having a double ended circuit and providing modulated alternate pulse signals in the two sides of said double ended circuit, the carrier level in

one side rising with modulation while that in the other side is falling, a pair of heater-type thermistors each comprising a heat responsive variable resistance element and a heating element therefor, a Wheatstone bridge having a pair of input terminals and a pair of output terminals, a

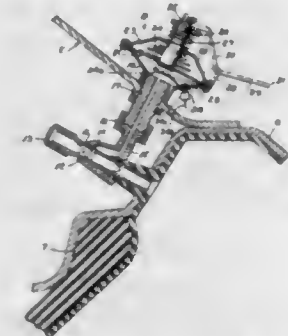


constant potential source connected between said pair of input terminals, each of said variable resistance elements comprising one leg of said Wheatstone bridge, and each of said heater elements being connected in one side respectively, of said double ended circuit.

2,714,636

**TIRE UNDERINFLATION OR OVERINFLATION WARNING SYSTEMS**

Frederick Trinca, Middle Village, N. Y.  
Application March 31, 1952, Serial No. 279,627  
3 Claims. (Cl. 200-61.25)



1. A tire pressure indicator comprising a housing having top and bottom walls, a flexible diaphragm disposed within the housing between said walls and adapted to be acted upon by air pressure in the tire, a reciprocable stem connected at one end to the diaphragm and extending at its opposite end outwardly through the top wall of the housing, an abutment on the outer end of the stem, means for holding the diaphragm and stem in normal position during predetermined pressures within the tire and permitting flexion of the diaphragm and effecting movement of the stem in one direction or the other when the tire pressure rises above or falls below a predetermined pressure, a support on the exterior of the housing, said means comprising a spring disposed between the diaphragm and top wall of the housing and acting on the diaphragm in opposition to the tire pressure and a spring disposed between the abutment and top wall of the housing and supplementing the tire pressure to act therewith in opposition to the pressure of the first named spring, and a bell crank lever pivoted to said support and having an arm pivoted to the outer end of the stem for actuation thereby and an arm positioned when the stem moves in one direction or the other to trip an indicating means.

2,714,637

**ELECTRIC SWITCHES**

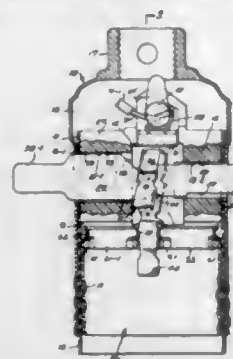
Karl C. Schmocker, White Plains, N. Y., assignor to Belmar Electric Corporation, Tilton, N. H., a corporation of New York

Application October 11, 1952, Serial No. 314,271  
45 Claims. (Cl. 200-68)

1. In an electrical switch arrangement having a mounting structure, an electric contact element on said mounting structure, and an elongated elastically deformable switch member having an inner arm held by said mounting structure and a flexible outer contact arm carried



by said inner arm at an arm spacing from said mounting structure; said switch member being normally biased by its elastic restoring energy to an open position in which the contact arm is out of contact with said contact element; a switch actuating member having shaped, exposed, control surface elements arranged for progressive movement within said arm spacing between a closed position in which said actuating member maintains said contact arm in the closed position in contact with said contact element and an open position in which said contact arm is released



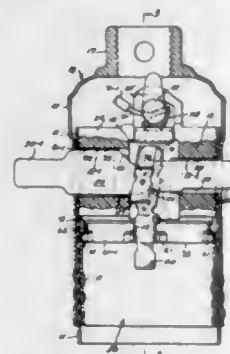
to its open position; certain shaped control surface elements of said actuating member being effective to cause a partial movement of said actuating member from its closed position toward its open position to laterally flex said contact arm while it is maintained in contact with said contact member and certain shaped control surface elements being effective to cause a further movement of said actuating member to the open position to suddenly release restoring energy stored in said switch member and cause the contact arm to be released from contact with said contact member with a snap action.

2,714,638

## ELECTRIC SWITCHES

Karl C. Schmocker, White Plains, N. Y., assignor to Belmar Electric Corporation, Tilton, N. H., a corporation of New York

Application October 11, 1952, Serial No. 314,273  
28 Claims. (Cl. 200—68)



1. In an electrical switch arrangement, a switch assembly comprising a housing having two opposite housing wall portions and two aligned opposite passage openings in said two housing wall portions, a switch structure within said housing having a mounting structure and an elongated elastically deformable metallic switch member held by said mounting structure and movable between an open switch position and a closed switch position, a switch actuating member having two outer portions passing through said two opposite passage openings and an intermediate section having a succession of actuating surface elements arranged for progressive movement through a succession of intermediate positions past and in engagement with a movable part of said switch member between a closed operative position in which said switch member is in the closed switch position and an open operative position in which said switch member is in the open switch position, the intermediate section of said actuating member having a recessed detent portion and said switch member being elastically biased to a locking position in which it tends to maintain locking engagement

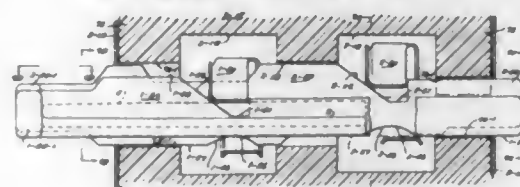
with said recessed portion of said actuating member for restraining it against outward movement through one of said passage openings to the exterior of said housing, said switch structure being held interlocked within said housing by said actuating member and being relatively freely removable from said housing upon withdrawal of said actuating member from said housing through one of said passage openings, said housing and said switch structure having aligned opening portions through which said switch member may be actuated from the exterior of said assembly to a releasing position in which said actuating member is released from said locking engagement and in which said actuating member may be relatively freely withdrawn from said housing through one of said passage openings.

2,714,639

## ELECTRIC SWITCHES

Karl C. Schmocker, White Plains, N. Y., assignor to Belmar Electric Corporation, Tilton, N. H., a corporation of New York

Application October 8, 1953, Serial No. 384,817  
28 Claims. (Cl. 200—69)



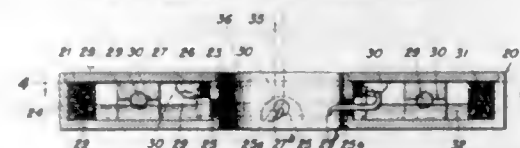
1. In a switch device, a mounting structure, at least two elongated elastically deformable and strip-shaped flexible switch members each having an inner arm held by said mounting structure and an outer contact arm carried by said inner arm at an arm spacing from said mounting structure and movable in a switching direction between a released open position and a closed outer position from which it is returned by its elastic restoring energy to said open position, and movable actuating portions positioned in the arm spacing of the two switch members and having two sets of cam elements each movable transversely to said switching direction through said arm spacing between an open position and a closed position for selectively actuating either one or the other of said two contact arms to either its closed or open positions, certain of said cam elements being effective during partial movement thereof from one to the other of said two positions to laterally flex the actuated contact arm, certain of the moving cam elements being effective during their further movement towards said other position to release the restoring energy stored in the actuated switch member by said lateral flexing for bringing said laterally flexed contact arm with a snap action from said one position towards said other position.

2,714,640

## CENTRIFUGAL SWITCH

Robert G. Ferris, Harvard, Ill., assignor to the United States of America as represented by the Secretary of the Navy

Application September 4, 1944, Serial No. 552,677  
10 Claims. (Cl. 200—80)



1. A switching device comprising a substantially symmetrical metallic casing mounted to rotate about an axis of symmetry, said casing comprising axially opposed portions of conductive material, an annular portion of conductive material surrounding the axial portions and rings of insulating material connecting the said portions, and a quantity of conductive fluid within the casing which will

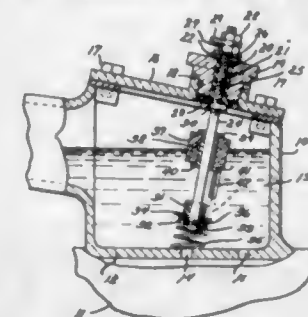
be caused to flow outwardly by centrifugal force upon sufficiently rapid rotation of the casing for uncovering the axial portion of the casing and opening an electric circuit, said conductive fluid being caused by gravitation to flow to overlie said annular portion and at least one of said axial portions when said casing is at rest, for closing said electric circuit regardless of the attitude of said casing.

2,714,641

## BRAKE FLUID INDICATOR

William W. K. Van Nort, Cabin John, Md.; Catherine H. Van Nort, executrix of said William W. K. Van Nort, deceased, assignor, by mesne assignments, to Harry Van Nort, Sebring, Fla.

Application February 16, 1951, Serial No. 211,296  
5 Claims. (Cl. 200—84)



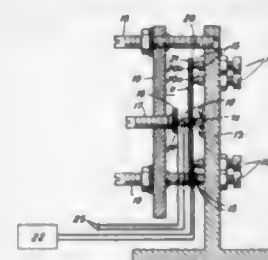
1. An actuating float device responsive to low liquid level comprising a supporting element mounted on a liquid chamber containing liquid and having its upper end portion extending thereabove for connection to a source of electrical energy and its lower end portion disposed in the liquid in the chamber, a float slidably mounted on said supporting element and disposed in the liquid in the chamber, an electric contact on said float and in electrical contact at all times with said supporting element, said electrical contact adapted to have electrical contact with said chamber only when the liquid in the chamber falls below a predetermined level, means disposed below the float for preventing escape of the float from the supporting element, said escape preventing means comprising the electric contact on the float.

2,714,642

## HIGH SPEED RELAY OF ELECTROMECHANICAL TRANSDUCER MATERIAL

Thomas G. Kinsley, Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 10, 1952, Serial No. 298,114  
5 Claims. (Cl. 200—87)



1. A relay comprising a mounting stand, a flexure plate, said flexure plate being adapted to flex and change its curvature upon receiving electrical energy, a first conductive electric contact mounted centrally on said flexure plate, a second similar contact mounted on said stand, flexure motion of said plate causing said first contact to move with respect to said second contact along an axis normal to said flexure plate at the center of said plate, a plurality of mounting springs attaching said plate to said stand, said mounting springs being spaced at substantially equal intervals around the periphery of said plate and defining at their points of support on said plate a plane which changes in size and position as said plate flexes, each of said mounting springs comprising a first

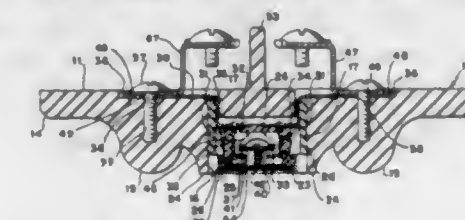
relatively rigid strip portion attached to the face of said flexure plate and lying substantially in the plane of said plate, second and third relatively rigid strip portions, said second portion being integral with and elastically hinged to said first and said third portions, said third portion being attached to said mounting stand, each of said mounting springs having all three strip portions in alignment with a plane including said axis along which said first contact moves, and means to reduce spurious mode vibrations in said flexure plate comprising damping means pressed against one face of said plate near its edge.

2,714,643

## FIRE DETECTING UNIT

Charles W. Mitchell and Samuel S. Aidlin, New York, N. Y.

Application December 27, 1952, Serial No. 328,188  
6 Claims. (Cl. 200—138)



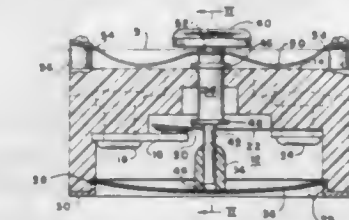
3. A fire detecting unit of the character described comprising a heat responsive switch for an electric circuit including a substantially cup-shaped, non-conducting housing, an L-shaped annular rim secured around the opening of said housing with one leg engaging the side wall of said housing and the other overlying the edge of the opening thereof and a portion of said opening, a bimetallic heat responsive element disposed in said housing opening with its edges supported on said other rim leg, a pair of terminal members within said housing, a bridge for the space between said terminal elements and means for supporting and urging said bridge on and toward said bimetallic element, a base member having an inner face and an outer face, said base member having on its outer face portions thickening in the direction of a central point thereof and terminating short of said central point and forming a recess between their inner ends, a plug having a longitudinally disposed recess therein disposed within said base recess with the opening thereof outwardly facing, said housing seated into said plug recess with its rim overhanging the edges thereof, a conductor element connected to each of said terminal elements, said conductor elements each passing through said plug and through said base to the inner face thereof, and means securing said conductor element to the inner face of the base and thereby securing said plug and said switch to said base.

2,714,644

## THERMOSTAT APPARATUS

John W. Harrison, Meadville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 11, 1953, Serial No. 379,695  
2 Claims. (Cl. 200—138)



1. A manually resettable thermostat comprising a support, a snap-acting bimetal member carried by said support, a pair of mating contacts, means actuated by said bimetal to disengage said contacts in response to change



in temperature, a push rod having an end portion adapted to abut said bimetal member, and an over-center snapping spring member adapted to snap to a position of rest on either one side or the other side of its snap-over center, said spring member being connected to said push rod and to said support, said bimetal member being manually movable by said push rod in one direction and movable in the opposite direction in response to change in temperature to impart to said push rod an initial movement sufficient to move said spring member beyond said snap-over center, said spring member thereby snapping to said other side and imparting additional movement to said push rod, said actuated means being so constructed and arranged as to be movable in said opposite direction independently of said push rod.

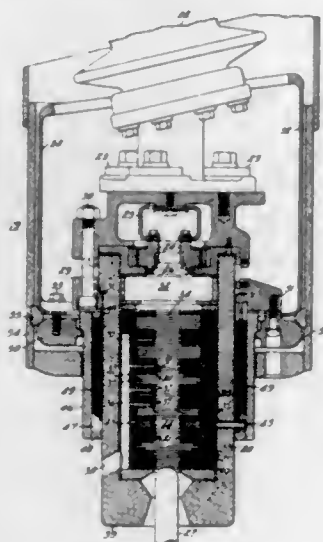
2,714,645

# CIRCUIT BREAKER WITH ELECTRODE DISPOSED BETWEEN TWO ARC INTERRUPTING DEVICES

Erwin Salzer, Brookline, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application March 15, 1951, Serial No. 215,723

10 Claims. (Cl. 200—150)



1. A circuit breaker comprising an arc extinguishing liquid, an arc extinguishing device submerged in said liquid and defining a substantially straight passageway through said device and a substantially helical passageway extending radially from said straight passageway and having an internal diameter equal to the diameter of said straight passageway, a pressure generating chamber arranged adjacent one end of said straight passageway and said helical passageway, relatively movable contact means comprising a first and second contact for initiating arcs within said chamber to produce a substantially helical flow of arc extinguishing liquid through said helical passageway, said second contact being arranged to be moved within said straight passageway and out of said arc extinguishing device, an auxiliary electrode means arranged within said arc extinguishing device between the ends thereof and positioned to be exposed to said substantially helical flow of arc extinguishing liquid, and a resistor conductively connected at one end thereof to said first contact and at the other end thereof to said auxiliary electrode for aiding arc extinguishment.

2,714,646

# INCHING DEVICE FOR SWITCH JAW

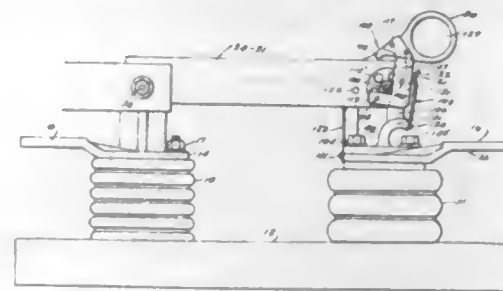
Donald Ray Jamison, Greensburg, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 14, 1953, Serial No. 380,046

4 Claims. (Cl. 200—162)

1. In a switch having a blade, a hinge end and a jaw end; said blade rotatably mounted on said hinge end of said switch; said blade having an engaged and a first, sec-

ond and third disengaged position with respect to said jaw end; a safety device comprising a base member, a resilient member and a latch member; said safety device mounted at said jaw end of said switch; said latch member slidably mounted on said base member; said resilient



member secured to said base member; said resilient member biasing said latch member in a first direction when said blade is in said engaged position; said resilient member biasing said latch member in a second direction when said blade is in said first, second and third disengaged position.

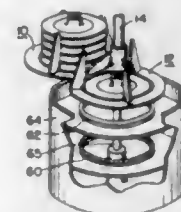
2,714,647

# AUTOMATIC WORK HANDLING APPARATUS

Paul F. Good, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 25, 1951, Serial No. 243,731

16 Claims. (Cl. 219—10.69)



1. In combination, a workpiece dispensing member, a workpiece receiving member, a rotatable support member commonly supporting said workpiece dispensing and workpiece receiving members, and a workpiece carrying spindle adapted to remove workpieces from said workpiece dispensing member and to deliver said workpieces to said receiving member.

2,714,648

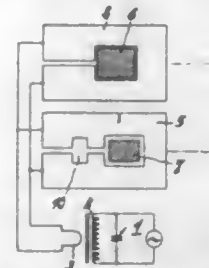
# HIGH FREQUENCY HEATING

Lourens Blok and Dirk Christiaan Van Iperen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 21, 1952, Serial No. 289,052

Claims priority, application Netherlands June 2, 1951

5 Claims. (Cl. 219—10.79)



1. An apparatus for concurrently heating a plurality of workpieces having different areas with high frequency currents comprising a like plurality of inductive elements, supply conductors coupling said inductive elements, said workpieces to be loaded thereby, and means to apply high frequency current in parallel relation through said conductors to said elements, said elements in the unloaded state having different impedance values and in the loaded state, said elements having other impedance values and current flowing through each of said other impedances for substantially the same amount of time thereby heating each of the workpieces to substantially the same tem-

perature, and said supply conductors having a low impedance relative to the impedance of said inductive elements.

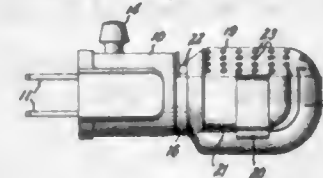
2,714,649

# VAPORIZER

Lyle H. Critzer, Pratt, Kans.

Application November 25, 1952, Serial No. 322,528

1 Claim. (Cl. 219—19)



In a vaporizer device adapted to be plugged into an electrical wall outlet, the combination comprising a body member, a pair of parallel spaced prongs extending outwardly at one end of said body member, a socket arranged at the other end of said body member adapted to receive a light bulb, electrical connections between said prongs and socket, said electrical connections including a switch device, an imperforate cup-like receptacle adapted to receive the vaporizable material, a perforate cover for said receptacle, means securing said receptacle to said body member at the socket end thereof such that the light bulb will be disposed in said receptacle in spaced relation with respect to the latter and with its major axis substantially parallel to the major axis of said receptacle, and securing means comprising a yoke portion on said receptacle having opposed lugs engageable with a transverse peripheral groove in said body member, said cover also including a complementary yoke portion engageable with the groove in said body member, said securing means permitting relative rotation between said receptacle and body member, and means removably connecting said cover to said receptacle.

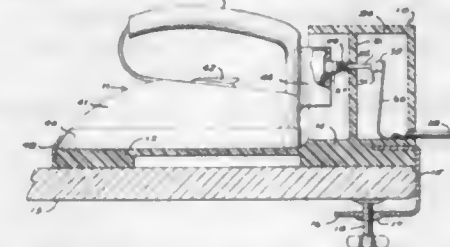
2,714,650

# CORDLESS ELECTRIC IRON

Arthur M. Werner, Tonopah, Nev.

Application February 13, 1953, Serial No. 336,760

2 Claims. (Cl. 219—25)



1. An electric iron assembly comprising a stand including an iron receiving platform, a mounting block at one end of said platform, a housing mounted on said mounting block and having an open end facing said platform and means secured to said mounting block for clamping said stand onto a surface, a partition wall disposed perpendicularly and transversely in said housing, spring biased contacts slidably mounted in said partition wall in spaced relation and urged transversely through said wall toward the open end of said housing, an electric iron removably mounted on said platform and having contacts for engaging one end of the spring biased contacts, upstanding resilient conductors disposed within said housing between said partition and the closed end of said housing and having the lower ends of the conductors connected to a source of electric current, contacts carried by said conductors at their upper ends for engagement with the other ends of said spring biased contacts in said partition wall, the contacts on said iron forcing said one end of the spring biased contacts in a direction away from the open end of said housing to connect the spring biased contacts at said other end to the contacts

2,714,651

# ELECTRICALLY HEATED SOLDERING IRONS

Charles Sydney Richard Wotton, Brentford, England

Application May 21, 1952, Serial No. 289,030

Claims priority, application Great Britain May 25, 1951

3 Claims. (Cl. 219—26)



1. A soldering iron comprising a hollow handle, a metallic tube partly located in said handle and extending therefrom to form the soldering iron shank, a fibre glass sleeve located within said shank, an internally unsupported heating winding loosely located within said sleeve near the free end of said shank, an insulated electrical conductor located within and extending along the shank, an electrical connection between said conductor and one extremity of said winding, an electrical connection between the other extremity of said winding and said shank whereby a heating current may be passed through said winding upon completion of a circuit between said conductor and said shank and a soldering bit formed with a peripheral skirt forming a socket for engagement of said bit over the free end of the shank, said bit being merely a push-on fit on said shank and retained in position without the aid of additional securing means to be heated by said heating winding.

2,714,652

# ILLUMINATED GARDEN ORNAMENT ASSEMBLIES

Harry G. P. Meyer, Milwaukee, Wis.

Application August 18, 1952, Serial No. 305,006

2 Claims. (Cl. 240—10)



2. In a device of the character described, a translucent plastic ornament, a hollow cylindrical base thereon, a socket held snugly within said base having horizontal wire passageways therein, said cylindrical base having apertures registering with said passageways, a cap threadedly engaged on the lower end of said socket, an annular

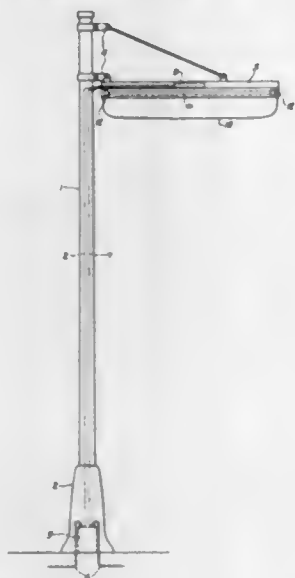


flange on said cap bearing against the lower edge of said cylindrical portion, a laterally open clip subjoined under said cap, a spike for securing the device to the ground, and an eye in the head of said spike engaged within said clip.

2,714,653

## STREET LIGHTING APPARATUS

Eugene Lemmers, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York  
Application August 14, 1952, Serial No. 304,276  
3 Claims. (Cl. 240—25)

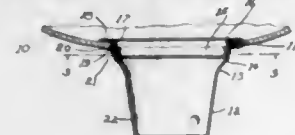


1. Street lighting apparatus comprising a standard and a luminaire supported therefrom, a relatively large volt-ampere capacity transformer located without said luminaire and comprising a magnetic core, a primary winding, and a secondary winding, said transformer being proportioned to produce an open circuit voltage greater than its operating voltage at normal current load, socket means in said luminaire for receiving a plurality of elongated electric discharge devices of the type having two-terminal preheatable electrodes and means connecting said socket means for including said lamps in a series operating circuit, a single pair of conductors joining the ends of said secondary winding to the outer ones of said socket means in said series circuit, and a filament heating transformer mounted in said luminaire and comprising a primary winding connected across said pair of conductors and a plurality of low voltage secondary windings having their ends connected across said socket means for supplying electrode preheating current to the discharge devices.

2,714,654

## TORCHERE FIXTURE

Leslie J. Poglein, Jeannette, Pa., assignor to J. H. Millstein Company, Jeannette, Pa.  
Application November 23, 1951, Serial No. 257,817  
1 Claim. (Cl. 240—128)



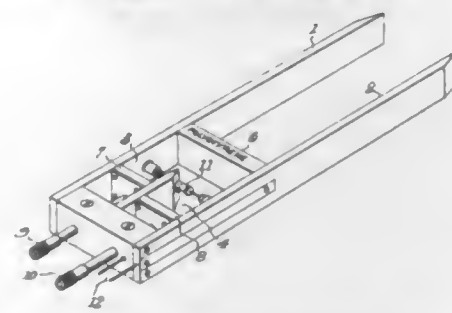
In a torchere, a bowl body having a centrally disposed opening in its bottom, and a tubular sheet metal hub detachably secured thereto, said hub adjacent its upper end being first bent inwardly and then vertically and then outwardly to provide an annular groove at the outer side of the hub, an upward extension above said groove within the bowl opening and spaced from the edge thereof and an outward extension at the upper terminal end of the hub overlying the upper surface of the bowl adjacent the opening therein, a washer at the underside of the bowl aligned with the outward extension that forms the top

wall of the annular groove and a snap ring in said groove for holding the washer engaged with said bowl and the bowl and hub assembled.

2,714,655

## MULTI-FREQUENCY ANTENNA

George B. Hoadley, Raleigh, N. C., and Charles A. Hachemelster, Brooklyn, N. Y., assignors to the United States of America as represented by the Secretary of the Army  
Application April 17, 1953, Serial No. 349,414  
5 Claims. (Cl. 250—10)

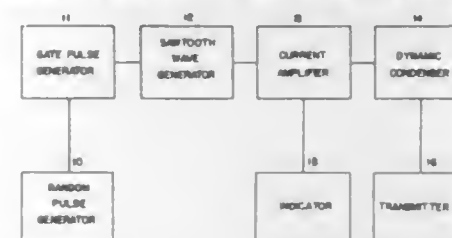


1. A non-reradiating antenna system for operation on two frequencies comprising, a pair of parallel conducting plates, short circuiting means at one end of said parallel plates, a third plate positioned intermediate said pair of plates, one end of said third plate connected to said short circuiting means; a first conducting piston means movably positioned between one of said pair of plates and said third plate, a second conducting piston means movably positioned between said other of said parallel plates and said third plate, wherein said third plate and said pair of plates form a pair of quarter-wave short circuited transmission line elements, means closely adjacent the open ends of said elements for detecting said incoming energy, said means connected across said parallel plates; and a dielectric impedance matching means positioned between said parallel plates at a point intermediate the open end of said pair of lines and said detecting means.

2,714,656

## AUDIO FREQUENCY SWEEP SYSTEM

Thomas W. Hopkinson, Alexandria, Va.  
Application September 18, 1945, Serial No. 617,159  
7 Claims. (Cl. 250—17)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



2. The combination of, a radio frequency transmitter, a random pulse generator, a saw-tooth wave generating means connected to said pulse generator and operative in response thereto, and tuning means connected to said radio frequency transmitter and operative in response to said saw-tooth wave generator for varying the frequency of operation of said transmitter.

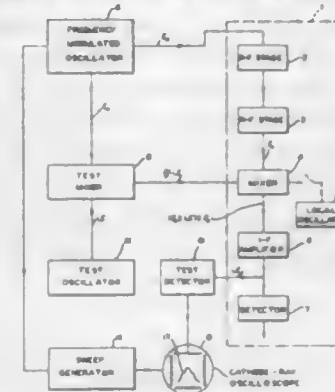
2,714,657

## APPARATUS FOR OBTAINING R-F. RESPONSE CURVES

James H. Stein, Toms River, N. J., assignor to the United States of America as represented by the Secretary of the Navy  
Application September 14, 1945, Serial No. 616,390  
6 Claims. (Cl. 250—20)

1. A system for obtaining the frequency response curve of the radio-frequency stages of a radio receiver having

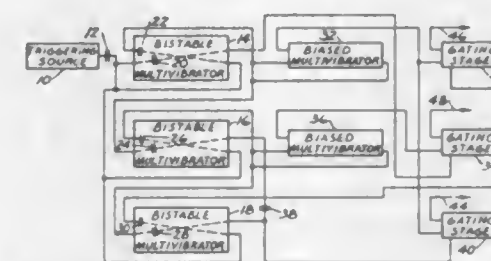
at least a mixer and an intermediate frequency amplifier comprising, a generator of frequency modulated signals, a test oscillator for generating signals at the intermediate frequency of said receiver, a test mixer, means for connecting the outputs of said test oscillator and said generator to said test mixer, an oscilloscope, means connecting said generator to said radio-frequency stages of



said receiver, means for synchronizing the modulation frequency of said generator with the sweep frequency of said oscilloscope, means connecting the output of said test mixer to the mixer of said radio receiver, and a test detector connected for demodulating the output of said intermediate frequency amplifier, said oscilloscope being connected to the output of said detector for indicating the frequency response curve of said radio-frequency stages.

2,714,658  
DECODER

Alexander Greenfield, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware  
Application November 2, 1950, Serial No. 193,735  
10 Claims. (Cl. 250—27)

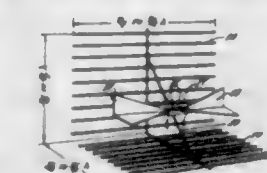


1. In combination, a pulse source for providing a plurality of pulses in a sequence, first, second and third bistable multivibrators each having a pair of input terminals and a pair of output terminals, both input terminals of the first multivibrator being connected to the pulse source, one of the input terminals of the second and third multivibrators being connected to the pulse source, the other input terminal of the second multivibrator being connected to a particular one of the two output terminals of the first multivibrator, the other input terminal of the third multivibrator being connected to a particular one of the two output terminals of the second multivibrator, a first oscillator connected to the particular output terminal of the first multivibrator and responsive to a particular state of equilibrium in the multivibrator to produce signals at particular intervals during the period between the first and second pulses from the source, a second oscillator connected to the particular output terminal of the second multivibrator and responsive to a particular state of equilibrium in the multivibrator to produce signals at particular intervals during the period between the second and third pulses from the source, and first, second and third gating stages connected to a particular one of the oscillators and to a particular output terminal of a particular multivibrator and responsive to a particular

state of equilibrium in the multivibrator to pass in sequence the oscillatory pulses produced between the successive pairs of adjacent pulses in the sequence.

2,714,659

BROAD BAND UNIDIRECTIONAL ANTENNA  
Ernest O'Easten Johnson and Robert Frank Kolar, Hadonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware  
Application July 30, 1951, Serial No. 239,204  
10 Claims. (Cl. 250—33.65)

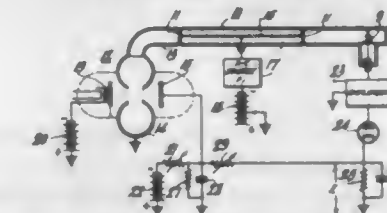


1. A broad band antenna structure comprising a corner reflector and a broad band dipole antenna of biconical sheets folded along the lengthwise axis of said sheets, the adjacent reflector surfaces being respectively substantially parallel to the adjacent folded sheet dipole elements.

2,714,660

## FREQUENCY STABILIZATION METHOD AND SYSTEM EMPLOYING STARK EFFECT

William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application January 31, 1948, Serial No. 5,563  
6 Claims. (Cl. 250—36)

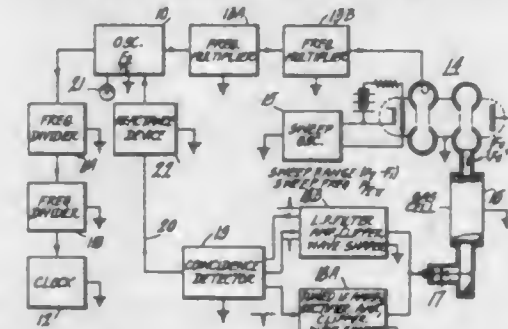


1. The method of stabilizing the frequency of a micro-wave generator which comprises impressing the generated oscillations upon two bodies of gas exhibiting molecular resonance, applying to each of said bodies of gas an alternating potential of lower frequency to shift their molecular resonances through overlapping frequency ranges including the desired frequency of said oscillations and so modulate the oscillator energies respectively passed by said bodies of gas, and demodulating said energies jointly to provide for said oscillator a control voltage varying in sense and magnitude dependent upon the sense and extent of deviation of the frequency of said oscillations from their desired frequency.

2,714,661

## METHODS AND SYSTEMS FOR CONTROLLING THE FREQUENCIES OF GENERATED OSCILLATIONS

Lowell E. Norton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 14, 1950, Serial No. 155,883  
10 Claims. (Cl. 250—36)



1. A system for controlling the carrier-frequency of oscillators which comprises means for amplitude modulat-

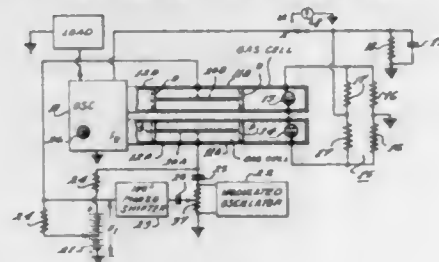


ing the carrier to produce a side-band, means for periodically varying the modulating frequency to sweep a low-frequency range so to effect sweeping of a high-frequency range by said side-band, means for applying the sweeping side-band to a high-frequency standard within said high-frequency range, means for demodulating the side-band energy passed by said standard, the demodulated energy having a sweep-frequency component due to the amplitude-frequency characteristic of the frequency standard element and a modulation-frequency component, means for deriving from the sweep-frequency component a series of pulses each occurring as the side-band passes through said standard frequency, means for deriving from the modulation-frequency component a series of pulses each occurring as the carrier frequency and the side-band frequency differs by a prechosen value, and means for controlling the carrier frequency to maintain a fixed time relation between the corresponding pulses of the two series.

2,714,662

### FREQUENCY STABILIZATION OF MICROWAVE OSCILLATIONS

Lowell E. Norton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application May 29, 1950, Serial No. 164,977  
10 Claims. (Cl. 250-36)

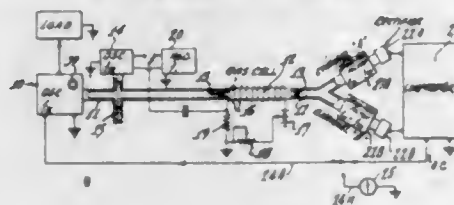


1. A control circuit for use in a system for controlling the frequency of microwave oscillations, said circuit comprising two confined bodies of gas each exhibiting sharp molecular absorption at a frequency displaced from the desired frequency of said oscillations, means for impressing said oscillations on said bodies of gas, means for producing in said bodies of gas direct-current Stark fields which displace the sharp molecular absorptions of said bodies of gas to frequencies respectively higher and lower than said desired frequency of the microwave oscillations, means for producing in said bodies of gas pulsating Stark fields of like frequency and opposite phase repeatedly and in unison to sweep said molecular absorptions from said higher and lower frequencies toward and from said desired frequency, means for demodulating the microwave energies respectively transmitted by said bodies of gas, and means for combining the demodulated energies to produce a signal of sense corresponding with the sense of deviation from said desired frequency of the microwave oscillations.

2,714,663

### STABILIZATION OF MICROWAVE OSCILLATIONS

Lowell E. Norton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application May 29, 1950, Serial No. 164,978  
18 Claims. (Cl. 250-36)



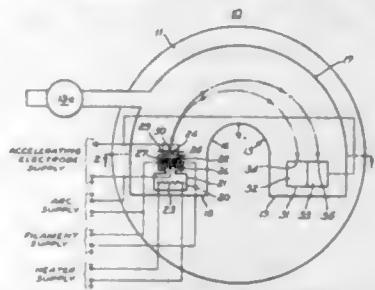
1. A system of producing an error-signal corresponding in sense with deviations of the carrier frequency of microwave oscillations which comprises means for modulating the oscillations to produce a pair of sidebands at fre-

quencies respectively lower and higher than the carrier frequency, means for impressing the modulated oscillations upon gas having a sharp molecular absorption line, means for producing a Zeeman field in said gas to split said absorption line into a pair of absorption lines at frequencies respectively adjacent the sideband frequencies and respectively above and below the desired carrier frequency, means for cyclically sweeping one pair of said pairs over ranges of frequency including the frequencies of the other pair, means for selectively demodulating the microwave energy transmitted by the gas in said ranges of frequency to produce a pair of pulses for each sweep cycle, and means for combining said pulses to produce a frequency-error signal of reversible polarity dependent upon the sense of deviation of said carrier frequency.

2,714,664

### CALUTRONS

Ernest O. Lawrence, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application May 19, 1944, Serial No. 536,401  
9 Claims. (Cl. 250-41.9)

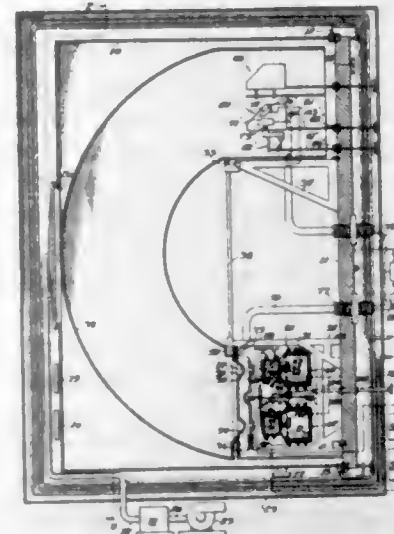


1. A calutron comprising a substantially fluid-tight tank, means for evacuating said tank, means for establishing a magnetic field along a given axis through said tank, means disposed in said tank for generating ions of a polyisotopic material and for projecting therefrom a plurality of separate ion beams along arcuate and intersecting paths substantially transversely of said given axis, whereby the ions of different isotopes of the material in said ion beams are subjected to a segregating influence, and means disposed in said tank for receiving said ion beams and for collecting predetermined portions thereof, the collected portions of said ion beams containing a given isotope of the material.

2,714,665

### ISOTOPE SEPARATING APPARATUS

William C. Tunnell, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
Application June 23, 1945, Serial No. 601,115  
16 Claims. (Cl. 250-41.9)



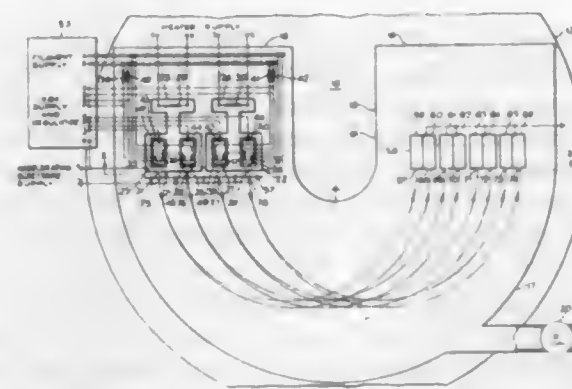
1. In apparatus of the character described, in combination, means forming an ion source, said source compris-

ing a chamber having an elongated opening therein, means comprising an element movable in said opening for removing contaminating material from the defining edges thereof, said last means comprising mechanism for operating said element and movable in a guide slot parallel to said opening, said mechanism comprising a guide member having relatively great extent in the direction of the slot.

2,714,666

### REGULATOR FOR CALUTRON ION SOURCE

Burton F. Miller, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application July 5, 1945, Serial No. 603,399  
14 Claims. (Cl. 250-41.9)

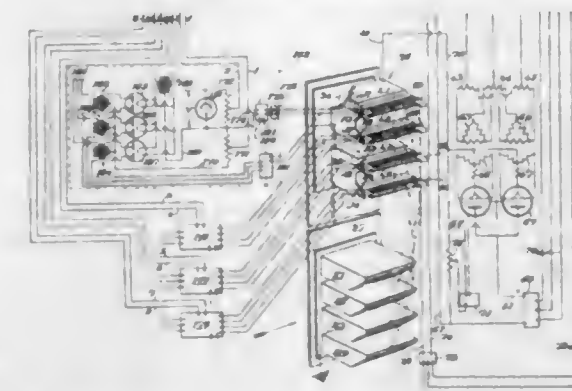


1. A regulator for a calutron ion source comprising in combination an ion source having an anode and a cathode, a resistor connected in series with said cathode, a pair of primary feeders for supplying heating current to said cathode through said resistor, a variable impedance device connected to the common terminal between said resistor and said cathode, a current supply connected in series with said variable impedance device across said cathode, said variable impedance device including control means connected between said anode and cathode and responsive to the current therebetween for controlling the impedance of said variable impedance device to maintain the arc current through said ion source substantially constant.

2,714,667

### CALUTRON OPERATION

James H. Burney, Corpus Christi, Tex., and William H. Appleton, Lafayette, and Robert De Liban and George M. Farly, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission  
Application June 18, 1946, Serial No. 677,482  
46 Claims. (Cl. 250-41.9)



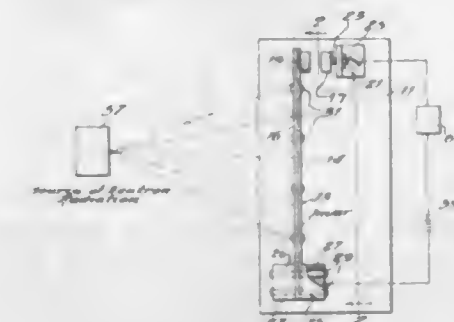
9. In apparatus of the character described, in combination, means forming an ion source of the arc type, an accelerating electrode associated therewith, means for temporarily reducing the arc amperage in response to a predetermined accelerating electrode current, said last means including time-delay apparatus for restoring the arc amperage to normal after a predetermined time delay period, means for maintaining said ion source at

a relatively high potential and means whereby said arc reducing means are also responsive to current flow through said ion source.

2,714,668

### RADIATION RESPONSIVE DEVICE

Walter H. Zinn, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application February 6, 1945, Serial No. 576,412  
13 Claims. (Cl. 250-83)

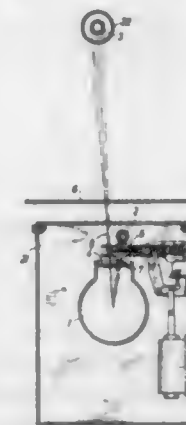


1. A radiation responsive device of the class described comprising a composite member having portions of dissimilar materials which have differing coefficients of thermal expansion and at least one of which has high neutron capture capabilities, said portions being joined together in such manner that the heating resulting from neutron irradiation of said member will effect flexure thereof, and a thermal insulation member interposed between said portions.

2,714,669

### NON-CONTACTING THICKNESS GAUGE

August Theodor Wuppermann, Leverkusen-Schleibusch, Germany, assignor to Exatext Gesellschaft für Meßtechnik mit beschränkter Haftung, Leverkusen, Germany, a firm  
Application August 16, 1951, Serial No. 242,104  
4 Claims. (Cl. 250-83.6)



1. Electronic means for indicating variations from desired thickness of a moving strip of sheet material, said means including a source of radiant energy emitting a beam which passes only through the path of movement of the sheet material, an ionization indicator on the side of said path opposite said source, means for directing a second beam from said source in a second direction, a second ionization indicator for the second beam radiating from said source, a standard measuring plate having a thickness corresponding to the desired sheet material and of the same character, said standard plate being located across the paths of both beams, and being movable into and out of the path of said first beam instead of the sheet material to be measured, when this material is absent, both beams diverging from each other at an acute angle.

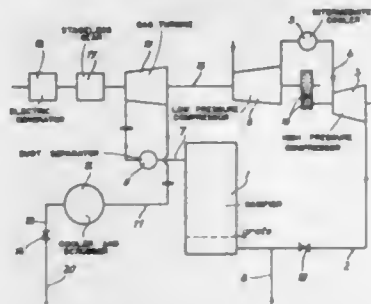


2,714,670

**METHOD FOR THE OPERATION OF PRODUCER PLANTS**

Willy Linder, Essen, and Albert Häberle, Essen-Werden, Germany, assignors, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application March 28, 1951, Serial No. 217,960  
7 Claims. (Cl. 290—2)



1. A method of regulating, in accordance with the load on a gas turbine, the amount of power generated from useful gases by expansion of said useful gases in said gas turbine, said useful gases being produced by the gasification of fuel at increased pressures, said method comprising, gasifying a fuel at increased pressures with compressed air to produce useful gases to drive a gas turbine, utilizing the power developed by said turbine to drive other units, regulating the power developed by said turbine in accordance with the load on said turbine by said other units by regulating the pressure differential of the useful gas across said gas turbine, the excess heat in the useful gases after the turbine due to decreasing said pressure differential being absorbed by means of a cooler.

2,714,671

**ELECTRIFIED RAILWAY-SYSTEMS WITH FILTERED BOOSTER-TRANSFORMERS**

Lloyd J. Hibbard, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 26, 1953, Serial No. 338,981  
12 Claims. (Cl. 307—90)

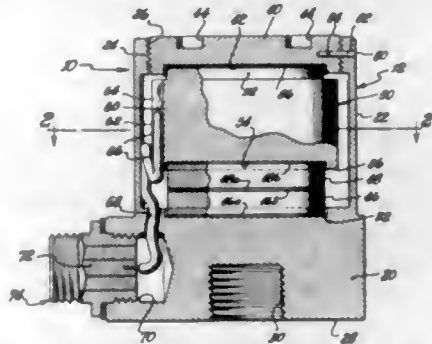


1. In an electrified railway-system including tracks which serve jointly as vehicle-supporting means and also, at least in part, as ground-return means, an insulated supported bare single-phase power-supply line disposed in a position suitable for supplying single-phase power to one or more electrically propelled vehicles riding on said tracks, and an inductively coupled communications-line adjacent to said power-supply line; the combination including one or more booster-transformers, each having a primary winding and a secondary winding electrically insulated from each other, a means for electrically connecting the primary winding of said booster-transformer in series-circuit relation with respect to said power-supply line, a means for providing a fixed return-circuit serially including the secondary winding of said booster-transformer, said fixed return-circuit being so located that the inductive effects of the currents carried by said fixed return-circuit materially cancel out the inductive effects of the corresponding currents carried by said power-supply line, with respect to inductive effects in said communications-line, and a shunt-connected filter-means for materially excluding at least the fundamental frequency of the power-supply line from at least one of the windings of said booster-transformer.

2,714,672

**ACCELEROMETER**

Harry Dudley Wright, Altadena, and Eric G. Laue, San Gabriel, Calif.; said Laue assignor to said Wright  
Application August 30, 1952, Serial No. 307,314  
6 Claims. (Cl. 310—8.4)



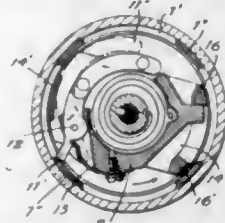
1. A measuring instrument comprising: a case having a compliant cylindrical sidewall and having a stiff base member and a stiff cap member at opposite ends thereof, said base member having a recess in the inner wall thereof; a body of electrosensitive material compressed between said base member and said cap member by tension of said cylindrical member, said body of material having an electrical characteristic which varies in accordance with the compression thereof; an inertial member coupled to said cap member for varying the compression of said body in response to acceleration of said base member; and means including a pair of conductors connected to mutually spaced points of said body of material for detecting changes in such electrical characteristic.

2,714,673

**DRIVE ARRANGEMENT FOR MAGNETOS AND THE LIKE**

Albin Buchmann, Soleure, Switzerland, assignor to Scintilla Ltd., Soleure, Switzerland

Application January 21, 1953, Serial No. 332,291  
Claims priority, application Switzerland  
September 11, 1952  
2 Claims. (Cl. 310—84)



1. Drive arrangement for magnetos and the like comprising, in combination, a housing adapted to be mounted on an internal combustion engine; a drive shaft turnably mounted for rotation about its axis in said housing and extending vertically when said housing is mounted on the internal combustion engine, said drive shaft having a top free end portion; a rotor turnably mounted on said top free end portion of said drive shaft for free rotation with respect thereto; a first spring interconnecting said rotor and drive shaft for rotation together; limiting means operatively connected to said rotor and drive shaft for limiting the rotation thereof with respect to each other to maintain a predetermined residual tension in said first spring; a plurality of stop members mounted on said housing about said axis of said drive shaft; a pawl member turnably carried by said rotor for rotation with respect to the same; a second spring connected to said pawl member for urging the same into engagement with one of said stop members to thereby stop the rotation of said rotor so that the continued rotation of said drive shaft tensions said first spring; a weight connected to said pawl member for urging the latter by centrifugal force against the action of said second spring away from one of said stop members and toward said drive shaft axis, so that said pawl member engages said one of

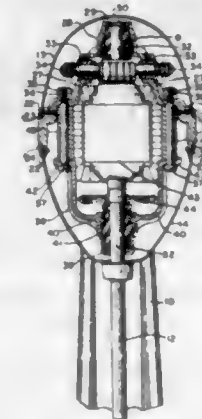
of said stop members only when said drive shaft rotates below a predetermined speed; and release means connected to said drive shaft for rotation therewith for releasing said pawl member successively from said stop members so that said rotor is intermittently rotated at an accelerating rate when said drive shaft turns below said predetermined speed.

2,714,674

**MOTOR DRIVEN DRINK MIXERS**

Arthur W. Seyfried, Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application January 14, 1953, Serial No. 331,133  
6 Claims. (Cl. 310—91)



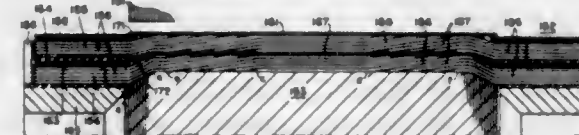
2. A motor driven drink mixer comprising a base, a standard rising from the base, a motor having a vertically disposed shaft spaced laterally from the standard, said motor comprising a collar which surrounds the sides and front of the motor, upper and lower housing members connected to opposite annular edges of the collar, a pair of brackets irregularly U-shaped in vertical section and inverted with respect to each other, one of said brackets being integral with the collar, the other bracket being detachably connected to said integral bracket, opposite upper and lower portions of said bracket forming bearings for the motor shaft, an integrally formed curved arm, said integral arm having a substantially horizontal portion which merges integrally with the collar and a downturned hollow portion seated on the upper end of the standard, and means within the curved arm and said standard connecting them together.

2,714,675

**TRANPOSED ROTOR WINDING**

John F. Heldbreder, Irwin, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 30, 1954, Serial No. 419,808  
4 Claims. (Cl. 310—213)



1. A wound-rotor induction-motor having a stator and a rotor, said rotor having a rotor-core having winding-receiving slots, said rotor also having a secondary winding having coil-side portions lying in said slots, and having end-winding portions extending beyond said rotor-core, said rotor still further having slot-wedges for retaining the coil-sides in said slots, and having banding around the end-winding portions for restraining the same against centrifugal force, characterized by each slot, for all of its length except close to its ends, having a radial depth which is sufficient only for its coil-sides, its wedge, and the necessary insulation, each slot becoming deeper at each end to provide radial room for the end-winding banding to come close to the end of the rotor-core, each

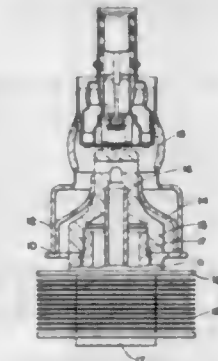
coil-side being bent down at the places where said slots become deeper, and said rotor having shaped fillers over the downwardly bent ends of the respective coil-sides to restrain said ends against centrifugal force.

2,714,676

**ELECTRON TUBE RIGIDIZING MEANS**

Raymond R. Machlett, New Canaan, and Joseph Leferson, Springdale, Conn., assignors to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut

Application December 6, 1950, Serial No. 199,438  
3 Claims. (Cl. 313—40)



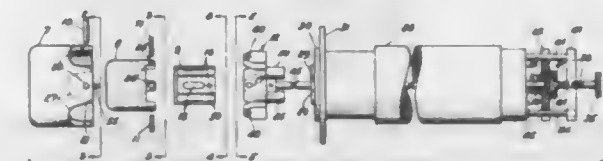
2. An electrode assembly comprising a hollow tubular electrode and supporting means therefor, connecting means securing together said electrode and supporting means and including a housing member and a shell member secured together at one end, the shell member at its other end being secured to the electrode, and the housing member at its other end being secured to the supporting means, an annular planar member bearing against the end of the connecting means and the electrode, and cylindrical means connecting the electrode with and bearing radially against the planar member.

2,714,677

**COMPENSATED ION CHAMBER**

Stephen M. MacNellie, Fairport, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application March 31, 1950, Serial No. 153,249  
8 Claims. (Cl. 313—61)



1. A compensated ion chamber comprising an inner, an outer and an intermediate electrode defining adjacent ionization chambers, said inner and said intermediate electrode being disposed within said outer electrode, means for adjusting the position of one electrode for changing the volume of one of said chambers, and a neutron sensitive coating on the walls of one of said chambers.

2,714,678

**ELECTRON MICROSCOPES**

Otto Wolff, Berlin-Frohnau, Germany, assignor to Siemens & Halske Aktiengesellschaft, Munich, Germany, a corporation of Germany

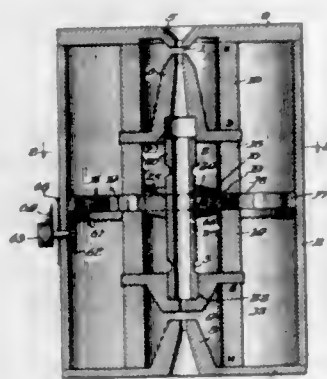
Application August 29, 1951, Serial No. 244,195  
15 Claims. (Cl. 313—84)

13. An electron microscope having means forming four serially related image-forming lenses, said means comprising first and second pole shoe members forming respectively an objective and a projective lens and a single axially movable pole shoe member forming two inter-



mediate lenses, magnet means for exciting said lenses, and operating means for axially moving said single pole shoe

halogen, an ionizable gaseous medium within said envelope containing a halogen gas, and a coating compris-



member relative to said first and second pole shoe members to regulate the adjustment of the magnification of the image formed by said lenses.

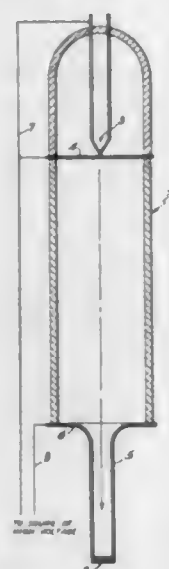
2,714,679

# **HIGH VOLTAGE APPARATUS FOR GENERATING A SUBSTANTIALLY WELL-COLLIMATED BEAM OF CHARGED PARTICLES**

Robert J. Van de Graaff, Belmont, and William W. Buechner, Arlington, Mass., assignors to High Voltage Engineering Corporation, Cambridge, Mass., a corporation of Massachusetts

Application July 3, 1952, Serial No. 297,036

1 Claim. (Cl. 313-85)



High-voltage apparatus for generating a substantially well-collimated beam of charged particles, comprising a high-voltage high-vacuum acceleration tube having at one end portion a charged-particle source including means for injecting charged particles into said tube along the longitudinal axis thereof, and at the other end portion a member to which said charged particles are to be delivered as a substantially well-collimated beam, the lateral wall of the said tube from end to end consisting entirely of a semiconductor, the resistivity and cross-sectional area of said lateral wall being substantially constant throughout the length thereof.

2,714,680

# **RADIATION COUNTER TUBE**

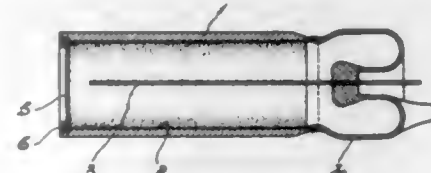
Nicolaas Warmoltz and Gerhart Wolfgang Rathenau, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 13, 1951, Serial No. 231,302

Claims priority, application Netherlands June 23, 1950

6 Claims. (Cl. 313-93)

1. A radiation counter tube comprising an envelope, a pair of electrodes within said envelope, each of said electrodes having a metal surface portion which absorbs a



ing chromium sesquioxide over a major portion of the metal surfaces of said electrodes.

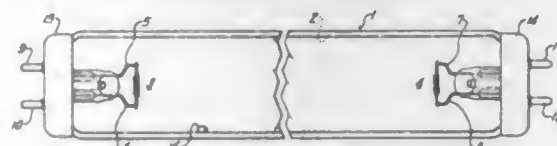
2,714,681

# **ELECTRIC DISCHARGE DEVICE**

Raymond L. Keiffer, Chagrin Falls, and George E. Inman, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York

Application August 27, 1948, Serial No. 46,506

1 Claim. (Cl. 313-109)



A fluorescent lamp of the low pressure type comprising an enclosing envelope, a fluorescent material on the inside surface of said envelope, a pair of electrodes within said envelope and at least one of which is a coiled filamentary cathode activated with alkaline earth oxides, and an ionizable medium comprising mercury vapor and a gaseous atmosphere for providing graded excitation and ionization potentials and consisting of argon, krypton and xenon at substantially equal partial pressures and at a total pressure of approximately 3.5 mm. in order to minimize the production of high frequency radiation incident to the increase and decrease of cathode discharge current.

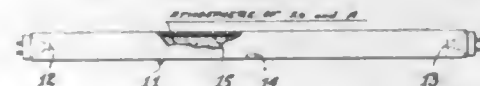
2,714,682

# **LOW PRESSURE FLUORESCENT AND DISCHARGE LAMPS**

George Meister, Newark, and Thomas H. Heine, Cedar Grove, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 27, 1952, Serial No. 296,042

2 Claims. (Cl. 313-109)



1. A fluorescent lamp comprising an elongated phosphor-coated translucent vitreous envelope, an electrode in each end portion of said envelope, and a contained mixture of about 20% xenon and 80% argon admixed with mercury vapor and at a pressure between 1 and 4 mm. of mercury so that the quantity of light produced, and efficiency of light generation is approximately at a maximum.

2,714,683

# **ELECTROLUMINESCENT BULB**

Henry G. Jenkins, Pinner, England, assignor to General Electric Company, a corporation of New York

Application December 2, 1952, Serial No. 323,588

Claims priority, application Great Britain

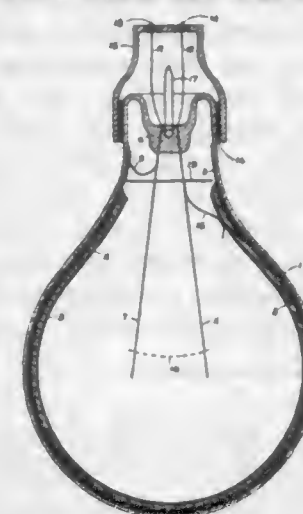
December 19, 1951

5 Claims. (Cl. 313-109)

1. An electroluminescent lamp comprising a transparent bulb sealed free of moisture and having a conductive inside surface, a layer containing an electroluminescent material formed over said conductive surface, a conduc-

tive layer formed over said electroluminescent material layer, and lead wires sealed into said bulb and connected,

of 500 watts, the combination comprising an enclosing envelope of light-transmissive material, a pair of electrodes defining therebetween an arc gap having a length



one to said conductive surface and the other to said conductive layer.

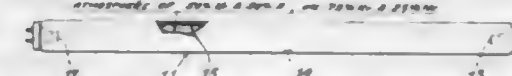
2,714,684

# **LOW PRESSURE FLUORESCENT AND DISCHARGE LAMPS**

George Meister, Newark, and Thomas H. Heine, Montclair, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1949, Serial No. 102,016

3 Claims. (Cl. 313-112)



1. A discharge lamp comprising an elongated translucent vitreous envelope, an electrode in each end portion of said envelope, and a contained mixture of krypton and argon admixed with mercury vapor, the proportion of the krypton being between 45% and 55%, and that of the argon being between 55% and 45% of the gas mixture.

2,714,685

# **LOW PRESSURE FLUORESCENT AND DISCHARGE LAMPS**

George Meister, Newark, and Thomas H. Heine, Cedar Grove, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 25, 1951, Serial No. 243,612

4 Claims. (Cl. 313-185)



1. A discharge lamp comprising a translucent vitreous envelope, a pair of electrodes in said envelope, and a contained mixture of xenon and krypton at a pressure between  $\frac{3}{4}$  and  $1\frac{1}{2}$  mm. of mercury, admixed with mercury vapor, the proportion of the xenon being between 70% and 80%, and that of the krypton being between 30% and 20% of the gas mixture.

2,714,686

# **HIGH PRESSURE MERCURY VAPOR ELECTRIC DISCHARGE LAMPS**

George Glynn Isaacs, Kenton, and Evan Herbert Nelson, Harrow Weald, England, assignors to General Electric Company, a corporation of New York

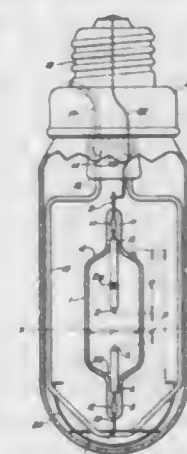
Original application November 25, 1947, Serial No. 787,982, now Patent No. 2,545,884, dated March 20, 1951. Divided and this application August 2, 1950, Serial No. 177,252

Claims priority, application Great Britain

January 18, 1946

5 Claims. (Cl. 313-214)

1. In a high pressure mercury vapor electric discharge lamp of the short-gap type for operation at a power input



lying within the range of 0.8 to 2.5 cm., inclusive, and operable at a voltage of not less than 30 volts per centimeter of arc length at a luminous efficiency of at least 60 lumens per watt.

2,714,687

# **HIGH PRESSURE MERCURY VAPOR ELECTRIC DISCHARGE LAMPS**

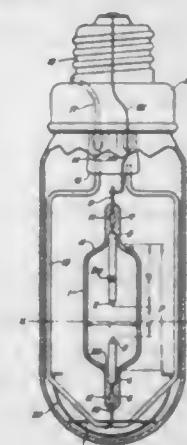
George Glynn Isaacs, Kenton, and Evan Herbert Nelson, Harrow Weald, England, assignors to General Electric Company, a corporation of New York

Original application August 2, 1950, Serial No. 177,252. Divided and this application January 22, 1952, Serial No. 267,528

Claims priority, application Great Britain

January 18, 1946

2 Claims. (Cl. 313-214)



1. In a high pressure mercury vapor electric discharge lamp of the short-gap type for operation at a power input of 10,000 watts, the combination comprising an enclosing envelope of light-transmissive material, a pair of electrodes defining therebetween an arc gap having a length lying within the range from 2.2 centimeters to 8.0 centimeters, inclusive, and operable at a voltage of not less than 30 volts per centimeter of arc length at a luminous efficiency of at least 60 lumens per watt.

2,714,688

# **IMAGE-REPRODUCING DEVICE**

William O. Reed, Chicago, Ill., assignor to The Rauland Corporation, a corporation of Illinois

Application October 31, 1952, Serial No. 317,867

6 Claims. (Cl. 315-13)

1. An image-reproducing device for use in a color television system comprising: an evacuated envelope having a predetermined longitudinal axis; means for producing a plurality of electron beams each initially transversely spaced from said axis; a plurality of target areas disposed in longitudinally spaced parallel planes transversely disposed with respect to said axis and respectively coated



with luminescent phosphors exhibiting different color radiation characteristics in response to electron bombardment; focusing means intermediate said electron-beam-producing means and said target areas for impressing a common focusing field on all of said electron beams to converge said beams at a common point and responsive to an applied color-control signal for varying the focal length of said focusing field and longitudinally shifting said point of convergence of said beams between the respective planes of said target areas; and means for synchronously controlling the intensity of said beams in response to a single applied video signal.



6. An image-reproducing device for use in a color television system comprising: an evacuated envelope having a predetermined longitudinal axis; an electron gun including a cathode having an annular electron emissive surface for projecting a hollow cylindrical electron beam along said axis; a plurality of target areas disposed in longitudinally spaced parallel planes transversely disposed with respect to said axis and respectively coated with luminescent phosphors exhibiting different color radiation characteristics in response to electron bombardment; focusing means intermediate said electron-beam-producing means and said target areas for impressing a common focusing field on all portions of said hollow cylindrical electron beam to converge said beam at a common point and responsive to an applied color-control signal for varying the focal length of said focusing field and longitudinally shifting said point of convergence of said beam between the respective planes of said target areas; and a control electrode included in said electron gun and including an annular aperture similar to said electron emissive surface for controlling the intensity of said beam in response to an applied video signal.

2,714,689

## ILLUMINATING SYSTEM

Philippe Waguet, Paris, France, assignor to General Electric Company, a corporation of New York  
Application May 17, 1949, Serial No. 93,681  
Claims priority, application France June 15, 1948  
9 Claims. (Cl. 315-92)



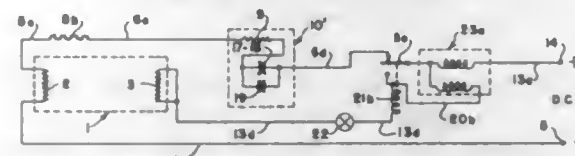
5. In combination, a plurality of electric discharge devices each comprising an envelope containing a gaseous ionizable medium and a pair of cooperating electrodes sealed therein, at least one of said electrodes being of the filamentary thermionic type and adapted to be heated by the passage of current therethrough prior to the starting of the device, a ballast impedance, means connecting said devices and said impedance in a series circuit, an incandescent lamp connected in a shunt circuit across each device and in series with its filamentary electrode, and a thermal starting switch for each of said devices, each of said switches comprising means including a heat-deformable contact strip contained in a sealed envelope and normally making the shunt circuit, means including a heating resistor serially connected into said series circuit

causing actuation of said deformable strip to break the shunt circuit upon the energization of said series circuit in order to start the associated device, said switches having slight variations in their respective characteristics whereby to operate sequentially, and means in each switch permanently modifying the shunt circuit in the event of failure of the associated discharge device to conduct current, thereby to prevent blinking of the other discharge devices, said last-named means including a gaseous ionizable medium sealed into the switch envelope and capable of supporting a discharge for heating said strip and causing the actuation thereof.

2,714,690

## STARTING AND OPERATING CIRCUITS FOR FLUORESCENT LAMPS

William S. H. Hamilton, Larchmont, N. Y.  
Application June 30, 1950, Serial No. 171,495  
4 Claims. (Cl. 315-103)

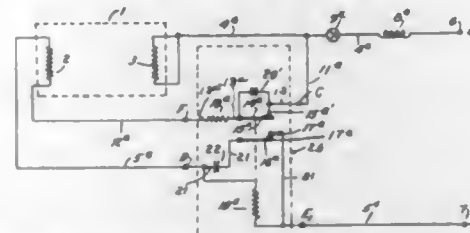


1. In combination, a gaseous electric discharge device having two electrodes, at least one of which is constructed to receive preheating current, a supply circuit, a relay comprising a double-throw switch having normally closed and normally open contacts and an operating coil, a transformer having primary and secondary windings, means including said primary and secondary windings and said operating coil in series connection for connecting said electrodes to said supply circuit, a delay device having an operating circuit and normally closed contacts, an electrode preheating circuit capable of producing firing temperature electrode heating, said circuit extending from one side of a voltage source to the opposite side of said source and including in series connection said electrode to be preheated, said primary winding, said normally closed relay switch contacts, said delay device operating circuit and said delay device contacts, the opening of said delay device contacts causing the discharge device to fire by an inductive voltage surge including the voltage produced by said secondary winding, the operating current of the discharge device causing operation of said relay thereby closing said normally open contacts so as to short circuit the transformer secondary, and opening said normally closed contacts so as to interrupt the preheating circuit and maintain said circuit open during the operation of the discharge device.

2,714,691

## STARTING AND OPERATING CIRCUITS FOR FLUORESCENT LAMPS

William S. H. Hamilton, Larchmont, N. Y.  
Original application February 15, 1950, Serial No. 144,345. Divided and this application November 28, 1952, Serial No. 322,872  
3 Claims. (Cl. 315-103)



1. In a system for supplying preheating and operating current to an electric discharge device having at least one filamentary electrode, an electromagnetic switch comprising two normally closed contact means and an operating winding, a thermal switch comprising normally

closed contacts and an operating heater, means including an inductance ballast and said winding for connecting said electrodes with a source of current supply, a preheating circuit capable of producing firing temperature electrode heating connected across said device, said circuit including in series connection the electrode which is to be preheated, the first of said contact means, the said heater and the winding of said electromagnetic switch, and a circuit in shunt around said winding and including in series connection said thermal switch and the second of said contact means so that when said thermal switch opens it introduces said winding into the said preheating circuit causing operation of said electromagnetic switch, the opening of the first contacts thereof breaking the preheating circuit rapidly and causing the discharge device to fire by an induced voltage produced by said ballast and maintaining the preheating circuit open and the heater of said thermal switch cut off during the operation of the discharge device.

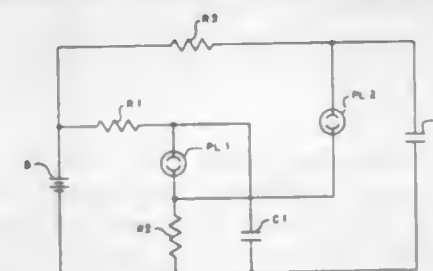
2,714,692

## PORTABLE ELECTRONIC IDENTIFICATION LIGHT

Warren D. Nupp, Orelana, and Jack M. Rosen,  
Levittown, Pa.

Application May 21, 1954, Serial No. 431,622  
7 Claims. (Cl. 315-232)

(Granted under Title 35, U. S. Code (1952), sec. 266)

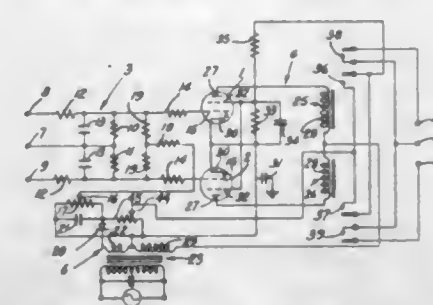


1. In a portable electronic identification light, an electrical circuit comprising a first path including a voltage source, a resistor of relatively low resistance connected to a first terminal of the voltage source, a gas-discharge tube having a relatively high firing point, a resistor of intermediate value connected to a second terminal of the voltage source, a capacitor of relatively high capacitance being disposed in parallel with said low value resistor and said high firing point gas-discharge tube, a second path including said voltage source, a capacitor of relatively low capacitance connected to the first terminal of the voltage source, a resistor of relatively high value connected to the second terminal of said voltage source, a gas-discharge tube of relatively low firing voltage being connected at one end at a point between said low value resistor and said high firing point gas-discharge tube and being connected at the other end at a point between said low value capacitor and said high value resistor.

2,714,693

## ELECTRIC SERVO CONTROL CIRCUIT

Christiaan J. Van Eyk, Byram, Conn.  
Application August 4, 1953, Serial No. 372,256  
6 Claims. (Cl. 317-137)



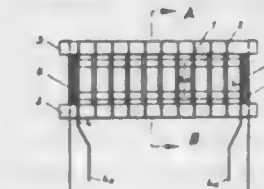
4. In an electrical control system the combination of a plurality of gaseous electric discharge devices, each

having at least a plate, a shield grid, a control grid and a cathode, an input circuit comprising a pair of parallel resistors coupled between the two control grids, said cathodes connected together and to one of said resistors intermediate its ends, an input terminal connected to each of the ends of said parallel resistors, a third input terminal connected to the other of said resistors intermediate its ends, a source of direct current potential connected at its negative side to said control grid and at its opposite side to said cathodes, means to apply an alternating current potential between the plate and cathode of each of said discharge devices, a pair of alternating current relays, each having its coil connected in series with one of the plate alternating potential leads, two pairs of normally open contacts on each relay operated by the relay coil, one of each of said pairs of contacts adapted for connection into an external circuit, means for connecting said shield grids to each other and to a source of direct current negative potential through a control resistor and through said second pairs of relay contacts in parallel, a charging condenser connected between said shield grid and said cathode and a discharge resistor connected across said condenser.

2,714,694

## RECTIFIER STACK

Horst Drubig, Heidelberg, Josef Eisele, Altenfurth, and Georg J. Strattner, Nurnberg, Germany, and Günter Parow, Aldershot, Ontario, Canada, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware  
Application February 20, 1952, Serial No. 272,676  
9 Claims. (Cl. 317-234)

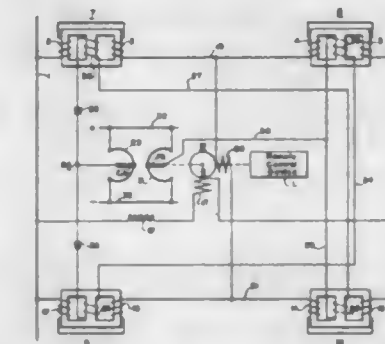


1. A rectifier stack comprising a plurality of imperforate rectifying plates arranged in a stack, a pair of frame members arranged over opposite ends of the plates, and means holding said frames together including a pair of terminal plates, said frames having slots therein at the ends thereof and means securing said terminal plates in said slots.

2,714,695

## SATURABLE REACTOR MOTOR CONTROL SYSTEM

Walter Schaelchlin, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application September 22, 1951, Serial No. 247,813  
3 Claims. (Cl. 318-29)



3. In a control for a split-phase alternating-current motor having a pair of field windings, the combination of, four saturable reactors each having a primary winding and a secondary winding, an alternating-current bridge circuit having input terminals and output terminals and including the secondary windings in four separate legs of the bridge circuit, two circuit means con-

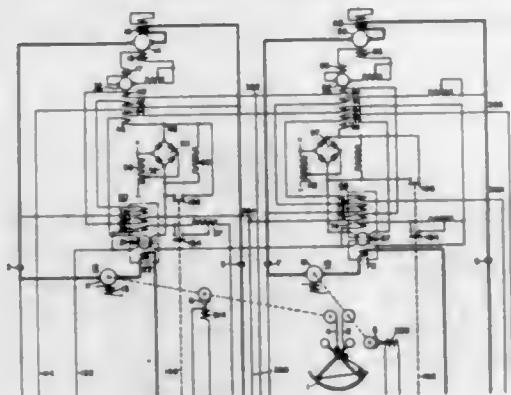


necting in series circuits the primary windings associated with each of the diagonally disposed legs of the bridge circuit, a rectifier connected in series with each series-connected pair of primary windings, second circuit means connecting the series circuits in parallel circuit relation, the rectifiers being oppositely poled in the series circuits, circuit terminals for applying reversible direct current across the parallel circuit, one of said field windings being connected to said input terminals and the other of said field windings being connected to said output terminals.

2,714,696

### LOAD DIVISION APPARATUS FOR PLURAL ELECTRIC MOTOR SYSTEMS

Gerald E. Mathias, Williamsville, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application September 30, 1952, Serial No. 312,289  
16 Claims. (Cl. 318-99)

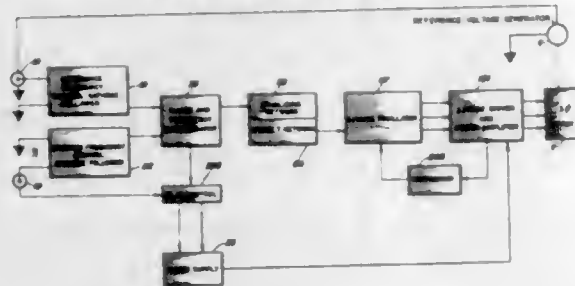


9. A control system for an electric drive motor comprising a main generator for the drive motor and circuit means connecting the generator to the motor, excitation means for the main generator, amplifying means for said excitation means, a multiple position switch, a first excitation control means for said amplifying means connected to be controlled by said multiple position switch, a second excitation control means connected to be responsive to a first condition of the motor and comprising impedance means, means connecting said impedance means with said multiple position switch for varying the impedance of said impedance means in response to the position of said multiple position switch, and a control system for a second drive motor comprising, corresponding elements, components, and connections as recited for the first drive motor, and a conductor common to both of the two individual motor generator loops.

2,714,697

### 3-PHASE, RC, VARIABLE VOLTAGE, VARIABLE FREQUENCY OSCILLATOR FOR ELECTRIC MOTOR

Donald C. Small, Hyattsville, Md., assignor to the United States of America as represented by the Secretary of the Navy  
Application April 2, 1953, Serial No. 346,411  
5 Claims. (Cl. 318-231)



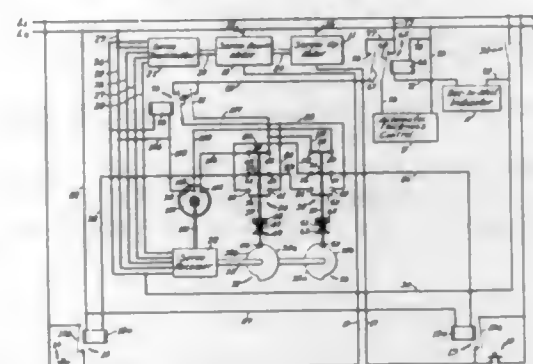
1. A multi-phase, R-C, variable voltage, variable frequency oscillator for use as a control arrangement, comprising, means for generating a reference frequency, means for generating a standard frequency, means for

discriminating between said frequencies, means connected to said discriminating means for stabilizing the signal received from said discriminating means, an oscillator means connected to said stabilizing means and including a plurality of dual triodes arranged in a "ring" circuit, said stabilizing means including a bridge-T circuit to attenuate the undesirable voltage frequency appearing between said frequency discriminating means and oscillator means, and means for amplifying the signals received from said oscillator means, thereby providing a constant frequency source which can be used as a control arrangement.

2,714,698

### MOTOR OPERATED RESET CONTROL APPARATUS

John E. Coolidge, Waterbury, and Howard Francis Anderson, Torrington, Conn., assignors to The American Brass Company, a corporation of Connecticut  
Application August 5, 1950, Serial No. 177,848  
7 Claims. (Cl. 318-265)



1. Electric control apparatus for resetting a pair of spaced members to a predetermined spaced setting with respect to each other after they have participated in an operation during which they have been relatively moved from said setting, which comprises electric motor means coupled to at least one of said members so as to provide relative movement of the members to change the spacing therebetween, position-responsive transmitting and receiving means adapted to register the net movement of the motor means in either direction during said operation, said transmitting means being coupled to and driven by said motor means, an electric power source, connections from said position-responsive means to the power source, electric circuit means including switching devices operable to connect said motor means to said power source, timing mechanism disposed to operate said switching devices, said timing mechanism being coupled to and operative selectively in response to movement of said position-responsive receiving means in either of two directions, and adjusting means adapted to set said position-responsive means to register zero net operation for the motor means when said members are at their predetermined normal relative spacing.

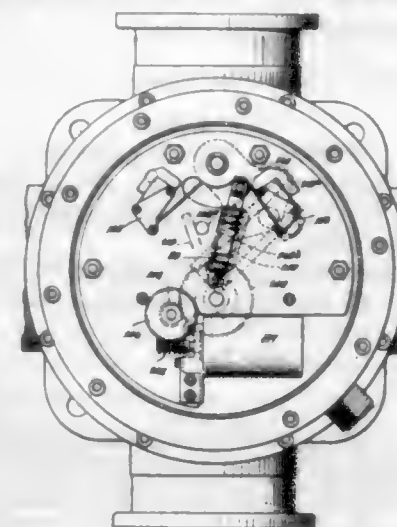
2,714,699

### MOTOR OPERATED TWO-STATION ANGULAR-MOVEMENT ACTUATOR

Charles E. Bleber, Elizabeth, and Robert S. Carr, Summit, N. J., assignors to Altrion, Inc., Linden, N. J., a corporation of New Jersey  
Application August 17, 1954, Serial No. 450,467  
7 Claims. (Cl. 318-467)

1. A two-station, angular-movement actuator comprising two swingable members arranged to move angularly in intersecting arcs about spaced centers of such angular movement, one of said members being rigidly fixed to an element to be actuated and the two said members having slidably inter-engaging portions constraining them to swing in unison, means for initially, angularly moving said swingable members past dead center corresponding to a straight line coincident with their said centers of movement, and separate means, coaxing with said mem-

bers to move the latter positively beyond said dead center; said slidably interengaging portions being a channel portion of one of said members and a stud on the other member extending into said channel portion, said channel portion having an adjustable abutment adapted to limit the sliding movement of said stud in the channel portion and thereby limit the angular movement

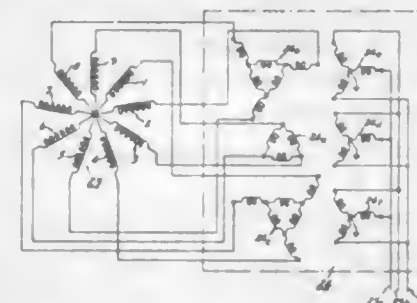


of said two swingable members, and said abutment being an adjusting screw threadably extending through a side of said channel portion and into the latter and having a tapered inner end providing, with an opposite side of said channel portion, an acute angular abutment to engage said stud to limit the latter's movement in the channel portion.

2,714,700

### ELECTRIC POWER SYSTEM

Wallace M. Johnson, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York  
Application January 25, 1954, Serial No. 405,871  
12 Claims. (Cl. 321-57)



1. In apparatus for transforming generated power of nine phases separated from each other at intervals of forty electrical degrees to three phases separated from each other at intervals of 120 electrical degrees, a first group of three primary windings connected to three symmetrical phases of the nine phases in delta electrical relation, two additional groups of primary windings connected in phase-shift relation respectively to the two remaining sets of three symmetrical phases to bring the remaining six phases into electrical orientation with said delta, and a plurality of secondary windings inductively coupled to said primary windings to provide three phase power.

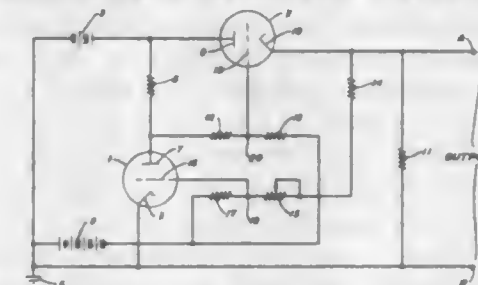
2,714,701

### VOLTAGE REGULATION CIRCUIT

Edward Joseph Henley, Chicago, Ill., assignor to American Telephone and Telegraph Company, a corporation of New York  
Application December 8, 1951, Serial No. 260,651  
2 Claims. (Cl. 323-22)

1. A voltage regulator comprising a source of voltage to be regulated, a load circuit, a first thermionic tube having cathode, anode and grid electrodes and being connected with its anode-cathode path in series between said source and said load circuit, a second thermionic tube

having cathode, anode and grid electrodes, a first resistor coupling the anode of said second tube to the grid of said first tube for controlling the operation of said first tube, a source of bias voltage for said second tube, a second resistor coupling said source of bias voltage to the grid of said second tube, input connections from said load circuit

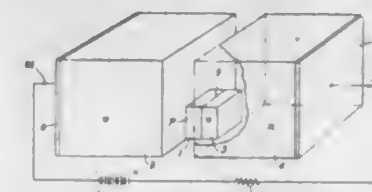


circuit to the grid of said second tube, and a third resistor for applying to the grid of said first tube from said source of bias voltage a voltage of the same polarity as that supplied therefrom to said second tube so that fluctuations in the voltage of said bias source tend to cancel out in their effects on the voltage across said load circuit.

2,714,702

### CIRCUITS, INCLUDING SEMICONDUCTOR DEVICE

William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application February 16, 1951, Serial No. 211,212  
19 Claims. (Cl. 323-66)

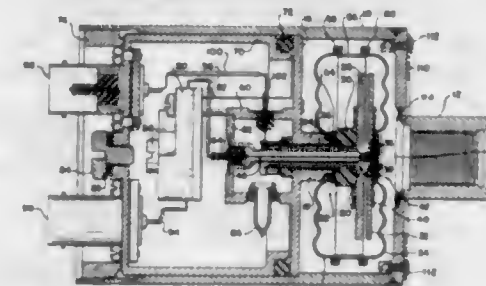


1. In combination, a p-n junction which, for applied reverse voltages greater than a critical reverse voltage, is characterized by a substantially constant voltage region, and, in series circuit relation therewith, a source of variable voltage greater than said critical reverse voltage, and means comprising a resistance element for limiting current flow through said device in said constant voltage region.

2,714,703

### TRANSDUCER

Martin Ruderfer, Wantagh, N. Y., assignor to Avien-Knickerbocker, Inc., Woodside, N. Y.  
Application October 26, 1954, Serial No. 464,741  
4 Claims. (Cl. 323-74)



1. In a transducer, the combination comprising: a first diaphragm of annular configuration having an inner and outer radius, said diaphragm being adapted to be deformed in accordance with variations of pressure of an atmosphere to which it is exposed, a cylindrical supporting member having one end attached to said diaphragm about said inner radius, a housing member provided with an orifice for exposing said diaphragm to said atmosphere, means for supporting said cylindrical member inside said housing, a cylindrical ring member attached to said first diaphragm about said outer radius, a second pressure de-



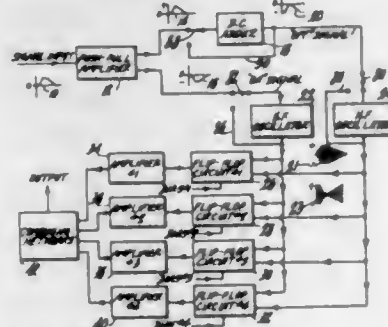
formable diaphragm of circular configuration attached to said ring about its outer radius, a wall enclosing the other end of said cylindrical support member so as to provide a space defined by said wall, said cylindrical support member, said diaphragms, and said ring, a first insulator supported inside said cylindrical support member, an electroconductive tubular member supported by said first insulator, a fixed capacitor plate supported by said tubular member, a second insulator attached to said circular diaphragm, a movable capacitor plate affixed to said second insulator and parallel to said first fixed capacitor plate, a first hermetically sealed terminal extending through said wall, electrically shielded conductor means interconnecting said movable capacitor plate and said first hermetically sealed terminal, a second hermetically sealed terminal extending through said wall, and means electrically connecting said electroconductive member and said second terminal.

2,714,704

### QUANTIZING MODULATION CIRCUIT ARRANGEMENT

Wendell Conser Morrison, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 23, 1951, Serial No. 217,110  
14 Claims. (Cl. 332-11)



1. A signal amplifier comprising, in combination, means for dividing signals into two paths, the signals in one path being inverse to the signals in the other path, an oscillator in each of said paths under control of the signals in that path, said oscillators being modulated by said inverse signals, a plurality of differently biased switching circuits having separate "on" and "off" electrodes, means coupling the output of one of said oscillators to said "on" electrodes, means coupling the output of the other of said oscillators to said "off" electrodes, amplifiers individual to and controlled by each of said switching circuits, and means for combining the outputs of said amplifiers.

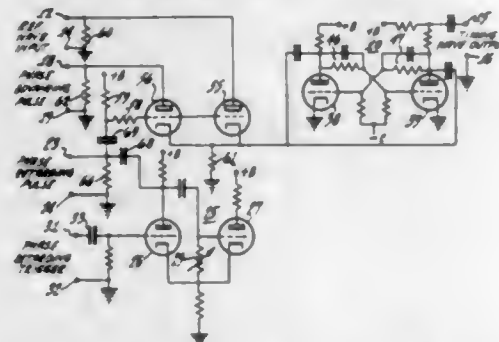
2,714,705

### ELECTRONIC PHASE SHIFTING SYSTEM

Philip Eckert Volz, Florham Park, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Continuation of application Serial No. 230,888, June 11, 1951. This application March 5, 1953, Serial No. 340,527

13 Claims. (Cl. 332-14)



1. Phase shifting apparatus comprising means to provide an input signal wave in the form of positive-going

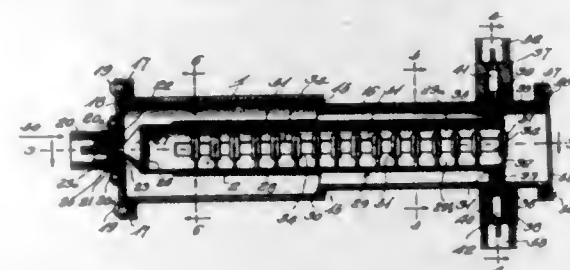
pulses, means for repeating said pulse signals, a timing wave generator, an output connection from said repeater to said timing wave generator, a second repeater, means common to said first repeater for coupling said second repeater to said timing wave generator, means for causing said second repeater to add positive going pulses to said input signal, and means including said second repeater for causing said first repeater to omit positive-going pulse from said input signal.

2,714,706

### POWER EQUALIZER

Robert Wayne Masters, Columbus, Ohio, assignor to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

Application July 23, 1951, Serial No. 238,063  
17 Claims. (Cl. 333-9)



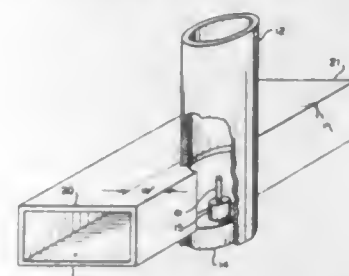
1. A power equalizer for high frequency transmission systems comprising inner and outer concentrically related hollow tubular conductors for transmitting high frequency waves, input connection means for high frequency energy adjacent the input ends of said conductors, output connection means for high frequency energy adjacent the output ends of said conductors, said inner conductor being bifurcated, a plurality of resistors electrically distributed in predetermined spaced positions along said inner conductor and connected between the bifurcated portions of said inner conductor in isolated relation to said outer conductor for providing a dissipative line for reversed-phase components of reflected waves and output connectors extending from said inner conductor radially through said outer conductor for forming said output connection means.

2,714,707

### CIRCULAR POLARIZER

Carroll W. Zabel, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application May 3, 1946, Serial No. 666,878  
5 Claims. (Cl. 333-21)



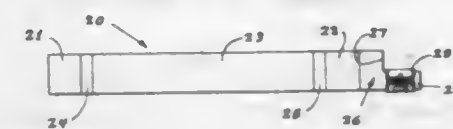
1. Guided wave apparatus for the transmission of electromagnetic energy comprising, a rectangular wave guide, a circular wave guide, said circular wave guide perpendicularly intersecting said rectangular wave guide, those portions of the wall of said circular wave guide intersected by said rectangular wave guide and of the walls of said rectangular wave guide intersected by said circular wave guide being removed to thereby provide a common opening between said guides, said opening being displaced from the longitudinal axes of both said rectangular and circular guides and proportioned to provide substantially equal amounts of electric and magnetic coupling of energy between said rectangular and circular guides.

2,714,708

### DELAY LINES

Glenn N. Howatt and Abraham I. Dranetz, Metuchen, N. J., assignors to Gulton Mfg. Corp., Metuchen, N. J., a corporation of New Jersey

Application May 12, 1950, Serial No. 161,586  
1 Claim. (Cl. 333-30)



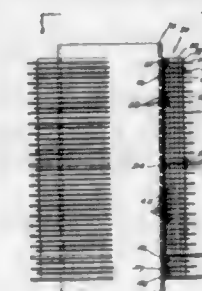
In a delay line, a ceramic body formed with definite sides and ends, said body being composed substantially of finely divided particles of a titanate capable of polarization, one end of said body terminating in a stepped construction, said stepped construction including a terminating end on said body and an integral projection extending outwardly therefrom and a clamp engaged with said projection and tightly clamping the same whereby the end reflections from the terminating end and from the projection are opposed in phase and are cancelled out.

2,714,709

### TRANSFORMER COOLING MEANS

Edward John Diebold, Ardmore, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 29, 1951, Serial No. 218,115  
1 Claim. (Cl. 336-61)



In a transformer comprising a cylindrical core, a plurality of primary coils, a plurality of secondary coils, core insulation means, coil insulation means and cooling fins; said core insulation means being concentric with said cylindrical core and positioned on the outer peripheral surface thereof, said plurality of primary and secondary coils being positioned in concentric relation to said cylindrical core and being positioned around the outer periphery of said core insulation means, said core insulation means insulating said cylindrical core from said plurality of primary and secondary coils, each of said coils comprising a plurality of layers of pancaked electrical conducting windings, said coil insulation means being a pressboard insulation disc positioned between adjacent coils to electrically insulate each of said plurality of coils from the other coils, said cooling fins comprising a discontinuous aluminum disc, having a discontinuous sector therein to permit winding connections, said cooling fins being covered on both sides by an insulating varnish impregnated glass cloth, said cooling fins being located between adjacent coil layers around said core insulation.

2,714,710

### TRANSFORMER

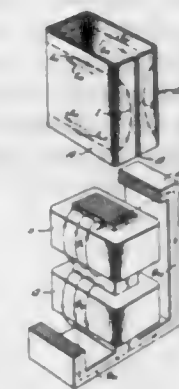
William Earle Bradley, Newtown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application July 23, 1949, Serial No. 106,417  
1 Claim. (Cl. 336-84)

In an electrical transformer provided with a core along which are positioned at least one primary winding and at

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least one secondary winding in side-by-side relation, and in which energization of the said primary winding establishes a mutual magnetic flux as well as individual leakage fluxes respectively surrounding each of said windings, the improvement which comprises a transient suppressor



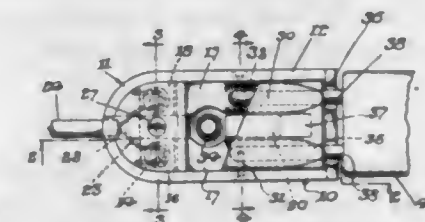
member which is composed of an electrically conductive sheet of non-magnetic material having a resistivity many times that of copper and which member is disposed in the form of a single longitudinally slit hollow cylinder substantially wholly encompassing both of said windings, the axis of said cylinder being generally coaxial with the axis of said windings.

2,714,711

### ELECTRICAL CONNECTORS

Howard B. Crane, Mamaroneck, N. Y.

Application January 13, 1954, Serial No. 403,743  
3 Claims. (Cl. 339-74)



1. An electrical plug connector comprising, in combination, a housing having a cavity therein, a pair of longitudinally extending contact members spaced apart from each other in said cavity and adapted to receive the prongs of an appliance plug, openings through said housing into said cavity adjacent the ends of said contact members, said ends of said contact members adjacent said cavity openings being semicylindrical in cross-section and being bevelled to a point adjacent said cavity wall openings, a cover for said cavity, means pivotally mounting said cover and means urging said cover to rotate to a position to close said cavity wall openings, said end then seating against the bevelled ends of said contact members, said cover also serving to hold the prongs of an appliance plug against said contact members when said prongs are inserted through said cavity wall opening.

2,714,712

### ELECTRIC CONNECTING BLOCK HAVING A PLURALITY OF OUTLETS FOR ATTACHMENT PLUGS

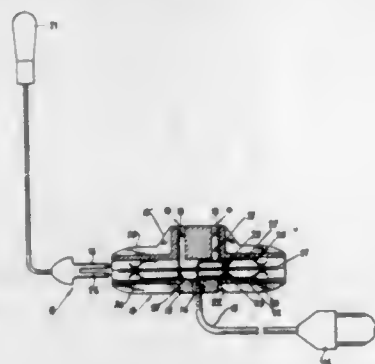
Richard E. Riccardelli, Brooklyn, N. Y.

Application August 2, 1954, Serial No. 447,218  
5 Claims. (Cl. 339-159)

1. A safety electric connecting block for distributing electric current to a plurality of plugs, comprising an insulating casing made of two substantially duplicate members, one having a central inlet for a lead-in wire and

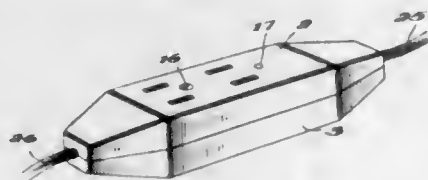


an annular recess concentric with said inlet, the other having apertures for the prongs of a plug, both said casing members having a plurality of radially directed recesses communicating with said annular recess, an annular metallic contact member seated in said annular recess and having radially directed arms positioned in said radial recesses and stopping short of the outer periphery of said casing member, each of said arms being bent laterally prior to insertion of said contact member in said annular recess to permit resilient rebound when flattened, an insulating disk housed between said body members and separating said contact members from



each other, said insulating disk being of larger diameter than the diameter of said contact arms preventing contact and short circuiting of said contact members, and a plug having two closely spaced-apart contact arms adapted to enter one of said radial sockets, said plug having body material coextensive with the length of said contact prongs and spaced apart from each other, whereby when inserting said plug into one of said radial sockets, said insulating disk will enter between the arms of said plug prior to making electrical contact with said contact arms and thereby providing a safety feature in the operation of said multiple connecting block.

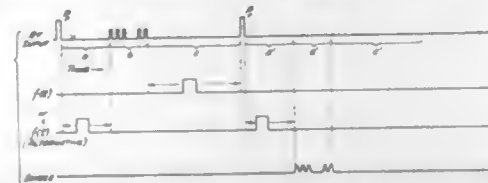
**2,714,713**  
**MULTIPLE ELECTRIC OUTLET**  
Rolando Victor Parajon, Habana, Cuba  
Application October 13, 1954, Serial No. 462,011  
3 Claims. (Cl. 339—164)



1. A multiple electric outlet for the reception of a plurality of spaced prong plugs comprising an insulating housing, a pair of substantially parallel spaced resilient conductor strips within said housing adapted to be connected to a source of electricity, a plurality of spaced pairs of openings in said housing spaced along such conductor strips, each pair of openings being adapted to receive the prongs of a spaced prong plug and being aligned with respect to such strips to permit one of the prongs of such plug to contact a side of one of such conductor strips and to permit the other of the prongs of such plug to contact a side of the other of such conductor strips, said conductor strips having bent portions along the length thereof adjacent to said openings and cooperating therewith upon insertion of the prongs of the plugs to stress such strips and to urge the prongs of the plugs inserted into such openings to pass along the sides of such strips and be maintained in contact therewith, the bent portions of each of such strips cooperating with adjacent openings of adjacent pairs of openings being such that the prongs of the plugs inserted into such adjacent openings pass along opposite sides of the strip cooperating therewith.

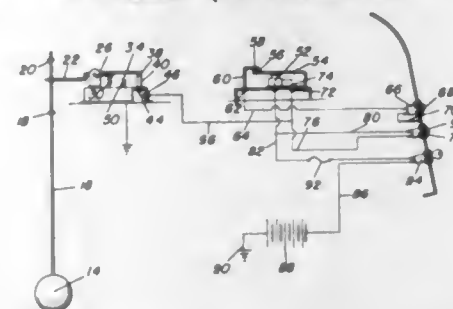
**2,714,714**  
**SPIN ECHO STORAGE TECHNIQUE**  
Arthur G. Anderson, Riverdale, N. Y., and Erwin L. Hahn, Bergenfield, N. J., assignors to International Business Machines Corporation, a corporation of New York

Application July 14, 1954, Serial No. 443,216  
9 Claims. (Cl. 340—173)



5. In an information storage and recovery sequence including concurrent establishment in a magnetic field of nuclear gyromagnetic storage conditions initially in a Z-axis direction parallel to the direction of said field and in an XY-plane normal to said field direction, and further including a torsional radio-frequency magnetic recollection pulse to initiate subsequent recovery of said stored information as magnetic echo pulses, said recollection pulse being adapted to convert said Z-axis storage to XY-plane storage, that method of producing echoes from one of said storage conditions to the exclusion of the other which includes the steps of magnetically pulsing said field in pre-determined selective time zonal relationship to said recollection pulse for destroying said other storage condition while carrying said first storage condition unimpaired into said subsequent echo pulse formation, and inductively detecting said echo pulses.

**2,714,715**  
**OIL LEVEL INDICATOR**  
Charles A. Manier, Houston, Mo.  
Application April 20, 1953, Serial No. 349,895  
1 Claim. (Cl. 340—244)

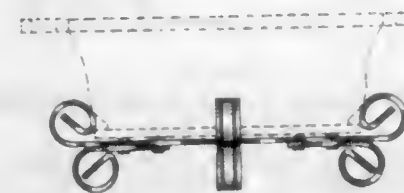


An oil level indicator system for providing a signal indicating when the lubricating oil in the crank case of an internal combustion engine is at a safe level and for providing a differing signal when the level of lubricating oil is at a low level comprising a float, a switch actuated by said float, a pair of signal lamps, and a relay actuated by the position of said switch selectively connecting one of said signal lamps to a source of electrical power, one of said signal lamps being operatively electrically connected in parallel connection with said relay through said switch to said source of electrical power when said switch is in a circuit closed position, the other of said signal lamps being directly connected in series connection through said relay to said source of electrical power when said switch is in a circuit open position, said float having a float rod attached thereto, an electrically insulative switch actuating lever, an aperture in said lever, said rod slidably extending through said aperture, stop means on said rod for engaging and actuating said lever upon extended movement of said rod, a first contact of said switch carried by said lever adapted to engage second contact of said switch to actuate said relay when said float is in a raised position, said relay being deactivated by said stop means engaging said lever to separate said first and second contacts breaking the electrical circuit to said relay when said float is in a lowered position due to a low oil level.

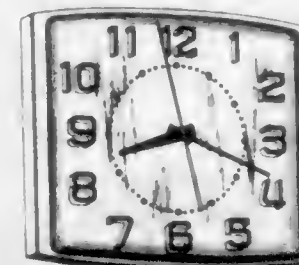
## DESIGNS

AUGUST 2, 1955

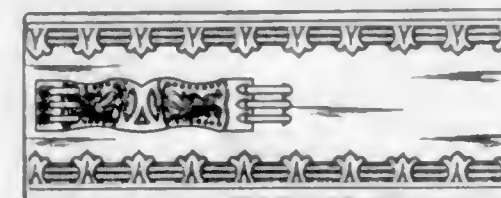
**175,241**  
**SERVING DISH STAND**  
Richard B. Andrus and James R. Washburn,  
Boulder, Colo.  
Application February 1, 1954, Serial No. 28,760  
Term of patent 3½ years  
(Cl. D44—10)



**175,242**  
**CLOCK**  
Rudolph M. Babel, Pawtucket, R. I., assignor to General Electric Company, a corporation of New York  
Application September 25, 1953, Serial No. 26,957  
Term of patent 3½ years  
(Cl. D45—7)



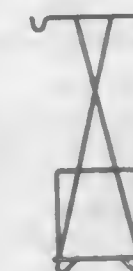
**175,243**  
**WALLET**  
Leslie L. Ban, New York, N. Y., assignor to Consolidated Leather Mfg. Company, New York, N. Y., a partnership  
Application February 4, 1955, Serial No. 34,363  
Term of patent 7 years  
(Cl. D87—3)



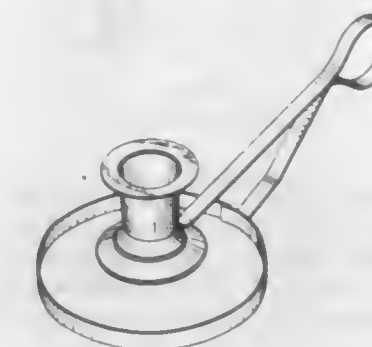
**175,244**  
**WALLET**  
Leslie L. Ban, New York, N. Y., assignor to Consolidated Leather Mfg. Company, New York, N. Y., a partnership  
Application February 4, 1955, Serial No. 34,364  
Term of patent 7 years  
(Cl. D87—3)



**175,245**  
**DISH RACK**  
Antonio Bertone, Houston, Tex.  
Application April 6, 1954, Serial No. 29,881  
Term of patent 14 years  
(Cl. D44—29)



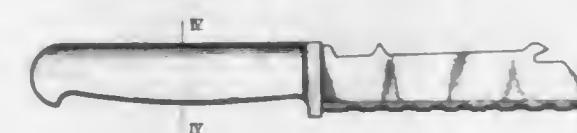
**175,246**  
**CANDLE HOLDER ADAPTER OR THE LIKE**  
Albert J. Blosser, New Haven, Conn.  
Application November 15, 1954, Serial No. 33,091  
Term of patent 14 years  
(Cl. D48—2)



**175,247**  
**STERILIZER RACK**  
Harlan F. Borin, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois  
Application April 29, 1954, Serial No. 30,241  
Term of patent 14 years  
(Cl. D44—29)



**175,248**  
**KNIFE OR THE LIKE**  
Lawrence K. Carroll, Fremont, Ohio, assignor to Quikut, Inc., Fremont, Ohio, a corporation of Ohio  
Application September 20, 1954, Serial No. 32,352  
Term of patent 14 years  
(Cl. D22—3)



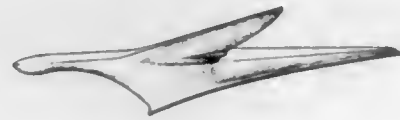


175,249

## VEHICLE HOOD ORNAMENT OR SIMILAR ARTICLE

Richard L. Collier, Grosse Pointe, Mich., assignor to Studebaker-Packard Corporation, a corporation of Michigan

Application October 20, 1954, Serial No. 32,737  
Term of patent 14 years  
(Cl. D14-18)



175,250

## BEVERAGE DISPENSER

John E. Faust, St. Louis, Mo.

Application November 9, 1953, Serial No. 27,515  
Term of patent 7 years  
(Cl. D2-3)

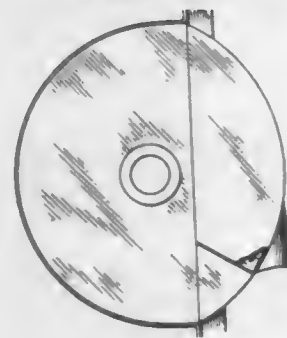


175,251

## AXLE SUPPORTED TOILET TISSUE ROLL DISPENSING CONTAINER

David Goldberg, Brooklyn, N. Y.

Application May 19, 1954, Serial No. 30,564  
Term of patent 14 years  
(Cl. D4-3)

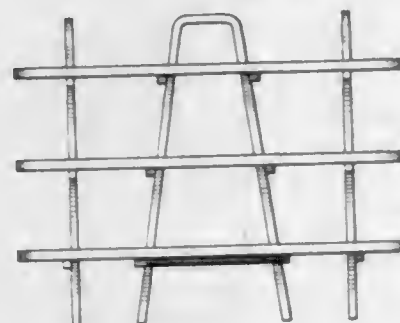


175,252

## DISPLAY STAND

Milton Goldstein and Bernard Goldstein, Chicago, Ill.

Application July 6, 1954, Serial No. 31,286  
Term of patent 3½ years  
(Cl. D80-9)

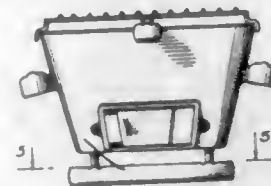


175,253

## HIBACHI

Morris Greenblat, San Francisco, Calif., assignor of one-half to Burn-Strauss, Inc.

Application May 3, 1954, Serial No. 30,298  
Term of patent 14 years  
(Cl. D81-10)

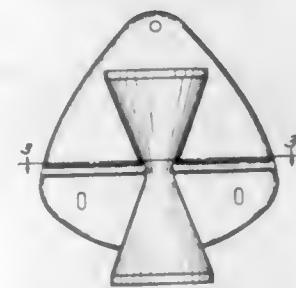


175,254

## COMBINED WALL RACK AND CONDIMENT DISPENSER

Doris Ann Hansen, Duluth, Minn.

Application May 12, 1954, Serial No. 30,418  
Term of patent 7 years  
(Cl. D44-22)

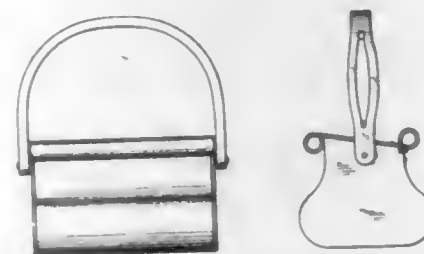


175,255

## HANDBAG

William H. Hardy, River Edge, N. J.

Application December 3, 1954, Serial No. 33,379  
Term of patent 7 years  
(Cl. D87-3)

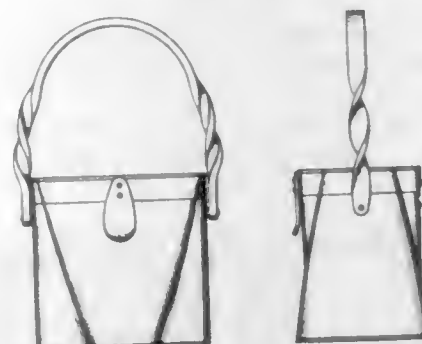


175,256

## HANDBAG

William H. Hardy, River Edge, N. J.

Application December 3, 1954, Serial No. 33,380  
Term of patent 7 years  
(Cl. D87-3)

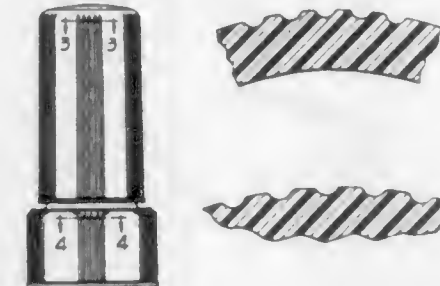


175,257

## COMBINED LIQUID DISPENSING AND CLOSURE CAP FOR BOTTLES

Cecil L. Hopkins, Gallion, Ohio

Application May 12, 1954, Serial No. 30,417  
Term of patent 14 years  
(Cl. D58-26)

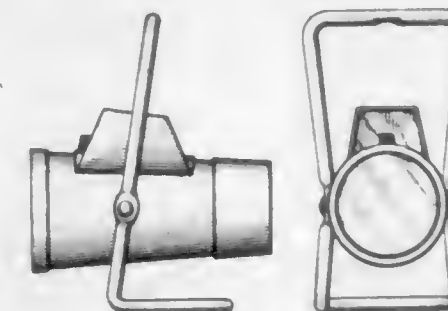


175,258

## ELECTRIC LANTERN

George McStay Jackson, Chicago, Ill.

Application September 10, 1954, Serial No. 32,238  
Term of patent 7 years  
(Cl. D48-24)

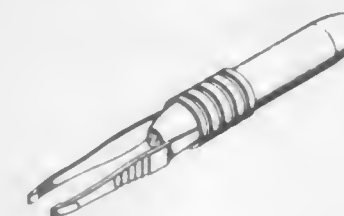


175,259

## ILLUMINABLE TWEEZERS

Warren A. Johnson, Arcadia, and Ulman B. Peterson, Pasadena, Calif.

Application October 28, 1954, Serial No. 32,866  
Term of patent 14 years  
(Cl. D86-10)



175,260

## COMBINED SCORE KEEPER AND RING TOSS GAME DEVICE OR SIMILAR ARTICLE

Lawrence Jones, Chicago, Ill.

Application April 14, 1954, Serial No. 29,994  
Term of patent 14 years  
(Cl. D34-5)

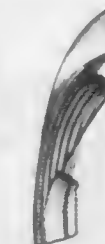


175,261

## WHEEL COVER OR SIMILAR ARTICLE

James S. Kawsy, Grosse Pointe, Mich., assignor to Studebaker-Packard Corporation, Detroit, Mich., a corporation of Michigan

Application January 27, 1955, Serial No. 34,258  
Term of patent 14 years  
(Cl. D14-30)

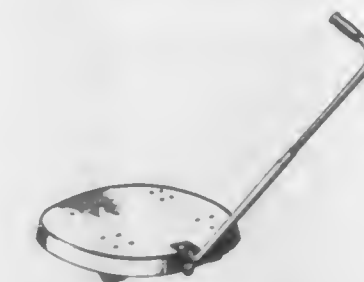


175,262

## DOLLY

Elizabeth E. Kousens, San Diego, Calif., assignor to Peerless Manufacturing Company, El Cajon, Calif., a firm

Application September 9, 1954, Serial No. 32,213  
Term of patent 3½ years  
(Cl. D14-3)

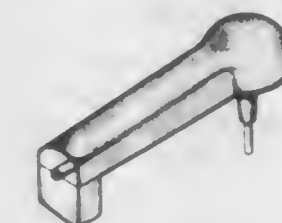


175,263

## REMOTE POWERED CULINARY BEATER HEAD

Arthur W. Lambert, Morecambe, England

Application November 30, 1954, Serial No. 33,329  
Term of patent 14 years  
(Cl. D44-1)



175,264

## COMBINED REFRIGERATOR AND FREEZER

John Licinit, Essington, and Anthony D'Alessandro, Philadelphia, Pa., assignors to Jordon Refrigerator Company, Philadelphia, Pa., a corporation of Pennsylvania

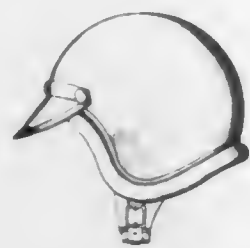
Application January 26, 1955, Serial No. 34,235  
Term of patent 14 years  
(Cl. D67-3)



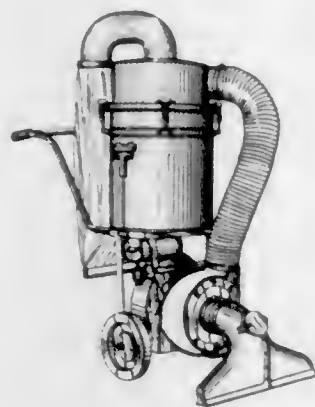


175,265  
HELMET

John N. McMurtry, Hawthorne, Calif.  
Application July 2, 1954, Serial No. 31,261  
Term of patent 14 years  
(Cl. D3—13)

175,266  
POWER-DRIVEN INDUSTRIAL VACUUM  
CLEANER

Alexander W. Moffat, Beverly Farms, Mass., assignor to  
Handling Devices Company, Inc., Brookline, Mass., a  
corporation of Massachusetts  
Application July 29, 1953, Serial No. 26,183  
Term of patent 14 years  
(Cl. D9—2)

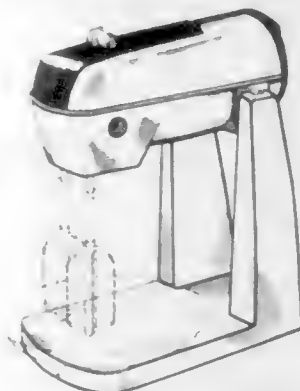
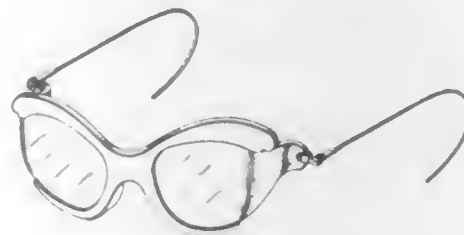
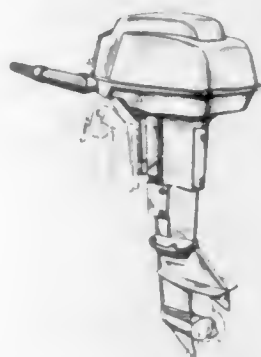
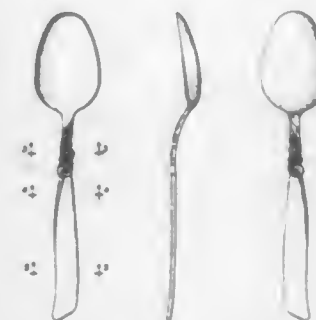
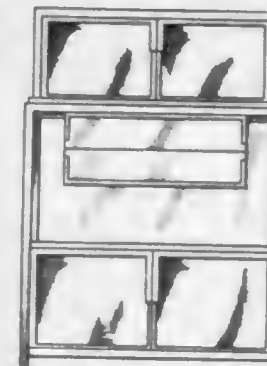
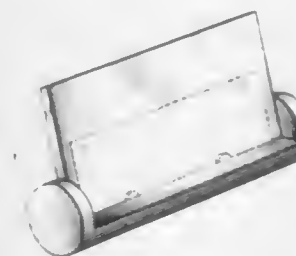
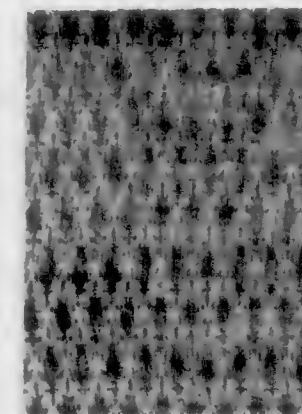
175,267  
LIQUIDIZER

Walter E. Moore, Belnor, Mo., assignor to Knapp-Mon-  
arch Company, St. Louis, Mo., a corporation of Dela-  
ware  
Application May 10, 1954, Serial No. 30,391  
Term of patent 14 years  
(Cl. D89—1)

175,268  
HOUSEHOLD MIXER

Walter E. Moore, Belnor, Mo., assignor to Knapp-Mon-  
arch Company, St. Louis, Mo., a corporation of Dela-  
ware  
Original application May 10, 1954, Serial No. 30,391.  
Divided and this application August 2, 1954, Serial  
No. 31,706

Term of patent 14 years  
(Cl. D44—1)

175,269  
PAIR OF SPECTACLES  
Ella Nelson, Milwaukee, Wis.  
Application October 8, 1954, Serial No. 32,595  
Term of patent 14 years  
(Cl. D57—1)175,270  
OUTBOARD MOTOR  
David L. Painter, Evanston, Ill.  
Application November 30, 1954, Serial No. 33,339  
Term of patent 14 years  
(Cl. D71—1)175,271  
WINDOW SHUTTER  
Harvey R. Patton, Creve Coeur, Mo.  
Application March 7, 1955, Serial No. 34,913  
Term of patent 7 years  
(Cl. D13—1)175,272  
SPOON OR SIMILAR ARTICLE  
Frank R. Perry, Oneida, N. Y., assignor to Oneida Ltd.,  
Oneida, N. Y., a corporation of New York  
Application August 20, 1954, Serial No. 31,954  
Term of patent 14 years  
(Cl. D54—12)175,273  
COMBINED SPEAKER ENCLOSURE, RECORD  
PLAYER, AND RADIO CABINET  
Alexander Rauchman, New York, N. Y.  
Application September 20, 1954, Serial No. 32,362  
Term of patent 7 years  
(Cl. D56—4)175,274  
DESK CALENDAR OR THE LIKE  
Jean O. Reinecke, Oak Park, Ill., assignor to U. O. Colson  
Company, Paris, Ill., a corporation of Delaware  
Application December 28, 1954, Serial No. 33,719  
Term of patent 3½ years  
(Cl. D74—5)175,275  
LASTING PIN  
Forrest L. Romine, Cincinnati, Ohio  
Application April 19, 1955, Serial No. 35,581  
Term of patent 14 years  
(Cl. D54—9)175,276  
REFRIGERATED DISPLAY CASE  
Sheldon Rutter, Evanston, Ill., assignor to Tyler Refrig-  
eration Corporation, Niles, Mich., a corporation of  
Michigan  
Application February 19, 1954, Serial No. 29,114  
Term of patent 3½ years  
(Cl. D80—11)175,277  
CURTAIN FABRIC OR SIMILAR ARTICLE  
Max Sadinoff, New York, N. Y.  
Application June 4, 1954, Serial No. 30,818  
Term of patent 3½ years  
(Cl. D47—6)175,278  
SPECTACLE FRONT  
Raymond F. E. Stegeman, Greece, N. Y., assignor to  
Bausch & Lomb Optical Company, Rochester, N. Y.,  
a corporation of New York  
Application December 10, 1954, Serial No. 33,474  
Term of patent 7 years  
(Cl. D57—1)175,279  
SPECTACLE FRONT  
Raymond F. E. Stegeman, Greece, N. Y., assignor to  
Bausch & Lomb Optical Company, Rochester, N. Y.,  
a corporation of New York  
Application January 20, 1955, Serial No. 34,093  
Term of patent 7 years  
(Cl. D57—1)



175,280

## SPECTACLE FRONT

Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
Application January 20, 1955, Serial No. 34,094  
Term of patent 7 years  
(Cl. D57-1)



175,281

## SPECTACLE FRONT

Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
Application January 20, 1955, Serial No. 34,095  
Term of patent 7 years  
(Cl. D57-1)



175,282

## SPECTACLE FRONT

Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
Application January 20, 1955, Serial No. 34,096  
Term of patent 7 years  
(Cl. D57-1)



175,283

## SPECTACLE FRONT

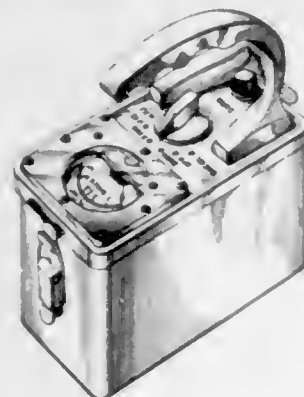
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
Application January 20, 1955, Serial No. 34,097  
Term of patent 7 years  
(Cl. D57-1)



175,284

## RADIATION METER

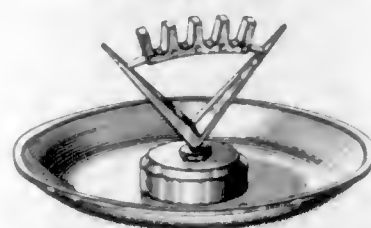
John E. Wagenseller, Secane, Pa.  
Application December 15, 1953, Serial No. 28,081  
Term of patent 14 years  
(Cl. D52-1)



175,285

## COMBINED ASH TRAY AND CIGARETTE HOLDER

Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York  
Application May 20, 1954, Serial No. 30,571  
Term of patent 14 years  
(Cl. D85-2)



175,286

## COMBINED ASH TRAY AND CIGARETTE HOLDER

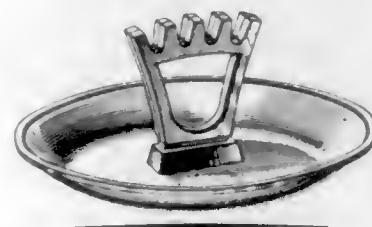
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York  
Application May 20, 1954, Serial No. 30,572  
Term of patent 14 years  
(Cl. D85-2)



175,287

## COMBINED ASH TRAY AND CIGARETTE SUPPORT

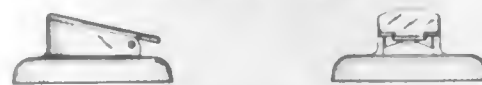
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York  
Application May 20, 1954, Serial No. 30,573  
Term of patent 14 years  
(Cl. D85-2)



175,288

## COMBINATION CLOSURE CAP AND POURING SPOUT

John M. Wilson, Jennings, Mo.  
Application September 2, 1954, Serial No. 32,148  
Term of patent 14 years  
(Cl. D58-26)



175,289

## SHERBET GLASS

William T. Young, Lexington, Ky.  
Application January 25, 1954, Serial No. 28,651  
Term of patent 7 years  
(Cl. D36-2)



## LIST OF REISSUE PATENTEEES

TO WHOM

PATENTS WERE ISSUED ON THE 2ND DAY OF AUGUST, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Crecellus, Samuel B. to Devoe & Reynolds Co., Inc. Re. Devoe & Reynolds Co., Inc.: See—  
24,047, Cl. 260-18. Crecellus, Samuel B. Re. 24,047.  
Denison Engineering Co., The: See—  
Wright, Fred J. Re. 24,048.  
Wright, Fred J. Re. 103-162.

## LIST OF PLANT PATENTEEES

Lang, Albin E. 1,408, Cl. 47-62.

## LIST OF DESIGN PATENTEEES

American Hospital Supply Corp.: See—  
Borin, Harlan F. 175,247.  
Andrus, Richard B., and J. R. Washburn. 175,241, Cl. D44-10.  
Babel, Rudolph M., to General Electric Co. 175,242, Cl. D45-7.  
Ban, Leslie L., to Consolidated Leather Mfg. Co. 175,243, Cl. D87-3.  
Ban, Leslie L., to Consolidated Leather Mfg. Co. 175,244, Cl. D87-3.  
Bausch & Lomb Optical Co.: See—  
Stegeman, Raymond F. E. 175,278-175,283.  
Bertone, Antonio. 175,245, Cl. D44-29.  
Blosveren, Albert J. 175,246, Cl. D48-2.  
Borin, Harlan F., to American Hospital Supply Corp. 175,247, Cl. D44-29.  
Burn-Strauss, Inc.: See—  
Greenblat, Morris. 175,253.  
Carroll, Lawrence K., to Quikut, Inc. 175,248, Cl. D22-3.  
Collier, Richard L., to Studebaker-Packard Corp. 175,249, Cl. D14-18.  
Colson, U. O., Co.: See—  
Reinecke, Jean O. 175,274.  
Consolidated Leather Mfg. Co.: See—  
Ban, Leslie L. 175,243.  
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D'Alessandro, Anthony: See—  
Licini, John, and D'Alessandro. 175,264.  
Faust, John E. 175,250, Cl. D2-3.  
General Electric Co.: See—  
Babel, Rudolph M. 175,242.  
Goldberg, David. 175,251, Cl. D4-3.  
Goldstein, Bernard: See—  
Goldstein, Milton and B. 175,252.  
Goldstein, Milton and B. 175,252, Cl. D80-9.  
Greenblat, Morris, 1/2 to Burn-Strauss, Inc. 175,253, Cl. D81-10.  
Hamilton Art Metal Corp.: See—  
Wedemeyer, Eric. 175,285.  
Wedemeyer, Eric. 175,286.  
Wedemeyer, Eric. 175,287.  
Handling Devices Co., Inc.: See—  
Moffat, Alexander W. 175,266.  
Hansen, Doris A. 175,254, Cl. D44-22.  
Hardy, William H. 175,255, Cl. D87-3.  
Hardy, William H. 175,256, Cl. D87-3.  
Hopkins, Cecil L. 175,257, Cl. D58-26.  
Jackson, George M. 175,258, Cl. D48-24.  
Johnson, Warren A., and U. B. Peterson. 175,259, Cl. D86-10.  
Jones, Lawrence. 175,260, Cl. D34-5.  
Jordan Refrigerator Co.: See—  
Licini, John, and D'Alessandro. 175,264.  
Kawsky, James S., to Studebaker-Packard Corp. 175,261, Cl. D14-30.  
Knapp-Monarch Co.: See—  
Moore, Walter E. 175,267.  
Moore, Walter E. 175,268.  
Kousens, Elizabeth E., to Peerless Mfg. Co. 175,262, Cl. D14-3.  
Lambert, Arthur W. 175,263, Cl. D44-1.  
Licini, John, and A. D'Alessandro, to Jordan Refrigerator Co. 175,264, Cl. D87-3.  
McMurry, John N. 175,265, Cl. D3-13.  
Moffat, Alexander W., to Handling Devices Co., Inc. 175,266, Cl. D9-2.  
Moore, Walter E., to Knapp-Monarch Co. 175,267, Cl. D89-1.  
Moore, Walter E., to Knapp-Monarch Co. 175,268, Cl. D44-1.  
Nelson, Ella. 175,269, Cl. D57-1.  
Onelda Ltd.: See—  
Perry, Frank R. 175,272.  
Painter, David L. 175,270, Cl. D71-1.  
Patton, Harvey R. 175,271, Cl. D13-1.  
Peerless Mfg. Co.: See—  
Kousens, Elizabeth E. 175,262.  
Perry, Frank R., to Onelda Ltd. 175,272, Cl. D54-12.  
Peterson, Ulman B.: See—  
Johnson, Warren A., and Peterson. 175,259.  
Quikut, Inc.: See—  
Carroll, Lawrence K. 175,248.  
Rauchman, Alexander. 175,273, Cl. D56-4.  
Reinecke, Jean O., to U. O. Colson Co. 175,274, Cl. D74-5.  
Romine, Forrest L. 175,275, Cl. D54-9.  
Rutter, Sheldon, to Tyler Refrigeration Corp. 175,276, Cl. D80-11.  
Sadinoff, Max. 175,277, Cl. D47-6.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,278, Cl. D57-1.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,279, Cl. D57-1.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,280, Cl. D57-1.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,281, Cl. D57-1.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,282, Cl. D57-1.  
Stegeman, Raymond F. E., to Bausch & Lomb Optical Co. 175,283, Cl. D57-1.  
Studebaker-Packard Corp.: See—  
Collier, Richard L. 175,249.  
Kawsky, James S. 175,261.  
Tyler Refrigeration Corp.: See—  
Rutter, Sheldon. 175,276.  
Wagenseller, John E. 175,284, Cl. D52-1.  
Washburn, James R.: See—  
Andrus, Richard B., and Washburn. 175,241.  
Wedemeyer, Eric, to Hamilton Art Metal Corp. 175,285, Cl. D85-2.  
Wedemeyer, Eric, to Hamilton Art Metal Corp. 175,286, Cl. D85-2.  
Wedemeyer, Eric, to Hamilton Art Metal Corp. 175,287, Cl. D85-2.  
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332: 2,714,220	103: 2,714,302	195: 2,714,376	170: 2,714,441	33.65: 2,714,559	297— 11: 2,714,527
4: 2,714,221	3: 2,714,303	24: 2,714,377	177: 2,714,442	36: 2,714,560	299— 29: 2,714,528
11.1: 2,714,222	70— 406: 2,714,304	126— 110: 2,714,378	200— 61.25: 2,714,636	2,714,661	58: 2,714,529
45: 2,714,223	71— 23: 2,714,553	128— 2.06: 2,714,379	68: 2,714,638	2,714,662	88: 2,714,530
18— 2.7: 2,714,224	72— 46: 2,714,305	2.06: 2,714,380	69: 2,714,639	2,714,663	104: 2,714,531
17: 2,714,225	73— 6: 2,714,306	61: 2,714,381	80: 2,714,640	41.9: 2,714,664	121: 2,714,532
30: 2,714,226	100: 2,714,307	268: 2,714,382	84: 2,714,641	2,714,665	108: 2,714,533
59.2: 2,714,227	153: 2,714,308	131— 70: 2,714,383	87: 2,714,642	2,714,666	301— 10: 2,714,534
134: 2,714,228	178: 2,714,309	94: 2,714,384	138: 2,714,643	2,714,667	302— 11: 2,714,535
142: 2,714,229	194: 2,714,310	140: 2,714,385	2,714,644	83: 2,714,669	303— 38: 2,714,536
144.5: 2,714,230	5: 2,714,311	134— 22: 2,714,386	150: 2,714,645	252— 46.7: 2,714,670	304— 10: 2,714,537
2— 2: 2,714,231	7: 2,714,312	135— 5: 2,714,387	162: 2,714,646	62.6: 2,714,680	307— 90: 2,714,538
57.5: 2,714,233	434: 2,714,314	136— 28: 2,714,624	202— 39: 2,714,673	301.6: 2,714,681	77: 2,714,539
22— 57.4: 2,714,235	465: 2,714,315	137— 119: 2,714,388	204— 71: 2,714,675	311.5: 2,714,682	134.1: 2,714,540
63: 2,714,236	75— 84: 2,714,554	408: 2,714,389	78: 2,714,676	253— 77: 2,714,683	310— 8.4: 2,714,541
89: 2,714,237	121: 2,714,555	514.7: 2,714,392	198: 2,714,677	255— 3: 2,714,684	84: 2,714,542
23— 219: 2,714,550	203: 2,714,556	563: 2,714,393	1: 2,714,443	260— 2: 2,714,685	91: 2,714,543
270: 2,714,551	112: 2,714,317	625.29: 2,714,394	45.14: 2,714,444	18: Re.24,047	213: 2,714,544
281: 2,714,552	77— 60: 2,714,318	138— 37: 2,714,395	45.31: 2,714,445	28.5: 2,714,585	311— 1: 2,714,545
24— 150: 2,714,238	81— 3: 2,714,319	139— 13: 2,714,396	46: 2,714,447	46.5: 2,714,586	11: 2,714,546
25— 157: 2,714,239	17: 2,714,320	21: 2,714,397	47: 2,714,448	96.5: 2,714,587	84: 2,714,547
26— 28: 2,714,240	52: 2,714,321	2,714,398	66: 2,714,449	145: 2,714,588	99: 2,714,548
29— 17: 2,714,241	108: 2,714,322	39: 2,714,399	148: 2,714,450	148: 2,714,589	312— 29: 2,714,549
70: 2,714,242	165: 2,714,323	2,714,400	207— 74: 2,714,451	159: 2,714,590	296: 2,714,550
89.5: 2,714,243	82— 2.7: 2,714,324	97: 2,714,401	209— 106: 2,714,452	199: 2,714,591	313— 40: 2,714,551
157: 2,714,244	84— 269: 2,714,325	154: 2,714,402	142: 2,714,453	215: 2,714,592	61: 2,714,552
182.8: 2,714,245	88— 14: 2,714,326	188: 2,714,403	215: 2,714,454	236.5: 2,714,593	84: 2,714,553
195: 2,714,246	23: 2,714,328	304: 2,714,404	210— 8.5: 2,714,455	287: 2,714,594	85: 2,714,554
3: 2,714,247	24: 2,714,329	408: 2,714,405	183: 2,714,456	295: 2,714,595	93: 2,714,555
85: 2,714,248	25: 2,714,330	41: 2,714,406	18: 2,714,457	303: 2,714,596	109: 2,714,556
133: 2,714,249	96: 2,714,331	144— 134: 2,714,407	28: 2,714,458	308: 2,714,597	2,714,598
180: 2,714,250	98— 14: 2,714,332	145— 62: 2,714,408	90: 2,714,459	280: 2,714,598	397.45: 2,714,599
31— 22: 2,714,251	35: 2,714,333	146— 119: 2,714,410	140: 2,714,460	2,714,600	2,714,601
32— 63: 2,714,252	190: 2,714,334	238: 2,714,411	284: 2,714,461	410: 2,714,602	416: 2,714,603
33— 18: 2,714,253	90— 15: 2,714,335	148— 1.5: 2,714,412	515: 2,714,462	416: 2,714,604	451: 2,714,605
23: 2,714,254	19: 2,714,336	153— 2: 2,714,413	620: 2,714,463	458: 2,714,606	466: 2,714,607
46: 2,714,255	24: 2,714,337	154— 1.6: 2,714,414	219— 10.69: 2,714,647	471: 2,714,608	471: 2,714,609
174: 2,714,256	33: 2,714,338	155— 1.8: 2,714,415	10.79: 2,714,648	2,714,610	475: 2,714,611
233: 2,714,257	46: 2,714,341	2.7: 2,714,416	19: 2,714,649	475: 2,714,612	518: 2,714,613
214: 2,714,258	53: 2,714,342	42: 2,714,417	25: 2,714,650	486: 2,714,614	552: 2,714,615
34— 3: 2,714,259	49: 2,714,343	50: 2,714,418	26: 2,714,651	490: 2,714,615	571: 2,714,616
35— 19: 2,714,260	51: 2,714,344	53.6: 2,714,419	1: 2,714,464	580: 2,714,616	586: 2,714,617
31: 2,714,261	26: 2,714,345	55: 2,714,420	6: 2,714,465	606: 2,714,618	648: 2,714,619
86: 2,714,262	46.07: 2,714,346	139: 2,714,421	7: 2,714,466	653: 2,714,620	654: 2,714,621
126: 2,714,263	47.22: 2,714,347	175: 2,714,422	43: 2,714,467	660: 2,714,622	660: 2,714,623
39— 3: 2,714,264	99— 387: 2,714,348	156— 105: 2,714,423	52: 2,714,468	661: 2,714,624	661: 2,714,625
40— 20: 2,714,265	387: 2,714,349	112: 2,714,424	55: 2,714,469	662: 2,714,626	662: 2,714,627
126: 2,714,266	100— 73: 2,714,350	124: 2,714,425	64: 2,714,470	663: 2,714,628	663: 2,714,629
41— 1: 2,714,267	101— 126: 2,714,351	161— 1: 2,714,426	97: 2,714,471	664: 2,714,629	664: 2,714,630
7: 2,714,268	184: 2,714,352	164— 118: 2,714,427	63: 2,714,472	665: 2,714,631	665: 2,714,632
10: 2,714,269	212: 2,714,353	166— 125: 2,714,428	217: 2,714,473	666: 2,714,632	666: 2,714,633
17: 2,714,270	72: 2,714,354	173: 2,714,429	386: 2,714,474	667: 2,714,633	667: 2,714,634
21: 2,714,271	103— 111: 2,714,355	167— 30: 2,714,430	501: 2,714,475	668: 2,714,634	668: 2,714,635
25: 2,714,272	162: Re.24,048	174— 50: 2,714,431	508: 2,714,476	669: 2,714,635	669: 2,714,636
42.18: 2,714,273	197: 2,714,356	120: 2,714,432	223— 18: 2,714,477	670: 2,714,636	670: 2,714,637
45— 89: 2,714,274	106— 90: 2,714,357	178— 2: 2,714,433	33: 2,714,478	671: 2,714,637	671: 2,714,638
46— 180: 2,714,275	108— 64: 2,714,358	50: 2,714,434	224— 26: 2,714,479	672: 2,714,638	672: 2,714,639
47— 62: P.P.1,408	107— 12: 2,714,359	179— 18: 2,714,435	42.1: 2,714,480	673: 2,714,639	673: 2,714,640
49— 77.5: 2,714,276	110— 176: 2,714,360	27: 2,714,436	226— 15: 2,714,481	674: 2,714,640	674: 2,714,641
51— 92: 2,714,277	112— 151: 2,714,361	27.5: 2,714,437	229— 6: 2,714,482	675: 2,714,641	675: 2,714,642
137: 2,714,278	115— 18: 2,714,362	100.1: 2,714,438	31: 2,714,483	676: 2,714,642	676: 2,714,643
184.3: 2,714,279	117— 9: 2,714,363	171: 2,714,439	101: 2,714,484	677: 2,714,643	677: 2,714,644
329: 2,714,281	55: 2,714,561	2,714,440	230— 19: 2,714,485	678: 2,714,644	678: 2,714,645
57— 34: 2,714,282			233— 29: 2,714,486	679: 2,714,645	679: 2,714,646
58— 46: 2,714,283			235— 27: 2,714,487	680: 2,714,646	680: 2,714,647
80: 2,714,284			236— 12: 2,714,488	681: 2,714,647	681: 2,714,648
60— 35.6: 2,714,285				682: 2,714,648	682: 2,714,649

## CLASSIFICATION OF DESIGNS

D 2— 3: Des. 175,250	D22 3: Des. 175,248	D44— 29: Des. 175,245	D56— 4: Des. 175,273	D58— 26: Des. 175,257	D85— 2: Des. 175,286
D 3— 13: Des. 175,251	D34— 5: Des. 175,260	D47— 6: Des. 175,277	D57— 1: Des. 175,269	Des. 175,288	Des. 175,287
D 4— 3: Des. 175,252	D36— 2: Des. 175,261	D48— 2: Des. 175,278	Des. 175,270	D67— 3: Des. 175,294	D86— 10: Des. 175,259
D 9— 2: Des. 175,266	D42— 7: Des. 175,242	D49— 2: Des. 175,279	Des. 175,271	D71— 1: Des. 175,270	D87— 3: Des. 175,243
D13— 1: Des. 175,271	D44— 1: Des. 175,263	D52— 1: Des. 175,284	Des. 175,280	D74— 5: Des. 175,274	Des. 175,244
D14— 3: Des. 175,262	Des. 175,268	D54— 9: Des. 175,275	Des. 175,281	D80— 9: Des. 175,282	Des. 175,255
18: Des. 175,249	10: Des. 175,241	12: Des. 175,272	Des. 175,282	11: Des. 175,276	Des. 175,256
30: Des. 175,261	22: Des. 175,254		Des. 175,283	D81— 10: Des. 175,253	Des. 175,257
			Des. 175,284	D85— 2: Des. 175,285	D89— 1: Des. 175,267



TRADEMARKS

NOTICES

Roster of Attorneys and Agents

The Patent Office has recently published a new edition of the *Roster of Attorneys and Agents Registered to Practice Before the U. S. Patent Office*. This edition like the preceding one is an extract of the official Roster maintained by the Patent Office and contains the name and address of all individuals and firms registered in the Patent Office on May 1, 1955. This publication is composed of three sections (1) Individuals in the United States, (2) Firms and (3) Individuals in Foreign Countries. Each section contains Part I, Arranged Alphabetically, and Part II, Arranged Geographically. This publication may be purchased from the Superintendent of Documents, Washington 25, D. C., for \$1.00 per copy. Remittance in the form of check or money order should be payable to the Superintendent of Documents.

T. B. MORROW,  
Executive Officer.

Application of New Rules

On and after September 15, 1955, all briefs are due in trademark cases in accordance with Secs. 2.128, 2.142 (b) and 2.143. Oral arguments now set for a date after October 31, 1955, are hereby vacated, and new dates will be set upon request made in accordance with Sec. 2.128 (c).

DAPHNE LEEDS,  
Assistant Commissioner.

Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946  
TM 46,216. (See TM 589,608.)  
TM 201,694 (Cadillac), General Motors Corp., Automobiles, filed Apr. 25, 1955, D. C. N. J. (Newark), Doc. 375/55, Gen-eral Motors Corp. v. Cadillac Motors, Inc. et al. Consent judgment for injunction May 27, 1955.  
TM 226,693, TM 514,230, TM 517,496, TM 524,143, TM 524,389, TM 525,001, TM 526,246, TM 528,288, TM 529,040, TM 529,353, TM 530,555, TM 531,440, TM 532,724, TM 544,488, TM 545,822, TM 545,866, TM 548,964, TM 550,934, TM 563,528 (Allstate), Sears, Roebuck and Co., Automobile supplies—namely, tires and tubes, door locks, sponges, etc.; TM 586,026, same, Automobile tractor and motor bike parts, etc.; TM 549,796 (Super Allstate), same, Automobile tires, filed June 2, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c817, Sears, Roebuck & Co. v. Allstate Motors, Inc.  
TM 328,194 (Löwenbräu), Aktienbrauerei Zum Löwenbräu in München, Malt beverage; TM 595,656 ("Munich Löwenbräu Light Special" and design), "Löwenbräu" München, Beer, filed June 1, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c816, Consolidated Foundries & Mfg. Corp. v. Premium Beer Sales, Inc., et al.  
TM 355,174 (Vita-Kaps), Abbott Laboratories, Capsules containing fish liver oil fortified with natural vitamin D, etc., filed June 1, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15586, Abbott Laboratories v. Samuel Fox, et al.  
TM 514,230. (See TM 226,693.)  
TM 517,496. (See TM 226,693.)  
TM 524,143. (See TM 226,693.)  
TM 524,389. (See TM 226,693.)  
TM 525,001. (See TM 226,693.)  
TM 526,246. (See TM 226,693.)  
TM 528,288. (See TM 226,693.)  
TM 529,040. (See TM 226,693.)  
TM 529,353. (See TM 226,693.)  
TM 530,555. (See TM 226,693.)

CONDITION OF TRADEMARK APPLICATIONS AS OF JULY 8, 1955

Total number of applications awaiting action (excluding renewals and republications).....10, 779

Date of oldest new application.....Feb. 1, 1955

Date of oldest amended application.....Feb. 1, 1955

MERCHANT, JOHN, Executive Examiner		Oldest Application	
TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION		New	Amended
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....		2-1-55	2-14-55
II. SHRYOCK, R. F. (Acting), Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....		2-1-55	2-2-55
III. WENDT, C. M. (Acting), Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.		2-1-55	2-1-55
Renewals (All Classes).....		5-15-55	6-7-55
Republications (All Classes).....		5-1-55	4-27-55

Applications Filed During Week Ended July 8, 1955—323

Registrations Issued.....404—No. 609,754 to No. 610,157

Renewals Issued.....58



TM 531,440. (See TM 226,693.)  
 TM 532,724. (See TM 226,693.)  
 TM 544,488. (See TM 226,693.)  
 TM 545,822. (See TM 226,693.)  
 TM 545,866. (See TM 226,693.)  
 TM 548,964. (See TM 226,693.)  
 TM 549,796. (See TM 226,693.)  
 TM 550,934. (See TM 226,693.)  
 TM 563,528. (See TM 226,693.)  
 TM 586,026. (See TM 226,693.)

TM 589,608 (Hoyt's Cologne), Hoyt Co., Inc., Cologne;  
 TM 600,126 (Hoyt's Dime Cologne), same; TM 46,216 ("F.  
 Hoyt & Co." and design), same, Perfumery, filed May 21,  
 1955, D. C., W. D. S. C. (Greenville), Doc. 1764, *Hoyt Co.,  
 Inc. v. Hoyt Sullivan*.

TM 593,985 ("Crest Hy Lo Base Protein Calorie" and  
 design), Crest Foods Co., Food preparation ingredients suit-  
 able for use in preparing frozen foods and in dairy products,  
 filed May 31, 1955, D. C., N. D. Calif. (Sacramento), Doc.  
 7248, *Crest Foods Co. v. Milk Foods, Inc.*

TM 595,656. (See TM 328,194.)

TM 600,126. (See TM 589,608.)

## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of oppo-  
 sition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.  
 As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 2

SN 631,484. Graver Tank & Mfg. Co., Inc., East Chicago, Ind.  
 Filed June 20, 1952. Sec. 2(f).

**GRAVER**

For Fabricated Metal Tanks or Containers—Namely, Pres-  
 sure and Non-Pressure Tanks or Containers, for the Storage  
 and Transportation of Liquids, Solids, and Gases, Such as:  
 Water, Gasoline, Oil, Natural Gas, Grain, Molasses, Chem-  
 icals and the Like, and Parts Thereof.  
 Use since on or about Jan. 27, 1922.

SN 659,377. Tilton & Cook Co., Leominster, Mass. Filed  
 Jan. 12, 1954.

**TILCO**

For Receptacles Made of Plastic Material—Namely, Soap  
 Boxes, Toothbrush Holders in the Shape of a Box, and Cases  
 for Holding Various Articles of Merchandise.

Use since May 1950 on soap boxes and toothbrush holders  
 in the shape of a box.

SN 666,886. Tupper Corporation, Farnumville, Mass. Filed  
 May 21, 1954.

*Welcome Ware*

The word "Ware" is disclaimed apart from the mark as  
 shown.

For Plastic Bowls, Canisters, and Tumblers.  
 Use since July 1, 1953.

SN 674,254. Inland Container Corporation, Indianapolis,  
 Ind. Filed Oct. 4, 1954.

**Sixtripper**

Applicant claims ownership of Reg. Nos. 532,483 and  
 543,980.

For Beer Cases and Cartons Made of Fibreboard.  
 Use since July 15, 1953.

SN 674,872. Container Ring Co., Inc., Bound Brook, N. J.  
 Filed Oct. 15, 1954.

**CAM-LOX**

For Ring Type Closures for Fastening Barrel Heads to  
 Barrels.

Use since Aug. 20, 1954.

SN 675,791. The Hi-Jac Company, Fort Payne, Ala. Filed  
 Nov. 1, 1954.

*Lo-Jacs*

For Moisture-Absorbent Fabric Covers in the Nature of  
 Coasters for Drinking Glasses.  
 Use since Dec. 28, 1934.

SN 675,882. Flor-Will Cupkeepers, Carmel, Calif. Filed Nov.  
 2, 1954.

**Cupkeep**

For Containers in the Form of Racks for Cups and Dishes.  
 Use since Oct. 25, 1954.

SN 676,862. Belle Point Manufacturing Company, Fort  
 Smith, Ark. Filed Nov. 18, 1954.

**BEL-PAK**

For Display Box for Garments.  
 Use since Aug. 21, 1954.

SN 678,116. International Molded Plastics, Inc., Cleveland,  
 Ohio. Filed Dec. 10, 1954.

*allegro*

For Plastic Dinner Dish Ware—Namely, Cups, Saucers,  
 Plates, Bowls, Platters, Pitchers, and Serving Pieces.  
 Use since on or about Oct. 13, 1954.

SN 684,002. Bernard B. Workman, d. b. a. Workman-Powell,  
 New York, N. Y. Filed Mar. 22, 1955.

**w.p.**  
**WORKMAN-POWELL**

For Packaging Cartons and Bags.  
 Use since June 8, 1954.



SN 684,353. Standard Oil Company of California, Wilmington, Del. Filed Mar. 28, 1955.

## PRESSURE PRIMER

For Metal Containers for Chemical Compounds of High Volatility.

Use since June 23, 1949.

### CLASS 4

SN 679,153. Grin Chemical Corporation, Pasadena, Calif. Filed Dec. 30, 1954.

# 7-11

For Automobile Polish.  
Use since Dec. 7, 1954.

SN 679,155. Grin Chemical Corporation, Pasadena, Calif. Filed Dec. 30, 1954.

## GRIN

Applicant claims ownership of Reg. No. 178,401.  
For Automobile Polish.  
Use since Dec. 30, 1922.

### CLASS 6

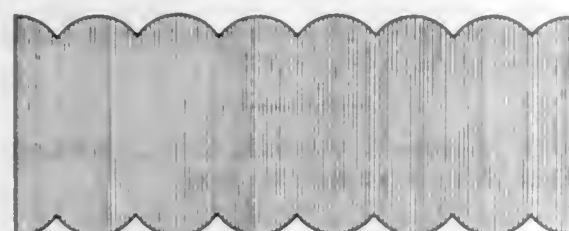
SN 652,414. L. H. Kellogg Chemical Co., Minneapolis, Minn. Filed Aug. 27, 1953.

## Thrombex-Heparin

The word "Heparin" is disclaimed apart from the mark as shown.

For Anti Coagulant Chemical Used in Embalming Fluids.  
Use since July 2, 1953.

SN 656,204. The Carey Salt Company, Hutchinson, Kans. Filed Nov. 12, 1953.



The lining is for red. Applicant claims ownership of Reg. Nos. 541,271, 186,970, and others.

For Sodium Chloride—Namely, Water Softener Salt, Thawing Salt for Ice Cream and Sidewalks, General Purpose Salt, All Grades of Rock Salt, and Flake Salt for General Purposes.  
Use since March 1953.

SN 659,177. Corporation of New Melleray, d. b. a. Abbey of Our Lady of New Melleray, Peosta, Iowa. Filed Jan. 8, 1954.



No claim is made to the right to the exclusive use of "Trappist Incense" apart from the mark as shown.

For Incense.  
Use since Nov. 24, 1953.

SN 659,178. Corporation of New Melleray, d. b. a. Abbey of Our Lady of New Melleray, Peosta, Iowa. Filed Jan. 8, 1954.



No claim is made to the right to the exclusive use of "Trappist Incense" apart from the mark as shown.

For Incense.  
Use since Oct. 27, 1953.

SN 659,179. Corporation of New Melleray, d. b. a. Abbey of Our Lady of New Melleray, Peosta, Iowa. Filed Jan. 8, 1954.



No claim is made to the right to the exclusive use of "Trappist Incense" apart from the mark as shown.

For Incense.  
Use since Dec. 10, 1953.

SN 671,911. Rubber and Asbestos Corp., Bloomfield, N. J. Filed Aug. 18, 1954.

## ISOPLAST

For Liquid Resins and Elastomers Formed by Thermal and Catalytic Action on Natural and Synthetic Rubber—Namely, Liquid Polybutadiene, Liquid Copolymers of Butadiene and Acrylonitrile; and Compounds and Combinations Thereof With Modifiers Such as Accelerators, Antioxidants, Pigments, and Resins; and Liquid Resins and Elastomers Being in the Form of Thermoplastic and Thermosetting Compositions Which May Be Mixed With Solids To Be Empirical Solids or Dissolved or Dispersed in Water or Organic Solvents, for Use in Coating, Sealing, Casting, and Potting of Electronic Equipment, Laminating, Tank Lining, in Contact With Such Materials as Textile Fabrics, Leather, Rubber, Metal, Wood, Paper, Glass, Tile, Ceramic Material, Bristles, Cork, and Similar Materials.

Use since Oct. 30, 1953.

### CLASS 8

SN 658,498. Zippo Manufacturing Co., Bradford, Pa. Filed Dec. 23, 1953.

# Barcroft

For Pyrophoric Lighter for Cigarettes, Cigars, Pipes, and Similar Articles.

Use since Oct. 25, 1953.

### CLASS 12

SN 681,678. Cool-Temp Awning Company, Inc., Oklahoma City, Okla. Filed Feb. 15, 1955.



For Permanent Awnings Made of Metal, Wood, or Plastic.  
Use since Dec. 15, 1954.

SN 682,950. Masonite Corporation, Chicago, Ill. Filed Mar. 7, 1955.

## MICADYNE

For Decorative Construction Product in Which Decorative Laminates Are Applied to Bases Such as Hardboard, Fiber Board, Insulating Board, Composite Board, Construction Board, and Synthetic Lumber or Artificial Lumber Used for Various Construction Purposes.

Use since Aug. 27, 1954.

### CLASS 15

SN 661,456. The Ironsides Company, Columbus, Ohio. Filed Feb. 23, 1954.



Applicant claims ownership of Reg. Nos. 39,047 and 528,810.

For Lubricant for Use in Metal-Rolling Operations.  
Use since April 1953.

### CLASS 16

SN 637,341. Wachtel Laboratories, Inc., San Jose, Calif., to Kerostal Products Company, San Francisco, Calif. Filed Oct. 29, 1952.



For Paints.  
Use since September 1952.

SN 637,796. Stevens & Oliver, Tampa, Fla. Filed Nov. 7, 1952.



For Quartz and Pigment Compound.  
Use since Nov. 1, 1952.



SN 652,129. Phoenix Metal Cap Co., Inc., Chicago, Ill. Filed Aug. 21, 1953. SN 667,755. Leslie C. Ward, Altadena, Calif. Filed June 4, 1954.

## GLAZECOTE

For Liquid Enamels.  
Use since July 29, 1953.

SN 667,946. Finishline Laboratories, Inc., Syracuse, N. Y. Filed June 9, 1954.

## LUBRISOL

For Liquid Preparation (Known Technically in the Trade as a French Polishing and Padding Liquid) Used in Repairing Damaged Surface Finishes on Furniture.  
Use since January 1938.

SN 677,525. Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Filed Nov. 30, 1954.

## TARSET

For Bituminous Coatings.  
Use since Oct. 7, 1954.

SN 678,169. Robert Van Worp, d. b. a. Plastiq Finishes Co., Matawan, N. J. Filed Dec. 10, 1954.

## ROL-LATEX

For Emulsion Based Paint for Application to Various Types of Wall Surfaces, Both Interior and Exterior.  
Use since Mar. 15, 1954.

SN 681,321. Advance Solvents & Chemical Corporation, New York, N. Y. Filed Nov. 17, 1954.

## ADVASOL

For Tallate and Linoresinate Paint Driers.  
Use since 1942.

SN 682,102. Allentown Paint Manufacturing Company, also d. b. a. The Allentown Paint Mfg. Co., Allentown, Pa. Filed Feb. 23, 1955. Sec. 2(f).

## SPE-D-DRI

For Varnish Stain and Enamel.  
Use since May 17, 1929.

### CLASS 18

SN 657,006. Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), Germany. Filed Nov. 27, 1953.

## Kollidon

For Vinyl Polymerisate for Use as Ingredient for Pharmaceutical Preparations.  
Use since Nov. 20, 1950.



Applicant hereby disclaims the word "Vitamins."  
For Vitamin Mineral Food Supplement.  
Use since Mar. 8, 1954.

SN 670,428. Lamb & Berlin, Inc., Silver Spring, Md. Filed July 22, 1954.

## VAPACON

For Vaporizing Solution Intended for the Relief of Irritated Air Passages Resulting From Colds, Etc., for Use in Electric Vaporizers.  
Use since Feb. 8, 1954.

SN 676,386. Merck & Co., Inc., Rahway, N. J. Filed Nov. 10, 1954.

## MULSAFACT

For Medicinal Preparation Containing Vitamins and Other Nutrient Substances for Use in the Prevention and Treatment of Metabolic Deficiencies.  
Use since Oct. 11, 1954.

SN 676,906. Pan Pharmaceuticals, Inc., New York, N. Y. Filed Nov. 18, 1954.

## BER-EX

For Pharmaceutical Preparation Effective as an Analgesic and Antipyretic, and in the Relief of Pain and Discomfort Associated With Simple Headaches, Neuralgias, Head Colds, Dental Work and Normal Menstruation, and the Various Forms of the Rheumatoid State Including Rheumatism, Arthritis, Rheumatic Fever, Certain Forms of Scleritis and Neuritis, Bursitis, Fibrositis, Myositis and Lumbago, and in the Prevention of Morning-After Distress.  
Use since Sept. 12, 1951.

SN 678,605. Dahn Pharmaceuticals, Inc., Bayside, N. Y. Filed Dec. 20, 1954.

## DALIDERM

For Lotion for the Relief of Fungus Infections, Ringworm, and Other Minor Irritations.  
Use since Mar. 26, 1953.

SN 678,657. Merck & Co., Inc., Rahway, N. J. Filed Dec. 20, 1954. SN 679,510. B-M-R Laboratories, Inc., Atlanta, Ga. Filed Jan. 6, 1955.

## PENBENEMID

Applicant claims ownership of Reg. Nos. 547,248 and 567,175.  
For Penicillin Containing Preparation for Use in Antibacterial Therapy.  
Use since Nov. 24, 1954.

SN 678,709. Clark-Cleveland, Incorporated, Binghamton, N. Y. Filed Dec. 21, 1954.

## MOTOL

For Preparation for the Relief of Motion Sickness.  
Use since Dec. 8, 1954.

SN 678,741. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed Dec. 21, 1954.

## Fibrindex

For Thrombin.  
Use since Oct. 8, 1954.

SN 679,087. Dumas-Wilson & Co., St. Louis, Mo. Filed Dec. 29, 1954.

## GLUTACAINE

For Tablet for Relief of Nausea.  
Use since Dec. 7, 1954.

SN 679,258. Abbott Laboratories, North Chicago, Ill. Filed Jan. 3, 1955.

## RACHROMATE

For Radioactive Sodium Chromate for Use in Diagnostic Procedures.  
Use since Oct. 6, 1954.

SN 679,259. Abbott Laboratories, North Chicago, Ill. Filed Jan. 3, 1955.

## AUROSEED

For Radioactive Gold Implants for Medicinal Use in Radiation Therapy.  
Use since Oct. 11, 1954.

SN 679,261. Abbott Laboratories, North Chicago, Ill. Filed Jan. 3, 1955.

## COMBUTHAL

For Hypnotic, Sedative, Anesthetic Compound.  
Use since Dec. 3, 1954.

## DEX-MINT

For Medicinal Preparation, in Tablet Form, Furnishing Dextrose for Use as a Dietary Food Supplement.  
Use since Nov. 18, 1954.

SN 679,778. Hoffmann-La Roche Inc., Nutley, N. J. Filed Jan. 12, 1955.

## ROMIZIL

Applicant claims ownership of Reg. No. 566,989.  
For Antilepteric Agent.  
Use since Dec. 30, 1954.

SN 679,822. G. W. Carnrick Co., Newark, N. J. Filed Jan. 13, 1955.

## BALVIS

For Medicinal Antacid Preparation for the Relief of Gastric Hyperacidity.  
Use since Oct. 15, 1954.

SN 679,848. Jensen-Salsbery Laboratories, Inc., Kansas City, Mo. Filed Jan. 13, 1955.

## Biovita

For Vitamin Preparation for Veterinary Use.  
Use since Oct. 29, 1954.

SN 680,249. Brayten Pharmaceutical Company, Chattanooga, Tenn. Filed Jan. 21, 1955.

## neo Brom

Applicant claims ownership of Reg. No. 560,781.  
For Medicinal Preparation Used in the Treatment of Pre-Menstrual Tension.  
Use since Dec. 30, 1954.

SN 680,383. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Jan. 24, 1955.

## Genobarb

For Pharmaceutical Preparation for the Treatment of Peptic Ulcer, Hyperchlorhydria, Pylorospasm, Hyperperistalsis and Reflex Spasticity of the Colon, Diarrhea Due to Hypermotility, Spastic Conditions of the Urogenital Tract—Indicated Where Anticholinergic Action Is Required.  
Use since Dec. 16, 1954.

SN 680,403. Nordmark-Werke Gesellschaft mit Beschränkter Haftung, Hamburg, Germany. Filed Jan. 24, 1955.

## REGULTON

For Preparations for the Treatment of Hypertension, Arteriosclerosis, and Arteriosclerosis Heart Diseases.  
Use since Nov. 23, 1954.



SN 680,431. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

# Escap

For Pharmaceutical Preparations for the Treatment of Hormonal Insufficiencies and Dysfunctions, Pharmaceutical Preparations for the Treatment of Bacterial Infections, and Pharmaceutical Preparations for the Treatment of Nutritional and Vitamin Deficiencies.  
Use since Mar. 24, 1954.

SN 680,435. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 24, 1955.

# Estube

For Antibiotic Preparations, Antibiotic Ointments, and Ophthalmic Preparations for the Treatment of Bacterial Infections.  
Use since Mar. 24, 1954.

SN 680,617. Roy S. Lodolyn, d. b. a. Lodolyn Drug Co., Lakewood, Ohio. Filed Jan. 27, 1955.

## R - THRI - TABS

For Medicinal Preparation in Tablet Form for the Relief of Pains Due to Muscular Aches, Headaches, Arthritis, and Rheumatism.  
Use since Dec. 20, 1954.

### CLASS 19

SN 648,383. Fiat Societa per Azioni, Turin, Italy. Filed June 8, 1953.

# CAMPAGNOLA

Applicant claims ownership of Italian Reg. No. 107,492, dated May 24, 1952.

For Road Vehicles—Namely, Motor Cars, Trucks, Lorries, and Buses.

SN 661,654. Mitchell Maintenance Company, Inc., Muncie, Ind. Filed Feb. 25, 1954.

# LIFT-A-LOFT

The word "Lift" is disclaimed apart from the mark as shown.

For Overhead Maintenance Apparatus Comprising an Industrial Truck Having a Maintenance Platform Carried by Elevating and Traversing Mechanism Thereon.  
Use since Oct. 1, 1952.

SN 666,717. Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Filed May 20, 1954. Sec. 2(f).

## Bendix-Westinghouse

Applicant claims ownership of Reg. No. 396,467.  
For Automotive Vehicle Braking Systems Comprising Air Compressors and Control Valves Therefor, Brake Control Valves, Air Pressure Reservoirs and Control Valves Therefor, Brake Chambers of the Differential Air Pressure Type, and Brake Slack Adjusters.  
Use since in August 1931.

SN 666,923. E. & A. Braid Corp., New York, N. Y. Filed May 24, 1954.

## "VISOR-GRIP"

For Compartmented, Elastic, Article Holding Attachment for Automobile Visors.  
Use since on or about Feb. 8, 1954.

SN 679,885. Armstrong Cycles Limited, Oldbury, near Birmingham, England. Filed Jan. 14, 1955. Sec. 2(f).

## Armstrong

For Pedal-Driven Bicycles.  
Use since 1920.

SN 680,962. The Metropolitan Body Company, Bridgeport, Conn. Filed Feb. 2, 1955.

## METROETTE

Applicant claims ownership of Reg. No. 345,861.  
For Commercial Motor Vehicles.  
Use since Dec. 30, 1954.

SN 682,094. The Zeller Corporation, Defiance, Ohio. Filed Feb. 21, 1955.

## Zelair

For Cowl Mountings for Absorption of Shock and Vibration in Aircraft.  
Use since June 28, 1954.

SN 682,858. Arnold, Schwinn & Co., Chicago, Ill. Filed Mar. 7, 1955.

## Schwinn Skipper

Applicant claims ownership of Reg. Nos. 407,574, 526,131, and 574,813.

For Bicycles.  
Use since Sept. 18, 1952.

SN 685,902. General Dynamics Corporation, San Diego, Calif. Filed Apr. 20, 1955.

## GD

GENERAL DYNAMICS

For Airplanes.  
Use since Dec. 23, 1954.

SN 685,903. Glostex Products, Inc., Chicago, Ill. Filed Apr. 20, 1955.

# Cavalier

For Automobile Seat Covers.  
Use since May 10, 1953.

SN 686,106. Leona S. Shimabukuro, Chicago, Ill. Filed Apr. 22, 1955.



For Wind and Rain Guards for Baby Strollers.  
Use since Mar. 5, 1955.

SN 686,297. Ford Motor Company Limited, London, England. Filed Apr. 26, 1955.

## Zodiac

For Passenger Automobiles and Structural Parts Thereof.  
Use since Oct. 21, 1953.

### CLASS 21

SN 665,896. Ross Alan Davis, Los Angeles, Calif. Filed May 7, 1954.

## NO-TENNA

For Radio Antennas.  
Use since Mar. 7, 1954.

SN 668,419. Kurt Versen Company, Englewood, N. J. Filed June 17, 1954.

## HOSPITALITY LIGHT

The word "Light" is disclaimed apart from the mark as shown.  
For Electrical Lighting Fixture.  
Use since Sept. 27, 1948.

SN 668,798. The Truetite Corporation, Bridgeport, Conn. Filed June 23, 1954.

## BLUE LIGHTNING

For Voltage Boosting and Spark Intensifying Device.  
Use since Feb. 15, 1954.

TM 697 O. G.—2

SN 672,701. Tasco Products, Inc., Brooklyn, N. Y. Filed Sept. 2, 1954.

# Tasco

Applicant claims ownership of Reg. Nos. 212,467 and 430,249.

For Automotive Starting, Lighting, and Ignition Parts—Namely, Contact Points, Condensers, Distributor Parts, Coils, Voltage Regulators, Brushes, Generator Parts, Horn Relays, Horn Buttons, Light Relays, and Various Switches.  
Use since on or about Apr. 9, 1918.

SN 675,414. Mueller Electric Company, Cleveland, Ohio. Filed Oct. 25, 1954.



The word "Clip" is disclaimed apart from the mark as shown.

For Electrical Connecting Clips.  
Use since Aug. 26, 1954.

SN 680,068. Dormeyer Corporation, Chicago, Ill. Filed Jan. 18, 1955.

## Edge-Well

For Electrically Operated Knife and Scissor Sharpeners, and Parts Thereof.  
Use since July 1, 1954.

SN 680,199. Laboratory of Electronic Engineering, Inc., Washington, D. C. Filed Jan. 20, 1955.

## CATENOID

For High Fidelity Loudspeakers and Enclosures for Electrical Reproduction of Sound.  
Use since on or about Mar. 4, 1954.

SN 680,651. Aircraft-Marine Products, Inc., Harrisburg, Pa. Filed Jan. 28, 1955.

## Ampli-Bond

For Electrical Connectors.  
Use since Oct. 10, 1953.

SN 681,107. Sanders Associates Incorporated, Nashua, N. H. Filed Feb. 4, 1955.

## TRI-PLATE

For Microwave Transmission Lines, Antennae, Coupling Devices, Mode Transducers, Terminating Devices, and Attenuators.  
Use since Jan. 27, 1955.



SN 683,446. Southern Electrical Corporation, Chattanooga, Tenn. Filed Mar. 14, 1955.

# Compresto

For Bare and Insulated Stranded Metallic Conductors Having Smooth Outer Surfaces.  
Use since Nov. 8, 1954.

SN 683,481. Burnell & Co., Inc., Yonkers, N. Y. Filed Mar. 15, 1955.

## AdjustoroiD

For Inductors.  
Use since Mar. 7, 1955.

SN 683,495. General Bronze Corporation, Garden City, N. Y. Filed Mar. 15, 1955.

# MAGNE-TENNA

For Television Antennas.  
Use since Feb. 23, 1955.

### CLASS 22

SN 660,053. Myla Products, Inc., Burbank, Calif. Filed Jan. 25, 1954.

# "Swim-Bol"

For Aquatic Swimming Aid and Trainer in the Form of a Floatable Element With Hand-Grasping Members Thereon.  
Use since Feb. 7, 1953.

SN 660,926. The Dot Line Company, New Bedford, Mass., to The Continental Elastic Corporation, New Bedford, Mass. Filed Feb. 11, 1954.

# Silver Dot

Applicant claims ownership of Reg. No. 518,330.  
For Fishlines.  
Use since Sept. 9, 1953.

SN 661,840. Edouard D. Sitbon, Astoria, N. Y. Filed Mar. 1, 1954.

# MINERVA

*The Spinning Beauty*

For Fishing Tackle—Namely, Rods, Reels, Lines, Artificial Lures, Flies, Hooks, and Spears.  
Use since Dec. 29, 1953.

SN 664,570. David C. Trager, d. b. a. Topic Toys, Chicago, Ill. Filed Apr. 14, 1954.

# KATCHETT

For Game Comprising a Basket With a Ball Attached Thereto by a Flexible Resilient Member.  
Use since Mar. 8, 1954.

SN 665,640. Putt-Master Company, Phoenix, Ariz., to L & S Sales Company, Phoenix, Ariz. Filed May 3, 1954.

# PUTT-MAKER

For Golf Putters.  
Use since Jan. 17, 1953.

SN 666,858. Henry R. Miller, d. b. a. Western World Playing Card Co., St. Louis, Mo. Filed May 21, 1954.

# Western World

For Playing Cards.  
Use since Feb. 18, 1954.

SN 667,485. White Stag Manufacturing Company, d. b. a. Hirsch-Wels Canvas Products Co., Portland, Ore. Filed June 1, 1954.

# White Stag

For Sporting Goods—Namely, Sleeping Bags and Fish Creels.  
Use since on or about Mar. 1, 1951.

SN 669,507. Felix Terrier, Payerne, Canton of Vaud, Switzerland. Filed July 6, 1954.

# FILVIT

For Fishing Tackle—Namely, Reels and Lures.  
Use since Feb. 27, 1954.

SN 672,285. Great Lakes Products, Inc., Lexington, Mich. Filed Aug. 26, 1954.

# Whirlaway 75

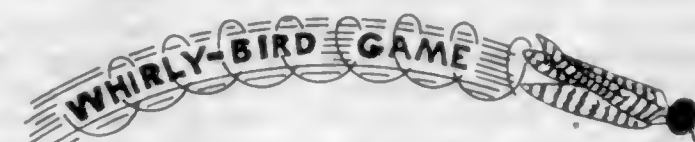
For Fishing Reels.  
Use since Feb. 19, 1954.

SN 672,874. Devere Enterprises, Jacksonville, N. C. Filed Sept. 8, 1954.



Exclusive use of the word "Engines" is disclaimed apart from the mark as shown.  
For Model Airplane Engines.  
Use since July 15, 1954.

SN 675,796. Innovation Industries, Inc., Chicago, Ill. Filed Nov. 1, 1954.



For Game Set Comprising Wood Paddles, Moveable or Revolving Targets, and Darts.  
Use since November 1953.

SN 675,926. Terri Lee Sales Corporation, Apple Valley, Calif. Filed Nov. 2, 1954.

# Terri Lee

Applicant claims ownership of Reg. No. 504,300.  
For Clothing for Dolls.  
Use since July 15, 1948.

SN 676,304. Carnell Manufacturing Co. Inc., Brooklyn, N. Y. Filed Nov. 9, 1954.

# SILVER SPUR

For Toy Pistol and Holster Sets.  
Use since Apr. 15, 1954.

SN 676,550. Standard Toykraft Products, Inc., Brooklyn, N. Y. Filed Nov. 12, 1954.

# CLAYDOODLE

For Clay Modeling Sets of the Toy Type.  
Use since on or about Mar. 8, 1954.

SN 678,694. United Aircraft Supply Corporation, d. b. a. U. A. S. Corp., Chicago, Ill. Filed Dec. 20, 1954.



For Equipment for Underwater Diving and Swimming—Namely, Air Tanks, Air Regulators, Buoys and Position Markers, and Body Harnesses.  
Use since Oct. 15, 1954.

SN 679,279. Evans Case Co., North Attleboro, Mass. Filed Jan. 3, 1955.

# Sea Serpent

For Artificial Fishing Lures.  
Use since in October 1954.

SN 679,401. Marathon Battery Company, d. b. a. Marathon Battery Company, Wausau, Wis. Filed Jan. 4, 1955.

# MARATHON

For Fishing Lures.  
Use since in January 1930.

SN 679,460. Fish-A-Matic, Inc., Westville, N. J. Filed Jan. 5, 1955.

# FISH A MATIC

For Fishing Rod Holder.  
Use since Aug. 28, 1954.

SN 679,579. William Hodes, New York, N. Y. Filed Jan. 7, 1955.



For Stuffed Mouse Toy Which May Be Animated by One's Finger.  
Use since August 1953.

SN 679,585. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.

# "American Industry"

For Educational and Scientific Hobby Kits, Specifically Weather Kits and Optical Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Mar. 1, 1954.

SN 679,586. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.

# "American Industry"

For Educational and Scientific Hobby Kits, Specifically Electronics Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Mar. 1, 1954.



SN 679,587. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.

## "American Industry"

For Educational and Scientific Hobby Kits, Specifically Geology Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.

Use since Mar. 1, 1954.

SN 679,596. Harry Mayer, d. b. a. Jigale Puzzles, New York, N. Y. Filed Jan. 7, 1955.

## JIGTALE

For Children's Puzzles.  
Use since Apr. 15, 1954.

SN 680,362. The Cartrol Corporation, Kansas City, Mo. Filed Jan. 24, 1955.

## KORKER

For Toy Miniature Furniture and House Components in Kit Form.  
Use since Nov. 21, 1954.

SN 680,764. Helen M. Lowe, d. b. a. Genii Lures, Roberts Creek, British Columbia, Canada. Filed Jan. 31, 1955.



Applicant claims ownership of Canadian Reg. No. N. S. 100,046, dated Dec. 17, 1954.  
For Fishing Lures.

### CLASS 23

SN 650,608. Triangle Package Machinery Company, Chicago, Ill. Filed July 21, 1953. Sec. 2(f).

## BAGBY

For Container Filling Machines.  
Use since on or about Apr. 15, 1933.

SN 652,726. Alfried Krupp von Bohlen und Halbach, d. b. a. Fried. Krupp, Essen, Germany. Filed Sept. 3, 1953.

## Widia

Applicant claims ownership of German Reg. No. 351,828, dated May 6, 1926, and No. 470,849, dated Nov. 20, 1934.  
For Tips for Cutting Tools, Tool Holders, Hand and Machine Tools for Working Metals, Wood, and Fabricated

Materials—Namely, Turning and Planing Tools, Milling Cutters, Drills, Scrapers, Reamers, Draw Plates and Drawing Dies for Wire Drawing Machines and Extrusion Presses, Screw Plates, Screw-Cutting Dies, Screw Taps and Screwing Tools for Lathes, Boring Crowns, Punchers, Rolling Mandrels, Coining Dies, Chisels for Coal-Cutting Machines, Knives and Knife Blades, Scissors, Knife-Edges and Bearings for Same, Scribes, Nozzles for Sandblowers and Centrifugal Sand Pump Units, and Valves for Internal Combustion Engines.

SN 653,953. Baldwin-Lima-Hamilton Corporation, Eddystone, Pa. Filed Sept. 30, 1953. Sec. 2(f).

## HAMILTON

Applicant claims ownership of Reg. No. 138,026.  
For Corliss Steam-Engines, Poppet-Valve Steam-Engines, Uniflow Steam-Engines, Marine Steam-Engines, Blowing and Pumping Engines, Diesel Engines, Dual Fuel Engines, Internal-Combustion Engines, Stamping and Forming Presses, Strip-Feed Presses, Sugar-Mills, Rolling Mills, Can Making Machinery and Plate-Glass Grinding and Polishing Machinery.  
Use since 1883 on steam engines.

SN 657,597. Bossong-Werk G. m. b. H., Lintorf, Duesseldorf, Germany. Filed Dec. 8, 1953.

## Tornado

Applicant claims ownership of German Reg. No. 638,168, dated May 13, 1953.

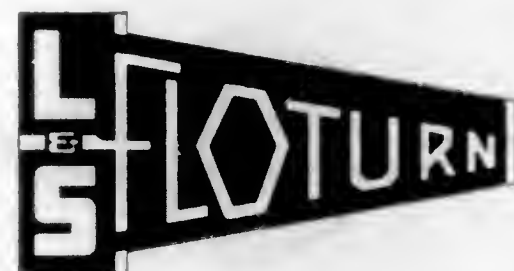
For Device for Driving Steel Bolts Into Walls, Concrete, and Iron.

SN 659,230. Atlas Elevator and Lift Company, St. Joseph, Mich. Filed Jan. 11, 1954.

## HY'LO

For Hydraulic Elevators and Lifts Mounted in Buildings, and Components and Parts Thereof, Including Tubes, Pistons, Cylinders, Pump, Stationary Elevator Controls of Electrical Automatic Type or Manual Type, Elevator Doors, Elevator Cages or Cabs, and Elevator Guides.  
Use since Nov. 1, 1950.

SN 660,337. The Lodge & Shipley Company, Cincinnati, Ohio. Filed Jan. 29, 1954.



For Metal-Working Machinery for Forming a Hollow Article From a Blank.  
Use since June 2, 1953.

SN 662,619. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Filed Mar. 15, 1954.

## FER-MAG

For Bimetallic Articles—Namely, Internal Combustion Engines and Pump Cylinders, Journal Bearings, Pistons, Gears, Engine Driven Compressor and Fan Blades, Vanes, and Housings.

Use since on or about Feb. 12, 1954.

SN 663,821. Onelda Ltd., Onelda, N. Y. Filed Apr. 2, 1954.

## CELEBRITY

For Stainless Steel Flat Tableware.  
Use since May 11, 1953.

SN 665,339. Anderson Bros. Manufacturing Co., Rockford, Ill. Filed Apr. 28, 1954. Sec. 2(f).

## Anderson

For Metal-Working Machines—Namely, Manually and Power Operated Scrapers and Manually and Power Operated Straightening Presses; Packaging Equipment—Namely, Manually and Power Operated Filling and Capping Machines for Filling Containers Such as Cups With Plastic Material Such as Ice Cream, Cottage Cheese, and the Like and for Capping the Same; Bagging Machines for Bagging Small Articles and Machines for Filling and Closing Cartons With Plastic Material Such as Ice Cream and the Like; Molds for Making Frozen Confections; Manually and Power Operated Mold Fillers for Filling Frozen Confection Molds and Attachments Therefor Including Nozzle Plates, Nozzles, Hoppers, Slides, Baskets and Gears; Stick Holders for Holding Sticks in Confection Molds; Machines for Loading Sticks in Stick Holders; Ice Cream Sandwich Making Machines; Ice Cream Bar Making Machines; and Ice Cream Brick Cutters.  
Use since on or about Feb. 1, 1926.

SN 665,507. Lincoln Engineering Company, St. Louis, Mo. Filed Apr. 30, 1954.

## CHASSISLUBER

Applicant claims ownership of Reg. Nos. 231,354, 586,506, and others.

For Lubricant Dispensing Apparatus of the Pump Type.  
Use since Mar. 15, 1954.

SN 665,508. Lincoln Engineering Company, St. Louis, Mo. Filed Apr. 30, 1954.

## GEARLUBER

Applicant claims ownership of Reg. Nos. 231,354, 586,506, and others.

For Lubricant Dispensing Apparatus of the Pump Type.  
Use since Mar. 15, 1954.

SN 665,813. Gaines-Collins, Los Angeles, Calif. Filed May 6, 1954.

## THREDOMATIC

For Machines for Chucking, Threading, and Cutting Pipe.  
Use since Jan. 1, 1949.  
Subj. to Intf. with Reg. No. 598,125.

## INTERNATIONAL

Applicant claims ownership of Reg. Nos. 103,340, 407,354, and others.

For Material Handling Equipment—Namely, Tractor Mounted and Wheeled Land Scrapers, Grader Blades, Tractor and Dozer Shovels, Dozer Blades, Tractor Loaders, Rippers, Land-Clearing Rakes, Cable and Hydraulic Controlled Power Units for Operating and Adjusting Said Material Handling Equipment and Structural Parts Thereof.  
Use since Dec. 23, 1953.

SN 667,483. Wells Manufacturing Company, South Bend, Ind. Filed June 1, 1954.

## WELLITE

For Blocking Used by Photo-Engravers and Electrotypers To Mount Metal Engraved Plates and Electrotyping Plates, and Die Mounting Boards Used by Box Manufacturers.  
Use since Feb. 16, 1954.

SN 667,700. Industrial Molasses Corporation, Leonia, N. J. Filed June 4, 1954.

## THERMO LASS

For Machinery for Transferring and Dispensing Molasses.  
Use since Feb. 15, 1954.

SN 668,134. Yeomans Brothers Company, Melrose Park, Ill. Filed June 11, 1954.

## PACKEX

For Pumps for Conveying Solids, Liquids, Semi-Liquids, and Gases, and Controls Therefor, and Pneumatic Ejectors.  
Use since Feb. 15, 1954.

SN 668,371. Godfrey L. Cabot, Inc., Boston, Mass. Filed June 17, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 518,879.  
For Pumping Unit for Lifting and Operating the Pump Rod That Connects to the Piston of the Pump.  
Use since June 29, 1946.

SN 668,566. Robert B. Lolbl, Jr., d. b. a. Pest Control Products Co., Los Angeles, Calif. Filed June 21, 1954.

## HYDROMOTOR

For Insecticide Sprayers for Outdoor Use.  
Use since Mar. 10, 1954.



SN 668,747. Harrington Manufacturing Company, Inc., Lewiston, N. C. Filed June 23, 1954.

# ROANOKE

For Farm Machinery—Namely, Automatic Hay Balers, Stationary Hay Balers, and Peanut Pickers.  
Use since March 1946 on stationary hay balers.

SN 669,533. Deutsche Edelstahlwerke Aktiengesellschaft, Krefeld, Germany. Filed July 7, 1954.

# MARATHON

For Cold Pressing Rolls and Machinery Rollers of Steel and Sintered Hard Metal Carbide Alloys.  
Use since Jan. 11, 1927.

SN 670,477. Greer Marine Corporation, Brooklyn, N. Y. Filed July 23, 1954.

# HYDRO-HATCH

For Hydraulically Controlled Hatch Covers.  
Use since Mar. 22, 1954.

SN 673,598. Kruger Products, Detroit, Mich. Filed Sept. 22, 1954.

# MIRA-SPIN

For Paint Brush and Roller Cleaning Appliance.  
Use since Sept. 15, 1954.

SN 673,744. The E. Horton & Son Company, Windsor Locks, Conn. Filed Sept. 24, 1954. Sec. 2(f).

# MOTOROLLER

For Power-Actuated Surface Rollers, and Accessories Therefor.  
Use since Mar. 18, 1949.

SN 673,851. National Pneumatic Company, Inc., Boston, Mass. Filed Sept. 27, 1954.

# economomatic

For Automatic Door Operators.  
Use since Sept. 14, 1954.

SN 674,069. Goodman Manufacturing Company, Chicago, Ill. Filed Sept. 30, 1954.

# TIMBERMAN

For Mine Timbering Machines, an Example of Which Is a Track-Mounted, Self-Propelled Vehicle on Which Is Mounted a Saw and Hoisting Boom for Cutting and Placing Cross Bars and Rib Supports.  
Use since Sept. 12, 1949.

SN 674,521. E. J. Longyear Company, Minneapolis, Minn. Filed Oct. 8, 1954. Sec. 2(f)

# LONGYEAR

For Well Drilling Tools and Equipment—Namely, Drills for Earth and Rock Formations, Diamond Core Drills, Earth and Rock Drilling Units, Mine Shaft Mucking Equipment, Bits for Drilling in Earth and Rock Formation, Reaming Shells, Core Barrels, Wire Line Core Barrels and Equipment, Recovery Tools, Drive Hammers for Driving Casing and Drill Rods, Pumping Units Used in Connection With Drilling in Earth and Rock Formations, Shale Shakers, Core Splitters, Lifting Bales, Casing Clamps, Churn Bucks, Hole Deflecting Devices, Grouting Equipment, Rod Pullers, Water Swivels, and Under Reamers.  
Claims use since in the year 1908.

SN 675,285. Byron Jackson Co., Los Angeles, Calif. Filed Oct. 22, 1954.

# BEE JUNIOR

Applicant claims ownership of Reg. No. 570,537.  
For Centrifugal and Turbine Deepwell Pumps.  
Use since Sept. 17, 1954.

SN 675,548. Davrus Corporation, Joliet, Ill. Filed Oct. 27, 1954.

# TIME SAVER JR

For Boring Set.  
Use since Oct. 4, 1954.

SN 675,991. Gerhard Jacoby, d. b. a. Leisure Industries, Forest Hills, N. Y. Filed Nov. 3, 1954.

# RID-O-SNO

For Manually Operated Snowplows.  
Use since Oct. 14, 1953.

SN 676,363. The DoAll Company, Des Plaines, Ill. Filed Nov. 10, 1954.

# Contour-matic

Applicant claims ownership of Reg. No. 346,825.  
For Band Sawing Machines and Combination Band Sawing, Filing, Polishing and Line Grind Machines.  
Use since Jan. 31, 1949.

SN 677,189. The Village Blacksmith Company, Watertown, Wis. Filed Nov. 23, 1954.

# VILLAGE BLACKSMITH

Applicant claims ownership of Reg. No. 517,413.  
For Garden Tools, Including Power Lawn Mowers, Shears, Pruners, Scythes, Sickles, Hand Trowels, Hand Cultivators, Hand Forks, Hand Weed Diggers, Hand Transplanters, Corn Knives and Machetes; and for Cutlery—Namely, Kitchen, Table, Barbecue and Butcher Knives; Cleavers; Steels; Spatulas; Meat Slicers; Block Scrapers; Hamburger Turners; and Barbecue, Kitchen and Table Forks.  
Use since August 1898 on sickles.

SN 677,282. Allis-Chalmers Manufacturing Company, West Allis, Wis. Filed Nov. 26, 1954.

# ACAP

For Centrifugal Pumps.  
Use since Oct. 29, 1954.

SN 677,511. MSO Maschinen- und Schleifmittelwerke Aktiengesellschaft, Offenbach (Main), Germany. Filed Nov. 30, 1954.



Applicant claims ownership of German Reg. No. 602,549, dated Oct. 1, 1948.  
For Machine Tools—Namely, Grinding and Boring Machines.

SN 679,379. Elgin Sweeper Company, Elgin, Ill. Filed Jan. 4, 1955.

# Street King

For Street Sweeping Machines.  
Use since Dec. 2, 1954.

SN 679,805. Utica Cutlery Company, Utica, N. Y. Filed Jan. 12, 1955.

# PRIM

For Table Knives, Forks and Spoons, and Pie Knives, All of Base Metal.  
Use since Feb. 28, 1953.

SN 680,210. Manufacturers Processing Co., Detroit, Mich. Filed Jan. 20, 1955.

# MANPRO

For Vapor Degreasers, Industrial Washers, Cleaning Tanks, and Other Machines and Equipment for Removing Oil, Grease, Paint, and Other Materials From Work Pieces or Parts of Work Pieces.  
Use since Aug. 19, 1954.

SN 680,356. Chas. D. Briddell, Inc., Crisfield, Md. Filed Jan. 24, 1955.



For Steak Knives.  
Use since Dec. 6, 1954.

SN 680,391. Klekhaefer Corporation, Cedarburg, Wis. Filed Jan. 24, 1955.



The drawing is lined for red and gold. Applicant disclaims the words "Mark" and "Twin" and the numeral "6."  
For Outboard Motors and Parts Thereof.  
Use since Dec. 22, 1954.

SN 680,497. Whirlpool Corporation, St. Joseph, Mich. Filed Jan. 25, 1955.

# Whirlpool

For Outboard Motors.  
Use since Dec. 16, 1954.

SN 680,532. Harrison-Sanders, Inc., Paoli, Pa. Filed Jan. 26, 1955.



For Portable Conveyors for Material Handling.  
Use since Nov. 4, 1953.

SN 680,569. Mechanical Servants, Chicago, Ill. Filed Jan. 4, 1955.

# THE MECHANICAL MAID

For Vending Machines for Dispensing Notions and Toilettries.  
Use since Nov. 1, 1954.

SN 680,597. Good Roads Machinery Corporation, Minerva, Ohio. Filed Jan. 27, 1955.

# Good Roads

Applicant claims ownership of Reg. No. 208,520.  
For Road Making and Maintenance Equipment Including: Spreaders for Asphalt, Clinders, Gravel, Salt, Sand, Etc.; Snow Plows; Vacuum Operated Leaf Collectors; and Vacuum Operated General Refuse Scavengers.  
Use since on or about Nov. 1, 1896.



SN 680,598. Good Roads Machinery Corporation, Minerva, Ohio. Filed Jan. 27, 1955.

## CHAMPION

Applicant claims ownership of Reg. Nos. 230,294 and 233,561.

For Road Making and Maintenance Equipment Including: Spreaders for Asphalt, Cinders, Gravel, Salt, Sand, Etc.; Snow Plows; Vacuum Operated Leaf Collectors; and Vacuum Operated General Refuse Scavengers.

Use since on or about Oct. 1, 1883.

SN 680,636. Utica Cutlery Company, Utica, N. Y. Filed Jan. 27, 1955.

*Champagne*

For Table Knives, Forks and Spoons, and Pie Knives, All of Base Metal.

Use since Nov. 22, 1954.

SN 680,637. Utica Cutlery Company, Utica, N. Y. Filed Jan. 27, 1955.

*Seneca*

For Pocket Knives, Butcher Knives, Paring, Carving, and Other Household Knives of Various Kinds, and Table Cutlery, All of Base Metal.

Use since Feb. 15, 1932.

SN 680,658. Beacon Plastics Corporation, Newton, Mass. Filed Jan. 28, 1955.

*SIGNSTIR*

For Plastic Beverage Stirrers.

Use since Mar. 1, 1951.

SN 680,746. Flo-Mix Fertilizers, Inc., Houma, La. Filed Jan. 31, 1955.

*K-7lo*

For Mobile Fertilizer Tank and Spraying Equipment.

Use since Jan. 28, 1954.

SN 680,749. Flo-Mix Fertilizers, Inc., Houma, La. Filed Jan. 31, 1955.

*Phos-7lo*

For Mobile Fertilizer Tank and Spraying Equipment.

Use since Jan. 28, 1954.

SN 681,325. Pitman Manufacturing Company, Kansas City, Mo. Filed Jan. 17, 1955.

*HYDRA-MANT*

For Power Operated Cranes Particularly for Use on Vehicles Such as Trucks and the Like.

Use since Nov. 8, 1954.

### CLASS 24

SN 672,867. The Burns & Russell Company of Baltimore City, d. b. a. The Burns & Russell Company, Baltimore, Md. Filed Sept. 8, 1954.

*Spectra-Cast*

For Laundry Trays or Tubs.

Use since July 19, 1954.

SN 675,873. Borg-Warner Corporation, Chicago, Ill. Filed Nov. 2, 1954.

*RIPPLETTE*

For Clothes Washing Devices and Parts Thereof for Replacement and Repair.

Use since on or about Sept. 14, 1954.

### CLASS 26

SN 625,618. Panoptik Company, Incorporated, Columbus, Ohio. Filed Feb. 27, 1952. Sec. 2(f).

*PANOPTIK*

Applicant claims ownership of Reg. No. 287,712, expired. For Ophthalmic Lenses.

Use since Jan. 27, 1931.

SN 628,090. Chicago Eye Shield Company, Chicago, Ill. Filed Apr. 15, 1952.

*CESCO RIGHT... before your Eyes!*

For Protective Equipment for Protecting Workmen in Industry Consisting of Welding Helmets, Face Shields, Grinding Goggles, Chipping Goggles, Welding Goggles, Protective Lenses, and Hoods.

Use since Oct. 9, 1951.

SN 646,293. Lear, Incorporated, Grand Rapids, Mich. Filed May 1, 1953.

*ELECTROPILOT*

For Automatic Pilot Apparatus and Components Thereof for Aircraft, Generally Comprising Gyroscopes for Detecting the Sense and Magnitude of Departure of the Aircraft From a Predetermined Course in One or More of the Three Principal Axes, and for Utilizing Electrical or Other Signals Derived From the Respective Positions of the Gyroscopes To Operate Mechanism to Return the Aircraft to the Predetermined Course.

Use since Apr. 17, 1953.

SN 663,428. Bourns Laboratories, Inc., Riverside, Calif. Filed Mar. 29, 1954.

*LINIOMETER*

For Potentiometers.

Use since Jan. 22, 1954.

SN 666,468. M. Hensoldt & Söhne, Optische Werke A. G., Wetzlar, Germany. Filed May 17, 1954. Sec. 2(f).

*Hensoldt*

For Optical Instruments—Namely, Prism Binoculars and Monoculars, Field Glasses, Sighting Telescopes, Microscopes, Surveying Instruments, Telescopes, Magnifiers; Photographic Lenses; Telescope Lenses; Optical Prisms; Fine Measuring Instruments—Namely, Gauges, Gauge-Block Interferometers, Hardness Testers, Extensometers.

Use since Jan. 22, 1916.

SN 666,469. M. Hensoldt & Söhne, Optische Werke A. G., Wetzlar, Germany. Filed May 17, 1954. Sec. 2(f).

*HENSOLDT WETZLAR*

For Optical Instruments—Namely, Prism Binoculars and Monoculars, Field Glasses, Sighting Telescopes, Microscopes, Surveying Instruments, Telescopes, Magnifiers; Photographic Lenses; Telescope Lenses; Optical Prisms; Fine Measuring Instruments—Namely, Gauges, Gauge-Block Interferometers, Hardness Testers, Extensometers.

Use since Dec. 31, 1919.

SN 668,127. Standard Pipeprotection, Inc., St. Louis County, Mo. Filed June 11, 1954.

*sipi*

For Electronic Devices, Particularly Holiday Detectors.

Use since Sept. 3, 1952.

Subj. to Intf. with SN 662,756.

SN 668,457. Moropticon Research, Engineering and Manufacturing Establishment, Vaduz, Fuerstentum, Liechtenstein. Filed June 18, 1954.

*moreopticon*

For Cinematographical Cameras, Cinematopographical Projectors, Adapters Comprising Sets of Prisms or Mirrors for the Use on Cinematographic Camera and Projectors.

Use since Aug. 7, 1953.

SN 668,807. Addo Machine Company, Inc., New York, N. Y. Filed June 24, 1954.

*MULT-O-MATIC*

For Automatic Computing Feature of an Adding Machine.

Use since June 15, 1954.

SN 668,821. Bowser, Inc., Fort Wayne, Ind. Filed June 24, 1954.

*XACTronic METER*

The word "Meter" is disclaimed apart from the mark.

For Electromagnetic Fluid Flow Meters Including Sensing Devices and Amplifiers, Registers, Recorders, Integrators, Predetermined Stop Mechanisms, and Other Instrumentation and Control Equipment for Use Therewith.

Use since Apr. 27, 1954.

SN 669,696. George T. Perkins, Silver Spring, Md. Filed July 9, 1954.

*Swifttem*

For Thermometers.

Use since July 27, 1953.

SN 669,711. Vickers Engineering, Inc., Gardena, Calif. Filed July 9, 1954.

*MICRO PRECISION WHEEL BALANCER*

No claim is made to the words "Precision Wheel Balancer" apart from the mark as shown.

For Machine for Testing and Balancing Vehicle Wheels.

Use since May 21, 1953.



SN 672,143. Edgerton, Germeshausen & Grier, Inc., Boston, Mass. Filed Aug. 24, 1954. SN 678,427. Frank W. Winne & Son, Inc., Philadelphia, Pa. Filed Dec. 15, 1954.

## TELETRONIC

For Telescope Provided With a Photocell in the Line of Sight Thereof Designed for Attachment to a Camera Having an Electrically Operated Shutter Under the Control of the Photocell.

Use since in or about December 1950.

SN 674,592. The Hobart Manufacturing Company, Troy, Ohio. Filed Oct. 11, 1954.

**KITCHENAID**

Applicant claims ownership of Reg. Nos. 133,143 and 234,988.

For Graduated Measures for Ground Coffee and Devices for Feeding Fluids to Foodstuffs at a Controlled Rate—Namely, Droppers for Oils, Fruit Juices, Flavoring Extracts, and the Like.

Use since Sept. 26, 1923, on devices for feeding fluids to foodstuffs at a controlled rate.

SN 678,160. Shuron Optical Company, Inc., Geneva, N. Y. Filed Dec. 10, 1954.

**Ronman**

Applicant claims ownership of Reg. Nos. 377,228, 589,384, and others.

For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.

Use since Feb. 1, 1954.

SN 678,259. Propper Manufacturing Company, Inc., Long Island City, N. Y. Filed Dec. 13, 1954.

**CR+SS**

For Blood Diluting Pipettes Made of Glass.  
Use since during 1948.

Watch 'em  
**GROW**  
Tape

No claim is made to the word "Tape" apart from the mark as shown.

For Pressure Sensitive Paper-Backed Tape (or Strips) Which Are Graduated in Inches and Half-Inches and Upon Which a Record May Be Made of Changes in the Height of Growing Children.

Use since Nov. 26, 1954.

SN 678,501. Albert Schacht, G. m. b. H., Munich, Germany. Filed Dec. 6, 1954.

**Travegon**

For Cameras, Camera Lenses, Lens Covers, Photo Projectors, Enlargers, and Light Filters.

Use since May 26, 1954.

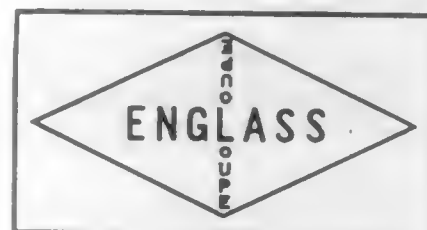
SN 679,178. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Dec. 30, 1954.

**POWER-PILL**

For Thermostatic Actuating Units of the Pressure Insensitive Type.

Use since Sept. 16, 1954.

SN 679,381. Englass Co., Inc., Rochester, N. Y. Filed Jan. 4, 1955.



The word "Loupe" is disclaimed apart from the mark as shown.

For Magnifying Device for Use in Reading Small Graduations on Scales.

Use since Dec. 4, 1954.

SN 679,420. Sterling Plastics Company, Union, N. J. Filed Jan. 4, 1955.

**Dial-A-Matic**

For Calculating Machines Usually Combined With Pencil Boxes.

Use since on or about Oct. 19, 1954.

SN 679,792. Nuclear Instrument and Chemical Corporation, Chicago, Ill. Filed Jan. 12, 1955. SN 681,062. Bourns Laboratories, Inc., Riverside, Calif. Filed Feb. 4, 1955.

**Classmaster**

For Radioactivity Detection and Measurement Devices for Use in Educational Demonstrations.

Use since in or about June 1950.

SN 679,852. Klear Vision Contact Lens Specialists, Inc., New York, N. Y. Filed Jan. 13, 1955.

**VENT-AIR GROOVED**

For Contact Lenses.

Use since Dec. 20, 1954.

SN 679,873. The Udyllite Corporation, Detroit, Mich. Filed Jan. 13, 1955.

**Udyllite**

Applicant claims ownership of Reg. Nos. 220,590, 224,679, and 229,519.

For Test Sets and Testing Equipment for Use in Electroplating, Including Brass, White Brass, Chromium, Cadmium, Copper, Silver, Tin and Zinc Plating.

Use since Nov. 19, 1919, on test sets and testing equipment for use in cadmium plating.

SN 679,963. A. B. T. Manufacturing Corp., Chicago, Ill. Filed Jan. 17, 1955.



The drawing is lined for red.

For Coin Testing Devices and Slug Rejectors.

Use since 1936.

SN 680,880. The Foxboro Company, Foxboro, Mass. Filed Feb. 1, 1955.

**TELETAX**

For Instruments for the Transmission Between Distant Points of Electric Signals Corresponding to the Values of Such Variables as Temperature, Pressure, Level, Flow, Humidity, and the Like, To Activate Measurement and Control Apparatus.

Use since December 1939.

SN 680,963. Obex Manufacturing Co., Inc., Lynbrook, N. Y. Filed Feb. 2, 1955.

**OBEX**

For Cameras, and Parts Thereof.

Use since Jan. 5, 1948.

**TINE TRIM**

For Potentiometers.  
Use since Dec. 28, 1953.

SN 681,063. Bourns Laboratories, Inc., Riverside, Calif. Filed Feb. 4, 1955.

**LINIPOT**

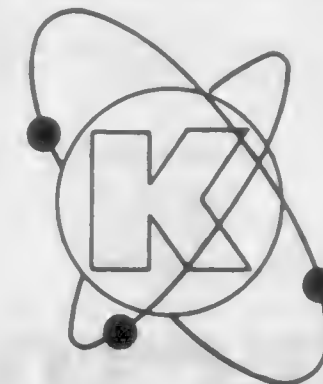
For Potentiometers.  
Use since Jan. 21, 1954.

SN 681,368. Andrew F. Schott, Milwaukee, Wis. Filed Feb. 9, 1955.

**ARITHMETEACHER**

For Abaci.  
Use since Jan. 18, 1955.

SN 681,522. Kingston Electronic Corporation, Cambridge, Mass. Filed Feb. 11, 1955.



For Absorption Analyzers.  
Use since Aug. 17, 1954.

SN 681,543. Pres-Sure-Tite Products, Inc., Detroit, Mich. Filed Feb. 11, 1955.

**Pres-SURE-tite**

For Testing Pressure of Motor Vehicle Radiator Pressure Caps, and of the Cooling Systems, Including Radiators, of Vehicle Motors.

Use since Aug. 31, 1954.

SN 681,705. Ohaus Scale Corporation, Union, N. J. Filed Feb. 15, 1955.

**Cent o Gram**

For Weighing Scales.  
Use since May 25, 1954.



SN 681,765. Foster Grant Co., Inc., Leominster, Mass. Filed Feb. 16, 1955.

# Opti-Clips

For Sunglasses of the Clip-On Type, and Sunglass Carrying Cases.  
Use since on or about Jan. 26, 1955.

## CLASS 28

SN 673,857. Sheldon Parker, New York, N. Y. Filed Sept. 27, 1954.

# MICRO-FLEX

For Expansion Bands for Watches, Bracelets, and Straps.  
Use since Aug. 1, 1954.

SN 675,793. H. W. Hill, Guernsey, Channel Islands. Filed Nov. 1, 1954.

# LOVE APPLE

Applicant claims ownership of British Reg. No. 728,569, dated Mar. 30, 1954.

For Jewellery—Namely, Brooches, Pendants, Earrings, Finger Rings, Bracelets, Necklaces, Tiepins, Cuff Links, Jewelled Studs and Fobs.

## CLASS 29

SN 671,191. The New York Association for the Blind, Inc., New York, N. Y. Filed Aug. 5, 1954.

# RECTOR

For Dust Mops.  
Use since June 1, 1952.

## CLASS 30

SN 681,218. Technical Porcelain and Chinaware Co., El Cerrito, Calif. Filed Feb. 7, 1955.



Applicant disclaims any right to "U. S. A." Applicant claims ownership of Reg. No. 563,404.  
For Domestic, Household, and Restaurant Chinaware Used for Preparation and Serving of Food.  
Use since Oct. 13, 1954.

## CLASS 31

SN 660,270. The General Electric Company, Schenectady, N. Y. Filed Jan. 28, 1954.

# TILT-STOR

For Refrigerator Shelves.  
Use since Nov. 6, 1953.

SN 666,801. Victory Metal Manufacturing Co., d. b. a. Victory Metal Manufacturing Corp., Plymouth Meeting, Pa. Filed May 20, 1954.

# Sno-Queen

For Refrigerators, Refrigerated Cases, Refrigerating Units, Frozen Food Cabinets, Freezing Cabinets, and Accessories and Parts Therefor.  
Use since on or about Dec. 14, 1953.

SN 666,803. Victory Metal Manufacturing Co., d. b. a. Victory Metal Manufacturing Corp., Plymouth Meeting, Pa. Filed May 20, 1954.



For Refrigerators, Refrigerated Cases, Refrigerating Units, Frozen Food Cabinets, Freezing Cabinets, and Accessories and Parts Therefor.  
Use since on or about May 10, 1945.

SN 667,343. Salem-Brosius, Inc., Pittsburgh, Pa. Filed May 28, 1954.

# Hyla

For Tank Type Filters for Liquids Particularly Water, Filter Parts and Supplies.  
Use since Jan. 22, 1954.

SN 673,025. The Hamilton Metal Products Company, Hamilton, Ohio. Filed Sept. 10, 1954.

# Skotch Ice

Applicant claims ownership of Reg. Nos. 592,616, 602,004, and 602,005.  
For Sealed Containers of Freezable Material Intended To Refrigerate Portable Coolers and the Like.  
Use since Aug. 2, 1954.

SN 673,519. The Hamilton Metal Products Company, Hamilton, Ohio. Filed Sept. 21, 1954.

# Skotch Freeze

Applicant claims ownership of Reg. Nos. 592,616, 602,004, and 602,005.

For Sealed Container of Freezable Material Intended To Refrigerate Portable Coolers and the Like.  
Use since Aug. 2, 1954.

SN 678,727. Klemm Automotive Products Company, Chicago, Ill. Filed Dec. 21, 1954. Sec. 2(f).

# Kleemm

For Devices for Filtering Gasoline, Fuel Oil, Water, and Analogous Liquids, and for Preventing Vapor Lock in Automobiles.

Use since February 1930.

## CLASS 32

SN 661,451. International Furniture Company, Chicago, Ill. Filed Feb. 23, 1954.



For Furniture—Namely, Wood Furniture, Upholstery Furniture, Chairs, Arm Chairs, Upholstered Chairs, Davenports, Settees, Sofas, Lounges, Couches, Tables, and Desks.  
Use since Nov. 9, 1953.

SN 663,742. Modern Venetian Blinds, Inc., New York, N. Y. Filed Apr. 1, 1954.



For Venetian Blinds and Slats Therefor.  
Use since Feb. 8, 1954.

SN 667,469. The Technicon Company, New York, N. Y. Filed June 1, 1954.

# Lab aid

Applicant claims ownership of Reg. No. 501,586.  
For Filing Cabinets Used in Filing Micro-Slides and Cards.  
Use since June 1939.

SN 669,628. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed July 8, 1954.

# Frostbrand

For Tables, Chairs, and Benches.  
Use since about Jan. 1, 1938.

SN 675,394. Illinois Shade Cloth Corporation, Chicago Heights, Ill. Filed Oct. 25, 1954.

# LEVELRITE

For Shade Rollers.  
Use since Oct. 13, 1954.

## CLASS 33

SN 664,950. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Apr. 21, 1954.

# PARALLEL-O-PLATE

Applicant claims ownership of Reg. Nos. 285,973, 384,518, and others.  
For Plate Glass.  
Use since Apr. 7, 1954.

SN 669,078. Blue Ridge Glass Corporation, Kingsport, Tenn. Filed June 29, 1954.

# HUEWHITE

For Glass in Sheet Form.  
Use since May 27, 1954.

SN 681,053. Union des Verreries Mécaniques Belges, Société Anonyme, Charleroi, Belgium. Filed Feb. 3, 1955.

# BELGASOL

Priority is claimed under Sec. 44(d). Belgian application filed Nov. 29, 1954, Reg. No. 3,702, dated Nov. 29, 1954.  
For Sheet Glass Produced by Mechanical Drawing, Including Heat Absorbing Sheet Glass.



## CLASS 34

SN 658,022. Screw Machine Products Company, Portland, Oreg. Filed Dec. 15, 1953.



For Hot Water Generators Wherein Live Steam and Cold Water Are Intermixed Within a Chamber.  
Use since July 15, 1952.

SN 660,094. Wayne Home Equipment Company, Incorporated, Fort Wayne, Ind. Filed Jan. 25, 1954.

**DIAL-O-METER**

For Space Heating Equipment—Namely, Oil Burners.  
Use since Jan. 14, 1954.

SN 665,162. Wright Manufacturing Company, Phoenix, Ariz. Filed Apr. 23, 1954.



For Air Conditioner.  
Use since Jan. 6, 1954.

## CLASS 35

SN 677,947. Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Filed Dec. 8, 1954.

**SILENT TRACTION**

For Tires.  
Use since Sept. 4, 1953.

SN 682,259. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Feb. 24, 1955.

**3 T**

For Tires.  
Use since Dec. 1, 1954.

SN 685,935. The Tire Mart Inc., New York, N. Y. Filed Apr. 20, 1955.

**MAJOR**

For Tires and Tubes.  
Use since Jan. 5, 1955.

## CLASS 37

SN 658,312. Orientex, Ltd., New York, N. Y. Filed Dec. 21, 1953.

**OKAMI**

The word "Okami" is a Japanese word meaning "the Emperor; the government; one's lord."  
For Wood Veneer Wall Paper.  
Use since Jan. 9, 1953.

SN 659,750. West Virginia Pulp and Paper Company, New York, N. Y. Filed Jan. 19, 1954.

**CLEAR SPRING OFFSET ENAMEL**

The applicant disclaims "Offset Enamel" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 167,105 and 524,668.  
For Coated Paper Suitable for Offset Printing.  
Use since Dec. 4, 1953.

SN 672,111. Stanford H. Schwartz, d. b. a. Novel Craft, Philadelphia, Pa. Filed Aug. 23, 1954.

**KISSABLE LETTERS**

For Writing Paper and Mailing Envelopes.  
Use since July 20, 1954.

## CLASS 38

SN 659,875. The McNaught Syndicate, Inc., New York, N. Y. Filed Jan. 21, 1954.

**ANGEL FACE**

For Daily Newspaper Cartoon Panel.  
Use since Oct. 28, 1953.  
Subj. to Intf. with SN 660,858.

SN 660,858. Field Enterprises, Inc., Chicago, Ill. Filed Feb. 10, 1954.

**ANGEL**

For Newspaper Comic Feature.  
Use since Dec. 12, 1953.  
Subj. to Intf. with SN 659,875.

SN 676,066. Theta Sigma Phi, Austin, Tex. Filed Nov. 4, 1954. SN 676,230. A. Sagner's Son, Baltimore, Md. Filed Nov. 8, 1954.



For Magazine for All Women Who Write, a Publication for Sale to the Public, Schools, Libraries, and Individuals.  
Use since March 1915.

## CLASS 39

SN 655,951. Austin & Suggs Manufacturing Co., Memphis, Tenn. Filed Nov. 6, 1953.

**Penguin**

For Separate Collars for Use With Sweaters, Blouses, and Dresses Worn by Girls, Misses, and Women, the Collars Being Either Plain or Decorated.  
Use since June 22, 1953.

SN 662,927. Dominion Corset Company, Limited, Quebec, Quebec, Canada. Filed Mar. 19, 1954.

**3-R**

Priority is claimed under Sec. 44(d). Canadian application filed Jan. 19, 1954, Reg. No. N. S. 50,444, dated Jan. 19, 1954.

For Corsets, Girdles, and Brassieres.

SN 671,373. Production and Marketing Company, Newtown, Conn. Filed Aug. 9, 1954.

**SCRABBLE**

Applicant claims ownership of Reg. No. 524,505.  
For Loungewear—Namely, Lounging Pajamas, Brunch Coats, Dusters, and Housecoats.  
Use since Dec. 1, 1948.

SN 675,585. Piedmont Shirt Company, Greenville, S. C. Filed Oct. 27, 1954.

**WUNDA FLEECE**

Applicant disclaims "Fleece" apart from the mark as shown.  
For Men's and Boys' Shirts, Undershirts, Under-Shorts, and Pajamas.  
Use since Aug. 30, 1954.



Without waiving its common law rights and for purposes of this registration only applicant makes no claim herein to the words "Wear," "Wash," and "No Press" apart from the mark as shown.

For Men's Suits, Coats, Jackets, and Slacks.  
Use since April 1954.

SN 676,806. Hatrix Corp. of America, New York, N. Y. Filed Nov. 17, 1954.

**HATRIX**

For Millinery Products—Namely, Children's, Girls', and Women's Hats. Hats for Use as Sun Hats, Hats in Form of Sun Shades and Hats in Form of Turbans.  
Use since July 26, 1954.

## CLASS 41

SN 666,070. Storm Hero Umbrella Co., Inc., New York, N. Y. Filed May 10, 1954.

**Storm Hero**

Applicant claims ownership of Reg. No. 95,004.  
For Umbrellas.  
Use since April 1911.

## CLASS 42

SN 641,230. The Cotwool Manufacturing Corporation, Wilmington, Del. to Deering, Milliken & Co., Inc., New York, N. Y. Filed Dec. 16, 1952. Sec. 2(f).

**LISBON**

Applicant claims ownership of Reg. No. 274,895.  
For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.  
Use since on or about 1868.

SN 660,825. Sears, Roebuck and Co., Chicago, Ill. Filed Feb. 9, 1954.

**WEMBLEY**

Applicant claims ownership of Reg. No. 319,405.  
For Textile Rugs and Carpeting.  
Use since on or about Oct. 4, 1933.



SN 663,582. James Lees and Sons Company, Bridgeport, Pa.  
Filed Mar. 30, 1954. Sec. 2(f).



Applicant claims ownership of Reg. Nos. 501,717 and 574,195.

For Textile Carpets.  
Use since Jan. 20, 1946.

SN 665,868. Spectrum Fabrics Corporation, New York, N. Y.  
Filed May 6, 1954.

**"EVERNU"**

For Piece Goods of Cotton, Wool, Silk, Linen, and Synthetic Fiber for Decorative, Drapery, and Upholstery Purposes.

Use since Apr. 26, 1954.

SN 670,713. United Merchants and Manufacturers, Inc., New York, N. Y. Filed July 27, 1954.

**Con-Tact**

Applicant claims ownership of Reg. No. 424,988.  
For Piece Goods of Adhesive Coated Plastic Film Sheeting Adapted for Use as a Fabric Substitute.  
Use since on or about Apr. 2, 1954.

SN 673,526. Lanella Corporation, New York, N. Y. Filed Sept. 21, 1954.

**Cotohna**

For Cotton Piece Goods for Making Into Clothing.  
Use since October 1952.

SN 678,041. Martel Mills Corporation, New York, N. Y. Filed Dec. 9, 1954. Sec. 2(f).

**MARTEL**

For Cotton Piece Goods—Namely, Tickling.  
Use since 1948.

#### CLASS 43

SN 673,880. Textured Yarn Company, Philadelphia, Pa. Filed Sept. 27, 1954.

**TYCORA**

For Thread and Yarn.  
Use since Aug. 1, 1954.

#### CLASS 45

SN 678,660. Motyer & Clement (Proprietary) Limited, East London, Union of South Africa. Filed Dec. 20, 1954.



Applicant claims ownership of South African Reg. No. 111/54, dated Jan. 13, 1954.

For Mineral and Aerated Waters, Natural and Artificial, and Ginger Beer.

#### CLASS 46

SN 543,251. Earl A. Yost, d. b. a. Yost Candy Company, Massillon, Ohio. Filed Dec. 3, 1947.

**KIDDI POPS**

For Hard Candles of Various Flavors Carried by a Stick.  
Use since Oct. 13, 1947.

SN 586,976. Victor Chemical Works, Chicago, Ill., from A. R. Maas Chemical Co. Filed Oct. 28, 1949.



Applicant claims ownership of Reg. Nos. 207,552 and 528,515.

For Food Emulsifiers, Food Preservatives, and Food Stabilizers.

Use since in January 1917.

SN 635,864. "Zeelandia" Fabriek van Bakkerijgrondstoffen H. J. Doeleman N. V., Zierikzee, Netherlands. Filed Sept. 26, 1952.

**ZEELANDIA**

Applicant claims ownership of Dutch Reg. No. 76,920, dated Nov. 14, 1941.

For Food Supplies Sold Only to Bakers—Namely, Vegetable Shortenings; Jellies; Sugar; Candied and Otherwise Preserved Fruits; Herbs and Spices; Food Colorings and Flavorings; Edible Vegetable and Animal Oils and Fats; Cinnamon; Honey; Almond Paste; Frozen Egg White and Egg Yolk; Salt; Dough Improvers; Lecithin, Used as a Food Emulsion; Yeast and Artificial Rising Preparations; Emulsion and Vegetable Oil Preparation Used To Grease Baking Tins; Gelatin Powder; Powders for Making Frozen Confections; Preparation Composed Principally of Sugar and Honey Used as an Ingredient of Pastries and Cakes.

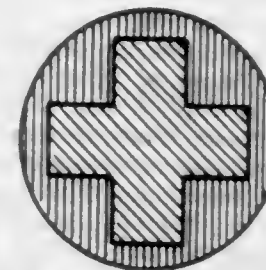
SN 639,065. Malt-A-Plenty, Inc., Tulsa, Okla. Filed Dec. 3, 1952. Sec. 2(f).  
SN 653,745. Delicia Chocolate & Candy Mfg. Co. Inc., New York, N. Y. Filed Sept. 25, 1953. Sec. 2(f).

**Drink-A-Plenty**

Applicant claims ownership of Reg. Nos. 374,642, 530,737, and others.

For Stabilizer Powder for Making Frozen Ice Milk Base; Frozen Ice Milk; and Ice Milk Dairy Drink.  
Use since June 18, 1952.

SN 639,535. American Chic Company, Long Island City, N. Y. Filed Nov. 13, 1952.



The drawing is lined for red and green.  
For Chewing Gum.  
Use since Feb. 6, 1951.

SN 643,871. Farmcrest Dairy Products Corp., Cape Girardeau, Mo. Filed Feb. 12, 1953.



For Dairy and Ice Cream Products—Namely, Butter, Non-Alcoholic Eggnog, and Ice Cream.  
Use since July 25, 1952.

SN 653,437. H. C. Brill Company, Inc., Newark, N. J. Filed Sept. 21, 1953. Sec. 2(f) as to "Brill's Kreme-All."



Applicant claims ownership of the mark shown in Reg. No. 266,670, expired.

For Flavored Syrup Product, Containing Eggs, Water, Salt, Corn Syrup and Imitation Vanilla Flavor, for Use in the Making of Fillings and Icings for Cakes and Pastry.  
Use since Dec. 21, 1928.

**SIX STIX**

For Filled Sugar Waters.  
Use since Apr. 14, 1948.

SN 657,908. Edgar A. Ferguson, Jr., Brooklyn, N. Y. Filed Dec. 14, 1953.

**SUGAR-MATE**

The word "Sugar" is disclaimed apart from the mark as a whole.

For Low Calorie Sweetening Composition.  
Use since Nov. 16, 1953.

SN 657,922. Hart's Fruit Products Company, d. b. a. Brea Valley Processing Company, Citrus Products Company of California, Flowing Gold Citrus Products Company, and Brea Canning Company, Brea, Calif. Filed Dec. 14, 1953.

**Flowing Gold**

For Canned and Frozen Fruit Juices and Vegetable Juices.  
Use since Aug. 12, 1949.

SN 658,938. The Southern Cotton Oil Company, New Orleans, La. Filed Jan. 4, 1954.

**KNEEDIT**

Applicant claims ownership of Reg. No. 129,222.  
For Oleomargarine.  
Use since Mar. 4, 1953.

SN 659,849. Compagnie Continentale pour la Torréfaction des Cafés, Antwerp, Belgium. Filed Jan. 21, 1954.



Applicant claims ownership of Belgian Reg. No. 1,145, dated July 14, 1899.  
For Roasted and Raw Coffee, Tea, and Chicory.



SN 659,905. Westgate-California Tuna Packing Company, San Diego, Calif. Filed Jan. 21, 1954.

## GOLDEN STRAND

Applicant claims ownership of Reg. No. 196,497.  
For Canned Fish.  
Use since May 10, 1924.

SN 660,966. C. F. Simonin's Sons, Inc., Philadelphia, Pa. Filed Feb. 11, 1954.



For Salad Oil.  
Use since Mar. 24, 1930.

SN 661,531. Fred Wolfman, Inc., Kansas City, Mo. Filed Feb. 23, 1954. Sec. 2(f).

## Good Things to Eat

Applicant claims ownership of Reg. Nos. 60,712, expired, 35,474, expired, and 577,179.

For Fluid Milk, Butter, and Fresh Eggs; Jams; Jellies; Marmalade; Canned Vegetables; Canned, Pickled, Spiced, Brandied, and Preserved Fruit; Vinegar; Pickles; Olives; Olive Oil; French Salad Dressing; Mayonnaise; Thousand Island Dressing; Sandwich Spread; Peanut Butter; Tartar Sauce; Mince-Meat; Plum Pudding; Dried and Evaporated Fruits; Canned Fish; Canned Shell Fish; Canned Shad Roe; Sugar; Syrups for Food Purposes; Canned Citrus Fruit Juices; Canned Vegetable Juices; Cake Flour; Bread, Rolls, Cakes, and Pastries; Rice; Macaroni; Spaghetti; Noodles; Catsup; Chili Sauce; Cocktail Sauce; Hollandaise Sauce; Cheese; Coffee; Tea; Salted Nuts; Hard Sauce; Prepared Fruit Salads; Chili Con Carne; Potato Chips; Cheese Chips; Spices; Food Flavoring Extracts; Candles; Ice Cream and Sherbets; Frozen Fruits; and Frozen Vegetables.

Use since 1899 on dairy products consisting of fluid milk, butter, and fresh eggs; jams; jellies; marmalade; canned vegetables, canned, pickled, spiced, brandied, and preserved fruits.

SN 662,244. Moore & Co. Soups, Inc., Newark, N. J. Filed Mar. 8, 1954.

## Bon Vivant

The term "Bon Vivant" is the French expression for "Fond of good living." Applicant claims ownership of Reg. No. 393,967.

For Canned Soups, Fish, Shell Fish, Frog Legs, Turtle Meat, and Terrapin Stew; Newburg Sauce and Sauce a la King With Wine, Creole Sauce, and Spanish Omelet Sauce.

Use since May 1935.

SN 662,467. Reese Finer Foods, Inc., sometimes d. b. a. Ries Finer Food Division, Chicago, Ill. Filed Mar. 11, 1954. Sec. 2(f) as to "Reese."



For Canned and Bottled Foods—Namely, Pickles, Pickled Vegetables, Pickled Fruit, Olives, Vinegar, Edible Olive Oil, Mustard, Seafood Cocktail Sauce, Horse Radish Sauce, Barbecue Sauce, Capers, Onion Juice, Garlic Juice, Cinnamon Sticks, Candied Ginger, Pretzels, Salted Nuts, Babas, Crepe Suzettes, Vegetables, Fruits, Deciduous Fruit Juices, Berries, Grape Syrup for Food Purposes, Fruit Preserves, Preserved Fruit, Jam, Jelly, Honey, Maple Syrup, Salad Dressing; Cocktail Snacks—Namely, Bacon Rinds, Toasted Pumpkin Seeds, Toasted Flavored Bread Sticks, Toasted Chipped Coconut, Croutons, French Fried Onions, and Hors d'Oeuvres; Canapes, Pate de Fole Gras, Caviar, Tomato Aspic, Cooked Wild Rice, Chop Suey, Fish Paste, Shellfish Paste, Poultry, Chicken Tamales, Shellfish, Fish, Soup, Potato Salad, Buffalo Meat, Cocktail Frankfurts, Ham, and Turkey Sausages.

Use since in or about September 1945 on salad dressing, canned soup, canned babas in rum and crepe suzettes.

SN 662,468. Reese Finer Foods, Inc., sometimes d. b. a. Ries Finer Food Division, Chicago, Ill. Filed Mar. 11, 1954.



For Canned and Bottled Foods—Namely, Pickles, Pickled Vegetables, Pickled Fruit, Olives, Vinegar, Edible Olive Oil, Mustard, Seafood Cocktail Sauce, Horse Radish Sauce, Barbecue Sauce, Capers, Onion Juice, Garlic Juice, Cinnamon Sticks, Candied Ginger, Pretzels, Salted Nuts, Babas, Crepe Suzettes, Vegetables, Fruits, Berries, Grape Syrup for Food Purposes, Fruit Preserves, Deciduous Fruit Juices, Preserved Fruits, Jam, Jelly, Honey, Maple Syrup, Salad Dressing; Cocktail Snacks—Namely, Bacon Rinds, Toasted Pumpkin Seeds, Toasted Flavored Bread Sticks, Toasted Chipped Coconut, Croutons, French Fried Onions, and Hors d'Oeuvres; Canapes, Pate de Fol Gras, Caviar, Tomato Aspic, Cooked Wild Rice, Chop Suey, Fish Paste, Shellfish Paste, Poultry, Chicken Tamales, Shellfish, Fish, Soup, Potato Salad, Buffalo Meat, Cocktail Frankfurts, Ham, and Turkey Sausages.

Use since in or about September 1945 on salad dressing, canned soup, canned babas in rum and crepe suzettes.

SN 662,519. Crown Packing Company, Salinas, Calif. Filed Mar. 12, 1954.

## KROWN-PAK

Applicant claims ownership of Reg. No. 132,923 (expired).  
For Fresh Vegetables and Melons.  
Use since Jan. 15, 1920.

SN 663,751. Lynne Singleton, d. b. a. Singleton Products, Fletcher Hills, Calif. Filed Apr. 1, 1954.



For Frozen Prepared Food Products for Infants—Namely, Frozen Vegetables.  
Use since Aug. 13, 1953.

SN 665,539. Abbey Garden, Inc., New York, N. Y. Filed May 3, 1954.

## ABBEE GARDEN

Applicant claims ownership of Reg. No. 380,544.  
For Coffee.  
Use since Jan. 1, 1931.

SN 665,897. M. Di Carlo and Sons, Inc., d. b. a. Di Carlo's Bakery, Steubenville, Ohio. Filed May 7, 1954. Sec. 2(f).



For Bread, Fresh Cooked Pizza and Frozen Pizza.  
Use since November 1899 with respect to bread.

SN 667,091. Catz American Co., Inc., New York, N. Y. Filed May 26, 1954.

## ROYALTY

Applicant claims ownership of Reg. No. 589,342.  
For Canned Orange Sections, Canned Mushrooms, Canned Ham.  
Use since 1951 on oranges.

SN 667,703. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 4, 1954. Sec. 2(f).

## GOLDINE

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 668,933. Harry Shernoff, d. b. a. Mama's (Real Good) Food Products, Philadelphia, Pa. Filed June 25, 1954.

## FISHFRANKS

For Frozen Fish Cakes Molded in the Shape of Frankfurters.  
Use since December 1950.

SN 669,101. Dubuque Packing Company, Dubuque, Iowa. Filed June 29, 1954. Sec. 2(f).

## FROM THE TALL CORN COUNTRY

For Fresh Canned, Smoked, and Cooked Meat Products—Namely, Pork, Beef, Lamb, and Veal.  
Use since Jan. 15, 1947.



For Sandwiches.  
Use since Jan. 4, 1948.

SN 671,345. Hubbard Milling Company, Mankato, Blue Earth, Minn. Filed Aug. 9, 1954.

## MOTHER HUBBARD

Applicant claims ownership of Reg. Nos. 82,516, 284,400, and 223,861.  
For Wheat Flour and Stock Feeds.  
Use since Jan. 1, 1910, on wheat flour.

SN 673,546. The Sanitary Market, Rogers City, Mich. Filed Sept. 21, 1954. Sec. 2(f).



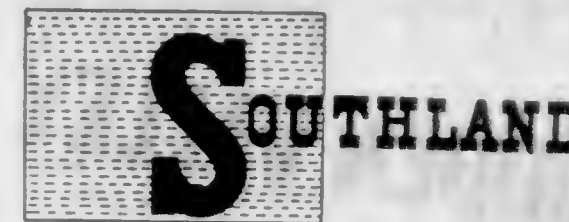
Exclusive rights of the words "Smoked Loin" are not claimed apart from the rest of the mark shown.  
For Smoked Pork Loin.  
Use since 1946; and since 1913 as to "Plath's."

SN 673,593. Hoffman Products Co., Jeffersonville, Ind. Filed Sept. 22, 1954.

## CORN ROAST

For Corn Chips.  
Use since Feb. 23, 1953.

SN 675,838. Southland Frozen Foods, Inc., New York, N. Y. Filed Nov. 1, 1954.



The drawing is lined for gray.  
For Frozen Vegetables and Frozen Shrimp.  
Use since Jan. 1, 1944.



SN 676,091. American Beauty Macaroni Co., Kansas City, Mo. Filed Nov. 5, 1954.

**Chili-Roni**

Applicant claims ownership of Reg. No. 557,597.  
For Package Containing Ingredients for a Chili and Macaroni Dinner.  
Use since Aug. 10, 1954.

SN 678,099. Foremost Dairies, Inc., Jacksonville, Fla. Filed Dec. 10, 1954.



**FOREMOST**

Applicant claims ownership of Reg. Nos. 301,356, 601,918, and others.  
For Fresh Eggs.  
Use since not later than in the year 1946.

SN 678,166. Sunshine Packers, Inc., Ft. Meade, Fla. Filed Dec. 10, 1954.

**SUN FRESH**

For Canned, Frozen, and Fresh Fruit Juices; Canned Fruit Salad; and Canned Grapefruit.  
Use since Nov. 20, 1954.

SN 678,358. Woodard Foods, Inc., St. Louis Park, Minn. Filed Dec. 14, 1954.

**PUPSY**

For Dog Food.  
Use since Dec. 1, 1954.

SN 678,621. General Mills, Inc., Wilmington, Del. Filed Dec. 20, 1954.

**Answer**

For Cake Mix and Cake Frosting Mix.  
Use since Dec. 1, 1954.

SN 679,008. Rolling Hills Orchards, Inc., d. b. a. Rolling Hills Orchards, Los Angeles, Calif. Filed Dec. 27, 1954.

**HIDDEN VALLEY**

For Fresh Deciduous Fruits.  
Use since Nov. 27, 1954.

SN 679,890. Brock Candy Company, Chattanooga, Tenn. Filed Jan. 14, 1955. Sec. 2(f).

**mintlets**

Applicant claims ownership of Reg. No. 562,085.  
For Candy.  
Use since Dec. 2, 1949.

SN 680,112. Sweet-Nes Corporation, Brooklyn, N. Y. Filed Jan. 18, 1955.

**Rise - n - Shine**

For Bottled Fruit Juices.  
Use since Dec. 31, 1954.

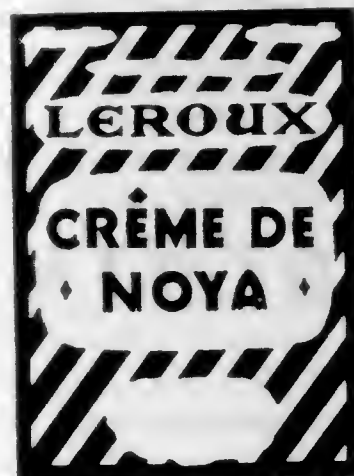
SN 680,147. W. P. Ihrie and Sons, Baltimore, Md. Filed Jan. 19, 1955. Sec. 2(f).

*Mrs.*  
**Ihrie's**

Applicant claims ownership of Reg. No. 400,572.  
For Potato Chips.  
Use since 1937.

#### CLASS 49

SN 669,995. Leroux & Company, Inc., Philadelphia, Pa. Filed July 14, 1954. Sec. 2(f) as to "Leroux."



The wording "Creme De Noya" insofar as it may be considered the phonetic equivalent of the French words "Creme De Noyan" or "Creme De Noyaux" is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 334,629, 547,557, and others.

For Alcoholic Liqueurs—Namely, Liqueurs Produced Mainly From Oil of Bitter Almonds.  
Use since June 23, 1954; and since on or about December 1933 as to "Leroux."

SN 672,293. The Irish Mist Liqueur Co. Ltd., Tullamore, Republic of Ireland. Filed Aug. 26, 1954.

**IRISH MIST**

For Irish Liqueur.  
Use since Apr. 28, 1949.

#### CLASS 51

SN 655,046. Howard K. Foncanon, d. b. a. New Mexicraft Company, Old Albuquerque, N. Mex. Filed Oct. 20, 1953. Sec. 2(f).

**PINON**

For Perfume, Cologne, Toilet Water, Bath Oil, and Bath Salts.  
Use since May 8, 1948.

SN 655,047. Howard K. Foncanon, d. b. a. New Mexicraft Company, Old Albuquerque, N. Mex. Filed Oct. 20, 1953. Sec. 2(f).

**YUCCA**

For Perfume, Cologne, Toilet Water, Bath Oil, and Bath Salts.  
Use since May 8, 1948.

SN 668,304. Chemische Fabrik Promonta G. m. b. H., Hamburg, Germany. Filed June 16, 1954.

**TRILYSIN**

Applicant claims ownership of German Reg. No. 312,809, dated Jan. 12, 1924.  
For Hair Tonics and Other Preparations for Grooming the Hair.

SN 676,005. Plasti-Liner Co., Inc., Buffalo, N. Y. Filed Nov. 3, 1954.

**TRI DENT**

For Water Soluble Powdered Preparation for Cleaning Dentures.  
Use since Oct. 7, 1954.

SN 676,628. E. Griffiths Hughes, Limited, Adelphi, Salford, Manchester, England. Filed Nov. 15, 1954.

**Crysta-  
gel**

For Hairdressing Preparation.  
Use since Oct. 14, 1954.

SN 676,861. Kurt E. Behmer, d. b. a. Lotten Segvard, Excelsior, Minn. Filed Nov. 18, 1954.



For Cosmetic Lotion for Use on Oily Skin.  
Use since Aug. 1, 1953.

SN 677,480. Bes-Tone, Ltd., New York, N. Y. Filed Nov. 30, 1954.

**BES-TONE**

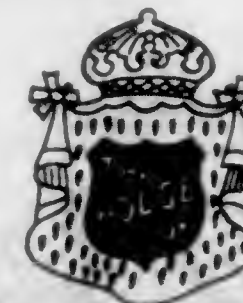
For Hand Cream, Hair Cream, Permanent Hair Waving Lotions and Neutralizers, and Hair Dye and Hair Bleach.  
Use since prior to Nov. 23, 1931, on hand cream, hair cream, permanent hair waving lotions and neutralizers, and hair dye.

SN 679,647. Coty, Inc., New York, N. Y. Filed Jan. 10, 1955.

**SWITCH-STICK**

For Lipsticks.  
Use since Dec. 31, 1954.

SN 679,903. Frank & Joseph, Los Angeles, Calif. Filed Jan. 14, 1955. Sec. 2(f).



**FRANK & JOSEPH**

Applicant claims ownership of Reg. No. 411,931.  
For Skin Freshener; Facial Mask; Mascara; Liquid Make-Up Base; Hair Grooming and Conditioning Preparation; Eyebrow Pencils; Dry and Paste Rouges; Dry and Cake Face Powders; Hair Oil; Face Creams; Lipsticks; Hand and Skin Lotion; Eye Shadow.  
Use since July 15, 1938.



SN 680,040. Skycharm Cosmetic Co., Kansas City, Mo. Filed Jan. 17, 1955.



For Liquid Shampoo, Cream Hair Dressing, and Stick Deodorant.  
Use since Dec. 9, 1954.

## CLASS 52

SN 639,102. Berman Chemical Co., Toledo, Ohio, from Stanley W. Berman, Milton M. Bloom and Edward L. Straub, trustees of the estate of Charles D. Berman (deceased), d. b. a. Berman Chemical Co. Filed Dec. 6, 1952.



Applicant claims ownership of Reg. No. 374,090.  
For Cleaning Preparations for Pools, Showers, Floors, Wash-Bowls, Toilets, Bath Tubs, Marble, Tile, Woodwork and Like Surfaces; and a Metal Cleaning Preparation.  
Use since on or about Jan. 2, 1935.

SN 664,392. John S. Badzik, d. b. a. Bahico Laboratories, Glendale, Calif. Filed Apr. 13, 1954.



For Cleaner for Ceramic Tile, Brickwork, Flagstone, and Porcelain.  
Use since on or about July 19, 1951.

## SERVICE MARKS

## CLASS 100

SN 677,817. Shoes Associated, New York, N. Y. Filed Dec. 6, 1954.



For Furnishing Trade Information and Advice to a Specialized Group of Retailers in Connection With Styling, Market-

For Detergents for Industrial Use.  
Use since Jan. 20, 1954.

SN 667,131. James W. Langman, Cleveland, Ohio. Filed May 26, 1954.



For Toilet Bowl Cleaning Agents in Tablet Form.  
Use since May 19, 1954.

SN 676,084. Stanalchem, Inc., New York, N. Y. Filed Nov. 1, 1954.



For Detergent for Household and Other Uses.  
Use since Aug. 12, 1954.

SN 677,492. Doller Corporation, New York, N. Y. Filed Nov. 30, 1954.



For Toilet Soap.  
Use since Nov. 5, 1954.

ing and Promoting the Sale of Shoes, Hosiery, Handbags, and Kindred Merchandise.  
Use since Sept. 3, 1954.

## CLASS 104

SN 680,182. The Crosley Broadcasting Corporation, Cincinnati, Ohio. Filed Jan. 20, 1955.

nothing Works Like Wantmanship

For Radio and Television Broadcast Services.  
Use since Mar. 5, 1954.

TRADEMARK REGISTRATIONS ISSUED  
PRINCIPAL REGISTER

## CLASS 1

609,754. FIRITE. Adrian B. Davis, d. b. a. Davis Manufacturing Company. SN 651,905. Pub. 5-10-55. Filed 8-17-53.

609,755. WITHDRAWN.

609,756. BAR-B-Q MAJIC AND DESIGN. Green Hickory Mill. SN 662,791. Pub. 5-10-55. Filed 3-17-54.

609,757. ERICH NEUMANN'S ROTER JAMES GRIEVE. Wilhelm Fey. SN 665,695. Pub. 5-3-55. Filed 5-4-54.

609,758. GAFITE. General Aniline & Film Corporation. SN 666,840. Pub. 5-3-55. Filed 5-21-54.

609,759. CHEMFLUOR. Chemplast, Inc. SN 667,508. Pub. 5-3-55. Filed 6-2-54.

609,760. BURPEE'S BIG BOY. W. Atlee Burpee Company. SN 668,014. Pub. 5-10-55. Filed 6-10-54.

609,761. CARNIVAL AND DESIGN. Bodger Seeds, Ltd. SN 668,142. Pub. 5-3-55. Filed 6-14-54.

609,762. CONFETTI AND DESIGN. Bodger Seeds, Ltd. SN 668,143. Pub. 5-3-55. Filed 6-14-54.

609,763. MARDI GRAS AND DESIGN. Bodger Seeds, Ltd. SN 668,144. Pub. 5-3-55. Filed 6-14-54.

609,764. CALBRITE. Crosby Chemicals, Inc. SN 670,727. Pub. 5-3-55. Filed 7-28-54.

609,765. BEREZ. Crosby Chemicals, Inc. SN 670,731. Pub. 5-10-55. Filed 7-28-54.

609,766. HANDI-GRIP. American Sponge and Chamols Company, Inc. SN 671,010. Pub. 5-3-55. Filed 8-3-54.

609,767. QUILTICEL. Celanese Corporation of America. SN 671,018. Pub. 5-3-55. Filed 8-3-54.

609,768. COMMAND PERFORMANCE. Ebinger Brothers Leather Company. SN 671,420. Pub. 5-3-55. Filed 8-10-54.

609,769. UNIVEST. Pre-Vest, Inc. SN 671,859. Pub. 5-3-55. Filed 8-17-54.

609,770. CHARCROSS AND DESIGN. R. D. & C. S. Ferris. SN 671,862. Pub. 5-10-55. Filed 8-17-54.

609,771. SIL-CO-SIL. Ottawa Silica Company. SN 671,905. Pub. 5-10-55. Filed 8-18-54.

609,772. CAMBI-BUCK. Gellich Leather Company. SN 671,994. Pub. 5-10-55. Filed 8-20-54.

609,773. CAMBI-COROVAN. Gellich Leather Company. SN 671,995. Pub. 5-10-55. Filed 8-20-54.

609,774. CAMBI-RUFF. Gellich Leather Company. SN 671,996. Pub. 5-10-55. Filed 8-20-54.

## CLASS 3

609,775. LIFETIME. Weston Mfg. & Supply Co. SN 640,538. Pub. 5-10-55. Filed 1-8-53.

609,776. ARROW AND DESIGN. Cluett, Peabody & Co., Inc. SN 654,199. Pub. 4-26-55. Filed 10-5-53.

609,777. PETRIX. Phoenix Trimming Company. SN 666,129. Pub. 5-3-55. Filed 5-11-54.

609,778. GUARD-IT" AND DESIGN. The Guardsman Company. SN 673,097. Pub. 4-26-55. Filed 9-13-54.

609,779. "THE TRIPLE HIT." Licht and Kaplan, Inc. SN 673,186. Pub. 4-26-55. Filed 9-14-54.

609,780. MARCO POLO. Auriol M. Stryker. SN 673,308. Pub. 4-26-55. Filed 9-16-54.

609,781. CHAMPION. William A. Anderson. SN 673,325. Pub. 5-10-55. Filed 9-17-54.

609,782. DEXTER. Nash Inc. SN 673,850. Pub. 4-26-55. Filed 9-27-54.

609,783. CHIN-GUARD. Berl D. Ledbetter. SN 674,264. Pub. 5-10-55. Filed 10-4-54.

609,784. WONDERHIDE. Dubette Bags, Inc., d. b. a. Dubette Bags. SN 674,328. Pub. 5-10-55. Filed 10-5-54.

## CLASS 6

609,785. FERROSEAL (FANCIFUL). The Walterisation Company Limited. SN 647,818. Pub. 5-10-55. Filed 5-27-53.

609,786. PERDOL. Boehme Fettchemie G. m. b. H. SN 655,032. Pub. 5-10-55. Filed 10-20-53.

609,787. EMBELLO. Ciba Limited. SN 668,824. Pub. 5-10-55. Filed 6-24-54.

609,788. INVALON. Ciba Limited. SN 668,825. Pub. 5-10-55. Filed 6-24-54.

609,789. COVER-COTE. Metallurgical Products Company. SN 671,172. Pub. 4-19-55. Filed 8-5-54.

## CLASS 7

609,790. FIBRE-WHITE. Plymouth Cordage Company. SN 654,839. Pub. 5-3-55. Filed 10-15-53.

609,791. CONDOR AND DESIGN. S. A. Etco (European Overseas Trading Company). SN 659,693. Pub. 4-26-55. Filed 11-20-53.

609,792. TROJAN. American Manufacturing Company, also d. b. a. St. Louis Cordage Mills. SN 664,204. Pub. 5-10-55. Filed 4-9-54.

609,793. PERMATIZED. American Manufacturing Company. SN 669,958. Pub. 5-3-55. Filed 7-14-54.

609,794. BRODRIL. Broderick & Bascom Rope Company. SN 670,328. Pub. 5-3-55. Filed 7-21-54.

609,795. BROLOC. Broderick & Bascom Rope Company. SN 671,929. Pub. 5-10-55. Filed 8-19-54.

## CLASS 9

609,796. AYA AND DESIGN. Aguirre y Aranzabal, S. R. C. SN 614,482. Pub. 5-3-55. Filed 5-29-51.

609,797. OERLIKON AND DESIGN. Oerlikon Machine Tool Works, Buehrle & Co. SN 657,951. Pub. 5-10-55. Filed 12-14-53.

609,798. TEXAN. The Marlin Firearms Company. SN 663,034. Pub. 5-3-55. Filed 3-22-54.

## CLASS 10

609,799. BU-T-GRO. Lexington Gardens, Inc. SN 671,042. Pub. 5-3-55. Filed 8-3-54.

## CLASS 12

609,800. DRAIN-A-WAY. Robert F. Buchanan. SN 651,563. Pub. 5-10-55. Filed 8-10-53.

609,801. LU VENT AND DESIGN. Weather Products Inc. SN 657,813. Pub. 5-3-55. Filed 12-10-53.

609,802. CLARK'S ELASTIC PORCELAIN IN OVAL DESIGN. Meredith C. Bishop. SN 662,600. Pub. 5-3-55. Filed 3-15-54.

609,803. HEVICOTE. H. C. Price Company. SN 664,878. Pub. 5-3-55. Filed 4-20-54.

609,804. 4 IN 1. The L. R. Oatey Company. SN 664,966. Pub. 5-10-55. Filed 4-21-54.

609,805. ARISTO-BATH. Stewart-Hall Corporation. SN 670,250. Pub. 5-3-55. Filed 7-19-54.

609,806. TUBELITE. Miller Industries, Inc. SN 672,428. Pub. 5-3-55. Filed 8-30-54.

609,807. ALUMIKAPS. Alumacraft Products Company. SN 673,639. Pub. 5-3-55. Filed 9-23-54.

609,808. CI IN TRIANGLE DESIGN WITHIN A CIRCLE. Chemiglas, Inc. SN 673,809. Pub. 5-10-55. Filed 9-27-54.

609,809. CADMUS STEEL JOISTS AND DESIGN (JOIST). Cadmus Long Span and Joist Corporation. SN 674,444. Pub. 5-10-55. Filed 10-7-54.



- 609,810. PERMA-PLY. Owens-Corning Fiberglas Corporation. SN 675,417. Pub. 5-3-55. Filed 10-25-54.  
 609,811. COLORFLEX. Raymond W. Kerr, d. b. a. Kerrco Products. SN 675,802. Pub. 5-3-55. Filed 11-1-54.  
 609,812. SILENT GLIDE. The Weatherproof Products Corp. SN 675,858. Pub. 5-3-55. Filed 11-1-54.  
 609,813. ZIP-KOTE 6. Midwest Industrial Products Corp. SN 676,130. Pub. 5-10-55. Filed 11-5-54.  
 609,814. ZIP-DECK. Midwest Industrial Products Corp. SN 676,131. Pub. 5-10-55. Filed 11-5-54.

## CLASS 14

- 609,815. ZR GRADE AND DESIGN. Foote Mineral Company. SN 662,788. Pub. 5-3-55. Filed 3-17-54.  
 609,816. UNIVAC. Universal-Cyclops Steel Corporation. SN 672,608. Pub. 5-3-55. Filed 9-1-54.  
 609,817. CUSTOM TRODE. Eutectic Welding Alloys Corporation. SN 672,727. Pub. 5-3-55. Filed 9-3-54.  
 609,818. HELLENIC WIDE. Bauer Alphabets Inc. SN 672,786. Pub. 5-3-55. Filed 9-7-54.  
 609,819. NM. American Nickeloid Company. SN 672,920. Pub. 5-3-55. Filed 9-9-54.  
 609,820. NM AND CIRCLE DESIGN. American Nickeloid Company. SN 672,996. Pub. 5-3-55. Filed 9-10-54.

## CLASS 15

- 609,821. TROPHY, ETC. AND DESIGN. H. K. Stahl Company. SN 638,032. Pub. 5-10-55. Filed 10-29-52.  
 609,822. CACTUS FRICTION-PLATE AND DESIGN. Southwestern Petroleum Co., Inc. SN 651,295. Pub. 5-10-55. Filed 8-3-53.  
 609,823. CHEM-CUT. Bekol Chemicals, Incorporated. SN 665,395. Pub. 5-10-55. Filed 4-29-54.  
 609,824. SLO-FLO. Swan-Finch Oil Corporation. SN 666,395. Pub. 5-10-55. Filed 5-14-54.  
 609,825. MATADOR AND DESIGN (REPRESENTATION OF HUMAN MALE IN CIRCLE). Paul C. Roche Company, Inc. SN 669,361. Pub. 5-10-55. Filed 7-2-54.  
 609,826. WHITE HORSE AND DESIGN (REPRESENTATION OF A HORSE'S HEAD). Paul C. Roche Company, Inc. SN 669,362. Pub. 5-10-55. Filed 7-2-54.  
 609,827. MULTI-MILES. The R. J. Brown Company. SN 669,734. Pub. 5-3-55. Filed 7-12-54.  
 609,828. CORO-NIEL. Claudius Nielsen, d. b. a. Nielco Laboratories. SN 671,364. Pub. 5-10-55. Filed 8-9-54.  
 609,829. PARTEX. R. T. Vanderbilt Company, Inc. SN 675,930. Pub. 5-10-55. Filed 11-2-54.

## CLASS 16

- 609,830. RUF-SEAL. Medusa Portland Cement Company. SN 626,951. Pub. 5-10-55. Filed 3-24-52.  
 609,831. ARVON. Arvon Products Co. Inc. SN 637,743. Pub. 5-10-55. Filed 11-7-52.  
 609,832. LOXAL. Parker Rust Proof Company. SN 660,888. Pub. 5-3-55. Filed 2-10-54.  
 609,833. SHOW-OFF. Show-Off, Inc. SN 667,455. Pub. 5-3-55. Filed 6-1-54.  
 609,834. REXTON AND DESIGN. Rexton Finishes, Incorporated. SN 675,911. Pub. 5-10-55. Filed 11-2-54.  
 609,835. TEXTROL. Rexton Finishes, Incorporated. SN 675,912. Pub. 5-3-55. Filed 11-2-54.  
 609,836. REXATHERM. Rexton Finishes, Incorporated. SN 675,913. Pub. 5-3-55. Filed 11-2-54.  
 609,837. REXADHERE. Rexton Finishes, Incorporated. SN 675,914. Pub. 5-3-55. Filed 11-2-54.  
 609,838. REXADUR. Rexton Finishes, Incorporated. SN 675,915. Pub. 5-3-55. Filed 11-2-54.  
 609,839. HEATREX. Rexton Finishes, Incorporated. SN 675,916. Pub. 5-3-55. Filed 11-2-54.  
 609,840. VINREX. Rexton Finishes, Incorporated. SN 675,918. Pub. 5-10-55. Filed 11-2-54.  
 609,841. ZINC OXIDE AZO ZZZ-55 AND DESIGN. American Zinc Sales Company. SN 676,161. Pub. 5-10-55. Filed 11-8-54.

- 609,842. ZINC OXIDE AZO ZZZ-44 AND DESIGN. American Zinc Sales Company. SN 676,163. Pub. 5-10-55. Filed 11-8-54.  
 609,843. REXLANCE. Rexton Finishes, Incorporated. SN 676,409. Pub. 5-10-55. Filed 11-10-54.

## CLASS 18

- 609,844. DECILOMYCIN. American Cyanamid Company. SN 645,369. Pub. 5-10-55. Filed 4-16-53.  
 609,845. ROFAY AL-GENE RUB. Max J. Gruhin, d. b. a. Rofay Products. SN 657,715. Pub. 5-10-55. Filed 12-9-53.  
 609,846. MOORMAN'S MINTRATE. Moorman Manufacturing Company. SN 658,471. Pub. 5-10-55. Filed 12-23-53.  
 609,847. PORCINAR. Armour and Company. SN 659,028. Pub. 5-10-55. Filed 1-6-54.  
 609,848. SALS. J. L. Swain, Sr., d. b. a. J. L. S. Company. SN 659,681. Pub. 5-10-55. Filed 1-18-54.  
 609,849. RAUPINETTEN. C. F. Boehringer & Soehne G. m. b. H. SN 662,189. Pub. 5-10-55. Filed 3-8-54.  
 609,850. NELSON'S OCEAN KELP KELP-ETTES AND DESIGN. Carl A. Nelson. SN 663,495. Pub. 5-17-55. Filed 3-29-54.  
 609,851. WITHDRAWN.  
 609,852. VONATEL. Charles L. Anderson, d. b. a. The Vonatel Co. SN 668,620. Pub. 5-17-55. Filed 6-22-54.  
 609,853. DORNOTIC. Merck & Co., Inc. SN 671,952. Pub. 4-19-55. Filed 8-19-54.  
 609,854. SLIM-TRIM. Frances Denney. SN 672,500. Pub. 4-12-55. Filed 8-31-54.  
 609,855. STILPHOSTROL. Ames Company, Inc. SN 672,555. Pub. 5-3-55. Filed 9-1-54.  
 609,856. TRIVA. Boyle & Company. SN 672,562. Pub. 5-3-55. Filed 9-1-54.  
 609,857. PEP PA MIN IT AND DESIGN (REPRESENTATION OF CIRCLES). Herbert A. Schloss, d. b. a. The Pep-Pa-Min-It Company of Baltimore. SN 672,598. Pub. 5-3-55. Filed 9-1-54.  
 609,858. S ONE AND DESIGN. Fred W. Pease, d. b. a. Fred Pease & Company. SN 675,095. Pub. 5-17-55. Filed 10-19-54.

## CLASS 20

- 609,859. FLORWEAVE. Beardmore & Co. Limited. SN 669,167. Pub. 5-3-55. Filed 6-30-54.

## CLASS 21

- 609,860. BROILATRON. General Electric Company. SN 658,780. Pub. 5-3-55. Filed 12-30-53.  
 609,861. AMERICAN DRYER. American Dryer Distributing Corp. SN 659,841. Pub. 5-3-55. Filed 1-21-54.  
 609,862. SIL-CLAD. Electric Machinery Mfg. Company. SN 662,618. Pub. 5-3-55. Filed 3-15-54.  
 609,863. TRIANGLES DESIGN. David L. Arenberg, d. b. a. Arenberg Ultrasonic Laboratory. SN 662,706. Pub. 5-3-55. Filed 3-16-54.  
 609,864. WAST-E-SCAPE. Paroni & Murray. SN 662,887. Pub. 5-3-55. Filed 3-18-54.  
 609,865. WINGBOW. Frenchy Radio Manufacturing Co. SN 663,777. Pub. 5-3-55. Filed 4-2-54.  
 609,866. FLYING FARMER. McGraw Electric Company. SN 664,082. Pub. 5-3-55. Filed 4-7-54.  
 609,867. PMI AND DESIGN. PM Industries, Incorporated. SN 664,619. Pub. 5-3-55. Filed 4-15-54.  
 609,868. ELUX. Electrolux Corporation. SN 664,662. Pub. 5-3-55. Filed 4-16-54.  
 609,869. CENTRISHIELD. Magnetic Metals Company. SN 664,771. Pub. 5-3-55. Filed 4-19-54.  
 609,870. PAR-LINE. Reading Batteries, Inc. SN 665,520. Pub. 5-3-55. Filed 4-30-54.  
 609,871. C-I. Century Lighting, Inc. SN 666,435. Pub. 5-3-55. Filed 5-17-54.  
 609,872. VARLAR THE PEAK OF QUALITY AND DESIGN. New Jersey Wood Finishing Company. SN 666,593. Pub. 5-3-55. Filed 5-18-54.

- 609,873. "DECORATOR." Wizard Electronics, to Eugene F. O'Hare. SN 667,360. Pub. 5-3-55. Filed 5-28-54.  
 609,874. ELECTRINATOR. Gasinator Manufacturing Company. SN 667,623. Pub. 5-3-55. Filed 6-3-54.  
 609,875. STANLEY HANDYMAN AND DESIGN. The Stanley Works. SN 668,284. Pub. 5-3-55. Filed 6-16-54.  
 609,876. VELVALITE. Imperial Lighting Products Company. SN 668,843. Pub. 5-3-55. Filed 6-24-54.  
 609,877. 479 ALLOY. Sigmund Cohn Corp. SN 673,172. Pub. 5-3-55. Filed 9-14-54.  
 609,878. WILLIAMS. Henney Motor Company, Inc. SN 673,180. Pub. 5-3-55. Filed 9-14-54.  
 609,879. SLUMBEREST. Electric Parts Corporation. SN 675,697. Pub. 4-5-55. Filed 10-29-54.

## CLASS 22

- 609,880. BOWL A DART AND DESIGN (REPRESENTATION OF DART). H. & W. Associates. SN 662,730. Pub. 5-17-55. Filed 3-16-54.  
 609,881. PATHFINDER. Milton Bradley Company. SN 671,488. Pub. 5-17-55. Filed 8-11-54.  
 609,882. PICO AND DESIGN. Padre Island Co., Inc. SN 672,347. Pub. 5-17-55. Filed 8-27-54.  
 609,883. MARK-FIVE. B. F. Gladding & Company, Inc. SN 675,145. Pub. 5-17-55. Filed 10-20-54.  
 609,884. AQUA-SINK. B. F. Gladding & Company, Inc. SN 675,146. Pub. 5-17-55. Filed 10-20-54.  
 609,885. SPACE STATION. Southeastern International Corp. SN 675,175. Pub. 5-17-55. Filed 10-20-54.  
 609,886. KID GERSON. Chicago Belt & Leather Novelties Co., d. b. a. Western Corral Industries. SN 675,207. Pub. 5-17-55. Filed 10-21-54.  
 609,887. MARK V. Lamond Bunting. SN 675,963. Pub. 5-17-55. Filed 11-3-54.

## CLASS 23

- 609,888. ARONSON UNIVERSAL BALANCED POSITIONING AND DESIGN. Charles N. Aronson, d. b. a. Aronson Machine Company. SN 603,278. Pub. 5-3-55. Filed 9-8-50.  
 609,889. PARK-O-MAT AND DESIGN. Park-O-Mat, Inc. SN 640,301. Pub. 5-3-55. Filed 1-2-53.  
 609,890. JURID. Jurid Werke Aktiengesellschaft, by change of name from Kirchbachsche Werke A. G. SN 652,198. Pub. 5-10-55. Filed 8-24-53.  
 609,891. TARGET AND DESIGN. Robert G. Evans Co. SN 667,108. Pub. 5-3-55. Filed 5-26-54.  
 609,892. WEED-O-MATIC AND DESIGN. Franklin Products, Inc. SN 670,190. Pub. 5-3-55. Filed 7-19-54.

## CLASS 24

- 609,893. WEDGEWOOD. Rheem Manufacturing Company. SN 671,590. Pub. 5-3-55. Filed 8-12-54.

## CLASS 26

- 609,894. CONTRA-BLEND. Geraetebau-Anstalt, Balzers. SN 639,036. Pub. 5-10-55. Filed 12-5-52.  
 609,895. MIROSAN. Geraetebau-Anstalt, Balzers. SN 639,037. Pub. 5-10-55. Filed 12-5-52.

## CLASS 29

- 609,896. MAGIC WAND. John L. Lyons, d. b. a. National Distributors. SN 664,672. Pub. 5-10-55. Filed 4-20-54.

## CLASS 32

- 609,897. SHELFADOR. Smokador Manufacturing Co., Inc. SN 664,480. Pub. 5-3-55. Filed 4-13-54.

## CLASS 36

- 609,898. T AND DESIGN. Dr. Thomastik und Mitarbeiter Offene Handelsgesellschaft. SN 661,800. Pub. 5-3-55. Filed 2-18-54.  
 609,899. BAND BOX. Aurelia Vicki Morosan, d. b. a. Broadway Sound Productions. SN 671,181. Pub. 5-3-55. Filed 8-5-54.  
 609,900. SHORTY-TUNES. Standard Radio Transcription Services, Inc. SN 671,536. Pub. 5-3-55. Filed 8-11-54.

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- 609,901. GRAND AWARD. Waldorf Record Corp. SN 671,615. Pub. 5-3-55. Filed 8-12-54.

## CLASS 37

- 609,902. MILTEX. Fort Howard Paper Company. SN 657,910. Pub. 5-3-55. Filed 12-14-53.  
 609,903. "TRACE-A-FACE." Eberhard Faber Pencil Company. SN 659,398. Pub. 4-26-55. Filed 1-13-54.  
 609,904. PRODUCT OF PORT HURON AND DESIGN. Port Huron Suphite & Paper Co. SN 660,669. Pub. 4-26-55. Filed 2-5-54.  
 609,905. RE-TEN-SHUN CORRUGATED BOARD AND DESIGN. International Paper Company. SN 667,532. Pub. 5-3-55. Filed 6-2-54.  
 609,906. REMOV-A-LEX. Banks-Baldwin Law Publishing Company. SN 670,405. Pub. 4-26-55. Filed 7-22-54.  
 609,907. BUSINESS BUILDERS. Brown & Bigelow. SN 671,717. Pub. 5-3-55. Filed 8-16-54.

## CLASS 38

- 609,908. DENTAL DIGEST. Dental Digest, Inc. SN 657,698. Pub. 5-10-55. Filed 12-9-53.  
 609,909. MICRO-MASTER. Joseph H. Wally, Jr., to Micro-Master, Inc. SN 665,385. Pub. 5-10-55. Filed 4-28-54.  
 609,910. MUSIC FAIRYLAND. Dorothy Bucksten. SN 666,721. Pub. 5-10-55. Filed 5-20-54.  
 609,911. PIANO FAIRYLAND. Dorothy Bucksten. SN 666,722. Pub. 5-10-55. Filed 5-20-54.

## CLASS 39

- 609,912. LOAFER JACK. Kalamazoo Pant Company. SN 621,067. Pub. 5-10-55. Filed 11-9-51.  
 609,913. LOAFER JEANS. Kalamazoo Pant Company. SN 621,068. Pub. 5-10-55. Filed 11-9-51.  
 609,914. CLUBMAN AND DESIGN. R. H. Fyfe & Co. SN 642,508. Pub. 5-10-55. Filed 1-30-53.  
 609,915. A SIGNATURE ORIGINAL AND DESIGN. Carol Stanley, Inc. SN 642,784. Pub. 5-10-55. Filed 2-25-53.  
 609,916. CARABI AND DESIGN. The Society La Cotonniere de Saint-Quentin, Société Anonyme. SN 648,805. Pub. 5-10-55. Filed 6-15-53.  
 609,917. LAWRENCE STANLEY ORIGINALS LS AND DESIGN. Simon Weiner. SN 649,265. Pub. 5-10-55. Filed 6-23-53.  
 609,918. BRANDERS. N & W Industries, Inc. SN 656,245. Pub. 5-10-55. Filed 11-12-53.  
 609,919. FLIRTATION WALK. Bestform Foundations, Inc. SN 657,678. Pub. 5-25-54. Filed 12-9-53.  
 609,920. DEBUTANTE. Hollywood-Maxwell Co. SN 657,928. Pub. 5-3-55. Filed 12-14-53.  
 609,921. NON PLUS ULTRA AND DESIGN (SHADOWY FIGURE OF AN ARMED KNIGHT ON A HORSE). G. B. H. Fabrica de Calzados, S. A. SN 658,600. Pub. 4-26-55. Filed 12-28-53.  
 609,922. DOLLY DIMPLES. Burlington County Shoe Corporation. SN 658,697. Pub. 5-3-55. Filed 12-29-53.  
 609,923. MELLOGAB. Marlboro Shirt Company, Inc. SN 659,287. Pub. 7-6-54. Filed 1-11-54.  
 609,924. CAUGHEY. Caughey Footwear, Inc. SN 659,771. Pub. 5-10-55. Filed 1-20-54.  
 609,925. E-JAY. Endicott Johnson Corporation. SN 660,932. Pub. 5-10-55. Filed 2-11-54.  
 609,926. SHAWLERO. Mona Lisa Furs, Inc. SN 661,030. Pub. 5-3-55. Filed 2-12-54.  
 609,927. RENOIR FURS AND DESIGN. Wilner-Rosen Fur Corp. SN 661,604. Pub. 5-3-55. Filed 2-24-54.  
 609,928. SULTAN. Higham-Tong Limited. SN 661,890. Pub. 5-3-55. Filed 3-2-54.  
 609,929. WAND FOOTDEVELOPER. Wolf & Dessauer Company. SN 662,038. Pub. 4-19-55. Filed 3-4-54.  
 609,930. VYNARA. Fairfield Knitwear, Inc. SN 662,206. Pub. 5-3-55. Filed 3-8-54.  
 609,931. FUNNY BOOK SOX. Adams-Millis Corporation. SN 662,498. Pub. 5-10-55. Filed 3-12-54.



- 609,932. BELT 'EMS. The J. H. Levy & Son Co. SN 684,538. Pub. 2-22-55. Filed 4-14-54.  
 609,933. LANOLIZED. Lanolized, Incorporated. SN 684,947. Pub. 5-3-55. Filed 4-21-54.  
 609,934. SQUAW-PANTS. Frederick M. Burns. SN 685,753. Pub. 5-3-55. Filed 5-5-54.  
 609,935. IRON WEAR, ETC. AND DESIGN (HUMAN MALE WITH PENNANT AND SWORD). Manchester Hosiery Mills. SN 687,039. Pub. 4-19-55. Filed 5-25-54.  
 609,936. HUDSON AND DESIGN (REPRESENTATION OF HUMAN LEGS). Hudson Hosiery Company. SN 687,122. Pub. 4-26-55. Filed 5-26-54.  
 609,937. STRETCHMASTERS AND DESIGN. Phoenix Hosiery Company. SN 688,691. Pub. 5-10-55. Filed 6-22-54.  
 609,938. BUNTIKINS. Walter J. Munro. SN 689,460. Pub. 5-3-55. Filed 7-6-54.  
 609,939. JAMIE LEE. Herbert George Myers, d. b. a. My-Len Sales Company. SN 672,589. Pub. 5-10-55. Filed 9-1-54.  
 609,940. WINDSOR. The Hagerstown Rubber Company. SN 672,657. Pub. 5-10-55. Filed 9-2-54.  
 609,941. ADDUCTO-GRIP. Foot Adductor Shoes, Inc. SN 672,943. Pub. 5-10-55. Filed 9-9-54.  
 609,942. CARRIAGE TRADE. Dave Baer Hosiery Mill, Inc. SN 673,330. Pub. 5-10-55. Filed 9-17-54.  
 609,943. DEPENDABLES. Neumode Hosiery Co. SN 673,375. Pub. 4-26-55. Filed 9-17-54.  
 609,944. TRICLAIR. B. Altman & Co. SN 673,638. Pub. 5-10-55. Filed 9-23-54.

## CLASS 42

- 609,945. ROCKABYE. Anderson, Clayton & Co. SN 625,242. Pub. 11-9-54. Filed 2-20-52.  
 609,946. SANITEX. Thomas Textile Co., Inc. SN 656,344. Pub. 5-10-55. Filed 11-13-53.  
 609,947. NYL-TWIST. Aldon Rug Mills, Inc. SN 658,956. Pub. 5-10-55. Filed 1-5-54.  
 609,948. STEVECORA. Steveco Textile Company. SN 662,494. Pub. 5-3-55. Filed 3-11-54.  
 609,949. K. Knoll Associates Inc. SN 664,328. Pub. 5-3-55. Filed 4-12-54.  
 609,950. ACRYLOCOTTON. American Cyanamid Company. SN 664,829. Pub. 5-3-55. Filed 4-20-54.  
 609,951. TALISMANO. Domenico Orsi. SN 666,512. Pub. 5-3-55. Filed 5-17-54.  
 609,952. ACETYLEX. Wm. E. Hooper & Sons Co. SN 668,841. Pub. 5-3-55. Filed 6-24-54.  
 609,953. COLOR-GAY. Belrug Mills of South Carolina. SN 668,965. Pub. 5-3-55. Filed 6-28-54.  
 609,954. WEARS LONGEST CLEANS EASIEST AND DESIGN. Collins & Alkman Corporation. SN 669,177. Pub. 5-3-55. Filed 6-30-54.  
 609,955. JONI-GOWNS. Edward I. Margoles, d. b. a. Glenn & Thomas Company, to Glenn Thomas Company, Inc. SN 669,619. Pub. 5-3-55. Filed 7-8-54.  
 609,956. NYL-PLUSH. Aldon Rug Mills Inc. SN 669,722. Pub. 5-3-55. Filed 7-12-54.  
 609,957. SAILMAKER. Reliable Textile Company, Inc. SN 671,377. Pub. 5-10-55. Filed 8-9-54.  
 609,958. PARLIAMENT. Alexander Smith, Incorporated. SN 673,482. Pub. 5-10-55. Filed 9-20-54.  
 609,959. CAMEO PAK AND DESIGN. Cameo Curtains, Inc. SN 673,568. Pub. 5-10-55. Filed 9-22-54.  
 609,960. EZE-PANEL. Karl F. Kluth, d. b. a. Kluth Southwest Converters. SN 673,747. Pub. 5-10-55. Filed 9-24-54.  
 609,961. RUFF-LIN PRINTS. N. Fluegelman & Co., Inc. SN 673,977. Pub. 5-10-55. Filed 9-29-54.

## CLASS 43

- 609,962. ACRYLOCOTTON. American Cyanamid Company. SN 664,830. Pub. 5-10-55. Filed 4-20-54.  
 609,963. CRINETTE. Botany Mills, Inc. SN 673,641. Pub. 5-10-55. Filed 9-23-54.  
 609,964. SPIRO GLO. Botany Mills, Inc. SN 673,642. Pub. 5-10-55. Filed 9-23-54.

- 609,965. GOLD MEDAL. Gold Medal Yarn Company. SN 673,737. Pub. 6-10-55. Filed 9-24-54.

## CLASS 44

- 609,966. MEDICON AND DESIGN. Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H., now by change of name Medicon Chirurgiemechaniker-genossenschaft eingetragene Genossenschaft mit beschränkter Haftpflicht. SN 629,271. Pub. 12-1-53. Filed 12-22-51.  
 609,967. SYNCARDON. Maurice Fuchs. SN 655,523. Pub. 5-3-55. Filed 10-29-53.  
 609,968. MOLEFOAM. The Scholl Mfg. Co., Inc. SN 656,115. Pub. 5-3-55. Filed 11-9-53.  
 609,969. CUTWELL. The Ransom & Randolph Company. SN 664,977. Pub. 5-3-55. Filed 4-21-54.  
 609,970. DUROC. The Ransom & Randolph Company. SN 664,978. Pub. 5-3-55. Filed 4-21-54.  
 609,971. ORTHO AND DESIGN. Ortho Pharmaceutical Corporation. SN 670,436. Pub. 5-3-55. Filed 7-22-54.  
 609,972. LARRE' AND DESIGN. Larre Laboratories Inc. SN 670,933. Pub. 5-3-55. Filed 8-2-54.  
 609,973. MIX-O-MASK. O. E. M. Corporation. SN 670,965. Pub. 5-3-55. Filed 8-2-54.  
 609,974. THERMAL-OX. O. E. M. Corporation. SN 670,966. Pub. 5-3-55. Filed 8-2-54.  
 609,975. FLEXTEEL. Surgical Instrument Company. SN 670,994. Pub. 5-3-55. Filed 8-2-54.  
 609,976. SECTO. Johnson & Johnson. SN 671,038. Pub. 5-3-55. Filed 8-3-54.  
 609,977. POROPLAST. The Scholl Mfg. Co. Inc. SN 671,061. Pub. 5-3-55. Filed 8-3-54.  
 609,978. STERIDROPPA. Ophthalmos, Inc. SN 671,368. Pub. 5-3-55. Filed 8-9-54.

## CLASS 46

- 609,979. STEAK N SHAKE. Steak n Shake, Inc. SN 567,053. Pub. 5-3-55. Filed 10-15-48.  
 609,980. GOLDEN CRISP. Popped-Right Corn Company. SN 641,519. Pub. 5-10-55. Filed 1-29-53.  
 609,981. IPC IMHOF'S REGENCY BRAND AND DESIGN. Imhof Packing Co., Inc. SN 644,034. Pub. 5-10-55. Filed 3-23-53.  
 609,982. RIGAL ROQUEFORT, ETC., AND DESIGN. Societe des Etablissements Louis Rigal, Societe Anonyme. SN 647,960. Pub. 5-10-55. Filed 5-29-53.  
 609,983. HI-TOSE. Union Starch & Refining Company. SN 649,619. Pub. 5-10-55. Filed 6-30-53.  
 609,984. DULANY AND DESIGN. John H. Dulany & Son, Inc. SN 649,990. Pub. 5-10-55. Filed 7-8-53.  
 609,985. CUPLETS. Flako Products Corporation. SN 652,274. Pub. 5-17-55. Filed 8-25-53.  
 609,986. LA PATRONA AND DESIGN. Flgge & Hutwelker Co. SN 653,798. Pub. 5-17-55. Filed 8-24-53.  
 609,987. WONDER WHIP. Wonder Whip, Inc. SN 653,945. Pub. 5-3-55. Filed 9-29-53.  
 609,988. MOUNTAIN LION COLORADO PEARS AND DESIGN. Cooperative Producers, Inc. SN 654,173. Pub. 5-10-55. Filed 10-1-53.  
 609,989. ALBA AND DESIGN. Weldon Farm Products, Inc. SN 654,772. Pub. 5-10-55. Filed 10-14-53.  
 609,990. VITALIA AND DESIGN. Örnulf Thorbjörn Myklestad. SN 656,445. Pub. 5-3-55. Filed 11-16-53.  
 609,991. WHITE ACRE. McMullen Food Bank, Inc. SN 656,727. Pub. 5-3-55. Filed 11-20-53.  
 609,992. MINIDOKA. Muir-Roberts & Burningham, Incorporated. SN 657,363. Pub. 5-17-55. Filed 12-3-53.  
 609,993. PRETTY PLATE. Leo Peters, d. b. a. Gracious Foods Co. SN 658,544. Pub. 5-17-55. Filed 12-24-53.  
 609,994. DAIMARU AND DESIGN. Modern Food Products Company, d. b. a. Modern Import Company. SN 658,634. Pub. 5-10-55. Filed 12-28-53.  
 609,995. PRIDE OF MINNESOTA. Atkinson Milling Company. SN 659,029. Pub. 5-10-55. Filed 1-6-54.  
 609,996. FRUIT-OF-THE-VINE. The Welch Grape Juice Company, Inc. SN 659,585. Pub. 5-10-55. Filed 1-15-54.

- 609,997. LA CARRETILLA AND DESIGN. Industrias Muerza S. A. Viuda e Hijos de Maximo Muerza. SN 661,450. Pub. 5-17-55. Filed 2-23-54.  
 609,998. LULU. Slayman Fruit Company. SN 661,842. Pub. 5-10-55. Filed 3-1-54.  
 609,999. JINGLE BELL. House of Huston, Inc. SN 662,102. Pub. 5-10-55. Filed 3-5-54.  
 610,000. BOBS. Bobs Candy & Peanut Company, Inc. SN 662,507. Pub. 5-10-55. Filed 3-12-54.  
 610,001. SNOWBIRD AND DESIGN (REPRESENTATION OF A BIRD). Acadia Fisheries Ltd. SN 662,703. Pub. 5-10-55. Filed 3-16-54.  
 610,002. FORTY ACRES RANCH. Henry J. Stentiford and Marguerite E. Stentiford, d. b. a. Forty Acres Ranch. SN 662,726. Pub. 5-17-55. Filed 3-16-54.  
 610,003. REPRESENTATION OF A CHICKEN. Henry J. Stentiford and Marguerite E. Stentiford, d. b. a. Forty Acres Ranch. SN 662,727. Pub. 5-17-55. Filed 3-16-54.  
 610,004. STATE FAIR. Food Fair Stores, Inc. SN 662,785. Pub. 5-10-55. Filed 3-17-54.  
 610,005. JENNY BROWN. National Fruit Product Company, Inc. SN 663,206. Pub. 5-10-55. Filed 3-24-54.  
 610,006. EL JIBARITO. Unanue & Sons, Inc. SN 667,184. Pub. 5-17-55. Filed 5-26-54.  
 610,007. DAWN FRESH. Michigan Mushroom Company. SN 668,572. Pub. 4-26-55. Filed 6-21-54.  
 610,008. OLD VIRGINIA AND DESIGN (SHIELD). Old Virginia Packing Co., Inc. SN 669,206. Pub. 5-10-55. Filed 6-30-54.  
 610,009. PRIME. Iodent Chemical Company. SN 669,689. Pub. 5-3-55. Filed 7-9-54.  
 610,010. "BOSTON BONNIE." Genoa Fisheries, Inc., d. b. a. Boston Bonnie Fisheries. SN 669,762. Pub. 5-10-55. Filed 7-12-54.  
 610,011. SUN-SPUN. Kitchen Products, Inc. SN 669,889. Pub. 5-17-55. Filed 7-13-54.  
 610,012. 1000 SPRINGS. Snake River Trout Company. SN 669,936. Pub. 5-17-55. Filed 7-13-54.  
 610,013. MACCO. The McClancy Company. SN 670,296. Pub. 5-17-55. Filed 7-20-54.  
 610,014. ITALY. Sun Harbor Packing Company. SN 670,816. Pub. 5-17-55. Filed 7-29-54.  
 610,015. DUTCHMAN QUALITY CHARACTER AND DESIGN. George L. Bowman, d. b. a. Dutchman Foods. SN 670,896. Pub. 5-10-55. Filed 8-2-54.  
 610,016. STEINFELD'S AND DESIGN. Steinfeld's Products Company. SN 670,991. Pub. 5-17-55. Filed 8-2-54.  
 610,017. NORDETTES. The Atlantic Coast Fisheries Company. SN 671,085. Pub. 3-15-55. Filed 8-4-54.  
 610,018. MONA LISA AND DESIGN. Edward Moeschetti, d. b. a. Moeschetti Bros. SN 671,183. Pub. 5-17-55. Filed 8-5-54.  
 610,019. TEETHING BISCUITS AND DESIGN (BABY AND BISCUIT). Gerber Products Company, d. b. a. Gerber's Baby Foods. SN 671,641. Pub. 5-10-55. Filed 8-13-54.  
 610,020. CHASU. Mid-Pacific Food Products Co. SN 671,657. Pub. 5-10-55. Filed 8-13-54.  
 610,021. MARVEL. Marvel Foods, Inc. SN 671,904. Pub. 5-10-55. Filed 8-18-54.  
 610,022. D & D. Joe Tallo, Jr., d. b. a. D & D Association. SN 672,190. Pub. 5-10-55. Filed 8-24-54.  
 610,023. ILLINI AND DESIGN. Arthur Zivney, d. b. a. Minonk Dairy Products Co. SN 672,769. Pub. 5-17-55. Filed 9-3-54.  
 610,024. MARSWAY. Mars, Incorporated. SN 672,967. Pub. 5-10-55. Filed 9-9-54.  
 610,025. BLUMAS. Blumas Choc-o-Lac, Inc. SN 673,076. Pub. 5-10-55. Filed 9-13-54.  
 610,026. BEICH. Paul F. Belch Company. SN 673,332. Pub. 5-10-55. Filed 9-17-54.  
 610,027. ORCHARD TREASURE AND DESIGN. Everett G. Gustafson, d. b. a. Gustafson Food Products. SN 673,352. Pub. 5-10-55. Filed 9-17-54.

- 610,028. VEG-ALL AND DESIGN. The Larsen Company. SN 673,459. Pub. 5-10-55. Filed 9-20-54.  
 610,029. CHIFFON VELVET. Mallet & Company, Inc. SN 673,530. Pub. 5-10-55. Filed 9-21-54.  
 610,030. P. I. C. 77. Mallet & Company, Inc. SN 673,532. Pub. 5-10-55. Filed 9-21-54.  
 610,031. VEGALUBE. Mallet & Company, Inc. SN 673,533. Pub. 5-10-55. Filed 9-21-54.  
 610,032. LUCKY FISHERMAN AND DESIGN (REPRESENTATION OF HUMAN MALE FISHING). Five Fishermen Inc. SN 673,657. Pub. 5-10-55. Filed 9-23-54.  
 610,033. FIRMERIZED. Modesto Produce Packing Co., Inc. SN 674,029. Pub. 5-10-55. Filed 8-26-54.  
 610,034. EVERGLADES CREST. Earle K. Harvey, d. b. a. Earle K. Harvey & Sons. SN 674,073. Pub. 5-10-55. Filed 9-30-54.  
 610,035. CONESTOGA. Meyer Schuman Co., d. b. a. Schuman Farms. SN 674,171. Pub. 5-10-55. Filed 10-1-54.  
 610,036. TEEN-AGE. Meyer Schuman Co., d. b. a. Schuman Farms. SN 674,172. Pub. 5-10-55. Filed 10-1-54.  
 610,037. SALVEX. Salinas Valley Vegetable Exchange. SN 674,282. Pub. 5-10-55. Filed 10-4-54.  
 610,038. SNO SEAL. Salinas Valley Vegetable Exchange. SN 674,283. Pub. 5-10-55. Filed 10-4-54.  
 610,039. PEBBLE BEACH. Salinas Valley Vegetable Exchange. SN 674,284. Pub. 5-10-55. Filed 10-4-54.  
 610,040. EAGLE AND DESIGN (EAGLE). Salinas Valley Vegetable Exchange. SN 674,285. Pub. 5-10-55. Filed 10-4-54.  
 610,041. BAY ISLAND. Bay Island Seafood. SN 674,558. Pub. 5-17-55. Filed 10-11-54.  
 610,042. ROCKET POPS AND DESIGN (REPRESENTATION OF A ROCKET AND STARS). Casanova Chocolate Co., Inc. SN 674,658. Pub. 5-17-55. Filed 10-12-54.  
 610,043. MICHIGAN QUEEN. Traverse City Canning Company. SN 674,854. Pub. 5-17-55. Filed 10-14-54.  
 610,044. KAFNURS. Evergreen Mills, Inc. SN 674,955. Pub. 5-17-55. Filed 10-18-54.  
 610,045. GELOSENE. E. F. Drew & Co., Inc. SN 675,057. Pub. 5-17-55. Filed 10-19-54.  
 610,046. POCONO AND DESIGN. Pen Argyl Milling Co., Inc. SN 675,650. Pub. 5-17-55. Filed 10-28-54.  
 610,047. WONDAGREEN. Francis H. Leggett & Company. SN 675,805. Pub. 5-17-55. Filed 11-1-54.  
 610,048. ONTARIO ORE-IDA AND DESIGN. Ore-Ida Potato Products, Inc. SN 676,223. Pub. 5-17-55. Filed 11-8-54.  
 610,049. TRICKS OR TREAT. Northwest Pre-Pak Company. SN 676,827. Pub. 5-17-55. Filed 11-17-54.  
 610,050. JUDEA. Hartford Poultry Inc. SN 676,891. Pub. 5-17-55. Filed 11-18-54.  
 610,051. BRACE. Cherven's Industries, Inc. SN 678,088. Pub. 5-17-55. Filed 12-10-54.  
 610,052. VITALITY LOAF. Omar Incorporated. SN 678,881. Pub. 5-3-55. Filed 12-23-54.

## CLASS 50

- 610,053. TWINKLE SNOW. Lockport Mills, Inc. SN 671,760. Pub. 5-3-55. Filed 8-16-54.

## CLASS 51

- 610,054. SOFT TOUCH. The Gillette Company, d. b. a. The Toni Company. SN 646,066. Pub. 11-24-53. Filed 4-28-53.  
 610,055. KLEINOL AND DESIGN. Kleinol-Produktion G. m. b. H. SN 654,820. Pub. 5-17-55. Filed 10-15-53.  
 610,056. CREMA-BALME. The Buerger Brothers Supply Company. SN 664,286. Pub. 5-17-55. Filed 4-12-54.  
 610,057. GOLDEN TOUCH. Chamberlain Laboratories, Inc., to Weeks and Leo Co. Inc. SN 673,263. Pub. 5-17-55. Filed 9-16-54.  
 610,058. MIDOCEAN AND DESIGN. Davis and Lawrence Company Limited. SN 673,266. Pub. 5-17-55. Filed 9-16-54.



## Service Marks

## CLASS 100

- 610,059. HYDRO-TEST AND DESIGN. Hydro-Test, Inc. SN 630,330. Pub. 5-10-55. Filed 5-27-52.
- 610,060. REPRESENTATION OF A POLAR GRAPH PAPER, ETC. Guy C. Hutcheson. SN 640,737. Pub. 5-10-55. Filed 1-14-53.
- 610,061. B SAFE—SAY BALDWIN. The Baldwin Laundry, to The Baldwin Overall Service, Inc. SN 649,628. Pub. 5-10-55. Filed 7-1-53.
- 610,062. SHARE YOUR BIRTHDAY. Elizabeth D. Heller. SN 661,273. Pub. 5-10-55. Filed 2-18-54.
- 610,063. TRA AND DESIGN (REPRESENTATION OF A HORSE AND RIDER). Thoroughbred Racing Associations of the United States, Inc. SN 671,790. Pub. 5-10-55. Filed 8-16-54.

## CLASS 101

- 610,064. LISTEN & LIVE. Powell-Gayek Advertising, Inc. SN 662,670. Pub. 5-17-55. Filed 3-15-54.
- 610,065. FILE-O-MATIC. United File-O-Matic Inc. SN 670,073. Pub. 5-17-55. Filed 7-15-54.

## CLASS 102

- 610,066. YOUR PASSPORT TO WORRY-FREE RECOVERY. American Hospital Association. SN 632,066. Pub. 5-10-55. Filed 7-2-52.
- 610,067. MD MANAGED DOLLARS AND DESIGN. The Mutual Benefit Life Insurance Company. SN 662,129. Pub. 5-17-55. Filed 3-5-54.

## CLASS 103

- 610,068. CTIS N-A-R-D-A AND ENTIRE LABEL AND DESIGN. National Appliance & Radio Dealers Association, Inc. SN 611,849. COLLECTIVE MARK. Pub. 5-17-55. Filed 3-27-51.
- 610,069. MW AND DESIGN. Metalweld, Incorporated. SN 642,890. Pub. 5-10-55. Filed 2-27-53.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 1

- 610,084. Delson Imports Ltd., Teaneck, N. J. SN 651,647. Filed P. R. 8-11-53. Am. S. R. 2-11-55.

## Greenland Sea Leopard

For Leather; Animal, Fish, and Reptile Skins.  
Use since Jan. 1, 1940.

- 610,085. Mount Arbor Nurseries, Shenandoah, Iowa. SN 651,933. Filed P. R. 8-17-53. Am. S. R. 6-21-54.



For Nursery Stock, including Rose Bushes, Ornamentals, Fruit Trees, Fruiting Plants, Evergreens, Perennials, Bulbs, Roots, and Tubers.  
Use since Jan. 15, 1932.

- 610,070. DAYTON. The Hobart Manufacturing Company. SN 657,035. Pub. 5-10-55. Filed 11-27-53.

## CLASS 104

- 610,071. TALK—DON'T WRITE! Richard C. Denton, d. b. a. Talk-A-Letter Company. SN 661,557. Pub. 5-17-55. Filed 2-24-54.

## CLASS 105

- 610,072. AIR FRANCE. Compagnie Nationale Air France. SN 650,472. Pub. 5-17-55. Filed 7-16-53.
- 610,073. YOUR "NITE OF NIGHTS." Holtel Piccadilly Operating Co. Inc. SN 673,920. Pub. 5-17-55. Filed 9-28-54.

## CLASS 106

- 610,074. ELECTRO GLO. John F. Jumer, d. b. a. Electro Glo Company. SN 626,677. Pub. 5-10-55. Filed 3-19-52.
- 610,075. LACKON. Sun Dial Corporation. SN 627,534. Pub. 5-10-55. Filed 4-3-52.
- 610,076. NYLETTE. Volveray Corporation. SN 656,188. Pub. 5-10-55. Filed 11-10-53.
- 610,077. PEER SET. Peerless Finishing Corp. SN 672,974. Pub. 5-17-55. Filed 9-9-54.

## CLASS 107

- 610,078. THE BIG IDEA. Donn Bennett. SN 658,769. Pub. 5-17-55. Filed 12-30-53.
- 610,079. SPORTSMAN'S DEN. Don C. Wimer. SN 670,145. Pub. 5-17-55. Filed 6-8-54.
- 610,080. ESPUELAS DE PLATA. Rogelio Frias. SN 671,322. Pub. 5-17-55. Filed 8-9-54.
- 610,081. KINGO. King Soopers, Inc. SN 673,875. Pub. 5-17-55. Filed 9-27-54.
- 610,082. PULSE BEAT. Charles W. Grinnell. SN 674,361. Pub. 5-10-55. Filed 10-1-54.
- 610,083. "GUEST CONDUCTOR." American Trucking Associations, Inc. SN 674,864. Pub. 5-10-55. Filed 10-15-54.

*Baxter's Tomato*  
*"It's a Beauty"*

For Tomato Seed.  
Use since Nov. 15, 1953.

- 610,087. Associated Seed Growers, Incorporated, New Haven, Conn. SN 664,646. Filed P. R. 4-16-54. Am. S. R. 2-21-55.

## MacCambridge

For Grass Seed.  
Use since on or about Jan. 12, 1954.

- 610,088. Herman Gregg, Plainview, Tex. SN 667,953. Filed P. R. 6-9-54. Am. S. R. 4-14-55.



For Raw Cotton.  
Use since Apr. 7, 1954.

- 610,089. Harry T. Campbell Sons' Corp., Towson, Md. SN 671,983. Filed 8-20-54.



For Calcite as a Natural Raw Product for Use in the Industrial Arts.  
Use since June 1949.

## CLASS 4

- 610,090. Cook Chemical Company, Kansas City, Mo. SN 661,981. Filed P. R. 3-4-54. Am. S. R. 5-4-55.

## REAL-KLEEN

For Combined Metal Polish and Cleaning Compound.  
Use since June 1952.

## CLASS 10

- 610,091. The Ferro Corporation, Cleveland, Ohio. SN 644,667. Filed P. R. 4-3-53. Am. S. R. 11-24-54.

## Plant-A-Bar

For Fertilizer Materials Formed Into Various Shapes and Having Seeds Embedded Therein.  
Use since Jan. 28, 1953.

- 610,092. Clover Chemical Company, Eighty-Four, Pa. SN 652,056. Filed P. R. 8-20-53. Am. S. R. 10-6-54.

## FERTI-LIQUID

The drawing is lined for green.  
For Liquid Fertilizer.  
Use since on or about July 1, 1953.

- 610,093. Proen Products Co., Berkeley, Calif. SN 663,120. Filed P. R. 3-23-54. Am. S. R. 2-21-55.

## WATERFEED

For Concentrated Water Soluble Fertilizer.  
Use since Dec. 15, 1953.

## CLASS 19

- 610,094. Richard H. Sidles, d. b. a. Sidles Mfg. Co., Laredo, Tex. SN 674,099. Filed P. R. 9-30-54. Am. S. R. 5-11-55.

## Sidles Safety Sun Shade

For Sun Shade Attachment for Automobiles.  
Use since Mar. 25, 1954.

## CLASS 22

- 610,095. The Lannom Manufacturing Company, Inc., Tullahoma, Tenn. SN 649,654. Filed P. R. 7-1-53. Am. S. R. 5-10-54.

## "Grip-Grain"

For Softballs.  
Use since Jan. 25, 1953.

- 610,096. Ideal Toy Corporation, Hollis, N. Y. SN 662,737. Filed P. R. 3-16-54. Am. S. R. 3-10-55.

## Ideal's

## BABY BIG EYES

For Dolls.  
Use since Feb. 25, 1954.

- 610,097. The Bower Manufacturing Co., Goshen, Ind. SN 665,011. Filed P. R. 4-22-54. Am. S. R. 12-10-54.

## Half Pint

For Coin Banks, Comprised of Half Pint Milk Bottles and Special Covers Therefor.  
Use since June 2, 1953.

- 610,098. Ullman Research Corp., Norwalk, Conn. SN 679,244. Filed 12-31-54.

## Putt-O-Graph

For Golf Stroke Guiding Device.  
Use since on or about Dec. 20, 1954.

## CLASS 25

- 610,099. Jade M. Donner, d. b. a. Donner Manufacturing Company, North Hollywood, Calif. SN 676,611. Filed 11-15-54.

## DONNER

For Locks and Door Locks for Sliding Doors.  
Use since Aug. 5, 1953.



## CLASS 26

- 610,100. American Photograph Corporation, New York, N. Y. SN 638,346. Filed P. R. 11-20-52. Am. S. R. 1-26-54.

**LIFE**  
*Color*

For Photographic Film Transparencies.  
Use since Nov. 3, 1952.

- 610,101. Marcelle D'Orsay, d. b. a. Nos-Ease Company, New York, N. Y. SN 678,575. Filed 12-3-54.

**NOS-EASE**

For Cushions for Spectacle Frames.  
Use since April 1933.

- 610,102. Marcelle D'Orsay, d. b. a. Nos-Ease Company, New York, N. Y. SN 678,576. Filed 12-3-54.

**EAR-EASE**

For Cushions for Spectacle Frames.  
Use since February 1934.

## CLASS 27

- 610,103. H. B. Davis Corp., New York, N. Y. SN 661,985. Filed P. R. 3-4-54. Am. S. R. 5-24-55.

**DAVIS DELUXE 17**

For Watches and Parts Thereof and Watches and Bracelets Sold as a Unit.  
Use since Jan. 10, 1954.

## CLASS 28

- 610,104. Kestenman Bros. Mfg. Co., Providence, R. I. SN 665,608. Filed P. R. 5-3-54. Am. S. R. 2-9-55.

*Peerless*

For Bracelets, Clasps, and Buckles in the Nature of Jewelry, Not Including Watches.  
Use since Jan. 6, 1933.

## CLASS 29

- 610,105. Denver C. Grelsen, d. b. a. Tog-L-Lok Company, Portland, Oreg. SN 663,467. Filed P. R. 3-29-54. Am. S. R. 5-31-55.

**TOG-L-LOK**

For Window Cleaning Squeegees.  
Use since Mar. 18, 1954.

## CLASS 31

- 610,106. Wix Corporation, Gastonia, N. C. SN 661,526. Filed P. R. 2-23-54. Am. S. R. 3-25-55.



For Filter Cartridges and Filters.  
Use since June 1, 1953.

## CLASS 32

- 610,107. Cavalier Corporation, Chattanooga, Tenn. SN 677,765. Filed 12-6-54.

*Superdeep*

For Cedar Chests.  
Use since June 1950.

## CLASS 37

- 610,108. Equitable Paper Bag Co., Inc., Long Island City, N. Y. SN 631,727. Filed P. R. 6-25-52. Am. S. R. 11-3-54.

*See-Pak*

For Mesh Window Heavy Duty Paper Bags.  
Use since Aug. 31, 1951.

## CLASS 38

- 610,109. Locker Management, Inc., St. Louis, Mo. SN 651,925. Filed P. R. 8-17-53. Am. S. R. 4-4-55.

**Frozen Food Center**

For Monthly Magazine.  
Use since Feb. 27, 1953.

- 610,110. The E. W. Scripps Company, Cleveland, Ohio. SN 653,331. Filed P. R. 9-17-53. Am. S. R. 5-9-55.

*Give Light and the  
People Will Find  
Their Own Way*

For News Publications Published Daily.  
Use since Mar. 23, 1923.

- 610,111. Outboard Publishing Company, Inc., Jacksonville, Fla. SN 661,356. Filed P. R. 2-19-54. Am. S. R. 5-11-55.

**OUTBOARD**

For Periodic Publication.  
Use since Feb. 2, 1954.

- 610,112. Weekly Publications, Inc., New York, N. Y. SN 666,610. Filed P. R. 5-18-54. Am. S. R. 6-1-55.

**Periscoping the Nation**

For Department or Section of a Magazine.  
Use since May 3, 1954.

- 610,113. Weekly Publications, Inc., New York, N. Y. SN 666,611. Filed P. R. 5-18-54. Am. S. R. 6-1-55.

**Periscoping the World**

For Department or Section of a Magazine.  
Use since May 3, 1954.

- 610,114. Weekly Publications, Inc., New York, N. Y. SN 666,805. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Books**

For Department or Section of a Magazine.  
Use since May 17, 1954.

- 610,115. Weekly Publications, Inc., New York, N. Y. SN 666,806. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Movies**

For Department or Section of a Magazine.  
Use since May 3, 1954.

- 610,116. Weekly Publications, Inc., New York, N. Y. SN 666,807. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Music**

For Department or Section of a Magazine.  
Use since May 3, 1954.

- 610,117. Weekly Publications, Inc., New York, N. Y. SN 666,808. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Religion**

For Department or Section of a Magazine.  
Use since May 10, 1954.

- 610,118. Weekly Publications, Inc., New York, N. Y. SN 666,809. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Science**

For Department or Section of a Magazine.  
Use since May 17, 1954.

- 610,119. Weekly Publications, Inc., New York, N. Y. SN 666,810. Filed P. R. 5-20-54. Am. S. R. 6-1-55.

**Periscoping Sports**

For Department or Section of a Magazine.  
Use since May 10, 1954.

**Periscoping TV-Radio**

For Department or Section of a Magazine.  
Use since May 10, 1954.

- 610,121. Weekly Publications, Inc., New York, N. Y. SN 667,480. Filed P. R. 6-1-54. Am. S. R. 6-1-55.

**Periscoping Medicine**

For Department or Section of a Magazine.  
Use since May 24, 1954.

- 610,122. Weekly Publications, Inc., New York, N. Y. SN 667,481. Filed P. R. 6-1-54. Am. S. R. 6-1-55.

**Periscoping The Press**

For Department or Section of a Magazine.  
Use since May 24, 1954.

- 610,123. Weekly Publications, Inc., New York, N. Y. SN 667,482. Filed P. R. 6-1-54. Am. S. R. 6-1-55.

**Periscoping The Theater**

For Department or Section of a Magazine.  
Use since May 24, 1954.

- 610,124. American Society of Corporate Secretaries, Inc., New York, N. Y. SN 675,870. Filed P. R. 11-2-54. Am. S. R. 5-16-55.

*The Corporate Secretary*

For Monthly Publication.  
Use since on or about Oct. 14, 1952.

- 610,125. Army Times Publishing Company, Washington, D. C. SN 678,864. Filed P. R. 12-15-54. Am. S. R. 4-27-55.

**The American Daily**

For Newspaper.  
Use since Mar. 15, 1954.

## CLASS 39

- 610,126. Bernhard Altmann, New York, N. Y., to The Bernhard Altmann Corporation, New York, N. Y. SN 606,930. Filed P. R. 11-25-50. Am. S. R. 9-17-54.

**BERNHARD ALTMANN**

**THE HOUSE OF CASHMERE**

For Sweaters, Ladies' and Men's Coats, Sport Jackets, Ladies' and Men's Mufflers, Ladies' and Men's Lounging Robes, Ladies' and Men's Under Shirts and Outer Shirts, Dresses, Hosiery, Overcoats, Gaberdines, Scarfs, Underwear, and Vests Adapted To Be Worn by Women, Men, and Children, Ladies' and Men's Gloves, and Ladies' Shawls; All of Said Goods Being Made in Substantial Part of Cashmere.  
Use since May 1950.



610,127. Bernhard Altmann, New York, N. Y., to The Bernhard Altmann Corporation, New York, N. Y. SN 621,696. Filed P. R. 11-27-51. Am. S. R. 9-24-54.



**BERNHARD ALTMANN**

**THE HOUSE OF CASHMERE**

For Men's, Ladies', and Children's Sweaters, Coats, Sport Jackets, Mufflers, Dresses, Hosiery, Overcoats, Gaberdines, Scarfs, Underwear and Vests, Ladies' and Men's Lounging Robes, Under Shirts and Outer Shirts, and Ladies' Shawls; All of Said Goods Being Made Substantially in Part of Cashmere.

Use since May 1950.

610,128. Mavest Inc., New York, N. Y. SN 653,271. Filed P. R. 9-16-53. Am. S. R. 8-26-54.

**NUB-o-WOOL**

For Men's Sport Coats Wholly Made of Wool.  
Use since Aug. 26, 1953.

610,129. Alex Lee Wallau, Inc., New York, N. Y. SN 657,582. Filed P. R. 12-7-53. Am. S. R. 12-6-54.

**FOOTCOVERS**

For Foot Socks for Women and Children.  
Use since November 1953.

610,130. Albert, Inc., Chicago, Ill. SN 663,333. Filed P. R. 3-26-54. Am. S. R. 5-12-55.

**Snip-to-Fit**

For Women's, Misses', and Junior Misses' or Girls' Undergarments—Namely, Slips.  
Use since on or about Feb. 9, 1954.

610,131. Stephen D. Hambaugh, Wickenburg, Ariz. SN 665,592. Filed P. R. 5-3-54. Am. S. R. 5-24-55.

**SLIDE  
A  
TIE**

For Combination Leather Necktie and Clasp.  
Use since Nov. 15, 1949.

610,132. Jack Turk & Co., Inc., New York, N. Y. SN 667,589. Filed P. R. 6-2-54. Am. S. R. 4-8-55.

**TWO 'N' ONE  
Kozee Komfort  
SLEEPER**

For Sleeping Jackets, Sleeping Bags, Buntings, Pajamas, and Combination Sleeping Bags and Pajamas for Infants.  
Use since Apr. 8, 1954.

610,133. Standard Knitting Mills, Inc., Knoxville, Tenn. SN 668,597. Filed P. R. 6-21-54. Am. S. R. 5-23-55.

**CLASS**

For Knitted Underwear, Sport Shirts, and Sleepwear for Men, Boys, Girls, and Children.  
Use since May 14, 1954.

610,134. Cub Knitting Corp., New York, N. Y. SN 678,771. Filed 12-22-54.

**UB  
raftee  
asuals**

For Children's, Girls', Misses', and Ladies' Knitted Outerwear—Namely, Polo Shirts, Blouses, Sweaters, and Dresses.  
Use since Jan. 5, 1954.

610,135. Glensder Textile Corp., New York, N. Y. SN 678,782. Filed 12-22-54.

**HEADQUARTERS FOR HEADWARMERS**

For Scarfs, Hoods, and Combinations Thereof.  
Use since Sept. 8, 1953.

610,136. Hubrite Informal Frocks, Inc., Boston, Mass. SN 680,758. Filed 1-31-55.

*For inexpensive smartness*

For Women's and Misses' Dresses.  
Use since Apr. 16, 1929.

## CLASS 43

610,137. Bernhard Altmann, New York, N. Y., to Bernhard Altmann Worsted Corporation of America, New York, N. Y. SN 628,985. Filed P. R. 5-1-52. Am. S. R. 9-24-54.



For Threads and Yarns Made in Whole or in Substantial Part of Cashmere.  
Use since November 1948.

## CLASS 44

610,138. Jack D. Tate, d. b. a. Quik Tan Company, Dallas, Tex. SN 636,100. Filed P. R. 10-2-52. Am. S. R. 6-1-54.



For Electrically Actuated Device for Treating the Human Skin.  
Use since Jan. 1, 1951.

610,139. H. D. Justi & Son, Inc., Philadelphia, Pa. SN 657,139. Filed P. R. 11-30-53. Am. S. R. 5-2-55.

**Photo MOLD**

For Kits Formed of a Plurality of Templates, Each Comprising a Pictorial Representation of Six Related Upper Anterior Artificial Teeth, for Use by Dental Practitioners in Selecting the Proper Size and Shape of Actual Artificial Teeth.  
Use since on or about Sept. 30, 1953.

## CLASS 46

610,140. Charles G. Bathe, Los Angeles, Calif. SN 551,219. Filed P. R. 3-5-48. Am. S. R. 10-13-54.



For Potato Chips and Canned Shoestring Potatoes.  
Use since Sept. 2, 1941.  
TM 697 O. G.—4

610,141. The Kansas Milling Company, Wichita, Kans. SN 650,813. Filed P. R. 7-24-53. Am. S. R. 1-15-54.

**AMYLOMALT**

For Barley Malt.  
Use since June 22, 1950.

610,142. Grocers Baking Company, Incorporated, Louisville, Ky. SN 655,127. Filed P. R. 10-21-53. Am. S. R. 5-26-55.



The drawing is lined for red, blue, and brown. No exclusive claim is made to the representation of the goods.  
For Bread.  
Use since Sept. 10, 1953.

610,143. Atkinson Milling Company, Minneapolis, Minn. SN 666,159. Filed P. R. 5-12-54. Am. S. R. 5-26-55.



For Wheat Flour.  
Use since Apr. 23, 1954.

610,144. Ralph Bocca, d. b. a. Naples of Hollywood, Los Angeles, Calif. SN 676,095. Filed 11-5-54.



For Meatless Spaghetti Sauce.  
Use since Aug. 24, 1950.



## CLASS 48

610,145. Dawson's Brewery, Inc., New Bedford, Mass. SN 667,510. Filed 6-2-54.



The drawing is lined for gold.  
For Beer and Ale.  
Use since Oct. 14, 1952.

## CLASS 50

610,146. Harry P. Matson, d. b. a. H. P. Matson Company, Akron, Ohio. SN 652,292. Filed P. R. 8-25-53. Am. S. R. 8-16-54.

**"DRY BOTTOM"**

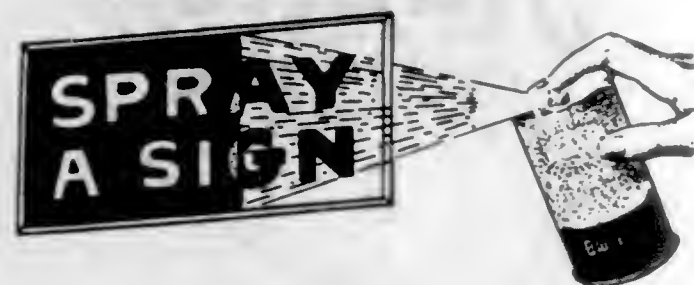
For Soap Cake Pads To Be Placed on a Flat Surface or in the Bottom of a Soap Dish for Soap to Rest Thereon.  
Use since Nov. 8, 1948.

610,147. Union Wadding Company, Pawtucket, R. I. SN 664,571. Filed P. R. 4-14-54. Am. S. R. 4-22-55.

**Tree Mat**

For Wadding With Decorative Surfaces for Covering Portions Desired To Be Decorated.  
Use since Apr. 1, 1954.

610,148. C. O. Sorrell, d. b. a. Spray-A-Sign Company, Kirksville, Mo. SN 671,785. Filed P. R. 8-16-54. Am. S. R. 4-27-55.



For Cut Out Letters of the Alphabet in Kit or Set Form for the Making of Signs.  
Use since December 1953.

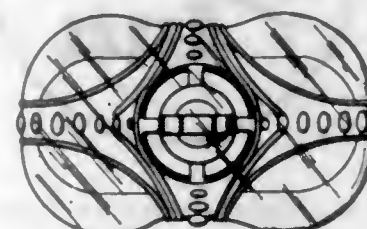
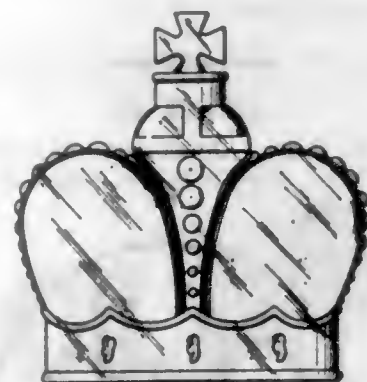
## CLASS 51

610,149. Clairol Incorporated, Stamford, Conn. SN 597,588. Filed P. R. 5-17-50. Am. S. R. 8-18-52.

**ERMINE**

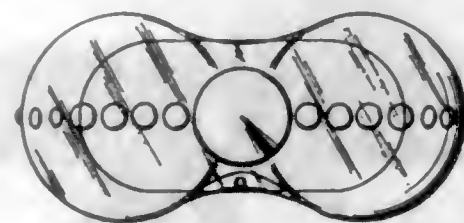
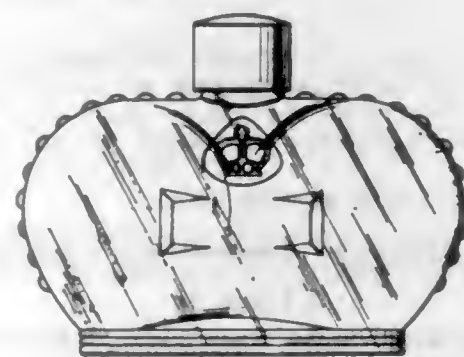
For Hair Tinting and Coloring Preparations.  
Use since Mar. 1, 1950.

610,150. Prince Matchabelli, Inc., New York, N. Y. SN 679,958. Filed 12-29-54.



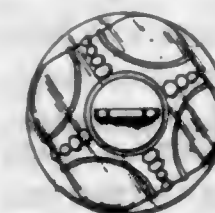
The configuration of the container is the mark.  
For Perfume, Cologne, Toilet Water, Bath Oil, and Cream Sachet.  
Use since 1927 on perfume.

610,151. Prince Matchabelli, Inc., New York, N. Y. SN 679,959. Filed 1-3-55.



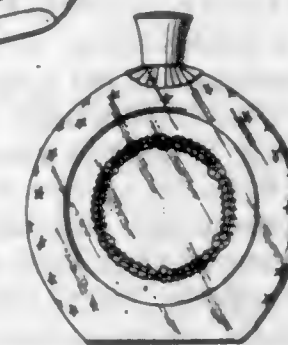
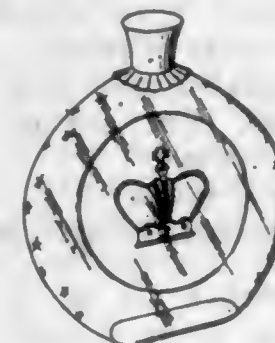
The configuration of the container is the mark.  
For Cologne.  
Use since September 1948.

610,152. Prince Matchabelli, Inc., New York, N. Y. SN 679,960. Filed 12-29-54.



The configuration of the container is the mark.  
For Cologne, Bath Oil, Bath Salts, Talc, Toilet Water and Foundation Lotion.  
Use since 1936 on toilet water.

610,153. Prince Matchabelli, Inc., New York, N. Y. SN 679,961. Filed 12-29-54.



The configuration of the container is the mark.  
For Cologne, Bath Oil, and Cream Sachet.  
Use since January 1940 on cologne.

## CLASS 52

610,154. Arnold Sampson, d. b. a. E-Z-Eat Products Co., San Francisco, Calif. SN 641,973. Filed P. R. 2-9-53. Am. S. R. 4-22-55.



For Preparation Which Cleans Jewelry, Silver, Copper, and Brass Metals and Also Removes the Tarnish Therefrom.  
Use since Aug. 8, 1951.

610,155. The Wolcott Company, to Wolco Products, Incorporated, Hartford, Conn. SN 653,534. Filed 9-21-53.

**COPPERKLEEN**

For Cleaning Compound for Cleaning Copper and Brass.  
Use since July 8, 1952.

## Service Marks

## CLASS 105

610,156. Brady Motorfrate, Inc., Des Moines, Iowa. SN 664,509. Filed P. R. 4-14-54. Am. S. R. 6-1-55.

**STRATELINE**

Transportation of Freight by Motor Vehicles.  
Use since about Dec. 1, 1953.

610,157. Paul Arpin Van Lines, Inc., Providence, R. I. SN 666,252. Filed P. R. 5-13-54. Am. S. R. 12-16-54.

**MOVE SAFELY BY CALLING PAUL ARPIN**

For Transportation by Truck or Van of Goods, Wares, Merchandise, Furniture, Machinery, Tools, Raw Materials, and Finished Goods.  
Use since Nov. 2, 1953.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                          |                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------|
| 104,244. AMERICUT. Cl. 23. 5-11-15.                      | 324,587. KEM-NAMEL. Cl. 18. 5-21-35.                                   |
| 104,541. DELMONTE. Cl. 46. 6-1-15.                       | 325,056. USG. Cl. 10. 6-11-35.                                         |
| 104,643. KNO-BURN. Cl. 12. 6-8-15.                       | 325,140. STERICHART ETC. Cl. 18. 6-11-35.                              |
| 104,728. THREE FLOWERS. Cl. 51. 6-15-15.                 | 325,232. ALZAK. Cl. 34. 6-18-35.                                       |
| 105,528. JEWEL. Cl. 21. 8-3-15.                          | 325,891. ACRYLOID. Cl. 16. 7-9-35.                                     |
| 106,386. WA. Cl. 19. 10-19-15.                           | 325,933. REFLECT QUALITY SOUTHERN PRODUCTS AND DESIGN. Cl. 16. 7-9-35. |
| 106,424. FLICKS. Cl. 46. 10-19-15.                       | 325,952. DESIGN OF MAN. Cl. 9. 7-9-35.                                 |
| 106,978. KRACKLE KORN. Cl. 46. 11-9-15.                  | 326,002. TRITON. Cl. 6. 7-9-35.                                        |
| 107,006. PREST-O-LITE. Cl. 21. 11-9-15.                  | 326,129. CARDOX. Cl. 23. 7-16-35.                                      |
| 107,072. WAXTITE. Cl. 46. 11-9-15.                       | 326,692. SENSIL-SKIN. Cl. 51. 7-30-35.                                 |
| 323,091. UNIVERSAL SERVICE. Cl. 38. 4-2-35.              | 326,829. MOBILWAX. Cl. 4. 8-6-35.                                      |
| 324,118. SUPERIOR AND DESIGN. Cl. 44. 5-14-35.           | 326,835. CARDOX AND DESIGN. Cl. 9. 8-6-35.                             |
| 324,185. ROYAL KNIGHT AND DESIGN. Cl. 39. 5-14-35.       | 326,836. CARDOX. Cl. 9. 8-6-35.                                        |
| 324,476. SPARKS BONDED ETC. AND DESIGN. Cl. 46. 5-21-35. | 326,984. RON PINILLA AND DESIGN. Cl. 49. 8-13-35.                      |



- 327,392. CARDOX AND DESIGN. Cl. 23. 8-27-35.  
 327,393. DESIGN OF MAN. Cl. 23. 8-27-35.  
 327,878. STEEL PLATE. Cl. 37. 9-10-35.  
 328,092. RINOTUF. Cl. 37. 9-17-35.  
 328,093. BROADCAST. Cl. 37. 9-17-35.  
 328,282. GENERAL DE LUXE. Cl. 34. 9-24-35.  
 328,428. LEATHERFOLD. Cl. 37. 9-24-35.  
 328,436. APERITIF. Cl. 37. 9-24-35.  
 328,487. PINTA. Cl. 47. 10-1-35.  
 328,558. GLENTEX. Cl. 39. 10-1-35.  
 328,606. BOLERO. Cl. 51. 10-1-35.  
 328,607. COTILLION. Cl. 51. 10-1-35.  
 328,608. TOPAZE. Cl. 51. 10-1-35.  
 328,638. ROAD KING. Cl. 21. 10-1-35.  
 328,723. GANADOR. Cl. 47. 10-1-35.  
 328,725. THE REGENT AND DESIGN. Cl. 36. 10-1-35.  
 328,746. DESIGN OF 4 LEAF CLOVER ETC. Cl. 51. 10-1-35.

## TRADEMARK REGISTRATIONS CANCELED

## Section 8

- 146,604. FLIPFLOP. Cl. 21. 9-13-21.  
 169,174. NORTHERN TISSUE. Cl. 37. 6-12-23.  
 174,738. SEM CO AND REPRESENTATION OF A STAR. Cl. 21. 10-23-23.  
 174,739. STAR AND REPRESENTATION OF A STAR. Cl. 21. 10-23-23.  
 177,299. DEFIANCE. Cl. 46. 12-18-23.  
 187,084. CAMPUS. Cl. 39. 7-29-24.  
 187,086. SENIOR. Cl. 39. 7-29-24.  
 193,051. MINTALADE. Cl. 46. 12-16-24.  
 196,119. FLAT-RATE. Cl. 23. 3-10-25.  
 196,505. CHILL CHASER. Cl. 21. 3-17-25.  
 210,499. SUPERTONE. Cl. 21. 3-16-26.  
 280,268. DESERT SUN. Cl. 46. 2-10-31.  
 286,898. LUTHERAN HERALD. Cl. 38. 9-8-31.  
 296,682. BLUE CUP. Cl. 46. 8-16-32.  
 297,601. CLEMCOID. Cl. 32. 9-20-32.  
 316,286. CLOVER FARM. Cl. 51. 8-21-34.  
 330,023. BROAD-TREAD AND DESIGN. Cl. 39. 11-19-35.  
 333,021. NEW YOUTH HEALTH MATTRESS AND DESIGN OF A HUMAN BODY. Cl. 32. 3-10-36.  
 337,879. CROSBY SQUARE. Cl. 17. 8-25-36.  
 342,151. KOOL-AID MIX. Cl. 46. 1-5-37.  
 359,039. CO-OP ETC. AND DESIGN. Cl. 23. 8-2-38.  
 367,323. DOUBLE-TEX. Cl. 32. 5-9-39.  
 369,162. SAN ANITA AND DESIGN. Cl. 39. 7-18-39.  
 371,559. SLEEP SENTRY. Cl. 32. 9-26-39.  
 372,039. AMERICAN MILKO AND PORTRAIT DESIGN. Cl. 46. 10-17-39.  
 372,183. ROSE-GLO AND REPRESENTATION OF A ROSE. Cl. 4. 10-24-39.  
 372,773. CASA LINDA ETC. AND DESIGN. Cl. 30. 11-14-39.  
 375,069. LONDON DOCK. Cl. 17. 2-6-40.  
 377,175. RED MOUNTAIN. Cl. 46. 4-23-40.  
 380,044. DU BARRY. Cl. 32. 8-6-40.  
 380,541. REST-RITE ETC. Cl. 39. 8-27-40.  
 383,734. KLEENETTE. Cl. 1. 12-24-40.  
 384,350. KLENZETTE. Cl. 1. 1-14-41.  
 385,607. COTTON COTTAGE AND DESIGN. Cl. 32. 3-11-41.  
 393,497. DESERT EAGLE. Cl. 46. 2-17-42.  
 394,224. FIRST MATE. Cl. 46. 3-24-42.

- 328,847. VIONATE. Cl. 46. 10-8-35.  
 328,890. ESCAROM. Cl. 51. 10-8-35.  
 328,897. ZIP. Cl. 51. 10-8-35.  
 328,918. DAPHNE. Cl. 51. 10-8-35.  
 329,078. SILVERKLEER. Cl. 37. 10-15-35.  
 329,102. PROGRESS. Cl. 37. 10-15-35.  
 329,344. SPEEDMASTER. Cl. 21. 10-29-35.  
 329,353. CURVEX. Cl. 27. 10-29-35.  
 329,527. ORCHID AND ORANGE BLOSSOM BLENDED LANDER AND DESIGN. Cl. 51. 11-5-35.  
 329,662. COINTREAU. Cl. 49. 11-5-35.  
 329,691. CARNATION AND LILY OF THE VALLEY BLENDED LANDER AND DESIGN. Cl. 51. 11-5-35.  
 329,692. SWEET PEA AND GARDENIA BLENDED LANDER AND DESIGN. Cl. 51. 11-5-35.  
 329,693. LAVENDER AND PINE BLENDED LANDER AND DESIGN. Cl. 51. 11-5-35.

- 395,268. FOTO PLAN AND REPRESENTATION OF CAMERA LENS AND CAMERA IN POSITION OF PHOTOGRAPHING FURNITURE IN MINIATURE FORM IN VARIOUS ROOMS OF DWELLING. Cl. 38. 5-19-42.  
 395,462. "FORTIFIED FOR HOME DEFENSE". Cl. 46. 5-26-42.  
 399,562. AR-JAY LEM-O-LENE. Cl. 6. 1-19-43.  
 407,100. STAR AND DESIGN. Cl. 21. 5-16-44.  
 407,174. FORESTCREAM. Cl. 42. 5-23-44.  
 407,342. AL'S PAL ETC. AND DESIGN. Cl. 46. 5-30-44.  
 407,786. STAR AND DESIGN. Cl. 21. 6-27-44.  
 411,307. YORGIE. Cl. 46. 1-9-45.  
 435,692. AMECHOLIN. Cl. 6. 1-6-48.  
 506,799. COLUMBIA RESTAURANT AND PICTORIAL DESIGN. Cl. 46. 2-22-49.  
 506,800. CREATIVE FOOTWEAR. Cl. 38. 2-22-49.  
 506,806. B B BROWNVILLE. Cl. 37. 2-22-49.  
 506,808. SOUDERS. Cl. 46. 2-22-49.  
 506,814. HIGHLAND HEATHER. Cl. 46. 2-22-49.  
 506,817. SCALP DELONEY'S KUMFORT. Cl. 6. 2-22-49.  
 506,818. EXETER. Cl. 1. 2-22-49.  
 506,819. OXFORD. Cl. 1. 2-22-49.  
 506,821. WALNUT. Cl. 37. 2-22-49.  
 506,825. NAPAROCK. Cl. 45. 2-22-49.  
 506,827. NELLO. Cl. 45. 2-22-49.  
 506,830. NORWOOD. Cl. 31. 2-22-49.  
 506,833. SQUIBB. Cl. 49. 2-22-49.  
 506,834. ARSETYL. Cl. 6. 2-22-49.  
 506,835. BUBBLE BOUNCE. Cl. 22. 2-22-49.  
 506,837. LANOZOL. Cl. 6. 2-22-49.  
 506,838. STIRIZOL. Cl. 6. 2-22-49.  
 506,849. SKYLAND. Cl. 37. 2-22-49.  
 506,854. DUAL-SKIPLET. Cl. 22. 2-22-49.  
 506,858. WESTERN LEADER. Cl. 46. 2-22-49.  
 506,861. ATOMA. Cl. 46. 2-22-49.  
 506,867. SEA LAD. Cl. 46. 2-22-49.  
 506,879. NIVOL. Cl. 37. 2-22-49.  
 506,883. FINAL TOUCH. Cl. 6. 2-22-49.  
 506,884. OLD POINDEXTER. Cl. 49. 2-22-49.  
 506,887. COUNSELOR. Cl. 34. 2-22-49.  
 506,889. SMALL-FRY. Cl. 32. 2-22-49.  
 506,890. TEN-TEN. Cl. 17. 2-22-49.  
 506,891. EL SANTO AND DESIGN. Cl. 17. 2-22-49.  
 506,892. EL HIJO PRODIGO AND DESIGN. Cl. 17. 2-22-49.  
 506,893. EL SUELO AND DESIGN. Cl. 17. 2-22-49.

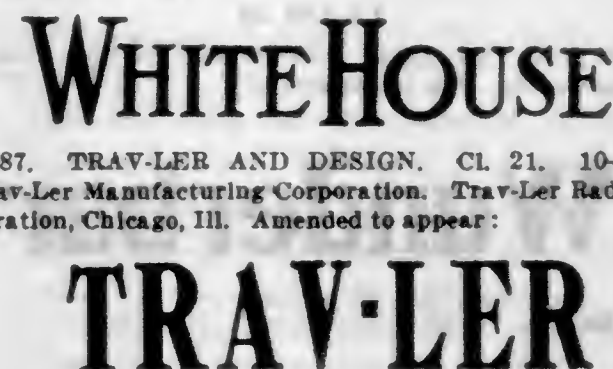
- 506,894. PALACE COURT AND DESIGN. Cl. 17. 2-22-49.  
 506,897. AETNA. Cl. 13. 2-22-49.  
 506,898. NOT-NAC. Cl. 13. 2-22-49.  
 506,899. TULIP TIME. Cl. 38. 2-22-49.  
 506,900. FLO-CILLIN. Cl. 6. 2-22-49.  
 506,901. CIMARRON. Cl. 46. 2-22-49.  
 506,903. DEHYDRAPAC. Cl. 37. 2-22-49.  
 506,908. K-T. Cl. 16. 2-22-49.  
 506,913. WOODEN SHOE. Cl. 48. 2-22-49.  
 506,916. OESTRILIN. Cl. 6. 2-22-49.  
 506,928. NE-LAC. Cl. 38. 2-22-49.  
 506,932. MONROE. Cl. 6. 2-22-49.  
 506,933. THE ECONOMIC TREND LINE. Cl. 38. 2-22-49.  
 506,939. MULKEY'S. Cl. 46. 2-22-49.  
 506,944. PIRRONE. Cl. 47. 2-22-49.  
 506,945. TELEBASE. Cl. 37. 2-22-49.  
 506,948. ACTIV-AIR. Cl. 34. 2-22-49.  
 506,949. TULANE. Cl. 37. 2-22-49.  
 506,950. CASTLEWOOD. Cl. 37. 2-22-49.  
 506,953. RICH MARC. Cl. 37. 2-22-49.  
 506,958. CONNOISSEURS AND DESIGN. Cl. 4. 2-22-49.  
 506,961. EXTRA TITE AND DESIGN. Cl. 42. 2-22-49.  
 506,963. M. LOUIS. Cl. 6. 2-22-49.  
 506,966. HYDRO-TAC. Cl. 4. 2-22-49.  
 506,968. COMPASS AND REPRESENTATION OF A COMPASS. Cl. 46. 2-22-49.  
 506,977. MERMAID. Cl. 37. 2-22-49.  
 506,987. TERRY AND REPRESENTATION OF A DOG'S HEAD. Cl. 37. 2-22-49.  
 506,991. EMPERON. Cl. 42. 2-22-49.  
 506,993. VACUPAC. Cl. 37. 2-22-49.  
 506,995. N S R A AND DESIGN. Cl. 38. 2-22-49.  
 506,998. STAG AND DESIGN. Cl. 32. 2-22-49.  
 507,004. HARRIET HUBBARD AYER. Cl. 6. 2-22-49.  
 507,006. MAGNETIC. Cl. 31. 2-22-49.  
 507,013. COOK BOOK. Cl. 37. 2-22-49.  
 507,037. SAFE-N-LEAD. Cl. 6. 2-22-49.  
 507,040. THE LONE RANGER. Cl. 38. 2-22-49.  
 507,047. SULFAPROMIN. Cl. 6. 2-22-49.  
 507,055. BROWN-SEP. Cl. 6. 2-22-49.  
 507,056. RO-ZEE'S "ROUND-UP". Cl. 38. 2-22-49.  
 507,062. GLYTHEONATE. Cl. 6. 2-22-49.  
 507,066. HOMEMAKER'S KITCHEN. Cl. 38. 2-22-49.  
 507,068. SKITCH. Cl. 6. 2-22-49.  
 507,075. FOREST CITY. Cl. 42. 2-22-49.  
 507,076. DUNK. Cl. 4. 2-22-49.  
 507,086. COOPVERTISING. Cl. 55. 2-22-49.  
 507,087. ROUTE OF THE BUCCANEERS. Cl. 55. 2-22-49.  
 507,090. BAGGLASS. Cl. 37. 2-22-49.  
 507,091. SULGLASS. Cl. 37. 2-22-49.  
 507,092. MARKS' NEW RECIPE SALAD DRESSING AND DESIGN. Cl. 46. 2-22-49.  
 507,093. THE DROP LINER. Cl. 22. 2-22-49.  
 507,094. RUFF-TUFF AND REPRESENTATION OF AN ELEPHANT HEAD. Cl. 39. 2-22-49.  
 507,095. THE RESTAURANT REVIEW AND DESIGN. Cl. 38. 2-22-49.  
 507,096. TREATMENT SERVICE ETC. Cl. 6. 2-22-49.  
 507,102. FINNY FISH. Cl. 22. 2-22-49.  
 507,103. DOANE AGRICULTURAL DIGEST. Cl. 38. 2-22-49.  
 507,104. SIFON-AIRE. Cl. 22. 2-22-49.  
 507,105. BAIE'S BAIT AND DESIGN. Cl. 22. 2-22-49.  
 507,106. BAT-O-NET ETC. AND DESIGN. Cl. 22. 2-22-49.  
 507,112. DISCS AND DESIGN. Cl. 6. 2-22-49.  
 507,113. MAPLE TREAT. Cl. 46. 2-22-49.  
 507,114. ADORABLE PIK-UP BRA. Cl. 39. 2-22-49.  
 507,115. RUBBER GARD. Cl. 16. 2-22-49.  
 507,116. OLDE STYLE. Cl. 37. 2-22-49.  
 507,117. MEDIC-AID. Cl. 6. 2-22-49.  
 507,118. YOUR SHOES ARE SHOWING! Cl. 4. 2-22-49.  
 507,119. NOKOF. Cl. 6. 2-22-49.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 103,059. CREAM CITY AND DESIGN. Cl. 13. 3-16-15. Geuder, Paeschke & Frey Co., Milwaukee, Wis. Amended: In the statement, line 11, after "ware," and is inserted; same line 11 and line 12, "and anti-rust tinware" is deleted; the second, third, and fifth paragraphs are deleted; and the drawing is amended to appear:



- 104,641. WHITE HOUSE AND DESIGN. Cl. 46. 6-8-15. National Fruit Product Company, Inc., Winchester, Va. Amended to appear:



- 234,087. TRAV-LER AND DESIGN. Cl. 21. 10-18-27. Trav-Ler Manufacturing Corporation. Trav-Ler Radio Corporation, Chicago, Ill. Amended to appear:



- 599,524. AGRIMYCIN. Cl. 6. 12-21-54. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Amended to appear:



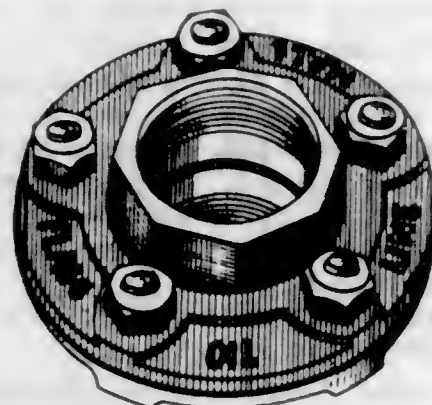


## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 13

327,570. Aug. 27, 1935. Stanley G. Flagg & Co., Inc., Philadelphia, Pa.



The trademark consists of a broad red circular band which is applied directly to a flange of the union so as to extend completely around the same and the word "Flagg." Without waiving any common law rights thereto for the purposes of this registration no claim is made, apart from the mark shown on the drawing, to the words "Oil Line Mall" nor to the representation of the union per se.

For Ground Joint Flange Unions.

### CLASS 39

439,783. July 20, 1948. The Faultless Rubber Company, also d. b. a. Ashland Rubber Works, Ashland, Ohio. Pub. by registrant.

# Reliance

For Household Rubber Gloves.

### CLASS 42

323,104. Apr. 2, 1935. Onondaga Silk Company, Inc., New York, N. Y. Pub. by registrant.

# Charabia

For Silk Fabrics in the Piece.

325,679. July 2, 1935. Onondaga Silk Company, Inc., New York, N. Y. Pub. by registrant.

# Swirlbark

For Silk Fabrics in the Piece.

### CLASS 44

326,158. July 16, 1935. I. B. Kleinert Rubber Company, New York, N. Y. Pub. by registrant.

# SANI-SCANT

For Sanitary Bloomers and Step-Ins.

### CLASS 46

390,428. Sept. 23, 1941. Elmer Candy Co., Inc., New Orleans, La. Pub. by registrant.



For Candy.

393,362. Feb. 10, 1942. Elmer Candy Co., Inc., New Orleans, La. Pub. by registrant.

Emmet's  
**CHEE  
WEES**

For Cheese-Coated Food Product in the Form of Curds, Manufactured From Corn Meal and Other Ingredients.

### CLASS 48

102,025. Jan. 26, 1915. The Bartels Brewing Company, Kingston, Pa. Pub. by registrant.

# Wunderbar

For Beer.

## LIST OF REGISTRANTS OF TRADEMARKS

Abbott Laboratories, North Chicago, Ill. 506,834, can. Cl. 6.  
Acadia Fisheries Ltd., Mulgrave, Nova Scotia, Canada. 610,001, pub. 5-10-55. Cl. 46.  
Acme Shear Co., The, Bridgeport, Conn. 104,244, ren. 5-11-55. Cl. 23.  
Adams-Mills Corp., High Point, N. C. 609,931, pub. 5-10-55. Cl. 39.  
Aguirre y Aranzabal, S. R. C., Elbar (Gulpuzcoa), Spain. 609,796, pub. 5-3-55. Cl. 9.  
Aircraft Specialties Co., Lindenhurst, N. Y. 507,093, can. Cl. 22.  
Albert, Inc., Chicago, Ill. 610,130. Cl. 39.  
Aldon Rug Mills, Inc., Lenni Mills, Pa. 609,947, pub. 5-10-55. Cl. 42.  
Aldon Rug Mills Inc., Lenni Mills, Pa. 609,956, pub. 5-3-55. Cl. 42.  
Alexander Mfg. Co., Forest City, N. C. 507,075, can. Cl. 42.  
Al's Potato Co.: See—  
McConn, Alfred W.  
Altman, B. & Co., New York, N. Y. 609,944, pub. 5-10-55. Cl. 39.  
Altmann, Bernhard, to The Bernhard Altmann Corp., New York, N. Y. 610,126-7. Cl. 39.  
Altmann, Bernhard, to Bernhard Altmann Worsted Corp. of America, New York, N. Y. 610,137. Cl. 43.  
Altmann, Bernhard, Corp.: See—  
Altmann, Bernhard.  
Altmann, Bernhard, Worsted Corp. of America: See—  
Altmann, Bernhard.  
Alumaclad Products Co., Whiting, Ind. 609,807, pub. 5-3-55. Cl. 12.  
Aluminum Co. of America, Pittsburgh, Pa. 325,232, ren. 6-18-55. Cl. 34.  
American Cyanamid Co., New York, N. Y. 609,844, pub. 5-10-55. Cl. 18.  
American Cyanamid Co., New York, N. Y. 609,950, pub. 5-3-55. Cl. 42.  
American Cyanamid Co., New York, N. Y. 609,962, pub. 5-10-55. Cl. 43.  
American Dryer Distributing Corp., Philadelphia, Pa. 609,861, pub. 5-3-55. Cl. 21.  
American Food Products Co.: See—  
Besso, Alec.  
American Hospital Association, Chicago, Ill. 610,066, pub. 5-10-55. Cl. 102.  
American Mfg. Co., also d. b. a. St. Louis Cordage Mills, Brooklyn, N. Y. 609,792, pub. 5-10-55. Cl. 7.  
American Mfg. Co., Brooklyn, N. Y. 609,793, pub. 5-3-55. Cl. 7.  
American Nickeloid Co., Peru, Ill. 608,819-20, pub. 5-3-55. Cl. 14.  
American Photograph Corp., New York, N. Y. 610,100. Cl. 26.  
American Society of Corporate Secretaries, Inc., New York, N. Y. 610,124. Cl. 38.  
American Sponge and Chamois Co., Inc., New York, N. Y. 609,766, pub. 5-3-55. Cl. 1.  
American Trucking Associations, Inc., Washington, D. C. 610,083, pub. 5-10-55. Cl. 107.  
American Zinc Sales Co., St. Louis, Mo. 609,841-2, pub. 5-10-55. Cl. 16.  
Ames Co., Inc., Elkhart, Ind. 435,692, can. Cl. 6.  
Ames Co., Inc., Elkhart, Ind. 609,855, pub. 5-3-55. Cl. 18.  
Anchor Paper Co., The, Cincinnati, Ohio. 506,821, can. Cl. 37.  
Anderson, Charles L., d. b. a. The Vonatol Co., Timmonsville, S. C. 609,852, pub. 5-17-55. Cl. 18.  
Anderson, Clayton & Co., Houston, Tex. 609,945, pub. 11-9-54. Cl. 42.  
Anderson, William A., Hayward, Calif. 609,781, pub. 5-10-55. Cl. 3.  
Andrews, Norris, Los Angeles, Calif. 506,993, can. Cl. 37.  
Ansehl, Benjamin, Co., The, St. Louis, Mo. 326,692, ren. 7-30-55. Cl. 51.  
Arenberg, David L., d. b. a. Arenberg Ultrasonic Laboratory, Jamaica Plain, Mass. 609,863, pub. 5-3-55. Cl. 21.  
Arenberg Ultrasonic Laboratory: See—  
Arenberg, David L.  
Ar-Jav Laboratories, Inc., Ontario, Calif. 399,562, can. Cl. 6.  
Armour and Co., Chicago, Ill. 609,847, pub. 5-10-55. Cl. 18.  
Army Times Publishing Co., Washington, D. C. 610,125. Cl. 38.  
Aronson, Charles N., d. b. a. Aronson Machine Co., Arcade, N. Y. 609,888, pub. 5-3-55. Cl. 23.  
Aronson Machine Co.: See—  
Aronson, Charles N.  
Arpin, Paul, Van Lines, Inc., Providence, R. I. 610,157. Cl. 105.  
Arvon Products Co., Inc., Philadelphia, Pa. 609,831, pub. 5-10-55. Cl. 16.  
Ashland Rubber Works: See—  
Faultless Rubber Co., The.  
Associated Seed Growers, Inc., New Haven, Conn. 610,087. Cl. 1.  
Athletic Shoe Co., The, Chicago, Ill. 380,541, can. Cl. 39.  
Atkinson Milling Co., Minneapolis, Minn. 609,995, pub. 5-10-55. Cl. 46.  
Atkinson Milling Co., Minneapolis, Minn. 610,143. Cl. 46.  
Atlantic Coast Fisheries Co., The, Boston, Mass. 610,017, pub. 3-15-55. Cl. 46.  
Avon Products, Inc.: See—  
California Perfume Co., Inc.  
Ayer, Harriet Hubbard, Inc., New York, N. Y. 507,004, can. Cl. 6.  
Bacon Products Co., Chattanooga, Tenn. 507,119, can. Cl. 6.  
Baer, Dave, Hosiery Mill, Inc., Rock Hill, S. C. 609,942, pub. 5-10-55. Cl. 39.  
Bale, Arthur A., Marinette, Wis. 507,105, can. Cl. 22.  
Baker, Wright R., Pennsburg, Pa. 506,837-8, can. Cl. 6.  
Baldwin Laundry, The, to The Baldwin Overall Service, Inc., Philadelphia, Pa. 610,061, pub. 5-10-55. Cl. 100.  
Baldwin Overall Service, Inc., The: See—  
Baldwin Laundry, The.  
Banks-Baldwin Law Publishing Co., Cleveland, Ohio. 609,906, pub. 4-26-55. Cl. 37.  
Bartels Brewing Co., The, Kingston, Pa. 102,025, 12(c) pub. 8-2-55. Cl. 48.  
Bathe, Charles G., Los Angeles, Calif. 610,140. Cl. 46.  
Bat-O-Net Co., The, Memphis, Tenn. 507,106, can. Cl. 22.  
Bauer Alphabets Inc., New York, N. Y. 609,818, pub. 5-3-55. Cl. 14.  
Baxter, Walter H., Jr., d. b. a. Walter Baxter Seed Co., Weslaco, Tex. 610,086. Cl. 1.  
Baxter, Walter, Seed Co.: See—  
Baxter, Walter H., Jr.  
Bay Island Seafood, Baltimore, Md. 610,041, pub. 5-17-55. Cl. 46.  
Beardmore & Co. Ltd., Acton, Ontario, Canada. 609,859, pub. 5-3-55. Cl. 20.  
Belch, Paul F., Co., Bloomington, Ill. 610,026, pub. 5-10-55. Cl. 46.  
Bekol Chemicals, Inc., Houston, Tex. 609,823, pub. 5-10-55. Cl. 15.  
Belrug Mills of South Carolina, Greenville, S. C. 609,953, pub. 5-3-55. Cl. 42.  
Bennett, Donn, Philadelphia, Pa. 610,078, pub. 5-17-55. Cl. 107.  
Besso, Alec, d. b. a. American Food Products Co., New York, N. Y. 372,039, can. Cl. 46.  
Best Foods, Inc., The, New York, N. Y. 507,118, can. Cl. 4.  
Bestform Foundations, Inc., Long Island City, N. Y. 609,919, pub. 5-25-54. Cl. 39.  
Bishop, Meredith C., East Braintree, Mass. 609,802, pub. 5-3-55. Cl. 12.  
Blumas Cho-O-Lac, Inc., Brooklyn, N. Y. 610,025, pub. 5-10-55. Cl. 46.  
Bobs Candy & Peanut Co., Inc., Albany, Ga. 610,000, pub. 5-10-55. Cl. 46.  
Boecla, Ralph, d. b. a. Naples of Hollywood, Los Angeles, Calif. 610,144. Cl. 46.  
Bodger Seeds, Ltd., El Monte, Calif. 609,761-3, pub. 5-3-55. Cl. 1.  
Boehme Fettechemie G. m. b. H., Dusseldorf-Holthausen, Germany. 609,786, pub. 5-10-55. Cl. 6.  
Boehringer, C. F. & Soehne G. m. b. H., Mannheim, Germany. 609,849, pub. 5-10-55. Cl. 18.  
Bonnette Foundations Inc., New York, N. Y. 507,114, can. Cl. 39.  
Boston Bonnie Fisheries: See—  
Genoa Fisheries, Inc.  
Botany Mills, Inc., Passaic, N. J. 609,963-4, pub. 5-10-55. Cl. 43.  
Bower Mfg. Co., The, Goshen, Ind. 610,097. Cl. 22.  
Bowman, George L., d. b. a. Dutchman Foods, Ephrata, Pa. 610,015, pub. 5-10-55. Cl. 46.  
Boyle & Co., Los Angeles, Calif. 609,856, pub. 5-3-55. Cl. 18.  
Bradley, Milton, Co., Springfield, Mass. 609,881, pub. 5-17-55. Cl. 22.  
Bradner Smith & Co., Chicago, Ill. 327,878, ren. 9-10-55. Cl. 37.  
Bradner Smith & Co., Chicago, Ill. 328,092-3, ren. 9-17-55. Cl. 37.  
Bradner Smith & Co., Chicago, Ill. 328,428, ren. 9-24-55. Cl. 37.  
Bradner Smith & Co., Chicago, Ill. 329,102, ren. 10-15-55. Cl. 37.  
Brady Motorfrate, Inc., Des Moines, Iowa. 610,156. Cl. 105.  
Bristol Laboratories Inc., Syracuse, N. Y. 506,900, can. Cl. 6.  
Broadway Sound Productions: See—  
Morosan, Aurelia V.  
Broderick & Bascom Rope Co., St. Louis, Mo. 609,794, pub. 5-3-55. Cl. 7.  
Broderick & Bascom Rope Co., St. Louis, Mo. 609,795, pub. 5-10-55. Cl. 7.  
Brown & Bigelow, St. Paul, Minn. 609,907, pub. 5-3-55. Cl. 37.  
Brown, Dr. H. Robert: See—  
Brown, H. Robert.  
Brown, H. Robert, d. b. a. Dr. H. Robert Brown, Lewiston, Maine. 507,055, can. Cl. 6.  
Brown, Lockwood & Davenport Co.: See—  
Creative Footwear, Inc.  
Brown, B. J., Co., The, St. Louis, Mo. 609,827, pub. 5-3-55. Cl. 15.  
Brownville Board Co., Brownville, N. Y. 506,806, can. Cl. 37.  
Brows & Jacobson, Inc., to Glenader Textile Corp., New York, N. Y. 328,558, ren. 10-1-55. Cl. 39.  
Buchanan, Robert F., Denver, Colo. 609,800, pub. 5-10-55. Cl. 12.



Buckaten, Dorothy, Los Angeles, Calif. 609,910-11, pub. 5-10-55. Cl. 38.  
 Buerger Brothers Supply Co., The, Denver, Colo. 610,056, pub. 5-17-55. Cl. 51.  
 Bunting, Lamond, Tahoe City, Calif. 609,887, pub. 5-17-55. Cl. 22.  
 Burlington County Shoe Corp., Mount Holly, N. J. 609,922, pub. 5-3-55. Cl. 39.  
 Burns, Frederick M., White Plains, N. Y. 609,934, pub. 5-3-55. Cl. 39.  
 Burpee, W. Alice, Co., Philadelphia, Pa. 609,760, pub. 5-10-55. Cl. 1.  
 Burrows Co., The, Chicago, Ill. 324,118, ren. 5-14-55. Cl. 44.  
 Cadmus Long Span and Joist Corp., Alexandria, Va. 609,809, pub. 5-10-55. Cl. 12.  
 California Milling Corp., Los Angeles, Calif. 395,462, can. Cl. 46.  
 California Packing Corp.: See—  
 Lindberg, G.  
 California Perfume Co., Inc., to Avon Products, Inc., New York, N. Y. 328,606-8, ren. 10-1-55. Cl. 51.  
 California Perfume Co., Inc., to Avon Products, Inc., New York, N. Y. 328,918, ren. 10-8-55. Cl. 51.  
 Call, A. F. Estate: See—  
 Call Ranch.  
 Call Ranch, d. b. a. A. F. Call Estate, Corona, Calif. 377,175, can. Cl. 46.  
 Cameo Curtains, Inc., New York, N. Y. 609,959, pub. 5-10-55. Cl. 42.  
 Campbell, Harry T., Sons', Corp., Towson, Md. 610,089, Cl. 1.  
 Canton Stamping & Enameling Co., The, Canton, Ohio. 509,897-8, can. Cl. 13.  
 Cardox Corp.: See—  
 Safety Mining Co.  
 Casanova Chocolate Co., Inc., Milford, Conn. 610,042, pub. 5-17-55. Cl. 46.  
 Caughey Footwear, Inc., New York, N. Y. 609,924, pub. 5-10-55. Cl. 39.  
 Cavalier Corp., Chattanooga, Tenn. 610,107. Cl. 32.  
 Celanese Corp. of America, New York, N. Y. 609,767, pub. 5-3-55. Cl. 1.  
 Century Lighting, Inc., New York, N. Y. 609,871, pub. 5-3-55. Cl. 21.  
 Chamberlain Laboratories, Inc., Des Moines, to Weeks and Leo Co. Inc., Polk County, Iowa. 610,057, pub. 5-17-55. Cl. 51.  
 Champion Paper and Fibre Co., The, Hamilton, Ohio. 506,849, can. Cl. 37.  
 Chemiglas, Inc., San Diego, Calif. 609,808, pub. 5-10-55. Cl. 12.  
 Chemplast, Inc., Clifton, N. J. 609,759, pub. 5-3-55. Cl. 1.  
 Cherven's Industries Inc., Ebenezzer, N. Y. 610,051, pub. 5-17-55. Cl. 46.  
 Chicago Belt & Leather Novelties Co., d. b. a. Western Corral Industries, Chicago, Ill. 609,886, pub. 5-17-55. Cl. 22.  
 Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H., Tuttingen/Wurtemberg, Germany, now by change of name Medizin Chirurgiemechaniker-Genossenschaft eingetragen, Genossenschaft mit beschränkter Haftung, 609,966, pub. 12-1-53. Cl. 44.  
 Christopher, Mike, d. b. a. Review Publishing Co., Jackson, Miss. 507,095, can. Cl. 38.  
 Ciba Ltd., Basel, Switzerland. 609,787-8, pub. 5-10-55. Cl. 6.  
 Clairol Inc., Stamford, Conn. 610,149. Cl. 51.  
 Clemetsen Co., The, Chicago, Ill. 297,601, can. Cl. 32.  
 Cliff, A. B., d. b. a. Racing Teal Ranch, Pasadena and Thermal, Calif. 280,268, can. Cl. 46.  
 Clover Chemical Co., Eighty-Four, Pa. 610,092. Cl. 10.  
 Clover Farm Stores Co., The: See—  
 Grocers & Producers Co., The.  
 Clover Farm Stores Corp., Cleveland, Ohio. 316,286, can. Cl. 51.  
 Cluett, Peabody & Co., Inc., Troy, N. Y. 609,776, pub. 4-26-55. Cl. 3.  
 Cohn, Sigmund, Corp., Mount Vernon, N. Y. 609,877, pub. 5-3-55. Cl. 21.  
 Cointreau Corp.: See—  
 Societe a Responsabilite Limitee Cointreau.  
 Collins & Aikman Corp., New York, N. Y. 609,954, pub. 5-3-55. Cl. 42.  
 Columbia Restaurant, The, Tampa, Fla. 506,799, can. Cl. 46.  
 Compagnie Nationale Air France, Paris, France. 610,072, pub. 5-17-55. Cl. 105.  
 Compania Cubana de Licores, S. A., to Compania Ron Quiroga, S. A., Manzanillo, Cuba. 326,984, ren. 8-13-55. Cl. 49.  
 Compania Ron Quiroga, S. A.: See—  
 Compania Cubana de Licores, S. A.  
 Comprehensive Fabrics Inc., New York, N. Y. 506,991, can. Cl. 42.  
 Connoisseurs Gift Shop, Inc., Boston, Mass., now by change of name Connoisseurs Products Corp. 506,958, can. Cl. 4.  
 Connoisseurs Products Corp.: See—  
 Connoisseurs Gift Shop, Inc.  
 Continental Tire Corp., Chicago, Ill. 210,499, can. Cl. 21.  
 Cook Chemical Co., Kansas City, Mo. 610,090. Cl. 4.  
 Cook Coffee Co., The, Cleveland, Ohio. 507,013, can. Cl. 37.  
 Cooperative Producers, Inc., Grand Junction, Colo. 609,988, pub. 5-10-55. Cl. 46.  
 Craftest Foods, Inc., Sand Springs, Okla. 506,901, can. Cl. 46.  
 Creative Footwear, Inc., Boston, Mass., by change of name from Brown, Lockwood & Davenport Co. 506,800, can. Cl. 38.  
 Crosby Chemicals, Inc., De Ridder, La. 609,764, pub. 5-3-55. Cl. 1.  
 Crosby Chemicals, Inc., De Ridder, La. 609,765, pub. 5-10-55. Cl. 1.  
 Cub Knitting Corp., New York, N. Y. 610,134. Cl. 39.  
 Custer, Levitt L., d. b. a. The Custer Specialty Co., Dayton, Ohio. 506,885, can. Cl. 22.  
 Custer Specialty Co., The: See—  
 Custer, Levitt L.  
 D & D Association: See—  
 Tallo, Joe Jr.  
 Daniels Mfg. Co., Rhinelander, Wis. 328,436, ren. 9-24-55. Cl. 37.  
 Daniels Mfg. Co., Rhinelander, Wis. 329,078, ren. 10-15-55. Cl. 37.  
 Davis, Adrian B., d. b. a. Davis Mfg. Co., Wichita, Kans. 609,754, pub. 5-10-55. Cl. 1.  
 Davis, H. B., Corp., New York, N. Y. 610,103. Cl. 27.  
 Davis and Lawrence Co. Ltd., St. George's, Bermuda. 610,058, pub. 5-17-55. Cl. 51.  
 Davis Mfg. Co.: See—  
 Davis, Adrian B.  
 Dawson's Brewery, Inc., New Bedford, Mass. 610,145. Cl. 48.  
 Deafness Dairy Products Co., The, Defiance, Ohio. 177,299, can. Cl. 46.  
 De Loney & Co., Inc., Chicago, Ill. 506,817, can. Cl. 6.  
 Delano Imports Ltd., Teaneck, N. J. 610,084. Cl. 1.  
 Denney, Frances, Philadelphia, Pa. 609,854, pub. 4-12-55. Cl. 18.  
 Dental Digest, Inc., Pittsburgh, Pa. 609,908, pub. 5-10-55. Cl. 38.  
 Denton, Richard C., d. b. a. Talk-A-Letter Co., Detroit, Mich. 610,071, pub. 5-17-55. Cl. 104.  
 Desbergers Ltd., Montreal, Quebec, Canada. 506,916, can. Cl. 6.  
 Detroit-Michigan Stove Co.: See—  
 Detroit Stove Works.  
 Detroit Stove Works, to Detroit-Michigan Stove Co., Detroit, Mich. 105,528, ren. 8-3-55. Cl. 21.  
 Doane Agricultural Service, Inc., St. Louis, Mo. 507,103, can. Cl. 38.  
 Donner, Jade M., d. b. a. Donner Mfg. Co., North Hollywood, Calif. 610,099. Cl. 25.  
 Donner Mfg. Co.: See—  
 Donner, Jade M.  
 D'Orsay, Marcelle, d. b. a. Nos-Ease Co., New York, N. Y. 610,101-2. Cl. 26.  
 Drew, E. F., & Co., Inc., New York, N. Y. 610,045, pub. 5-17-55. Cl. 46.  
 Dubette Bags: See—  
 Dubette Bags, Inc.  
 Dubette Bags, Inc., d. b. a. Dubette Bags, New York, N. Y. 609,784, pub. 5-10-55. Cl. 3.  
 Duff Gordon & Co.: See—  
 Shaw, Alex. D., & Co., Inc.  
 Dulany, John H., & Son, Inc., Fruitland, Md. 609,984, pub. 5-10-55. Cl. 46.  
 Dutchman Foods: See—  
 Bowman, George L.  
 E-Z-Est Products Co.: See—  
 Sampson, Arnold.  
 Eagle Roller Mill Co., d. b. a. New Ulm Roller Mill Co., New Ulm, Minn. 506,968, can. Cl. 46.  
 Eastern-Columbia, Inc., Los Angeles, Calif. 385,607, can. Cl. 32.  
 Eastern-Columbia, Inc., Los Angeles, Calif. 395,268, can. Cl. 38.  
 Eastern Outfitting Co. of Los Angeles, Calif., Los Angeles, Huntington Park, Pasadena, and Long Beach, Calif. 333,021, can. Cl. 32.  
 Eastern Outfitting Co. of Los Angeles, Calif., Los Angeles, Huntington Park, Pasadena, and Long Beach, Calif. 372,775, can. Cl. 39.  
 Eltinger Brothers Leather Co., Rowley, Mass. 609,768, pub. 5-3-55. Cl. 1.  
 Economic Trend Line Studies: See—  
 Tripp, Chester D.  
 Electric Machinery Mfg. Co., Minneapolis, Minn. 609,862, pub. 5-3-55. Cl. 21.  
 Electric Parts Corp., Chicago, Ill. 609,879, pub. 5-3-55. Cl. 21.  
 Electro Glo Co.: See—  
 Jumer, John F.  
 Electrolux Corp., New York, N. Y. 609,868, pub. 5-3-55. Cl. 21.  
 Elmer Candy Co., Inc., New Orleans, La. 390,428, 12(c) pub. 8-2-55. Cl. 46.  
 Elmer Candy Co., Inc., New Orleans, La. 393,362, 12(c) pub. 8-2-55. Cl. 46.  
 Endicott Johnson Corp., Endicott, N. Y. 609,925, pub. 5-10-55. Cl. 39.  
 Equitable Paper Bag Co., Inc., Long Island City, N. Y. 610,108. Cl. 37.  
 Escalante, Jose & Co., Chicago, Ill. 506,890-4, can. Cl. 17.  
 Eutectic Welding Alloys Corp., Flushing, N. Y. 609,817, pub. 5-3-55. Cl. 14.  
 Evans, Robert G., Co., Kansas City, Mo. 609,891, pub. 5-3-55. Cl. 23.  
 Evergreen Mills, Inc., Ada, Okla. 610,044, pub. 5-17-55. Cl. 46.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 609,903, pub. 4-26-55. Cl. 37.  
 Fairfield Knitwear, Inc., New York, N. Y. 609,930, pub. 5-3-55. Cl. 39.  
 Faultless Rubber Co., The, also d. b. a. Ashland Rubber Works, Ashland, Ohio. 439,783, 12(c) pub. 8-2-55. Cl. 39.  
 Ferris, R. D. & C. S., Tie Siding, Wyo. 609,770, pub. 5-10-55. Cl. 1.  
 Ferro Corp., The, Cleveland, Ohio. 610,091. Cl. 10.  
 Fey, Wilhelm, Meckenheim, near Bonn, Germany. 609,757, pub. 5-3-55. Cl. 1.  
 Fieldston Ball Pen Co., Inc., New York, N. Y. 506,977, can. Cl. 37.

Figge & Hutwelker Co., New York, N. Y. 609,986, pub. 5-17-55. Cl. 46.  
 Five Fishermen Inc., San Francisco, Calif. 610,032, pub. 5-10-55. Cl. 46.  
 Flagg, Stanley G., & Co., Inc., Philadelphia, Pa. 327,570, 12(c) pub. 8-2-55. Cl. 13.  
 Flako Products Corp., New Brunswick, N. J. 609,985, pub. 5-17-55. Cl. 46.  
 Flugelman, N., & Co., Inc., New York, N. Y. 609,961, pub. 5-10-55. Cl. 42.  
 Food Fair Stores, Inc., Philadelphia, Pa. 610,004, pub. 5-10-55. Cl. 46.  
 Foot Adductor Shoes, Inc., Bronx, New York, N. Y. 609,941, pub. 5-10-55. Cl. 39.  
 Foote Mineral Co., Philadelphia, Pa. 609,815, pub. 5-3-55. Cl. 14.  
 Fort Howard Paper Co., Green Bay, Wis. 609,902, pub. 5-3-55. Cl. 37.  
 Forty Acres Ranch: See—  
 Stentiford, Henry J. and M. E.  
 Franco American Drug Co.: See—  
 Herman, Milton.  
 Franklin Products, Inc., Acton, Ind. 609,892, pub. 5-3-55. Cl. 23.  
 Frenchy Radio Mfg. Co., Scranton, Pa. 609,865, pub. 5-3-55. Cl. 21.  
 Frias, Rogelio, San Antonio, Tex. 610,080, pub. 5-17-55. Cl. 107.  
 Fuchs, Maurice, Bern, Switzerland. 609,967, pub. 5-3-55. Cl. 44.  
 Fyfe, R. H., & Co., Detroit, Mich. 609,914, pub. 5-10-55. Cl. 39.  
 G. B. H. Fabrica de Calzado, S. A., Mexico City, Mex. 609,921, pub. 4-26-55. Cl. 39.  
 Gasinator Mfg. Co., Cleveland, Ohio. 609,874, pub. 5-3-55. Cl. 21.  
 Geilich Leather Co., Taunton, Mass. 609,772-4, pub. 5-10-55. Cl. 1.  
 General Aniline & Film Corp., New York, N. Y. 609,758, pub. 5-3-55. Cl. 1.  
 General Electric Co., New York, N. Y. 609,860, pub. 5-3-55. Cl. 21.  
 General Water Heater Corp., Burbank, Calif. 328,282, ren. 9-24-55. Cl. 34.  
 Genoa Fisheries, Inc., d. b. a. Boston Bonnie Fisheries, Boston, Mass. 610,010, pub. 5-10-55. Cl. 46.  
 Gerateteub-Anstalt, Balzers, Balzers, Liechtenstein. 609,894-5, pub. 5-10-55. Cl. 26.  
 Gerber Products Co., d. b. a. Gerber's Baby Foods, Fremont, Mich. 610,019, pub. 5-10-55. Cl. 46.  
 Gerber's Baby Foods: See—  
 Gerber Products Co.  
 Geuder, Paeschke & Frey Co., Milwaukee, Wis. 103,059, Am. 7(d). Cl. 13.  
 Ghirardelli, D. Co., San Francisco, Calif. 106,424, ren. 10-19-55. Cl. 46.  
 Gillette Co., The, d. b. a. The Gillette Co., Boston, Mass. 610,054, pub. 11-24-53. Cl. 51.  
 Gladding, B. F., & Co., Inc., South Otselic, N. Y. 609,883-4, pub. 5-17-55. Cl. 22.  
 Glassine & Greaseproof Manufacturers Association, The, New York, N. Y. 507,090-1, can. Cl. 37.  
 Glenn & Thomas Co.: See—  
 Margoles, Edward I.  
 Glenn Thomas Co., Inc.: See—  
 Margoles, Edward I.  
 Glensder Textile Corp.: See—  
 Browns & Jacobson, Inc.  
 Glensder Textile Corp., New York, N. Y. 610,135. Cl. 39.  
 Gold Medal Yarn Co., New York, N. Y. 609,965, pub. 5-10-55. Cl. 43.  
 Gracious Foods Co.: See—  
 Peters, Leo.  
 Green Hickory Mill, Slapout, Ala. 609,756, pub. 5-10-55. Cl. 1.  
 Gregg, Herman, Plainview, Tex. 610,088. Cl. 1.  
 Greisen, Denver C., d. b. a. Tog-L-Lok Co., Portland, Oreg. 610,105. Cl. 29.  
 Grinnell, Charles W., Montpelier, Vt. 610,082, pub. 5-10-55. Cl. 107.  
 Grocers Baking Co., Inc., Louisville, Ky. 610,142. Cl. 46.  
 Grocers & Producers Co., The, d. b. a. The Clover Farm Stores Co., Cleveland, Ohio. 296,682, can. Cl. 46.  
 Gruen Watch Co., The, Cincinnati, Ohio. 329,353, ren. 10-29-55. Cl. 27.  
 Gruhn, Max J., d. b. a. Rofay Products, Jersey City, N. J. 609,845, pub. 5-10-55. Cl. 18.  
 Guardsman Co., The, Chicago, Ill. 609,778, pub. 4-26-55. Cl. 3.  
 Gustafson, Everett G., d. b. a. Gustafson Food Products, La Grange, Ill. 610,027, pub. 5-10-55. Cl. 46.  
 Gustafson Food Products: See—  
 Gustafson, Everett G.  
 H. & W. Associates, Chicago, Ill. 609,880, pub. 5-17-55. Cl. 22.  
 Hagerstown Rubber Co., The, Hagerstown, Md. 609,940, pub. 5-10-55. Cl. 39.  
 Haggard, John M., Chicago, Ill. 507,086, can. Cl. 55.  
 Haley, Fred M., d. b. a. Nello Co., Chattanooga, Tenn. 506,827, can. Cl. 45.  
 Hambaugh, Stephen D., Wickenburg, Ariz. 610,131. Cl. 39.  
 Harrison, A. S., Co., The, New York, N. Y. 506,908, can. Cl. 16.  
 Hartford Poultry Inc., Hartford, Conn. 610,050, pub. 5-17-55. Cl. 46.  
 Harvey, Earle K., d. b. a. Earle K. Harvey & Sons, Homestead, Fla. 610,034, pub. 5-10-55. Cl. 46.  
 Harvey, Earle K., & Sons: See—  
 Harvey, Earle K.  
 Heal, James H., d. b. a. Treatment Service and Engineering Co., San Francisco, Calif. 507,096, can. Cl. 6.  
 Hearst Corp., The: See—  
 King Features Syndicate, Inc.  
 Hearst Corp., The, New York, N. Y. 507,066, can. Cl. 38.  
 Hell Co., The, Milwaukee, Wis. 506,948, can. Cl. 34.  
 Heller, Elizabeth D., Merion, Pa. 610,062, pub. 5-10-55. Cl. 100.  
 Henney Motor Co., Inc., New York, N. Y. 609,878, pub. 5-3-55. Cl. 21.  
 Herman, Milton, d. b. a. Franco American Drug Co., Mount Vernon, N. Y. 325,140, ren. 6-11-55. Cl. 18.  
 Higham-Tong Ltd., Manchester, England. 609,928, pub. 5-3-55. Cl. 39.  
 Highland Mutual Groves, Inc., Highland, Calif. 506,814, can. Cl. 46.  
 Hiroto, I., & Son: See—  
 Hiroto, James T.  
 Hiroto, James T., d. b. a. I. Hiroto & Son, Coachella, Calif. 393,497, can. Cl. 46.  
 Hobart Mfg. Co., The, Troy, Ohio. 610,070, pub. 5-10-55. Cl. 103.  
 Hobb-Swetnam Co., Inc., Wichita Falls, Tex. 507,076, can. Cl. 4.  
 Hollywood-Maxwell Co., Los Angeles, Calif. 609,920, pub. 5-3-55. Cl. 39.  
 Hooper, Wm. E., & Sons Co., Baltimore, Md. 609,952, pub. 5-3-55. Cl. 42.  
 Hotel Piccadilly-Operating Co. Inc., New York, N. Y. 610,073, pub. 5-17-55. Cl. 105.  
 House of Huston, Inc., Coral Gables, Fla. 609,999, pub. 5-10-55. Cl. 46.  
 Hubrite Informal Frocks, Inc., Boston, Mass. 610,136. Cl. 39.  
 Hudnut, Richard, New York, N. Y. 104,728, ren. 6-15-55. Cl. 51.  
 Hudson Hosiery Co., Charlotte, N. C. 609,936, pub. 4-26-55. Cl. 39.  
 Hutcheson, Guy C., Arlington, Tex. 610,060, pub. 5-10-55. Cl. 100.  
 Hydro-Chemical Co. Inc., East Hartford, Conn. 506,966, can. Cl. 4.  
 Hydro-Test, Inc., Long Beach, Calif. 610,059, pub. 5-10-55. Cl. 100.  
 Ideal Toy Corp., Hollis, N. Y. 610,096. Cl. 22.  
 Imhof Packing Co., Inc., New York, N. Y. 609,981, pub. 5-10-55. Cl. 46.  
 Imperial Lighting Products Co., Greensburg, Pa. 609,876, pub. 5-3-55. Cl. 21.  
 Industrias Muerza S. A. Viuda e Hijos de Maximo Muerza, San Adrian, Navarre, Spain. 609,997, pub. 5-17-55. Cl. 46.  
 International Handkerchief Mfg. Co., The, New York, N. Y. 187,084, can. Cl. 39.  
 International Handkerchief Mfg. Co., The, New York, N. Y. 187,086, can. Cl. 39.  
 International Paper Co., New York, N. Y. 609,905, pub. 5-3-55. Cl. 37.  
 Iodent Chemical Co., Detroit, Mich. 610,009, pub. 5-3-55. Cl. 46.  
 J. L. S. Co.: See—  
 Swain, J. L., Sr.  
 Johnson & Johnson, New Brunswick, N. J. 609,976, pub. 5-3-55. Cl. 44.  
 Jordeau, Jean, Inc., South Orange, N. J. 328,897, ren. 10-8-55. Cl. 51.  
 Jorgensen Farms, Fresno, Calif. 411,307, can. Cl. 46.  
 Jumer, John F., d. b. a. Electro Glo Co., Chicago, Ill. 610,074, pub. 5-10-55. Cl. 106.  
 Jurid Werke Aktiengesellschaft, Dusseldorf-Grafenberg, Germany, by change of name from Kirchbachsche Werke A. G. 609,890, pub. 5-10-55. Cl. 23.  
 Just, H. D., & Son, Inc., Philadelphia, Pa. 610,139. Cl. 44.  
 K. & P. Industries, Inc., Kennelwick, Wash. 506,861, can. Cl. 46.  
 Kalamazoo Pant Co., Kalamazoo, Mich. 609,912-13, pub. 5-10-55. Cl. 39.  
 Kansas Milling Co., The, Wichita, Kans. 610,141. Cl. 46.  
 Karolton Envelope Co., Chicago, Ill. 506,949-50, can. Cl. 37.  
 Kehoe Preserving Co., Terre Haute, Ind. 193,051, can. Cl. 46.  
 Kellogg Co.: See—  
 Kellogg Toasted Corn Flake Co.  
 Kellogg Toasted Corn Flake Co., to Kellogg Co., Battle Creek, Mich. 106,978, ren. 11-9-55. Cl. 46.  
 Kellogg Toasted Corn Flake Co., to Kellogg Co., Battle Creek, Mich. 107,072, ren. 11-9-55. Cl. 46.  
 Kent-Moore Organization, Detroit, Mich. 196,119, can. Cl. 23.  
 Kerr, Raymond W., d. b. a. Kerrco Products, Hastings, Nebr. 609,811, pub. 5-3-55. Cl. 12.  
 Kerrco Products: See—  
 Kerr, Raymond W.  
 Kesterman Bros. Mfg. Co., Providence, R. I. 610,104. Cl. 28.  
 King Features Syndicate, Inc., to The Hearst Corp., New York, N. Y. 323,091, ren. 4-2-55. Cl. 38.  
 King Scoopers, Inc., Denver, Colo. 610,081, pub. 5-17-55. Cl. 107.  
 Kirchbachsche Werke A. G.: See—  
 Jurid Werke Aktiengesellschaft.  
 Kitchen Products, Inc., Chicago, Ill. 610,011, pub. 5-17-55. Cl. 46.  
 Kleibert, I. R., Rubber Co., New York, N. Y. 326,158, 12(c) pub. 8-2-55. Cl. 44.  
 Kleinol-Produktion G. m. b. H., Hamburg, Germany. 610,055, pub. 5-17-55. Cl. 51.  
 Kluth, Karl F., d. b. a. Kluth-Southwest Converters, Los Angeles, Calif. 609,960, pub. 5-10-55. Cl. 42.



Kluth-Southwest Converters: See—  
Kluth, Karl F.  
Knoll Associates Inc., New York, N. Y. 609,949, pub. 5-3-55. Cl. 42.  
Knott, Wm. T., Co., Inc., New York, N. Y., to Mercantile Stores Co., Inc., Wilmington, Del. 324,185, ren. 5-14-55. Cl. 39.  
Knox-Reese Manufacturers, Philadelphia, Pa. 506,854, can. Cl. 22.  
Kuttner-De Costa & Co., Philadelphia, Pa. 369,162, can. Cl. 39.  
Lander Co., Inc., The, New York, N. Y. 329,527, ren. 11-5-55. Cl. 51.  
Lander Co., Inc., The, New York, N. Y. 329,691-3, ren. 11-5-55. Cl. 51.  
Lannom Mfg. Co., Inc., The, Tullahoma, Tenn. 610,095. Cl. 22.  
Lanolized, Inc., Dover, Del. 609,933, pub. 5-3-55. Cl. 39.  
Larré Laboratories Inc., Denver, Colo. 609,972, pub. 5-3-55. Cl. 44.  
Larsen Co., The, Green Bay, Wis. 610,028, pub. 5-10-55. Cl. 46.  
Ledbetter, Berl D., Long Beach, Calif. 609,783, pub. 5-10-55. Cl. 3.  
Leggett, Francis H., & Co., New York, N. Y. 610,047, pub. 5-17-55. Cl. 46.  
Levy, J. H., & Son Co., The, Cleveland, Ohio. 609,932, pub. 2-22-55. Cl. 39.  
Lewis, Rosemarie, d. b. a. Vogarell Products Co., Los Angeles, Calif. 507,068, can. Cl. 6.  
Lexington Gardens, Inc., Lexington, Mass. 609,799, pub. 5-3-55. Cl. 10.  
Licht and Kaplan, Inc., Newburgh, N. Y. 609,779, pub. 4-26-55. Cl. 3.  
Lindberg, G., Tacoma, Wash., to California Packing Corp., San Francisco, Calif. 104,541, ren. 6-1-55. Cl. 46.  
Locker Management, Inc., St. Louis, Mo. 610,109. Cl. 38.  
Lockport Mills, Inc., Lockport, N. Y. 610,053, pub. 6-3-55. Cl. 50.  
Lone Ranger, Inc., The, Detroit, Mich. 507,040, can. Cl. 38.  
Lonergan Mfg. Co., Albion, Mich. 506,887, can. Cl. 34.  
Lyons, John L., d. b. a. National Distributors, Louisville, Ky. 609,896, pub. 5-10-55. Cl. 29.  
M. Louis Products Co.: See—  
Napolitan, Louis.  
Magnetic Metals Co., Camden, N. J. 609,869, pub. 5-3-55. Cl. 21.  
Mainco Trading Co., Kennebunk, Maine. 506,987, can. Cl. 37.  
Mallet & Co., Inc., Pittsburgh, Pa. 610,029-31, pub. 5-10-55. Cl. 46.  
Manchester Hosiery Mills, Manchester, N. H. 609,935, pub. 4-10-55. Cl. 39.  
Margoles, Edward I., d. b. a. Glenn & Thomas Co., to Glenn Thomas Co., Inc., New York, N. Y. 609,955, pub. 5-3-55. Cl. 42.  
Marks' Prize Recipe Foods: See—  
Recipe Foods, Inc.  
Marlboro Shirt Co., Inc., Baltimore, Md. 609,923, pub. 7-6-54. Cl. 39.  
Marlin Firearms Co., The, New Haven, Conn. 609,798, pub. 5-3-55. Cl. 9.  
Mars, Inc., Chicago, Ill. 610,024, pub. 5-10-55. Cl. 46.  
Marvel Foods, Inc., Minneapolis, Minn. 610,021, pub. 5-10-55. Cl. 46.  
Matson, H. P. Co.: See—  
Matson, Harry P.  
Matson, Harry P., d. b. a. H. P. Matson Co., Akron, Ohio. 610,146. Cl. 50.  
Mavest Inc., New York, N. Y. 610,128. Cl. 39.  
McClancy Co., The, Beaumont, Tex. 610,013, pub. 5-17-55. Cl. 46.  
McConn, Alfred W., d. b. a. Al's Potato Co., Moorhead, Minn. 407,342, can. Cl. 46.  
McGovern & McGovern: See—  
Monitor Fisheries, Inc.  
McGraw Electric Co., Chicago, Ill. 609,866, pub. 5-3-55. Cl. 21.  
McMullen Food Bank, Inc., Live Oak, Fla. 609,991, pub. 5-3-55. Cl. 46.  
McNutt, Clara E., Toledo, Ohio. 506,883, can. Cl. 6.  
Medicon Chirurgiemechaniker-genossenschaft eingetragene Genossenschaft mit beschränkter Haftpflicht: See—  
Chirurgie Union, Genossenschaft der Chirurgie-Mechaniker, E. G. m. b. H.  
Medusa Portland Cement Co., Cleveland, Ohio. 609,830, pub. 5-10-55. Cl. 16.  
Melrose Distillers, Inc.: See—  
Oldtime Distillers, Inc.  
Mercantile Stores Co., Inc.: See—  
Knott, Wm. T., Co., Inc.  
Merck & Co., Inc., Rahway, N. J. 609,853, pub. 4-10-55. Cl. 18.  
Metallurgical Products Co., Philadelphia, Pa. 609,789, pub. 4-19-55. Cl. 6.  
Metalweld, Inc., Philadelphia, Pa. 610,069, pub. 5-10-55. Cl. 103.  
Meyercoed Co., The, Chicago, Ill. 506,928, can. Cl. 38.  
Michigan Mushroom Co., Niles, Mich. 610,007, pub. 4-26-55. Cl. 46.  
Micro-Master, Inc.: See—  
Wally, Joseph H., Jr.  
Mid-Pacific Food Products Co., Honolulu, Territory of Hawaii. 610,020, pub. 5-10-55. Cl. 46.  
Midwest Industrial Products Corp., Chicago, Ill. 609,813-14, pub. 5-10-55. Cl. 12.  
Miller Industries, Inc., Reed City, Mich. 609,806, pub. 5-3-55. Cl. 12.  
Minonk Dairy Products Co.: See—  
Zivney, Arthur.  
Mitchell, P. R., Co., The, Cincinnati, Ohio. 506,961, can. Cl. 42.  
Modern Food Products Co., d. b. a. Modern Import Co., San Francisco, Calif. 609,994, pub. 5-10-55. Cl. 46.  
Modern Import Co.: See—  
Modern Food Products Co.  
Modesto Produce Packing Co., Inc., Modesto, Calif. 610,033, pub. 5-10-55. Cl. 46.  
Mona Lisa Furs, Inc., New York, N. Y. 609,926, pub. 5-3-55. Cl. 39.  
Monarch Leather Co., Chicago, Ill. 506,818-19, can. Cl. 1.  
Monitor Fisheries, Inc., d. b. a. McGovern & McGovern, Seattle, Wash. 506,867, can. Cl. 46.  
Monroe Laboratories, Inc., Chicago, Ill. 506,932, can. Cl. 6.  
Moorman Mfg. Co., Quincy, Ill. 609,846, pub. 5-10-55. Cl. 18.  
Morosan, Aurelia V., d. b. a. Broadway Sound Productions, Denver, Colo. 609,899, pub. 5-3-55. Cl. 36.  
Morton Salt Co.: See—  
Mulkey Salt Co.  
Moschetti Bros.: See—  
Moschetti, Edward.  
Moschetti, Edward, d. b. a. Moschetti Bros., Brooklyn, N. Y. 610,018, pub. 5-17-55. Cl. 46.  
Mount Arbor Nurseries, Shenandoah, Iowa. 610,085. Cl. 1.  
Muir-Roberts & Burningham, Inc., Salt Lake City, Utah. 609,992, pub. 5-17-55. Cl. 46.  
Mulkey Salt Co., Detroit, Mich., to Morton Salt Co., Chicago, Ill. 506,939, can. Cl. 46.  
Muro, Walter J., New York, N. Y. 609,938, pub. 5-3-55. Cl. 39.  
Mutual Benefit Life Insurance Co., The, Newark, N. J. 610,067, pub. 5-17-55. Cl. 102.  
Myers, Herbert G., d. b. a. My-Len Sales Co., Chicago, Ill. 609,939, pub. 5-10-55. Cl. 39.  
Myklestad, Örnulf T., Oslo, Norway. 609,990, pub. 5-3-55. Cl. 46.  
My-Len Sales Co.: See—  
Myers, Herbert G.  
N & W Industries, Inc., Lynchburg, Va. 609,918, pub. 5-10-55. Cl. 39.  
Napa Rock Mineral Water Co., Oakland, Calif. 506,825, can. Cl. 46.  
Naples of Hollywood: See—  
Boecia, Ralph.  
Napolitan, Louis, d. b. a. M. Louis Products Co., New York, N. Y. 506,963, can. Cl. 6.  
Nash Inc., Jersey City, N. J. 609,782, pub. 4-26-55. Cl. 3.  
National Airlines, Inc., Miami, Fla. 507,087, can. Cl. 55.  
National Appliance & Radio Dealers Association, Inc., Chicago, Ill. 610,068, pub. 5-17-55. Cl. 103.  
National Co-Operatives, Inc., Indianapolis, Ind. 359,039, can. Cl. 23.  
National Distributors: See—  
Lyons, John L.  
National Fruit Product Co., Inc., Winchester, Va. 104,641. Am. 7(d). Cl. 46.  
National Fruit Product Co., Inc., Winchester, Va. 610,005, pub. 5-10-55. Cl. 46.  
National Shorthand Reporters Association, Chicago, Ill. 506,995, can. Cl. 38.  
Nello Co.: See—  
Haley, Fred M.  
Nelson, Carl A., Hobart, Ind. 609,850, pub. 5-17-55. Cl. 18.  
Neumode Hosiery Co., Chicago, Ill. 609,943, pub. 4-26-55. Cl. 39.  
Newbro Mfg. Co., Atlanta, Ga. 507,117, can. Cl. 6.  
New Jersey Wood Finishing Co., Woodbridge, N. J. 609,872, pub. 5-3-55. Cl. 21.  
New Ulm Roller Mill Co.: See—  
Eagle Roller Mill Co.  
Nielco Laboratories: See—  
Nielsen, Claudius.  
Nielsen, Claudius, d. b. a. Nielco Laboratories, Detroit, Mich. 609,828, pub. 5-10-55. Cl. 15.  
Norcross, Inc., New York, N. Y. 506,899, can. Cl. 38.  
Northern Paper Mills, Green Bay, Wis. 189,174, can. Cl. 37.  
Northwest Pre-Pak Co., Wenatchee, Wash. 610,049, pub. 5-17-55. Cl. 46.  
Northwestern Expanded Metal Co., to United States Gypsum Co., Chicago, Ill. 104,643, ren. 6-8-55. Cl. 12.  
Norwegian Lutheran Church of America, Minneapolis, Minn. 286,898, can. Cl. 38.  
Norwood Filtration Co., Northampton, Mass. 506,830, can. Cl. 31.  
Nos-Ease Co.: See—  
D'Orsay, Marcelle.  
O. E. M. Corp., East Norwalk, Conn. 609,973-4, pub. 5-3-55. Cl. 44.  
Oatey, L. R., Co., The, Cleveland, Ohio. 609,804, pub. 5-10-55. Cl. 12.  
Oerlikon Machine Tool Works, Buehler & Co., Zurich, Oerlikon, Switzerland. 609,797, pub. 5-10-55. Cl. 9.  
O'Hare, Eugene F.: See—  
Wizard Electronics.  
Old Polindexter Distillery, Inc., Ekron, Ky. 506,884, can. Cl. 49.  
Oldtime Distillers, Inc. Melrose Distillers, Inc., New York, N. Y. 325,600. Am. 7(d). Cl. 49.  
Old Virginia Packing Co., Inc., Front Royal, Va. 610,008, pub. 5-10-55. Cl. 46.  
Ollan Brothers Co., Dallas, Tex. 507,094, can. Cl. 39.  
Olin Mathieson Chemical Corp.: See—  
Squibb, E. R., & Sons.  
Omar Inc., Omaha, Nebr. 610,052, pub. 5-3-55. Cl. 46.  
Onondaga Silk Co., Inc., New York, N. Y. 323,104, 12(c) pub. 8-2-55. Cl. 42.

Onondaga Silk Co., Inc., New York, N. Y. 325,679, 12(c) pub. 8-2-55. Cl. 42.  
Ophthalmos, Inc., Union City, N. J. 609,978, pub. 5-3-55. Cl. 44.  
Orange Belt Fruit Distributors, Pomona, Calif. 394,224, can. Cl. 46.  
Ore-Ida Potato Products, Inc., Ontario, Oreg. 610,048, pub. 5-17-55. Cl. 46.  
Orrell, James A., d. b. a. Orrell's Food Products, Oakland, Calif. 507,113, can. Cl. 46.  
Orrell's Food Products: See—  
Orrell, James A.  
Orsi, Domenico, New York, N. Y. 609,951, pub. 5-3-55. Cl. 42.  
Ortho Pharmaceutical Corp., Raritan, N. J. 609,971, pub. 5-3-55. Cl. 44.  
Ottawa Silica Co., Ottawa, Ill. 609,771, pub. 5-10-55. Cl. 1.  
Outboard Publishing Co., Inc., Jacksonville, Fla. 610,111. Cl. 38.  
Owens-Corning Fiberglass Corp., Toledo, Ohio. 609,810, pub. 5-3-55. Cl. 12.  
PM Industries, Inc., Stamford, Conn. 609,867, pub. 5-3-55. Cl. 21.  
Padre Island Co., Inc., Corpus Christi, Tex. 609,882, pub. 5-17-55. Cl. 22.  
Parke, Davis & Co., Detroit, Mich. 507,047, can. Cl. 6.  
Parker Rust Proof Co., Detroit, Mich. 609,832, pub. 5-3-55. Cl. 16.  
Park-O-Mat, Inc., San Diego, Calif. 609,889, pub. 5-3-55. Cl. 23.  
Paroni & Murray, Denver, Colo. 609,864, pub. 5-3-55. Cl. 21.  
Patch, E. L., Co., The, Stoneham, Mass. 507,062, can. Cl. 6.  
Pease, Fred, & Co.: See—  
Pease, Fred W.  
Pease, Fred W., d. b. a. Fred Pease & Co., Bastrop, Tex. 609,858, pub. 5-17-55. Cl. 18.  
Peerless Finishing Corp., Paterson, N. J. 610,077, pub. 5-17-55. Cl. 106.  
Pen Argyl Milling Co., Inc., Pen Argyl, Pa. 610,046, pub. 5-17-55. Cl. 46.  
Peper, Christian, Tobacco Co., St. Louis, Mo. 337,879, can. Cl. 17.  
Peper, Christian, Tobacco Co., St. Louis, Mo. 375,069, can. Cl. 17.  
Pep-Pa-Min-It Co. of Baltimore: See—  
Schloss, Herbert A.  
Perkins Products Co., Chicago, Ill. 342,151, can. Cl. 46.  
Peters, Leo, d. b. a. Gracious Foods Co., Grand Rapids, Mich. 609,993, pub. 5-3-55. Cl. 46.  
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 599,524. Am. 7(d). Cl. 6.  
Proemix Hosiery Co., Milwaukee, Wis. 609,937, pub. 5-10-55. Cl. 39.  
Phoenix Trimming Co., Chicago, Ill. 609,777, pub. 5-3-55. Cl. 3.  
Pick Mfg. Co., West Bend, Wis. 507,006, can. Cl. 31.  
Pirrone, F., & Sons, Inc., Garfield, N. J. 506,944, can. Cl. 47.  
Plymouth Cordage Co., Plymouth, Mass. 609,790, pub. 5-3-55. Cl. 7.  
Popped-Right Corn Co., Marion, Ohio. 609,980, pub. 5-10-55. Cl. 46.  
Port Huron Sulphite & Paper Co., Port Huron, Mich. 609,904, pub. 4-26-55. Cl. 37.  
Powell-Gayek Advertising, Inc., Detroit, Mich. 610,064, pub. 5-17-55. Cl. 101.  
Presto-O-Lite Battery Co., Inc.: See—  
Presto-O-Lite Co., Inc., The.  
Prest-O-Lite Co., Inc., The, Indianapolis, Ind., to Presto-O-Lite Battery Co., Inc., Toledo, Ohio. 107,006, ren. 11-9-55. Cl. 21.  
Pre-Vest, Inc., Cleveland, Ohio. 609,769, pub. 5-3-55. Cl. 1.  
Price Battery Corp., Hamburg, Pa. 328,638, ren. 10-1-55. Cl. 21.  
Price, H. C., Co., Bartlesville, Okla. 609,803, pub. 5-3-55. Cl. 12.  
Prince Matchabelli, Inc., New York, N. Y. 610,150-3. Cl. 51.  
Proen Products Co., Berkeley, Calif. 610,093. Cl. 10.  
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Racing Teal Ranch: See—  
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Ransom & Randolph Co., The, Toledo, Ohio. 609,969-70, pub. 5-3-55. Cl. 44.  
Reading Batteries, Inc., Temple, Pa. 609,870, pub. 5-3-55. Cl. 21.  
Recipe Foods, Inc., Baltimore, Md., from Marks' Prize Recipe Foods. 507,092, can. Cl. 46.  
Reid Clark Mfg. Co.: See—  
Reid Clark Mfg. Co., Inc.  
Reid Clark Mfg. Co., Inc., also d. b. a. Reid Clark Mfg. Co., Montgomery, Ala. 507,104, can. Cl. 22.  
Reliable Textile Co., Inc., New York, N. Y. 609,957, pub. 5-10-55. Cl. 42.  
Resinous Products & Chemical Co., The, to Rohm & Haas Co., Philadelphia, Pa. 325,891, ren. 7-9-55. Cl. 16.  
Review Publishing Co.: See—  
Christopher, Mike.  
Rexton Finishes, Inc., Irvington, N. J. 609,834, pub. 5-10-55. Cl. 16.  
Rexton Finishes, Inc., Irvington, N. J. 609,835-9, pub. 5-3-55. Cl. 16.  
Rexton Finishes, Inc., Irvington, N. J. 609,840, pub. 5-10-55. Cl. 16.  
Rexton Finishes, Inc., Irvington, N. J. 609,843, pub. 5-10-55. Cl. 16.  
Rheem Mfg. Co., Richmond, Calif. 609,893, pub. 5-3-55. Cl. 24.  
Rich-Marc Mfg. Co., Inc., New York, N. Y. 506,953, can. Cl. 37.  
Rohm & Haas Co., Inc., New York, N. Y. 609,825-6, pub. 5-10-55. Cl. 15.  
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Gruhn, Max J.  
Rohm & Haas Co.: See—  
Resinous Products & Chemical Co., The.  
Rohm & Haas Co., Philadelphia, Pa. 326,002, ren. 7-9-55. Cl. 6.  
Rose-Derry Co., Newton, Mass. 367,323, can. Cl. 32.  
Rose-Derry Co., Newton, Mass. 371,559, can. Cl. 32.  
Rose-Derry Co., Newton, Mass. 380,044, can. Cl. 32.  
Rosenblatt, Louis B., Brooklyn, N. Y. 507,056, can. Cl. 38.  
Ross, A. H., & Sons Co., Chicago, Ill. 383,784, can. Cl. 1.  
Ross, A. H., & Sons Co., Chicago, Ill. 384,350, can. Cl. 1.  
Royal Souders, Inc., Dayton, Ohio. 506,808, can. Cl. 46.  
Rutenber Electric Co., Marion, Ind. 146,604, can. Cl. 21.  
Rutenber Electric Co., Marion, Ind. 196,505, can. Cl. 21.  
S. A. Eeco (Europan Overseas Trading Co.), Zwegem, Belgium. 609,791, pub. 4-26-55. Cl. 7.  
Safety Mining Co., to Cardox Corp., Chicago, Ill. 325,952, ren. 7-9-55. Cl. 9.  
Safety Mining Co., to Cardox Corp., Chicago, Ill. 326,129, ren. 7-16-55. Cl. 23.  
Safety Mining Co., to Cardox Corp., Chicago, Ill. 326,835-6, ren. 8-6-55. Cl. 9.  
Safety Mining Co., to Cardox Corp., Chicago, Ill. 327,392-3, ren. 8-27-55. Cl. 23.  
St. Louis Cordage Mills: See—  
American Mfg. Co.  
Salinas Valley Vegetable Exchange, Salinas, Calif. 610,037-40, pub. 5-10-55. Cl. 46.  
Sampson, Arnold, d. b. a. E-Z-Est Products Co., San Francisco, Calif. 610,154. Cl. 52.  
Scherl & Roth, Inc., New York, N. Y., to Scherl & Roth, Inc., Cleveland, Ohio. 328,725, ren. 10-1-55. Cl. 36.  
Schloss, Herbert A., d. b. a. The Pep-Pa-Min-It Co. of Baltimore, Baltimore, Md. 609,857, pub. 5-3-55. Cl. 18.  
Scholl Mfg. Co., Inc., The, Chicago, Ill. 609,968, pub. 5-3-55. Cl. 44.  
Scholl Mfg. Co., Inc., The, Chicago, Ill. 609,977, pub. 5-3-55. Cl. 44.  
Schuman Farms: See—  
Schuman, Meyer Co.  
Schuman, Meyer Co., d. b. a. Schuman Farms, Beverly Hills, Calif. 610,035-6, pub. 5-10-55. Cl. 46.  
Scripps, E. W., Co., The, Cleveland, Ohio. 610,110. Cl. 38.  
Sea Island Mills, Inc., New York, N. Y. 407,174, can. Cl. 42.  
Seebach, Edwin, d. b. a. Edwin Seebach Co., New York, N. Y. 328,746, ren. 10-1-55. Cl. 51.  
Seebach, Edwin, d. b. a. Edwin Seebach Co., New York, N. Y. 328,890, ren. 10-8-55. Cl. 51.  
Seebach, Edwin, Co.: See—  
Seebach, Edwin.  
Shaw, Alex D., & Co., Inc., New York, N. Y., to Duff Gordon & Co., Port St. Mary's, Spain. 328,487, ren. 10-1-55. Cl. 47.  
Shaw, Alex D., & Co., Inc., New York, N. Y., to Duff Gordon & Co., Port St. Mary's, Spain. 328,725, ren. 10-1-55. Cl. 47.  
Shellmar Products Corp., Chicago, Ill. 506,903, can. Cl. 37.  
Sherwin-Williams Co., The, Cleveland, Ohio. 324,587, ren. 5-21-55. Cl. 16.  
Sherwin-Williams Co., The, Cleveland, Ohio. 507,037, can. Cl. 6.  
Show-Off, Inc., Jamestown, N. Y. 609,833, pub. 5-3-55. Cl. 16.  
Sidles Mfg. Co.: See—  
Sidles, Richard H.  
Sidles, Richard H., d. b. a. Sidles Mfg. Co., Laredo, Tex. 610,094. Cl. 19.  
Slayman Fruit Co., Lindsay, Calif. 609,998, pub. 5-10-55. Cl. 46.  
Sloan, Wm. L., New York, N. Y. 507,112, can. Cl. 6.  
Smith, Alexander, Inc., White Plains, N. Y. 609,958, pub. 5-10-55. Cl. 42.  
Smokador Mfg. Co., Inc., Bloomfield, N. J. 609,897, pub. 5-3-55. Cl. 32.  
Snake River Trout Co., Buhl, Idaho. 610,012, pub. 5-17-55. Cl. 46.  
Societe a Responsabilite Limitee Cointreau, Angers, France, to Cointreau Corp., Remington, N. J. 329,662, ren. 11-5-55. Cl. 49.  
Societe des Etablissements Louis Rigal, Societe Anonyme, Roquefort, Aveyron, France. 609,982, pub. 5-10-55. Cl. 46.  
Society La Cotonniere de Saint-Quentin, Societe Anonyme, The, St. Quentin (Aisne), France. 609,916, pub. 5-10-55. Cl. 39.  
Socony-Vacuum Oil Co., Inc., New York, N. Y. 326,829, ren. 8-6-55. Cl. 4.  
Sorrrell, C. O., d. b. a. Spray-A-Sign Co., Kirksville, Mo. 610,148. Cl. 50.  
Southeastern International Corp., Cleveland, Ohio. 609,885, pub. 5-17-55. Cl. 22.  
Southern Varnish Corp., Roanoke, Va. 325,933, ren. 7-9-55. Cl. 16.  
Southwestern Petroleum Co., Inc., Fort Worth, Tex. 609,822, pub. 5-10-55. Cl. 15.  
Sparks Dairy, Inc., Buffalo, N. Y. 324,476, ren. 5-21-55. Cl. 46.  
Spray-A-Sign Co.: See—  
Sorrrell, C. O.  
Squibb, E. R., & Sons, to Olin Mathieson Chemical Corp., New York, N. Y. 328,847, ren. 10-8-55. Cl. 46.  
Squibb, W. P., Distilling Co., Inc., Vincennes, Ind. 506,833, can. Cl. 49.  
Stahl, H. K., Co., St. Paul, Minn. 609,821, pub. 5-10-55. Cl. 15.  
Standard Knitting Mills, Inc., Knoxville, Tenn. 610,133. Cl. 39.



- Standard Radio Transcription Services, Inc., Chicago, Ill. 609,900, pub. 5-3-55. Cl. 36.  
Stanley, Carol, Inc., New York, N. Y. 609,915, pub. 5-10-55. Cl. 39.  
Stanley Works, The, New Britain, Conn. 609,875, pub. 5-3-55. Cl. 21.  
Star Electric Motor Co., Bloomfield, N. J. 407,100, can. Cl. 21.  
Star Electric Motor Co., Bloomfield, N. J. 407,786, can. Cl. 21.  
Star Electric Motor Co., Newark, N. J. 174,738-9, can. Cl. 21.  
Steak n Shake, Inc., Bloomington, Ill. 609,979, pub. 5-3-55. Cl. 46.  
Steinfeld's Products Co., Portland, Oreg. 610,016, pub. 5-17-55. Cl. 46.  
Stentiford, Henry J., and Marguerite E. Stentiford, d. b. a. Forty Acres Ranch, Lakeland, Fla. 610,002-3, pub. 5-17-55. Cl. 46.  
Stentiford, Marguerite E.: See—  
Stentiford, Henry J. and M. E.  
Stevco Textile Co., New York, N. Y. 609,948, pub. 5-3-55. Cl. 42.  
Stewart-Hall Corp., Chicago, Ill. 609,805, pub. 5-3-55. Cl. 12.  
Stryker, Auriol M., Chicago, Ill. 609,780, pub. 4-26-55. Cl. 3.  
Sun Dial Corp., Caldwell Township, Essex County, N. J. 610,075, pub. 5-10-55. Cl. 106.  
Sun Harbor Packing Co., Los Angeles, Calif. 610,014, pub. 5-17-55. Cl. 46.  
Surgical Instrument Co., Oakland, Calif. 609,975, pub. 5-3-55. Cl. 44.  
Swain, J. L., Sr., d. b. a. J. L. S. Co., Plymouth, N. C. 609,848, pub. 5-10-55. Cl. 18.  
Swan-Finch Oil Corp., New York, N. Y. 609,824, pub. 5-10-55. Cl. 15.  
Talk-A-Letter Co.: See—  
Denton, Richard C.  
Tallo, Joe, Jr., d. b. a. D & D Association, Hammond, La. 610,022, pub. 5-10-55. Cl. 46.  
Tate, Jack D., d. b. a. Quik Tan Co., Dallas, Tex. 610,138. Cl. 44.  
Thomas Textile Co., Inc., New York, N. Y. 609,946, pub. 5-10-55. Cl. 42.  
Thomastik, Dr., und Mitarbeiter Offene Handelsgesellschaft, Vienna, Austria. 609,898, pub. 5-3-55. Cl. 36.  
Thoroughbred Racing Associations of the United States, Inc., New York, N. Y. 610,063, pub. 5-10-55. Cl. 100.  
Tog-Lok Co.: See—  
Grelsen, Denver C.  
Toni Co., The: See—  
Gillette Co., The.  
Toy Founders Inc., Detroit, Mich. 507,102, can. Cl. 22.  
Traverse City Canning Co., Traverse City, Mich. 610,043, pub. 5-17-55. Cl. 46.  
Trav-Ler Mfg. Corp. Trav-Ler Radio Corp., Chicago, Ill. 234,087. Am. 7(d). Cl. 21.  
Trav-Ler Radio Corp.: See—  
Trav-Ler Mfg. Corp.  
Treatment Service and Engineering Co.: See—  
Heal, James H.  
Tripp, Chester D., d. b. a. Economic Trend Line Studies, Chicago, Ill. 506,933, can. Cl. 38.  
Turk, Jack, & Co., Inc., New York, N. Y. 610,132. Cl. 39.  
Ullman Research Corp., Norwalk, Conn. 610,098. Cl. 22.  
Unanne & Sons, Inc., New York, N. Y. 610,006, pub. 5-17-55. Cl. 46.  
Union Starch & Refining Co., Columbus, Ind. 609,983, pub. 5-10-55. Cl. 46.  
Union Wadding Co., Pawtucket, R. I. 610,147. Cl. 50.  
United File-O-Matic Inc., New York, N. Y. 610,065, pub. 5-17-55. Cl. 101.  
United States Gypsum Co.: See—  
Northwestern Expanded Metal Co.  
United States Gypsum Co., Chicago, Ill. 325,056, ren. 6-11-55. Cl. 10.  
Universal-Cyclops Steel Corp., Bridgeville, Pa. 609,816, pub. 5-3-55. Cl. 14.  
Valladares, Mannel, New York, N. Y. 506,879, can. Cl. 37.  
Vanderbilt, R. T., Co., Inc., New York, N. Y. 609,829, pub. 5-10-55. Cl. 15.  
Velveray Corp., New York, N. Y. 610,076, pub. 5-10-55. Cl. 106.  
Vogarell Products Co.: See—  
Lewis, Rosemarie.  
Vonatel Co., The: See—  
Anderson, Charles L.  
Waldorf Record Corp., Harrison, N. J. 609,901, pub. 5-3-55. Cl. 36.  
Wallau, Alex Lee, Inc., New York, N. Y. 610,129. Cl. 39.  
Wally, Joseph H., Jr., to Micro-Master, Inc., Kansas City, Mo. 609,909, pub. 5-10-55. Cl. 38.  
Walterisation Co., Ltd., The, Croydon, Surrey, England. 609,785, pub. 5-10-55. Cl. 6.  
Wanamaker, John, New York, New York, N. Y. 330,023, can. Cl. 39.  
Warren, S. D. Co., Boston, Mass. 507,116, can. Cl. 37.  
Weather Products Inc., Hialeah, Fla. 609,801, pub. 5-3-55. Cl. 12.  
Weatherproof Products Corp., The, Holmes Park, Mo. 609,812, pub. 5-3-55. Cl. 12.  
Weekly Publications, Inc., New York, N. Y. 610,112-23. Cl. 38.  
Weeks and Leo Co. Inc.: See—  
Chamberlain Laboratories, Inc.  
Weiner, Simon, New York, N. Y. 609,917, pub. 5-10-55. Cl. 39.  
Welch Grape Juice Co., Inc., The, Westfield, N. Y. 609,996, pub. 5-10-55. Cl. 46.  
Weldon Farm Products, Inc., New York, N. Y. 609,989, pub. 5-10-55. Cl. 46.  
West Bend Aluminum Co., West Bend, Wis. 329,344, ren. 10-29-55. Cl. 21.  
Western Corral Industries: See—  
Chicago Belt & Leather Novelties Co.  
Westinghouse Air Brake Co., Wilmerding, Pa. 106,386, ren. 10-19-55. Cl. 19.  
Weston Mfg. & Supply Co., Denver, Colo. 609,775, pub. 5-10-55. Cl. 8.  
Weyand, B. T., d. b. a. Weyand & Co., Seattle, Wash. 506,858, can. Cl. 46.  
Weyand & Co.: See—  
Weyand, B. T.  
Wilbur & Williams Paint Corp., The, Boston, Mass. 507,115, can. Cl. 16.  
Wilco Products, Inc., Philadelphia, Pa. 506,945, can. Cl. 37.  
Williams, J. F., & Co., Inc., Rochester, N. Y. 506,889, can. Cl. 32.  
Wilner-Rosen Fur Corp., New York, N. Y. 609,927, pub. 5-3-55. Cl. 39.  
Wilmer, Don C., Butler, Pa. 610,079, pub. 5-17-55. Cl. 107.  
Wix Corp., Gastonia, N. C. 610,106. Cl. 31.  
Wizard Electronics, University City, Mo., to E. F. O'Hare. 609,873, pub. 5-3-55. Cl. 21.  
Wolco Products, Inc.: See—  
Wolcott Co., The.  
Wolcott Co., The, to Wolco Products, Inc., Hartford, Conn. 610,155. Cl. 52.  
Wolf & Dessauer Co., Fort Wayne, Ind. 609,920, pub. 4-19-55. Cl. 39.  
Wolwin Chair Co., The, Willoughby, Ohio. 506,998, can. Cl. 32.  
Wonder Products Co., Canton, Ohio. 372,183, can. Cl. 4.  
Wonder Whip, Inc., Chicago, Ill. 609,987, pub. 5-3-55. Cl. 46.  
Wooden Shoe Brewing Co., The, Minster, Ohio. 506,913, can. Cl. 48.  
Zivney, Arthur, d. b. a. Minonk Dairy Products Co., Minonk, Ill. 610,023, pub. 5-17-55. Cl. 46.

U. S. GOVERNMENT PRINTING OFFICE: O—1955

## PATENTS

### NOTICES

#### Roster of Attorneys and Agents

The Patent Office has recently published a new edition of the *Roster of Attorneys and Agents Registered to Practice Before the U. S. Patent Office*.

This edition like the preceding one is an extract of the official Roster maintained by the Patent Office and contains the name and address of all individuals and firms registered in the Patent Office on May 1, 1955. This publication is composed of three sections (1) Individuals in the United States, (2) Firms and (3) Individuals in Foreign Countries. Each section contains Part I, Arranged Alphabetically, and Part II, Arranged Geographically.

This publication may be purchased from the Superintendent of Documents, Washington 25, D. C., for \$1.00 per copy. Remittance in the form of check or money order should be payable to the Superintendent of Documents.

T. B. MORROW,  
Executive Officer.

#### Adjudicated Patent

(U. S. C. A., Second Circuit) Schlumbohm Patent No. 2,359,943, for a filtering and decanter device, summary judgment of noninfringement reversed. *Filt-O-Pure Products Corporation et al. v. Chomez Corporation et al.*, 222 F.2d 424; 105 USPQ 254.

#### Disclaimer

2,689,295.—George H. Goldner, Warren, Ohio. WELDING APPARATUS. Patent dated Sept. 14, 1954. Disclaimer filed July 12, 1955, by the assignee, *The Federal Machine and Welder Company*.

Hereby enters this disclaimer to the single claim of said patent.

#### Use of Split Patent Office Coupons

Effective immediately the practice of accepting one-half of a Patent Office coupon at one-half face value in the payment of fees is discontinued.

July 19, 1955.  
T. B. MORROW,  
Executive Officer.

#### Registration to Practice

The following list contains the names of all applicants for registration to practice before the United States Patent Office who attained passing grades in the examination of April 25, 1955. Information tending to affect the eligibility of any

of said applicants on moral or ethical grounds should be furnished the Commissioner of Patents on or before September 8, 1955.

ARTHUR W. CROCKER,

July 22, 1955. Chairman, Committee on Enrollment.

#### List of Applicants Who Passed the Examination for Registration to Practice Before the Patent Office Held April 25, 1955

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#### New Applications Received During June 1955

Patents	6,921
Plants	8
Reissues	14
Designs	456
Total	7,399

#### Issue

Patents	504—No. 2,714,716 to No. 2,715,219, incl.
Designs	39—No. 175,290 to No. 175,328, incl.
Plants	2—No. 1,409 to No. 1,410, incl.
Reissues	3—No. 24,049 to No. 24,051, incl.
Total	548



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## Missouri

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 Wheeler, Allan B., 606 W. Wisconsin Ave., Milwaukee 3, Wis.

## CONDITION OF PATENT APPLICATIONS AS OF JUNE 30, 1955

Total number of pending applications (excluding Designs)..... 221,872  
 Total number of pending Design applications..... 7,018  
 Total number of applications awaiting action (excluding Designs)..... 139,614  
 Total number of Design applications awaiting action..... 2,747  
 Date of oldest new application..... June 1, 1954  
 Date of oldest amended application..... Aug. 12, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS	
	New	Amended
I. STONE, I. G., CHEMICAL AND RELATED ARTS.....	6, 31, 38, 43, 50, 56, 59, 63, 64.	
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS.....	16, 23, 26, 37, 42, 48, 51, 54, 69, 70.	
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS.....	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.	
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES.....	7, 11, 17, 27, 34, 35, 39, 53, 62.	
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION.....	8, 20, 29, 33, 36, 40, 41, 52, 66.	
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS.....	1, 4, 5, 9, 18, 22, 28, 45, 47.	
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE.....	3, 15, 19, 25, 30, 32, 49, 55, 67.	
DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION		Oldest Application
(Roman numerals in parentheses indicate Examining Group)		
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage.....	10-7-54	3-29-54
2. (III) HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers.....	12-29-54	8-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions.....	10-4-54	11-16-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.....	10-18-54	11-16-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.....	11-23-54	4-6-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.....	8-17-54	1-18-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus.....	10-19-54	12-1-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture.....	8-16-54	12-8-53
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines.....	10-25-54	2-2-54
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.....	3-1-53	6-28-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls.....	10-5-54	10-26-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.....	10-15-54	12-21-53
14. (III) MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.....	12-20-54	1-20-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass.....	10-27-54	3-18-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders.....	10-4-54	10-7-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.....	11-15-54	4-2-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.....	10-1-54	10-5-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners.....	6-29-54	2-3-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.....	12-15-54	4-14-54
21. (III) MADER, R. C., Textiles.....	10-20-54	3-1-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.....	12-29-54	2-25-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education.....	6-1-54	8-21-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.....	12-3-54	8-25-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.....	10-1-54	1-4-54
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism.....	11-17-54	6-29-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making.....	12-24-54	5-4-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.....	11-29-54	5-10-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.....	10-4-54	2-23-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.....	1-9-55	1-26-54



DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.....	9-7-54	2-10-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.....	12-2-54	5-18-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.....	9-22-54	1-11-54
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.....	10-4-54	11-20-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.....	12-14-54	2-23-54
36. (V) McFADYEN, A. D., Measuring and Testing.....	12-15-54	7-19-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.....	7-13-54	2-1-54
38. (I) MARTELSTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.....	9-13-54	12-10-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).....	1-18-55	3-8-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.....	1-3-55	5-3-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.....	6-16-54	9-24-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.....	10-18-54	2-15-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).....	9-21-54	11-4-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.....	12-2-54	7-7-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.....	12-15-54	6-9-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.....	7-1-54	8-12-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.....	10-25-54	5-6-54
50. (I) BENGOEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber.....	11-22-54	4-12-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.....	10-23-54	3-12-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.....	11-10-54	4-1-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.....	11-19-54	1-4-54
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications.....	9-30-54	1-13-54
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Commutators.....	6-4-54	12-31-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.....	11-30-54	4-15-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horsehoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.....	2-16-55	3-23-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.....	10-26-54	1-4-54
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.....	12-23-54	2-23-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.....	12-10-54	7-1-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.....	11-12-54	4-23-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.....	9-3-54	10-27-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions.....	10-7-54	12-23-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.....	9-15-54	2-2-54
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.....	10-27-54	5-5-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.....	9-22-54	11-19-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.....	6-9-54	9-8-53
DESIGNS: [A—BREHM, G. L., Industrial Arts.....	12-7-54	12-13-54
[B—GRAY, M. A., Household, Personal and Fine Arts.....	12-30-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during August 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1953*.

Patents..... Numbers 2,125,263 to 2,128,888, inclusive  
Plant Patents..... Numbers 282 to 289, inclusive

## DECISIONS IN PATENT CASES

### United States Court of Appeals District of Columbia Circuit

HILLIS O. FOLKINS ET AL., APPELLANTS

v.

ROBERT C. WATSON, COMMISSIONER OF PATENTS,  
APPELLEE

No. 12564. Decided May 26, 1955

[— F.2d —; — USPQ —]

PATENTABILITY—PARTICULAR SUBJECT MATTER—PROCESS  
FOR MANUFACTURE OF CARBON DISULFIDE.

The decision of the District Court that there was no invention in appellants' discovery that the elimination of certain high molecular weight hydrocarbons from natural gas permitted the successful use of that material in a prior art process of producing carbon disulfide is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

Edward H. Lang (Bernard F. Garvey, of counsel) for Hillis O. Folkins et al.

E. L. Reynolds (Clarence W. Moore, of counsel) for Robert C. Watson, Commissioner of Patents.

Before PRETTYMAN, BAZELON AND BASTIAN,  
Circuit Judges

### PER CURIAM:

This is a civil action in which the plaintiffs sought the issuance of a patent. The District Court, after trial, rendered a memorandum opinion,<sup>1</sup> made findings of fact and conclusions of law, and dismissed the complaint.

A patent had been issued to one Thacker, covering the manufacture of carbon disulfide from hydrocarbons, particularly specifying methane as the preferred starting material. The plaintiffs in the present action endeavored to produce a process for the manufacture of carbon disulfide from natural gas, following the Thacker process. They discovered that, when they attempted to use natural gas containing large amounts of high molecular weight hydrocarbons, the apparatus used in the process clogged with tars and other similar material. They reduced the amounts of these hydrocarbons in the natural gas and found that the difficulty disappeared. The District Court found this discovery not to be invention, and we agree with that finding.

AFFIRMED.

<sup>1</sup>Folkins v. Watson, 129 F. Supp. 362 (1954).

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,205,741. (See 2,205,742.)

2,205,742, 2,205,741, F. M. Bowers, Adjustable headband, filed June 14, 1955, D. C., E. D. Mich. (Detroit), Doc. 14488, *The Fibre Metal Products Co. v. The Jackson Products, Inc.*

2,241,368. (See 2,359,943.)

2,247,359, B. Clayton et al., Process for refining oils, filed June 15, 1955, D. C., W. D. N. C. (Charlotte), Doc. 1101, *Refining, Unincorporated v. Swift & Co.*

2,326,854, J. E. Hassler, Method and means for sawing wood, appeal filed Dec. 1, 1953, C. C. A., 7th Cir., Doc. 11032, *Borg-Warner Corp. v. Mail Tool Co.* Judgment of District Court reversed in part Nov. 17, 1954; order to reopen motion denied Apr. 6, 1955. Same, filed Aug. 3, 1949, D. C., N. D. Ill. (Chicago), Doc. 49c1233, *Borg-Warner Corp. v. Mail Tool Co.* Interlocutory judgment after mandate; defendant enjoined and restrained; judgment of Sept. 24, 1953 vacated June 9, 1955.

2,359,943, P. Schlumbohm, Filtering and decanter device; 2,241,368, same, Filtering device, filed Jan. 29, 1954, D. C., S. D. N. Y., Doc. 91/18, *Filt-O-Pure Products Corp. et al. v. Chemex Corp. et al.* Consent judgment; complaint dismissed; judgment for defendants on counterclaims (notice June 10, 1955).

2,407,237, D. H. Keiser, Jr., Shears, suit for Declaratory Judgment filed May 27, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15302, *Seymour Smith & Son Inc. v. David H. Keiser, Jr.* Consent judgment in favor defendant June 8, 1955.

2,529,545, R. C. Edwards, Finned tubing, filed June 13, 1955, D. C. N. J. (Newark), Doc. 524/55, *Finned Tube Corp. et al. v. Ray C. Edwards.*

2,657,626, F. R. Sonntag, Wall and ceiling protector and ventilator, filed June 10, 1955, D. C., N. D. Tex. (Dallas), Doc. 6027, *J. H. Sonntag and Co. et al. v. Range Hood Co.*

2,702,415, W. Wagner, Replacement gasket for refrigerator doors, filed June 13, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15638, *Wagner Tool & Supply Corp. v. Halsey Supply Co. et al.*

2,706,038, 2,708,028, Murphy and Schnall, Fruit container, suit for Declaratory Judgment filed June 9, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c847, *Ful-Vue-Pak Co. v. See-Quai Package Corp. et al.*

2,708,028. (See 2,706,038.)

Re. 22,807, M. Bechik, Flexible mattress handle, appeal filed June 2, 1955, C. C. A., 2nd Cir., Doc. 23685, *Bechik Products, Inc. v. Flexible Products, Inc.*

Des. 156,134, M. Lodewick et al., Combination toothbrush and casing therefor, filed July 29, 1952, D. C., S. D. N. Y., Doc. 77/309, *Madeleine Lodewick et al. v. Marco, Inc., et al.* Patent held invalid; complaint dismissed June 14, 1955.

Des. 165,218, M. E. Coleman, Restaurant building, filed June 7, 1955, D. C., S. D. Tex. (Houston), Doc. 8966, *Chue-Wagon System v. Deedie's Wagon.*

Des. 168,175, J. Orloff, Blouse, filed Apr. 6, 1954, D. C., S. D. Calif. (Los Angeles), Doc. 16618-HW, *Universal Fountain Pen & Pencil Co., Inc., et al. v. Fraxley Corp. et al.* Patent held invalid (notice June 6, 1955).

Des. 172,458, C. A. Baratelli, Case for spectacles, filed June 13, 1955, D. C. N. J. (Newark), Doc. 526/55, *American Optical Co. v. The Opticase Co. et al.*



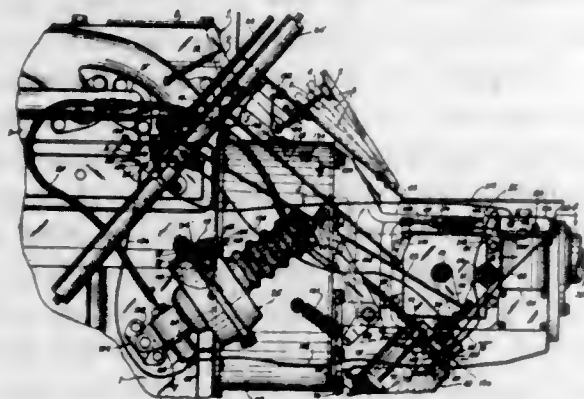
## REISSUES

AUGUST 9, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

### 24,049 AUTOMOTIVE VARIABLE-DRIVE POWER TRANSMISSION

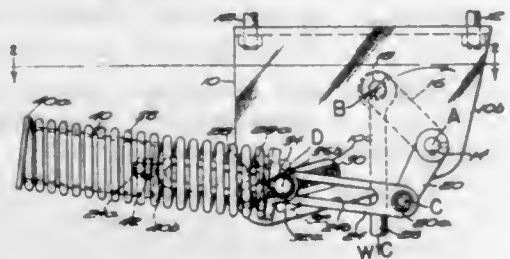
Glenn T. Randol, Mountain Lake Park, Md.  
Original No. 2,616,535, dated November 4, 1952, Serial No. 539,215, June 7, 1944. Application for reissue April 16, 1953, Serial No. 349,334  
163 Claims. (Cl. 192—073)



1. In a power drive system including a source of driving torque and transmitting means therefor, operating means for said transmitting means, a change-speed drive gearing subject to torque-load therefrom and incorporating an element shiftable when substantially free of torque-load to change the gearing drive thereof, energizable means including a movable element operable for shifting said shiftable element, a source of energy, means for controlling energization of said shifting means, and means operable in response to initial movement of said energized movable element in applying a force to shift said shiftable element for causing said operating means to interrupt transmission of torque to facilitate shifting of said shiftable element directly by said energized movable element to change the gearing drive as aforesaid.

### 24,050 SPRING SUPPORT

William S. Rouverol, Berkeley, Calif., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware  
Original No. 2,615,708, dated October 28, 1952, Serial No. 229,562, June 2, 1951. Application for reissue April 14, 1954, Serial No. 423,265  
3 Claims. (Cl. 267—1)

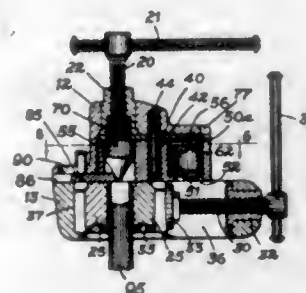


5. A spring support for exerting a constant supporting force on a load movable vertically, which support comprises a frame, a lever pivotally mounted on said

frame so as to be rotatable about a horizontal axis through 360°, means connecting the load to be supported to said lever so that the load hangs vertically therefrom at all rotative positions of the lever, and spring means pivotally mounted on said frame so as to oscillate about another horizontal axis and having one end pivotally connected to said lever; the said pivotal mounting on said spring being so located on the frame that the distance between its axis and the axis of pivotal connection of the spring means with the lever equals the deflection of the spring means throughout the entire rotative moment of the lever, the said spring means oscillating about its pivotal mounting as the lever rotates about its pivot and exerting at torque on said lever which is always equal and opposite to the torque exerted thereon by the load.

### 24,051 FLARING TOOL

Glenn W. Wolcott, Dayton, Ohio, assignor to Penn Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio  
Original No. 2,662,575, dated December 15, 1953, Serial No. 187,749, September 30, 1950. Application for reissue April 1, 1955, Serial No. 498,789  
13 Claims. (Cl. 153—79)



13. A flaring tool comprising a housing, an operating member mounted for axial movement in said housing, means carried by said housing establishing a working position for a tube to be double flared in accurate aligned coaxial relation with said operating member, a carrier member in said housing, a plurality of double flaring punches supported in said carrier member and of graduated effective sizes for shaping the ends of tubes of correspondingly different sizes in preparation for double flaring, means supporting said carrier member for movement in said housing to position a selected one of said punches in line with said operating member for operation thereby, each said punch including a portion adapted to engage the upper end of the tube to be double flared thereby to effect a double flaring forming operation thereon, and means for locating each selected said punch in said carrier member in predetermined axially spaced relation with said working position for gauging the proper axial position in said housing of the tube to be double flared by contact between the end of said tube and said tube engaging portion of said punch.

## PLANT PATENTS

GRANTED AUGUST 9, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

### 1,409 PEACH TREE

Grant Merrill, Red Bluff, Calif.

Application October 28, 1954, Serial No. 465,456

1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, as illustrated and described, which is characterized—in comparison to the clingstone Merrill Gem Peach—by fruit of similar size and coloring of the skin and flesh, but distinguishes therefrom by being a freestone with meaty to melting flesh when soft ripe, and a clingstone with firm flesh when hard ripe; and further characterized by fruit which sets more heavily, and ripens a few days earlier than said Merrill Gem Peach.

### 1,410 NECTARINE TREE

Grant Merrill, Red Bluff, Calif.

Application October 28, 1954, Serial No. 465,457

1 Claim. (Cl. 47—62)

A new and distinct variety of nectarine tree as illustrated and described, which bears large, yellow fleshed, highly colored, fine flavored fruit which is a clingstone when hard ripe and a freestone when soft ripe; characterized in comparison to the Merrill Sunrise nectarine by larger fruit, higher flavor and aroma, being longer than wide on the average, whereas the Merrill Sunrise is normally of converse dimensioning, having yellow skin—with less yellow flecking—over-spread to a major extent with a mahogany-red rather than a brownish-red, and ripening a week or ten days later and approximately with the John Rivers nectarine; and further characterized by fruit which is extremely firm when very highly colored.



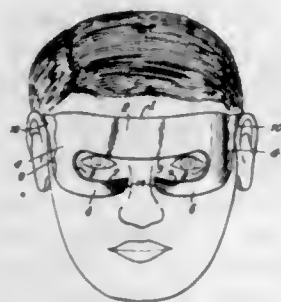
# PATENTS

GRANTED AUGUST 9, 1955

## GENERAL AND MECHANICAL

2,714,716  
EYE SHIELD

Barbara H. McLennan, Evanston, Ill.  
Application November 5, 1952, Serial No. 318,907  
1 Claim. (Cl. 2-12)



An integrally formed, unitary eye shield comprising an elongated, upper, band-like portion having an upper rear, longitudinal edge shaped to conform to the forehead of the wearer in close abutting relationship, said upper portion extending longitudinally from a point adjacent one of the wearer's temples to a point adjacent the other of the wearer's temples, said upper portion terminating in a lower front, longitudinal edge generally parallel to said upper rear edge, said upper portion being longitudinally curved, extending downwardly and forwardly from said upper rear edge at an acute angle from vertical and being of width for disposing said lower front edge immediately above the normal line of vision of the eyes of the wearer in substantially horizontally and forwardly spaced relationship to the bridge of the wearer's nose; side portions extending downwardly and forwardly at an acute angle from vertical from each end of said upper portion respectively, said side portions each having a generally upright rear edge shaped to conform to the portions of the wearer's face beyond the outer ends of the wearer's eyes in close abutting relationship, said side portions each having a generally upright forward edge extending downwardly and rearwardly from said front lower edge of the upper portion at an acute angle from the vertical, said side portions being of dimension for disposing said forward edges of the side portions immediately to the outer side of the normal line of vision of the corresponding eye of the wearer; and elongated, lower strip-like portions extending longitudinally inwardly from the lower extremities of the side portions toward the nose of the wearer, said lower portions each having a generally horizontal, longitudinally curved lower rear edge shaped to conform to the wearer's cheeks in close abutting relationship, said lower portions each having an upper front longitudinal edge, said lower portions each extending transversely upwardly and forwardly from said lower rear edges thereof at an acute angle from vertical and being of width for disposing said upper front edges thereof immediately below the normal line of vision of the corresponding eye of the wearer, the ends of the lower portions proximate the wearer's nose terminating immediately adjacent the sides of the latter and in spaced relationship to each other below the normal line of vision of the corresponding eyes of the wearer, said rear edges of the side portions being adapted for interconnection therewith of means for holding the shield in place on the head of the wearer.

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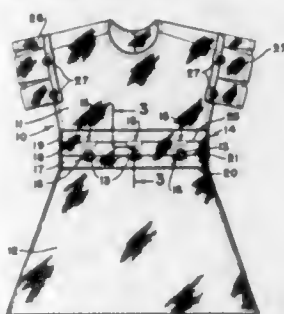
2,714,717  
GLARE SHIELD AND ALTERNATE EYE SHADE FOR SPECTACLES

Arvel D. Allman, Kansas City, Mo., assignor of one-half to Birt Bourret, Kansas City, Mo.  
Application June 1, 1954, Serial No. 433,386  
3 Claims. (Cl. 2-13)



1. A glare shield and alternate eye shade having an attachment for spectacles comprising, a plastic glare shield for both eyes including a nose bridge portion all formed in one piece, an elongated member having a round section, the diameter of the round section of said elongated member and the thickness of said plastic glare shield being substantially the same, said elongated member being located along the upper edge of said plastic glare shield, a hook shaped member being formed on each end of said elongated member for attachment to spectacles, said hook shaped members being formed transverse to said elongated member, a pair of flat bars, said pair of flat bars being placed flatwise on opposite sides of the nose bridge of said plastic glare shield, a rivet, said rivet securing said pair of flat bars to the nose bridge, the upper ends of said flat bars being projected above the nose shield and elongated member and inclined toward each other to frictionally hold said elongated member in any manually rotated position.

2,714,718  
ADJUSTABLE GARMENT  
Beatrice F. Kramer, Port Chester, N. Y.  
Application July 17, 1952, Serial No. 299,388  
2 Claims. (Cl. 2-70)



1. A garment adjustable as to length comprising a separable bodice and a skirt having an upper edge, said bodice having an encircling row of spaced buttons near its lower edge, and a series of strips of material associated with said skirt, each strip being disposed parallel to said upper edge of said skirt and partially overlapping one of the other of said strips along a region of overlap, one of said strips partially overlapping the upper edge of said skirt along a region of overlap, a line of stitching through each region of overlap, said line of stitching being periodically offset to pass through only one of the constituents comprising that region of overlap, whereby buttonholes are periodically formed in a row in each region of over-

AUGUST 9, 1955

GENERAL AND MECHANICAL

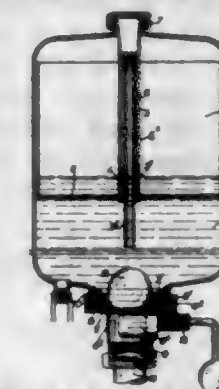
145

2,714,721  
ARTIFICIAL CORNEAL IMPLANTS  
William Stone, Jr., Cambridge, Mass.  
Application January 23, 1953, Serial No. 332,879  
8 Claims. (Cl. 3-1)



8. A corneal implant to be located between anterior and posterior corneal layers, said implant being of concavo-convex form and including an optically clear central part and a margin, said margin being provided with a multiplicity of pockets forming anchoring portions spaced and disposed to enable the corneal stroma to grow through and around said anchoring pockets thus to permanently retain the implant, said implant being of stock that is sufficiently inert to be tolerated by corneal stroma.

2,714,722  
FLUSHING TANKS FOR WATER-CLOSETS AND THE LIKE APPLICATIONS  
Claudius Griffon, Saint Etienne, France  
Application January 29, 1954, Serial No. 406,980  
Claims priority, application France February 5, 1953  
5 Claims. (Cl. 4-26)



1. In a flushing tank, the combination of two superposed compartments, the upper compartment being provided with an opening at its upper end and the lower compartment being provided with an opening at its lower end, a partition separating same and provided with an opening, a tapped socket rigid with the partition and fitted inside said opening, a vertical tube screwed inside said socket and provided with a radial port normally located inside the upper compartment and with a longitudinal passage along its outer surface extending between the lower end of said tube and a point in substantial horizontal register with the port, a perforated sheath surrounding the vertical tube, fitted over the upper end of the socket and extending upwardly into the opening in the upper end of the upper tank compartment, a cap closing the upper opening in the upper compartment over the upper end of the sheath, a valve body provided with a valve seat, fitted in and opening into the lower compartment, a ball valve adapted to rest on said seat and means adapted to shift the ball valve off its seat.

2,714,723  
HYDROPNEUMATIC FLUSHING CONTAINERS FOR WATER-CLOSETS AND THE LIKE APPLICATIONS  
Claudius Griffon, Saint-Etienne, France  
Application February 5, 1954, Serial No. 408,567  
Claims priority, application France February 20, 1953  
6 Claims. (Cl. 4-26)

1. In a hydropneumatic flushing system, the combination of a tank provided with an axial opening at its lower end, the edge of the tank surrounding said axial opening terminating in the shape of an outwardly directed collar, a ring surrounding said opening and fitted inside said collar, a valve body fitted inside said opening and including an outwardly directed flange forming an upwardly facing dish-shaped member engaging the lower

2,714,719  
NECKTIE KNOT PROTECTOR  
Charles R. Peake, Detroit, Mich.  
Application February 18, 1953, Serial No. 337,568  
3 Claims. (Cl. 2-153)



1. A necktie knot protector made of sheet material and adapted to embrace the knot from the front, the sides and the top, the protector including a front portion each side of which curves rearwardly in a hairpin loop to form a strip disposed substantially parallel to said front portion, the outer edge of each strip being defined by a line disposed obliquely to a vertical line bisecting said protector, the two edges being in a spaced parallel relation to each other to form an oblique slot therebetween, the front portion of the protector including at the top a narrow lip which at each end terminates with a tongue curved rearwardly and downwardly for engagement with the knot of the tie from above.

2,714,720  
TROUSER LEG CONSTRUCTION  
Lawson W. Turner, Jr., Lynchburg, Va., assignor to N & W Industries, Inc., Lynchburg, Va., a corporation of Virginia  
Application July 1, 1954, Serial No. 440,697  
1 Claim. (Cl. 2-227)

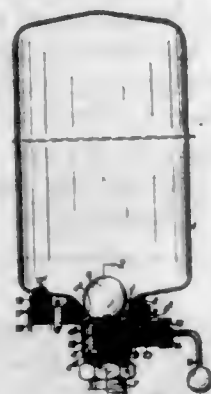


A trouser leg construction comprising a contractable tubular portion normally having substantially a uniform cross-sectional area in uncontracted form, a pair of slide fastener tapes secured to the outer surface of the tubular member in downwardly diverging relation and terminating at their upper ends in intersecting relation, said tapes having cooperating hooks and a slide to engage and disengage the hooks for contracting the tubular portion to snugly embrace the wearer's leg, and means fixing the tapes to the tubular portion against the outer surface thereof, thereby leaving intact the continuity of the tubular portion completely about its periphery for providing a smooth inner surface on the tubular portion, said tubular portion being provided with openings spaced above the contractable portion for providing ventilation for the wearer's leg when the tubular portion is contracted, and reticulated members in said openings for permitting the passage of air.

697 O. G.-11



and outer surfaces of the ring with a slight clearance with reference thereto, said valve body being provided with an axial drain the upper end of which facing the inside of the tank forms a valve seat, a valve ball normally engaging the valve seat, screws securing said ring to the bottom of said dish-shaped member, a packing fitted inside the inner annular section of the dish-shaped member in contacting relationship with the outwardly directed collar surrounding the opening of the tank and with

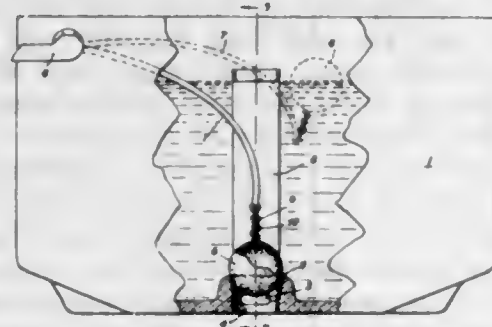


the outer surface of the ring, a radial boss rigid with the valve body and provided with a tapping directed slightly upwardly towards its outer end, a sleeve adapted to be screwed inside said tapping, a tubular lining fitted inside the sleeve, a bent control rod the inner section of which is revolvably held inside and axially of said lining, and a tappet rigid with the inner end of the inner section of the bent rod and adapted to revolve round the axis of the sleeve and lining inside the drain in the valve body, to engage for a predetermined angular position a point of the valve ball located eccentrically with reference to the axis of the seat.

2,714,724

#### SPECIAL OUTLET BALL VALVE FOR CLOSET FLUSH TANKS

James M. Hendrickson, Kittanning, Pa., assignor, by mesne assignments, to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware  
Application December 29, 1951, Serial No. 264,164  
5 Claims. (Cl. 4-57)



1. In a water closet flush tank, the combination with a discharge opening in the bottom of said tank, of a float valve for said opening, a lever arm pivotally mounted in said tank for operating said float valve, the inner end of said lever arm extending downwardly to a point immediately above the center and closely adjacent said opening when said float valve is in closed position, and a relatively short flexible connection between said float valve and the lower end of said lever arm, said flexible connection being of such length that the ball will at all times be positively guided back to the discharge opening in seating position, by the lower end of said lever.

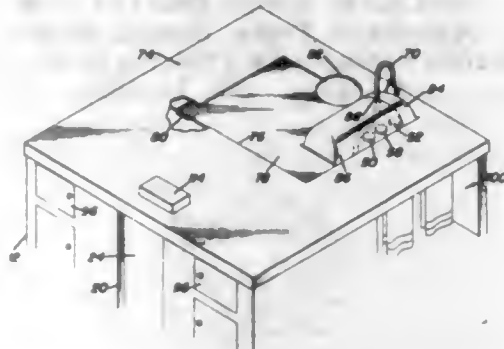
2,714,725

#### BATH CABINET

Fletcher Sandell Boone, San Antonio, Tex.  
Application December 26, 1951, Serial No. 263,183  
2 Claims. (Cl. 4-148)

1. A bath cabinet comprising a housing defining a well to receive a user, said well having an open top, said hous-

ing including a top wall adjacent said well, a seat provided in the well of said housing, a drain with closure means at the bottom of said well, means for delivering water into the well, water control means on said top wall adjacent said well, a cover removably positioned on said top wall, said cover having a rectangular opening notched at one side thereof, a panel slidably carried by said cover in registry with said opening and having a notched edge



movable toward and away from the notched portion of said cover whereby to define an expansible neck opening, said cover also having a dome-like protuberance extending from the notched edge thereof over said control means, said panel also having a dome-like protuberance extending to its notched edge and registrable with the protuberance on the cover whereby the control means may be manipulated interiorly of the cabinet.

2,714,726

#### COLLAPSIBLE CONTAINER

Victor H. Hasselquist, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York  
Application November 2, 1950, Serial No. 193,633  
1 Claim. (Cl. 4-177)



An open top collapsible liquid container comprising an impervious flexible bottom with a flexible impervious wall extending around the periphery of said bottom, the said wall including inner and outer portions of impervious flexible sheet material providing an air chamber therebetween extending continuously thereabout, the peripheral dimension of the upper edge of said wall being less than the peripheral dimension of the bottom thereby adapting the wall to extend upwardly and inwardly from said bottom, the said inner and outer portions being joined to each other in a circumferentially extending region intermediate the top and the bottom of the wall by a discontinuous circumferential seam to provide two flexibly hinged peripherally extending air pockets with the discontinuities in said seam providing communicating passages between said pockets, and means for introducing air between said portions, whereby said wall is adapted to be buoyed upon the liquid in the container and the upper of said pockets can move relative to the lower of said pockets.

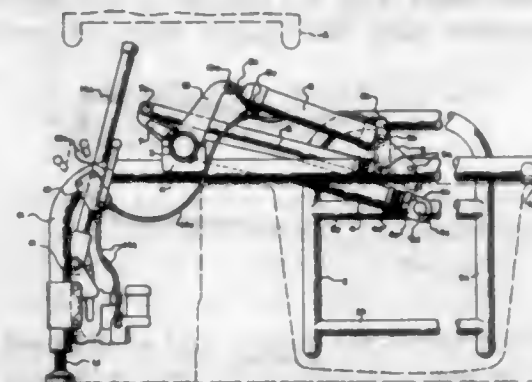
2,714,727

#### PATIENT HANDLING DEVICE FOR BATH TUBS

John N. Gross, Earl A. Kops, and Henry K. Peck, Jr., San Diego, Calif., assignors, by direct and mesne assignments, of one-half to John N. Gross and one-half to Dewey C. Rickenbacker, Beverly Hills, Calif.  
Application March 3, 1952, Serial No. 274,548  
7 Claims. (Cl. 4-185)

1. In a patient handling means for bathtubs, a frame having horizontal portions located near the upper por-

tion of a bathtub and near one side thereof, a shaft mounted on said frame for oscillatory motion, means for actuating said shaft by rotating the same, a single pair of substantially parallel arms fixed on said shaft to swing in arcuate paths from substantially vertical positions alongside said bathtub to substantially horizontal positions over said bathtub, a tray pivoted at its opposite ends

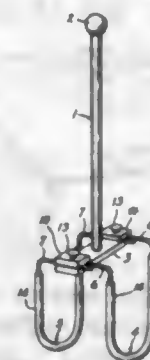


to the ends of said arms remote from said shaft and supported solely by said single pair of arms, a stabilizer pivoted to said tray in vertical spaced relation to the pivotal position of one of said arms and provided with a stationary pivotal mounting on said frame at its opposite end adjacent said shaft, whereby said stabilizer prevents pivotal or tilting movement of said tray on the ends of said arms when supported thereby.

2,714,728

#### SAFETY HAND HOLD FOR BATH TUBS

Leon Bloch, Cleveland, Ohio  
Application January 9, 1953, Serial No. 330,540  
1 Claim. (Cl. 4-185)



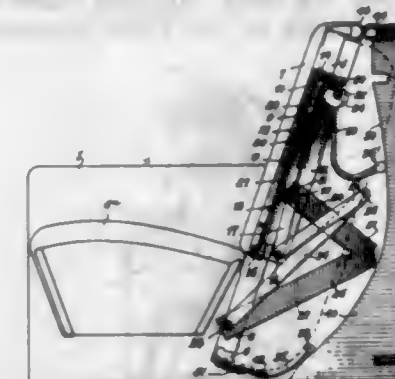
A safety hand hold for bath tubs comprising an elongated plate for engagement with the top edge of a bath tub wall, said plate having a pair of transverse grooves across its upper face adjacent each end, two wall straddling legs, each in the form of a rod bent to U-shape and having its ends bent laterally and seated in two of said transverse grooves, one adjacent each end of said plate, a clamping block overlying each end of said plate, each block having a pair of grooves on its bottom face that aline with the grooves of said plate, screws for securing said blocks in clamping engagement with the laterally bent ends of said legs, and an upright hand grip member rigidly attached at its lower end to said plate.

2,714,729

#### CONVERTIBLE COUCH

John A. Bohnsack, Pottsville, Pa., and Charles C. Guelli, Corona, N. Y.  
Application August 27, 1952, Serial No. 306,678  
7 Claims. (Cl. 5-43)

1. A convertible couch comprising, a couch body including spaced ends and a back extending between the same, a mattress carrier normally forming a back for the couch, a mattress on said carrier, said mattress carrier being mounted for swinging movement within the couch body, a substantially V-shaped lever having an arm pivotally mounted on one of the ends of the couch body, the



lever having a second arm pivotally attached to one end of the mattress carrier, a slidable latch member carried by the mattress carrier, manually-operated means for moving the latch, said manually-operated means including a part overlying the mattress, means on the lever for engagement by the latch to thereby hold the lever against

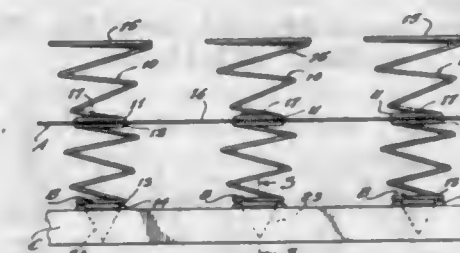
pivotal movement relative to the carrier when the mattress carrier is in a horizontal position and when said part of the manually-operated means has been moved from its position over the mattress, and locking means at the rear of the mattress carrier, said locking means being operative when the mattress carrier is disposed in a horizontal position.

2,714,730

#### COIL SPRING FASTENING MEANS

James Pillero, Chicago, Ill., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware  
Original application May 15, 1951, Serial No. 226,349.  
Divided and this application February 4, 1954, Serial No. 408,149

1 Claim. (Cl. 5-252)



An attachment for connecting together a plurality of coil springs each having two convolutions disposed in close relation, said attachment including an elongated flat metal strip engaging through the springs between each of said two convolutions, said strip having spring tongues struck outwardly from the plane thereof in angular relation therewith and extending longitudinally of said strip with the outer longitudinal edges of said tongues disposed outwardly of the plane of said strip and there being only one tongue for each spring said tongues each being elongated to span a substantial arc of one of said two convolutions of said springs respectively and with the outer longitudinal edge portions of the tongues protruding through said convolutions to dispose opposite outer corners of the tongues in overextending relation therewith, and said strip having its longitudinal edge opposite the outer edges of said tongues tensioned against the portions of the springs connecting the two convolutions thereof together to thereby fasten the coils to said attachment.

2,714,731

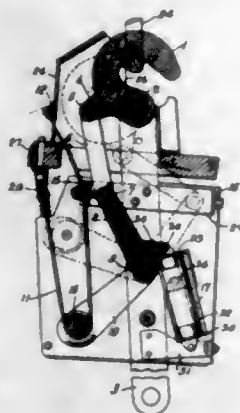
#### RELEASE FITTINGS FOR SHIPS' LIFEBOATS

John M. Binmore, Torquay, England  
Application May 8, 1951, Serial No. 225,192  
Claims priority, application Great Britain June 12, 1950  
5 Claims. (Cl. 9-44)

1. In a release fitting for a ship's lifeboat having a keel and including at least one tie bar adapted for connection at one end to the keel of the lifeboat, a hook



pivoted to the other end of said tie bar, the hook having a structure in which the distances from the pivot of the hook to all points of the inner contour of the hook are at least as great as the distance from the pivot of the hook to its inner contour at the point of the hook, whereby the weight of the lifeboat on the hook has no tendency to release the hook, an arm rigidly connected to the back of the shank of the hook opposite the point

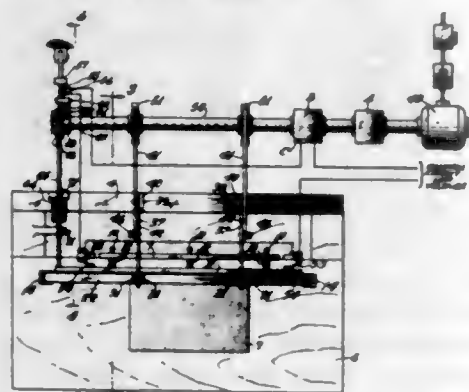


of the hook and extending therefrom, a link pivoted at one end to the outer end of said arm, a bell-crank having a fixed pivot spaced from the link one arm of which extends to and is pivoted to the other end of said link thereby forming a toggle with a toggle joint at the pivot point between said link and arm, and means connected to the other arm of said bell-crank for rocking the bell-crank and the hook on their pivots.

2,714,732

**MACHINE FOR CREASING THE JOINTS OF BOOKS**  
Albert A. Traettino, Bloomfield, N. J., assignor to Economy Bindery Company, Newark, N. J., a corporation of New Jersey

Application August 10, 1953, Serial No. 373,105  
4 Claims. (Cl. 11-1)



1. A machine for creasing the cover of a book comprising, in combination, a pair of opposed movable jaws shaped for creasing a cover of a book at opposed points thereon, said jaws being mounted for movement toward and from each other in a vertical plane, two pairs of levers, each lever being pivotally mounted between its ends and one lever of each pair being connected at one end to one jaw, and means including a cam between the other ends of the levers of each pair for actuating said levers to move said jaws, and means for simultaneously rotating said cams.

2,714,733

**METHOD OF MAKING SHOES OF THE TYPE WHEREIN THE QUARTER PORTION OF THE SHOE COMPRISES A MOLDED STIFFENER**  
William F. Herlihy, Haverhill, Mass., assignor to Lowell Counter Company, Lowell, Mass., a copartnership  
Application January 13, 1954, Serial No. 403,897  
1 Claim. (Cl. 12-142)

That method of making shoes which comprises as steps providing a counter blank, providing a quarter liner, assembling the counter blank and liner so that the upper

and end margins of the liner project beyond the upper and end edges of the counter blank respectively, adhesively bonding the liner and blank together, while flat, throughout the entire area of the blank, providing a closed shoe upper comprising a quarter, so treating the assembled quarter liner and counter blank as to make the counter blank flexible, associating the assembled liner and counter blank with the quarter of the shoe upper in a flat condition with the counter blank in contact with



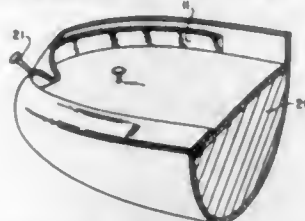
the inner surface of the quarter and so disposed that the center of the upper margin of the liner is located adjacent the center of the upper edge of the quarter, providing a sewed seam uniting the exposed upper and end margins of the liner only to the quarter, said seam also uniting the lower margin of the quarter directly to the counter blank, and molding the assembled quarter, counter blank and quarter liner to the shape of the desired completed quarter portion of the shoe.

2,714,734

**PROCESS OF LASTING BOX TOES IN UNLINED SHOES**

Walter H. Heaton, Franklin, and Ronald W. Morse, Newton, Mass.

Original application September 8, 1952, Serial No. 308,366. Divided and this application February 15, 1955, Serial No. 488,384  
1 Claim. (Cl. 12-145)



The process of lasting the toes of unlined shoes which comprises providing a box toe stiffener having a fibrous box toe ply impregnated with a composition adapted to be softened by a solvent and having on one face a thin, tough polyethylene ply coextensive with the fibrous ply and permanently bonded thereto, providing an upper assembled on a last, applying a solvent to the stiffener to soften the composition, inserting the stiffener in the assembled shoe upper with the polyethylene layer in position to engage the last, lasting the toe portion of the upper, thus stretching and conforming the polyethylene ply and fibrous ply as a unit directly to the wood of the last while the bond of the polyethylene ply to the fibrous ply is maintained, whereby the polyethylene ply not only forms a protective barrier for the solvent but also provides a protective layer which prevents sticking of the stiffener to the last, then drying the assembled parts on the last, the said polyethylene ply through the medium of the fibrous ply becoming bonded with the outer integument of the upper as a permanent part thereof, and then removing the lasted upper from the last.

2,714,735

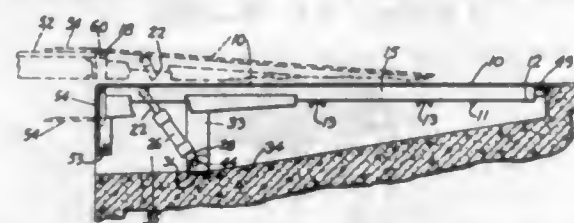
**ADJUSTABLE LOADING RAMP**

Charles E. Watson, La Grange, Ill., assignor, by mesne assignments, of one-half to Margaret Redick Pennington, Pittsburgh, Pa.

Application June 8, 1949, Serial No. 97,816  
9 Claims. (Cl. 14-71)

1. In a self-contained loading ramp, the combination with a stationary frame, of a movable platform hinged

to said stationary frame along one edge thereof, there being an open pit below said movable platform and contiguous with said stationary frame, a sling type bracket extending along the bottom and confronting walls of said pit, means connecting said sling type bracket to said



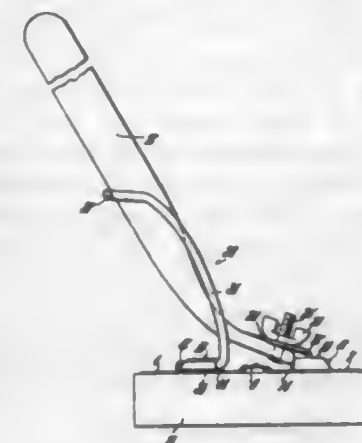
frame, means for anchoring said sling type bracket to said pit, and hydraulic means pivotally interposed between said sling-type bracket and platform to hingedly raise and lower said movable platform relative to said stationary frame.

2,714,736

**SELF-WRINGING MOP**

Alvin O. Johnson, Westfield, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts

Application August 27, 1952, Serial No. 306,523  
1 Claim. (Cl. 15-119)

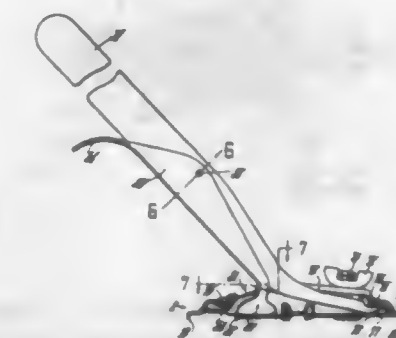


A mop construction comprising in combination, a pair of elongated plates having a mop element secured to lower faces thereof and being hingedly connected at adjacent inner edges for swinging of said plates downwardly from coplanar horizontal mopping relation towards one another to element squeezing relation, an elongated handle, means carried by the lower end of said handle and the upper face of one of said plates for releasably securing the handle to said plate and arranged and adapted to position said handle so that it extends across and upwardly and rearwardly angularly relative to said other plate in coplanar relation of said plates, said other plate provided with an elongated longitudinally extending socket open towards the hinged connection of said plates, and a retainer separate from said handle connected to said other plate for releasably engaging said handle in coplanar relation of the plates and releasably holding said plates against swinging from coplanar to element squeezing relation, said retainer being formed from a continuous elongated relatively yieldable member and having relatively spaced lateral portions at opposite ends thereof inserted in opposite ends of the socket of said other plate for connecting the retainer to said other plate and provided with spaced side portions extending from said lateral portions across and upwardly angularly relative to said other plate, said retainer at the upper ends of said side portions being in the form of a loop extending rearwardly and being open towards the hinged connections of said plates for receiving the rear and opposite sides of said handle in coplanar relation of said plates, and said side portions being arranged to yieldingly and releasably embrace opposite sides of said handle in coplanar relation of the plates.

2,714,737

**SQUEEZE MOP**

Alfred L. Le Febvre, Windsor, Conn., and Douglas M. Small, Springfield, and Alvin O. Johnson, Westfield, Mass., assignors to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts  
Application May 28, 1953, Serial No. 358,034  
3 Claims. (Cl. 15-119)



1. The combination with a mop having forward and rear relatively hinged mop element carrying plates and an elongated handle having a lower end secured to said forward plate and extending angularly upwardly and rearwardly over said rear plate, of a handle receiving bracket and connections between said bracket and said rear plate, said bracket being formed from sheet metal in the shape of an elongated upper channel portion having a bottom wall and transversely spaced side walls and provided with a lower foot portion, said rear plate having an intermediate portion displaced upwardly to provide a rear wall and side walls forming a pocket open towards the forward plate, said rear wall provided with transversely spaced openings, said rear plate having a tongue extending rearwardly into said pocket provided with an outer free end, said foot portion of the bracket being receivable in said pocket and provided with spaced tangs extending rearwardly and receivable in the openings of said rear wall and a tab depending between said tangs engageable with the free end of said tongue, the side walls of the channel portion of the bracket provided with detents for releasably engaging opposite sides of a handle in said channel portion.

2,714,738

**BRUSH ASSEMBLY**

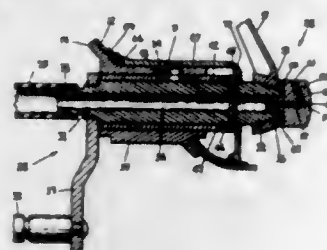
Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio  
Application January 30, 1951, Serial No. 208,566  
11 Claims. (Cl. 15-183)



11. A rotary brush assembly comprising a plurality of annular discs arranged in axial alignment, aligned notches in the edges of said discs, lengths of brush strip having elongated back portions seated in such notches with brush material extending generally radially therefrom, said lengths of brush strip extending between and interconnecting said discs, and tabs on said discs at each side of such notches projecting toward each other and also bent generally parallel to one another in the same direction in each alignment closely to overlie such back portions seated therein and thus secure said lengths of brush strip in place, said bent tabs presenting curved surfaces facilitating axial insertion of said strip in such direction.



**2,714,739**  
**NOZZLE ASSEMBLY FOR VEHICLE WINDSHIELD**  
**CLEARING SYSTEMS**  
 Leonard C. Neufeld, Des Moines, Iowa  
 Application August 21, 1952, Serial No. 305,557  
 3 Claims. (Cl. 15—250.4)



1. In a windshield clearing system, a shaft having a fluid passage extended longitudinally therethrough, a windshield wiper arm mounted on one end of said shaft, a nozzle unit threadably mounted on said shaft cutwardly of said wiper arm for adjustable movement longitudinally of said shaft toward and away from said wiper arm, said nozzle unit having a fluid discharge passage formed therein in fluid communication with said first fluid passage, with a first portion of said discharge passage being in axial alignment with said first fluid passage, and with a second portion of said fluid discharge passage being angularly arranged relative to said first portion, and a resilient fluid sealing washer arranged on said shaft between and in contact with said nozzle unit and said wiper arm, whereby said nozzle unit is adjustable on said shaft to position said second discharge passage portion to direct fluid into the path of movement of said wiper arm.

**2,714,740**  
**DRY MOP CLEANING DEVICE**  
 Maude M. Lukens, Chicago, Ill.  
 Application January 19, 1951, Serial No. 206,887  
 2 Claims. (Cl. 15—257)



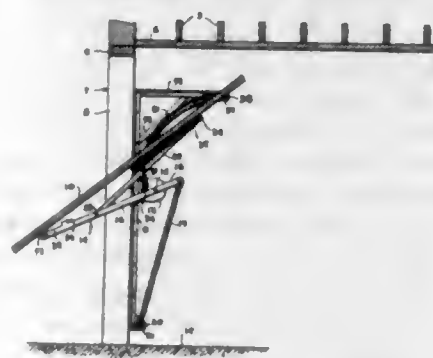
1. A device for use with a vacuum cleaner to clean articles having dirt adhering thereto comprising a tubular body adapted to be laid out on a support surface, said body being formed of flexible material, one end of said tubular body having a greater circumference than the intermediate portion of the body, an annular reinforcing rib connected to said body at said one end to hold said one end open to receive an article to be cleaned, a second reinforcing rib attached to said body at a point spaced away from the first rib, and a hollow box member attached to the other end of said body, said box member having an opening therein communicating with said body, said box member having a wall with a second opening therein adapted to be associated with the vacuum intake of a vacuum cleaner, and a resilient pad fixed on said wall and surrounding said second opening for engagement with the vacuum intake when the intake is held against said wall to improve the connection between the vacuum intake and the cleaning device.

**2,714,741**  
**DRIVE HINGE FOR DOOR MOUNTINGS**  
 Harry Derman, Great Neck, N. Y.; Henrietta Derman, Sam Derman, and Sidney Derman, executors of said Harry Derman, deceased  
 Application February 10, 1950, Serial No. 143,407  
 1 Claim. (Cl. 16—159)



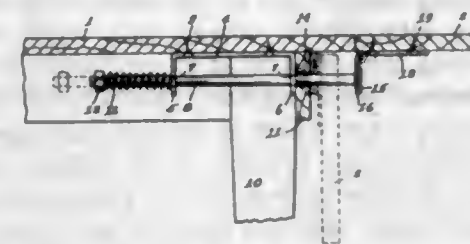
A drive hinge of the character described, comprising a pair of hingedly coupled butt plates, said plates being substantially of the same length and having end edges in common alignment, one butt plate having two pairs of prongs disposed in the plane of the plate and projecting therefrom, said butt plate having a stop edge between said prongs and spaced from the hinge axis of said butt plate, the other butt plate being arranged at right angles to the first named butt plate in the closed position of the hinge and having two pairs of prongs disposed at right angles to said second butt plate and paralleling the prongs of the first butt plate in the closed position of the hinge, each pair of prongs having outwardly extending barbs disposed within the greatest width of the base of the prongs, arrangement of said prongs in closed position of the hinge facilitating simultaneous drive attachment of both butts into two supports, said stop edge checking movement of the first butt plate into its support, the prongs in each pair having normally abutting edges and diverging edges, and the diverging edges of the prongs in each pair operating to spread the prongs laterally in said drive attachment to supports to extend the barbs to a point beyond the normal width of the base of the prongs in engaging the supports to retain the hinge against displacement therefrom.

**2,714,742**  
**OVERHEAD DOOR SUPPORTING MECHANISM**  
 Gene C. Holmes, Los Angeles, Calif.  
 Application October 27, 1949, Serial No. 123,812  
 7 Claims. (Cl. 16—166)



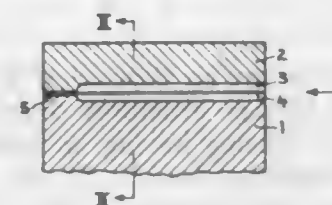
1. In an overhead door supporting mechanism for attachment to a door frame, a stationary mounting, an arm, means to pivot said arm intermediate its ends to said mounting, means to pivot one end of said arm to the lower portion of the door, a stationary bracket located below the level of said stationary mounting, resilient means interposed between the other end of said arm and said stationary bracket to normally urge the door-engaging end of said arm to a position above said first named means, a second arm having one end pivoted to said first arm between the points of pivoting of the latter to said stationary mounting and said door, respectively, the opposite end of said second arm adapted to be slidably and pivotally connected to the door, and means carried by said stationary mounting to guide said second arm during relative pivotal movement between said arms.

**2,714,743**  
**HINGE DEVICE**  
 David Lochner, Fort Wayne, Ind.  
 Application April 14, 1952, Serial No. 282,090  
 3 Claims. (Cl. 16—179)



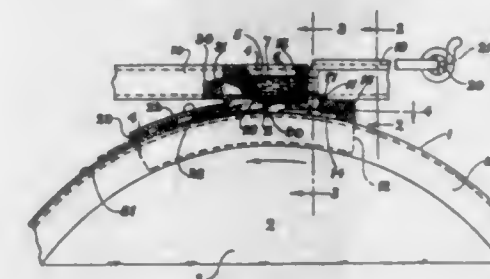
1. A hinge device comprising supporting means having base means for attachment to a fixed mounting, said supporting means also having a pair of spaced parallel bearings offset from the base means and provided with aligned openings, a rod slidably mounted in the openings in spaced relation to the base means and having extremities projecting outwardly from the bearings, a plate firmly secured to one extremity of the rod, means pivotally connected to the plate for attachment to a movable component, a member carried by the rod, and a helical spring surrounding said rod between one of said bearings and said member for urging the rod in one direction when the device is applied to the mounting and component.

**2,714,744**  
**DEVICE FOR THE SHREDDING INTO FIBRES, AND HOMOGENIZATION, OF MATERIAL, MORE PARTICULARLY ANIMAL SKIN MATERIAL, FOR THE PRODUCTION OF SYNTHETIC SKINS BY MEANS OF EXTRUDING NOZZLES**  
 Walter Becker, Vaduz, Liechtenstein, assignor to Anstalt Unda, Vaduz, Liechtenstein  
 Application September 27, 1951, Serial No. 248,588  
 Claims priority, application Switzerland September 27, 1950  
 6 Claims. (Cl. 18—14)



1. Apparatus for forming a pasty material into a homogeneous film while simultaneously filtering from the material particles larger than a predetermined size, comprising, in combination, an inner cylinder having an outer surface formed with a plurality of first, straight, mutually spaced grooves having sharp side edges, being distributed about the cylinder and extending only part way along the length of said cylinder parallel to the axis thereof; an outer cylinder coaxial with said inner cylinder, located closely about the same, and having an inner surface formed with a plurality of mutually spaced, second, straight grooves having sharp side edges, having distributed about said inner surface, extending only part way along the length of said outer cylinder parallel to the axis thereof and being located opposite said first grooves; and drive means connected to at least one of said cylinders for rotating the latter with respect to the other of said cylinders, so that when said one cylinder rotates about its axis with respect to said other cylinder, a pasty mass forced along the length of said grooves will form between said inner surface of said outer cylinder and said outer surface of said inner cylinder a homogeneous film having no particles larger than the thickness of the film.

**2,714,745**  
**APPARATUS FOR MANUFACTURING SHEETING**  
 Roger B. Kenyon, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
 Application August 23, 1951, Serial No. 243,214  
 8 Claims. (Cl. 18—15)



1. Apparatus for manufacturing sheeting comprising a wheel, a casting surface on the wheel, a hopper having blades close to but spaced from the casting surface, the casting surface moving past the hopper as the wheel turns to receive coating composition from the hopper, a housing extending to both sides of the hopper, the housing on one side comprising a top wall, side walls and an end wall forming with the casting surface a substantially airtight enclosure and the housing on the other side of the hopper comprising side walls, a top wall and forming with the casting surface a generally tubular extension open at one end, means for providing reduced pressure in the substantially airtight housing section, said section lying on that side of the hopper toward which the casting surface approaches the hopper to receive coating composition, the side walls of the housing sections being continuous and lying close to the ends of the hopper blades and to the edges of the wheel, whereby the ends of a ribbon of coating composition flowing from the hopper blades to the casting surface may lie adjacent the side walls and whereby the means for providing a reduced pressure in the substantially airtight housing may hold the ribbon of coating composition in a sheet depositing position.

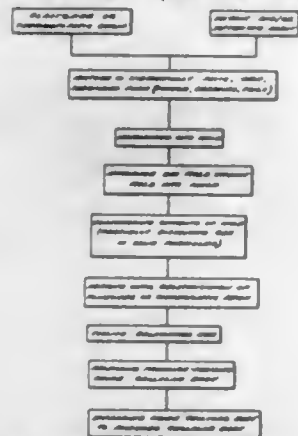
**2,714,746**  
**METHOD OF JOINING PLASTIC AND METAL**  
 Arthur A. Meyer, Beloit, Wis., assignor to Warner Electric Brake & Clutch Company, South Beloit, Ill., a corporation of Illinois  
 Application October 1, 1952, Serial No. 312,445  
 7 Claims. (Cl. 18—475)



7. In a method of joining a metal part to a part made of a plastic material which is relatively brittle when set, the steps of, molding the plastic part around said metal part under heat and pressure, and, after partial cooling of the parts but before failure of the plastic part, compressing said parts to change the sizes of both of the parts thereby to compensate for differential shrinkage occurring during cooling and bring the parts into closely fitting relation.

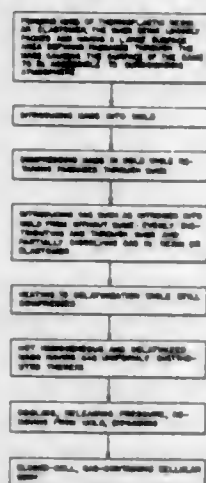


2,714,747

**MANUFACTURE OF CELLULAR BODIES**  
Herbert Lindemann, Sins, and Ernst Stirnemann, Basel, SwitzerlandApplication July 12, 1950, Serial No. 173,485  
Claims priority, application Switzerland July 27, 1949  
23 Claims. (Cl. 18-48)

1. A process of preparing closed-cell, gas-containing cellular bodies of natural and artificial elastomers and thermoplastic resins, comprising the steps of arranging in a mold a mass composed of substantially dry particles of solid material of at least one substance selected from the group consisting of elastomers and thermoplastic resins mixed with at least one substance selected from the group consisting of solvents and softening agents which improve the gas-dissolving ability of said substance in an amount sufficient to improve said gas-dissolving ability while retaining the substantially solid, dry condition of the same; introducing a gas being substantially insoluble at atmospheric pressure in said substantially dry, solid mass from without said mold into said mold containing said mass, whereby said gas is evenly and thoroughly distributed in said substantially solid mass without being dissolved in the same; compressing the contents of said mold including the gas introduced therein until at least partial dissolution of said gas in said substantially dry, solid mass without formation of a gel; heating the contents of said mold while still compressed until gelatinization of said substance, thereby forming a homogeneous mass of said substance having said gas evenly distributed therein; and cooling the thus formed mass and releasing the pressure thereon and causing the same to expand and form a closed-cell gas-containing cellular body.

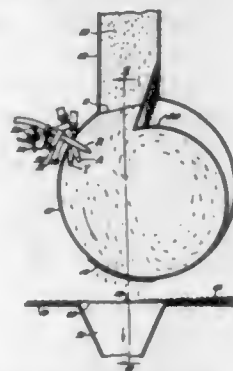
2,714,748

**PROCESS OF PRODUCING CLOSED-CELL CELLULAR BODIES**  
Ernst Stirnemann, Basel, and Herbert Lindemann, Sins, SwitzerlandApplication December 9, 1952, Serial No. 325,021  
Claims priority, application Switzerland  
December 12, 1951  
10 Claims. (Cl. 18-48)

1. A process of preparing closed-cell, gas-containing cellular bodies of natural and artificial elastomers and

thermoplastic resins, comprising the steps of introducing into an open mold a mass composed of particles of solid material selected from the group consisting of elastomers and thermoplastic resins, said mass being loosely packed and having a large surface area defining passages through said mass causing the surface of the same to be accessible to surrounding atmosphere; closing said mold; mechanically compressing said mass so as to substantially decrease the volume thereof while retaining passages through said mass; introducing a gas which is substantially insoluble in said mass at atmospheric pressure from without said mold into said mold, thereby increasing the gas pressure in said mold and distributing said gas through said mass and the elevated pressure causing partial dissolution of said gas in said solid material of said mass; heating the contents of said mold while still compressed until gelatinization of said material, thereby forming a homogeneous mass of said material having said gas evenly distributed therein; and cooling the thus formed mass and releasing the pressure thereon, thereby causing the same to expand and form a closed-cell gas-containing cellular body.

2,714,749

**APPARATUS FOR DEPOSITION OF DRY FIBERS IN THE MANUFACTURE OF FIBROUS STRUCTURES**James D'A. Clark, Longview, Wash., and Bror E. Anderson, Park Ridge, Ill., assignors to A. B. Dick Company, Niles, Ill., a corporation of Illinois  
Application July 30, 1953, Serial No. 371,258  
3 Claims. (Cl. 19-156)

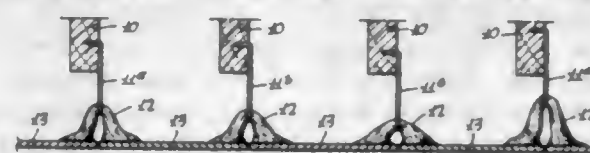
1. Apparatus for the air deposition of dry fibers in the manufacture of fibrous structures comprising a substantially cylindrical housing having an inlet in one portion through which fibers are fed into the housing, an outlet in another portion which forms a foraminous separating wall through which fibers are able to pass, a collecting wall spaced a short distance from the separating wall having forams therein dimensioned to prevent passage of fibers, means for feeding dry fibers through the inlet into the housing and a plurality of air nozzles in the housing through which streams of air at high velocity are directed into the housing, some of said nozzles being positioned to direct streams of air tangentially into the housing, others of said nozzles being positioned to direct their streams of air radially into the housing whereby the air and contained fibers are caused to circulate rapidly about the housing in one direction as a composite stream having a substantially uniform distribution of the fibers entrained therein for passage with the air through the separating wall to the collecting wall.

2,714,750

**CEILING CONSTRUCTION AND METHOD OF HANGING SAME**Raymond Facciolo, Drexel Hill, Pa.  
Application November 10, 1950, Serial No. 195,003  
2 Claims. (Cl. 20-4)

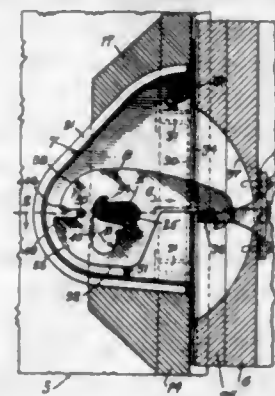
1. In a ceiling construction, an overlying structural support, a plurality of preformed panels disposed in side by side abutting, substantially co-planar relation, said

panels being disposed in spaced relation beneath said structural support, a plurality of hangers engaging said support and depending therefrom, and a plurality of adhesively saturated connecting members, said connect-



ing members having the intermediate portions thereof engaging the depending ends of said hangers, and the ends of said connecting members being adhesively connected to a pair of adjacent panels.

2,714,751

**FASTENER**Whitney A. Stuart, Piscataway Township, Middlesex County, N. J., and Leonard G. Huxtable, New York, N. Y., assignors to Egmont Arens, New York, N. Y.  
Application April 1, 1953, Serial No. 346,184  
6 Claims. (Cl. 20-92)

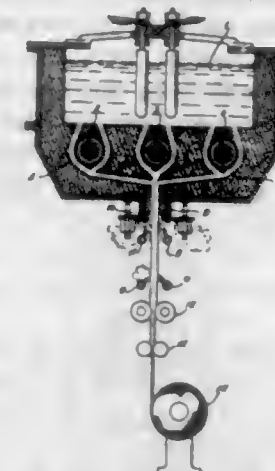
1. A latch comprising, a locking member provided with an irregular shaped opening having a pair of leg areas extending one from the other in an angular relation to each other, and having a clearance area at the base of a leg area, a translating finger mounted at one end for rotary movement within said opening and about a definite axis located within said opening, said finger being at all times maintained in cooperative contact with the side walls of said opening and having a lateral projection at its free end receivable in said clearance area, said projection being normally at all times in engagement with a side wall of the said opening, actuating means for rotating said finger about said axis whereby said locking member is moved in a definite path from locking position to an intermediate position and thence to full open position, and restraining means cooperating with said locking member for restricting said locking member throughout a portion of said path to longitudinal displacement and for restricting said locking member to rotary displacement throughout another portion of said path.

2,714,752

**CONTINUOUS CASTING APPARATUS**Golder P. Wilson, Arcadia, Calif., assignor to Olin Mathieson Chemical Corporation, a corporation of Virginia  
Application August 16, 1950, Serial No. 179,691  
2 Claims. (Cl. 22-57.2)

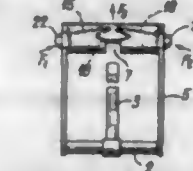
1. Apparatus for the continuous casting of metals comprising a chamber for the melting and reservation of molten metal, said chamber having a relatively thick, solid bottom wall, said bottom wall having a U-shaped channel of substantially uniform cross-section disposed below the chamber, the divergent ends of said channel being connected with the upper surface of said chamber bottom and arranged to drain metal from the chamber, a metal congealing tubular mold the entry side of which is directly gated to the bottom of said channel, and a

primary low-frequency current carrying iron cored coil positioned within and insulated by said bottom wall and



surrounded by, and adapted to be in electroinductive relationship with the metal occupying, said channel.

2,714,753

**BELT BUCKLE**Roland Beuchat and Samuel Junod, Geneva, Switzerland  
Application March 6, 1953, Serial No. 340,755  
4 Claims. (Cl. 24-178)

4. A buckle for belts and the like yielding perforated fastening members, comprising a quadrangular structure including a first cross-member for attachment of an end portion of a belt thereto, two side portions and a second cross-member provided with a notch at its medial part, said notch facing said first cross-member, a catch pivotally secured to the first cross-member and adapted to project through a perforation of the belt, into register with said notch, said catch including a tip adapted to pass through said notch to pivot freely between an operative position on the outer side of said second cross-member and an inoperative position on the inner side of said second cross-member for which latter position a mere drawing of the buckle in a direction extending from the first cross-member towards the second cross-member releases the catch from the perforation in the belt, a spring longitudinally fitted on said second cross-member, said spring including a medial part registering with said notch and adapted to be engaged by the tip of the catch in its operative position, two terminal sections shaped as curves of small radii projecting outside the buckle and forming finger-operable control sections, said terminal sections comprising end portions adapted to engage under pressure in opposite directions the inside of said side members of the buckle, two elongated slightly incurved sections forming inward extensions of the terminal control sections, two pairs of sections assuming the shape of sharp bends in opposite directions and connecting each a said slightly incurved section with the medial part, the spring when submitted to compression between the control sections assuming a flexional bend constraining the medial part to recede away from said notch and to release the tip of the catch.

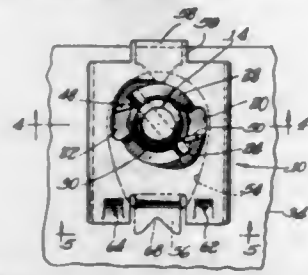
2,714,754

**FASTENING DEVICE**Friedrich Karl Knohl, Roselle, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application May 24, 1952, Serial No. 289,724  
3 Claims. (Cl. 24-221)

1. A fastening device for detachably securing together workpieces, and comprising a relatively broad resilient



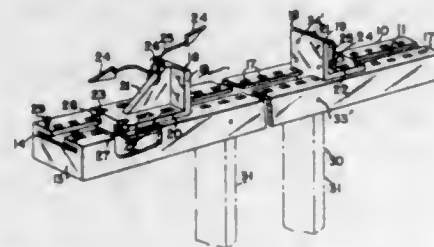
sheet material body section having within its opposed margins an aperture for receiving a stud shank having lugs extending outwardly therefrom, spacing flanges extending from opposed margins of the body section toward a workpiece for engagement therewith to space the body section from the workpiece in position for flexing thereof under stress, cam surfaces around the aperture in said body section for cooperation with the lugs extending from the stud shank to place the body section under stress



when the stud is rotated to secure the workpieces, and locking lugs on said body section and housed within the spacing flanges and extending in an inclined direction toward the adjacent workpiece for impinging the same to prevent relative movement between the workpiece and the body section, said spacing flanges preventing complete collapse of said locking lugs when the body section is under stress and said body section under stress serving to effect more aggressive impingement between the locking lugs and the adjacent workpiece.

#### 2,714,755 ADJUSTABLE SHORE HEAD

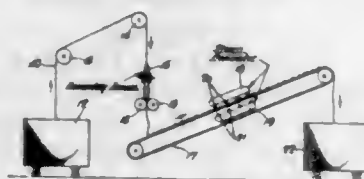
Joe S. Wright, Dayton, Ohio  
Application October 16, 1952, Serial No. 314,994  
4 Claims. (Cl. 25—131.5)



1. An adjustable shore head comprising a metallic elongated member having an inverted U-shaped section, a continuous slot extending substantially the entire length of the horizontal wall of said member about midway of the width thereof, a series of spaced slots in said horizontal wall on each side of said continuous slot, the slots of each side of the continuous slot being in alignment, an angularly shaped member adapted for slidable movement on the top face of said horizontal wall, said member having a depending tongue adapted to be received by said continuous slot, and means including a series of equally spaced slots in said angular member to cooperate with the said series of slots in said elongated member whereby said angular member may be inched along the entire length of said elongated member.

#### 2,714,756 METHOD OF TREATING TUBULAR KNITTED FABRICS

Frank R. Redman, Yardley, Pa.  
Application October 8, 1952, Serial No. 313,623  
7 Claims. (Cl. 26—18.5)



3. A method of reducing shrinkage in tubular knitted fabric whereof the knitted stitch loops are distorted from

their normal shape and position by treatment of the fabric subsequent to knitting thereof, which method comprises expanding the tubular fabric widthwise, while it is sufficiently free lengthwise, to relieve the distorted stitch loops, permitting the fabric to completely relax in all directions so that it is completely relaxed both lengthwise and widthwise, flattening the fabric and pressing it to smooth it and to finish it for width, and applying steam to the fabric while it is completely relaxed and in a substantially dry condition.

#### 2,714,757 METHOD OF PRODUCING A LADY'S STRETCHABLE AND RETRACTABLE STOCKING AND THE RESULTING STOCKING

William J. Leath and Robert M. Matthews, Charlotte, N. C., assignors, by mesne assignments, to Chadolon, Inc., Charlotte, N. C., a corporation of North Carolina  
Application March 18, 1955, Serial No. 495,362  
8 Claims. (Cl. 28—76)



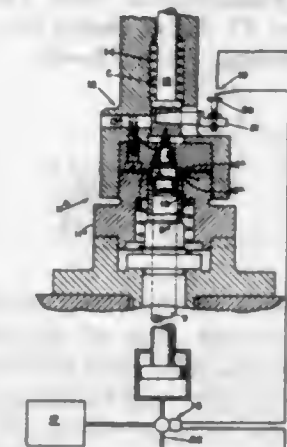
1. A method of producing a lady's stretchable and retractable stocking, comprising: knitting a stocking from right and left twisted yarns in alternation, each paired with another yarn, the yarns of each pair always being knitted together and one yarn of each pair consisting of untwisted yarn and the other yarn consisting of a yarn that has been heat-set and then twisted sufficiently to impart to the yarn a permanent substantial liveliness, and to prevent loss thereof by high temperature finishing treatments subsequently applied thereto; steaming the stocking; then dyeing the stocking at an elevated temperature; and finally boarding the stocking in relaxed, substantially unstretched condition, said treatments of the stocking causing the originally twisted yarns to impart to the originally untwisted yarns some of the lively characteristics of the twisted yarns, thereby increasing the stretchability and retractability of the knitted stocking.

2,714,758  
SEWING THREAD AND SEWN ARTICLE  
William S. Woodson, Jr., Ridgewood, N. Y., assignor to The Manhattan Shirt Company, New York, N. Y., a corporation of New York  
Application August 9, 1949, Serial No. 109,375  
16 Claims. (Cl. 28—78)



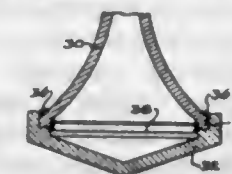
1. In sewing thread for use in sewing machines, comprising destructible yarn and permanent yarn, said yarns being twisted together constituting thread, said permanent yarn being crinkled, the destructible yarn engaging the crinkles and retaining them in crinkled condition during machine stitching, the permanent yarn being resistant to agents capable of destroying the destructible yarn.

#### 2,714,759 APPARATUS FOR CLOSING AND STANDARDIZING THERMOSTATIC POWER ELEMENTS Adolf Von Wangenheim, Detroit, Mich., assignor to Detroit Controls Corporation, a corporation of Michigan Application September 29, 1949, Serial No. 118,659 2 Claims. (Cl. 29—33)



1. An apparatus for closing and standardizing a thermostatic power element which comprises a cup portion with a bottom wall and an outwardly facing annular supporting surface, a closure element having a peripheral portion seatable on said outwardly facing annular supporting surface, a diaphragm member positioned between said outwardly facing surface and said peripheral portion, temperature responsive material within said cup portion, said closure element having a guideway extending substantially normal to said diaphragm member, and thrust means reciprocal in said guideway and having co-operable relation with said diaphragm member for movement thereby; said apparatus comprising a supporting structure having a bore with a surrounding annular supporting portion, an abutment member positioned adjacent to and movable toward and away from said supporting portion, indenting means positioned in said bore and reciprocally movable therein, said apparatus being adapted to close and standardize a thermostatic power element positioned in said bore, said first-named annular supporting surface adapted to support said cup portion, said abutment member positioned in overlying relation to said closure element peripheral portion and movable to urge said peripheral portion toward said outwardly facing supporting surface and to compress said diaphragm member between said peripheral portion and said outwardly facing annular supporting surface thereby closing said thermostatic power element, said indenting means being movable to deform inwardly said cup portion bottom wall to move said thrust means outwardly to a position at a predetermined distance from said supporting structure, and means operable to limit movement of said indenting means upon attainment of said position thereby standardizing said thermostatic power element.

2,714,760  
METHOD OF BRAZING AND JOINT PRODUCED THEREBY  
Willard M. Boam, Fair Lawn, and Herman H. Hanink, Ridgewood, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware  
Application July 2, 1951, Serial No. 234,894  
14 Claims. (Cl. 29—196)



1. The method of brazing a pair of corrosion and oxidation resistant high temperature alloy parts together;

said method comprising the steps of disposing the surfaces of said parts to be brazed together in abutting relation; placing a mixture containing a brazing alloy in powdered form on said parts along one or more edges of said abutting surfaces, said mixture including a binder for said brazing alloy and said brazing alloy consisting essentially of 8-20% chromium, 2-5% boron and 65-85% of metal from the group consisting of nickel and cobalt; then heating said parts to a temperature of at least 2000° F. for melting said brazing alloy to braze said parts together; and maintaining said parts in a dry reducing atmosphere of hydrogen during the brazing operation.

6. The method of brazing a pair of corrosion and oxidation resistant high temperature alloy parts together; said method comprising the steps of grit blasting the surfaces of said parts to be brazed together with iron grit in the solid state to roughen said surfaces and to provide a film of said iron grit over said surfaces; disposing said surfaces in abutting relation; placing a mixture containing a brazing alloy in powdered form on said parts along one or more edges of said abutting surfaces, said mixture including a binder for said brazing alloy and said brazing alloy consisting of 65-75% nickel, 13-20% chromium, 2.75-4.75% boron, 3-5% iron, 0.05-0.5% carbon, 3.5-5.5% silicon; heating said parts from a temperature under the melting temperature of said brazing alloy to a temperature of at least 2000° F. in a time of not more than 10 minutes for quickly melting said brazing alloy to braze said parts together; and maintaining said parts in a dry reducing atmosphere of hydrogen having a dew point of no more than -60° F. during the brazing operation.

7. A pair of corrosion and oxidation resistant high temperature alloy parts containing nickel and chromium and a brazed joint connecting said parts in which said joint is made by the method recited in claim 6.

2,714,761  
ASSEMBLING MACHINE  
Carl J. Wampole, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application October 7, 1949, Serial No. 120,202  
3 Claims. (Cl. 29—203)

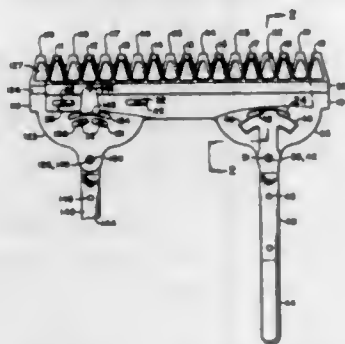


1. A machine for assembling detent thimbles, a helical spring between them and a rod within the spring with an open case having opposite side walls provided with depression in alignment for receiving the thimbles when said thimbles are spread apart upon said rod by said spring, said machine comprising, a case holder having one end fixed and having its free end extending into the case, said holder having a through passage and having aligned openings on opposite sides thereof communicating with the passage and having a groove in the edge of the sides in alignment with the depressions of the case when the case is placed upon said case holder; members on opposite sides of the holder, each member having a channel communicating with a respective opening in said case holder, one of said channels receiving a thimble, a spring with a rod therein and the other channel receiving only a thimble; means for moving the respective thimbles from the channels and through the opening and into the passage of said case holder and for effecting compression of the spring and reception of the ends of the rod by the thimbles; and means mov-



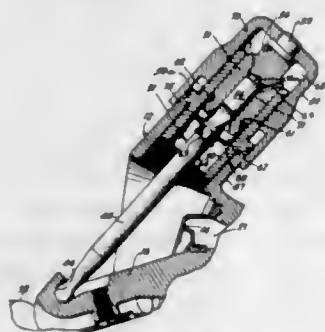
able within the passage of said case holder for moving the thimbles spring and rod into the groove in said case holder whereupon the spring forces the thimbles into the depressions of said case.

**2,714,762**  
**MULTI-BLADE HEDGE TRIMMER**  
Wyman R. Green, Madison, N. J.  
Application October 1, 1952, Serial No. 312,615  
4 Claims. (Cl. 30-211)



1. A hedge trimmer comprising two similar juxtaposed oblong cutter bars in sliding engagement with each other, each cutter bar being provided with a plurality of cutting knives on one long edge of each cutter bar, a fulcrum near one short edge of each cutter bar, a projection near the other short edge of each cutter bar, an arcuate opening near the base of each of said projections and another fulcrum in each of said projections, and two similar operating levers each having a fulcrum near one end thereof, each of said last named fulcrums being operatively connected with one of said first named fulcrums, another fulcrum on each of said levers, each of said last named fulcrums being operatively connected with the said fulcrum in one of said projections, and an offset bend in each of said levers between said two fulcrums on said levers, each of said offset bends passing through said arcuate opening near the base of said projection to which the said lever is fulcrumed.

**2,714,763**  
**SHEARING HANDPIECE**  
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois  
Application May 8, 1952, Serial No. 286,681  
5 Claims. (Cl. 30-221)



1. In a shearing handpiece, the combination of a handle assembly, a comb mounted on said handle assembly, a cutter means movable back and forth across said comb, a fixed extension on said handle assembly disposed in spaced relation to said cutter means, an elongated rodlike force transmitting member pivotally mounted at one end on said cutter means and having its opposite end disposed adjacent said fixed extension, the upper end of said force transmitting member providing a convex spherical surface, an elongated rodlike bearing member disposed between said fixed extension and said force transmitting member and having a convex spherical surface at one end engageable with the upper end of said force transmitting member, and adjustable means mounted

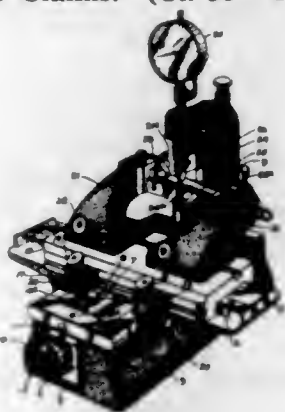
ed on said sleeve for varying the force between said cutter means and said comb transmitted through said interengaging spherical surfaces.

**2,714,764**  
**DENTURES**  
Moses Joseph Mandelbaum, New York, N. Y.  
Application May 17, 1954, Serial No. 430,128  
7 Claims. (Cl. 32-2)



1. In a dental plate, a tooth carrier shaped to conform with and fit closely on the gum of the lower jaw bone, said carrier having its posterior ends formed to rest in and snugly engage substantially horizontal recesses at the angular junctures of the anterior borders of the rami with the upper surface of the body of the jaw bone and be held against vertical movement in said recesses when fitted over the jaw bone, a bore through said tooth carrier substantially spaced from said posterior ends, said bore being disposed to register with and extend from a cavity of substantially uniform cross-section in the jaw bone in registry with said bore when said tooth carrier is fitted on the jaw bone, said jaw bone cavity having downward and forward inclination not exceeding 90° to the front face of the jaw bone, and a releasable, closely fitting pin through said bore and extending into said cavity of the jaw bone for preventing and arresting vertical and sidewise displacement of the anterior of the tooth carrier when fitted on the jaw bone, a head on said pin and a recess in said tooth carrier adjacent to said bore to receive the head of the pin so that the surface of said head will be substantially flush with the front of the tooth carrier.

**2,714,765**  
**INDEXING MEANS FOR DIRECT READING GAUGE APPARATUS**  
John Oliver Creek, Brampton, Ontario, and Edward William Dawson, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation  
Application June 12, 1951, Serial No. 231,136  
3 Claims. (Cl. 33-174)



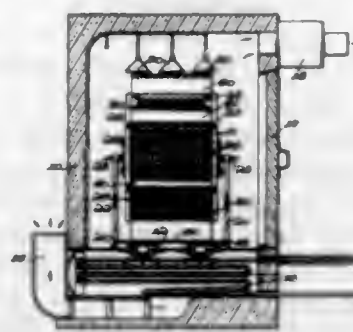
1. Indexing means for gauge apparatus, comprising a base, a carriage mounted on the base for back and forth longitudinal sliding movement, a drum mounted for rotation about an axis parallel to the direction of movement of the carriage and having at least two spaced longitudinal ridges in its periphery and transverse recesses in the ridges, the longitudinal positions of the recesses in one ridge being different relative to the longitudinal positions of the recesses in another ridge and a stop pin mounted on one of the base and carriage and adapted to enter any of said recesses to position the carriage in several predetermined longitudinal positions relative to said base.

**2,714,766**  
**AUTOMATIC PLUMB BOB**  
Ralph B. Saxon, Minneapolis, Minn., and Lloyd S. Saxon, Tacoma, Wash.  
Application November 28, 1952, Serial No. 323,017  
3 Claims. (Cl. 33-217)



2. In combination, a plumb bob having a slot there-through, a reel rotatably supported in the slot, a plumb line wound on the reel, and a frictional reel braking mechanism on the bob comprising means to provide a braking resistance greater than the weight of the plumb bob when the bob is suspended freely by the line, and means for automatically disengaging the reel from the braking mechanism upon rotation of the reel in a direction to wind up the line, to permit of easily returning the plumb line to the plumb bob.

**2,714,767**  
**FEATHER TREATING APPARATUS**  
Edward R. Frederick and Michael C. Jaskowski, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Army  
Application October 3, 1952, Serial No. 313,014  
5 Claims. (Cl. 34-2)

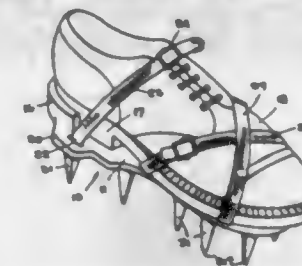


1. A feather treating cage comprising a support, a hollow drum having side and end walls and a normally closed opening for receiving and discharging feathers, the side walls being perforate so that air currents may flow transversely through the drum, the end walls being imperforate and being rotatably mounted on said support, tie members rigidly connecting the end walls with each other, the end walls having marginal intumed flanges to which the tie members are also secured, and a plurality of impeller vanes each fixed to a tie member on the outside and extending the length thereof between the end walls, each vane being arcuately curved transversely, the entire cage being dynamically balanced so that it is freely rotatable responsive to the energy of light air currents engaging said vanes transversely.

**2,714,768**  
**GROUND AERATING SANDAL**  
Allen A. Badler, New York, N. Y.  
Application August 4, 1954, Serial No. 447,804  
3 Claims. (Cl. 36-1)

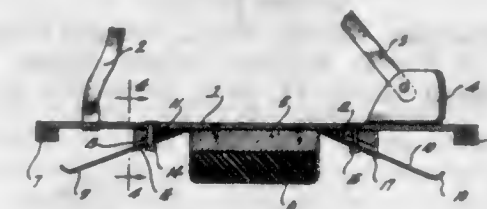
1. A ground aerating sandal comprising a rigid metal base plate, said base plate having a heel portion and a sole portion, a flange extending upwardly from the rear edge of said heel portion, said base plate being provided with a plurality of straps adapted to bind said sandal to the shoe of the wearer, and a plurality of downwardly

extending and tapering spikes disposed along the bottom of said base plate and integrally affixed thereto, each said



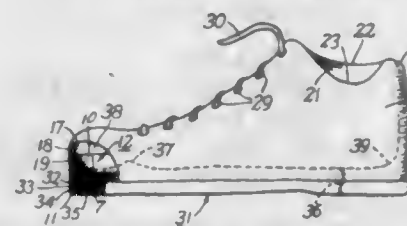
spike having spur means affixed thereto for uplifting the ground.

**2,714,769**  
**TAP DANCING SHOE**  
William N. Gaffney, Long Beach, Calif.  
Application May 27, 1954, Serial No. 432,758  
1 Claim. (Cl. 36-8.3)



A tap dancing shoe comprising an elongated plate, mounting means on the plate whereby said plate is attached to the shoe of a wearer, a ground engaging weight carrying block mounted on said plate and on the bottom thereof, a wedge shaped seat mounted on the bottom of the plate forwardly of the block, a metallic spring clicker, means securing the spring clicker to the seat, a second wedge shaped seat mounted rearwardly of the block and on the bottom of the plate, a second metallic spring clicker mounted on the second seat, a cushion pad on the bottom of said block, and stop blocks mounted on said plate at the front and rear of the plate and on the bottom thereof.

**2,714,770**  
**SHOES OF MOLDED MATERIALS**  
Alan E. Murray, New York, N. Y.  
Original application January 8, 1949, Serial No. 69,887, now Patent No. 2,606,333, dated August 12, 1952. Divided and this application April 26, 1952, Serial No. 284,579  
2 Claims. (Cl. 36-8.5)



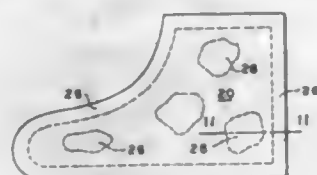
1. A shoe of set plastic materials, said shoe being provided with a plastic enclosure for completely covering the top and lower portion of any particular foot, said enclosure including an upper of set plastic in a woven material as well as having a separate lower portion to the side face of which the upper is secured, said lower portion having the shape and not less size of the actual foot perimeter on which it is intended to be worn.

**2,714,771**  
**MULTI-PLY PAPER FOOT COVERING**  
Ruth G. Offene, Weston, Mass.  
Application May 16, 1951, Serial No. 226,649  
4 Claims. (Cl. 36-9)

1. A sock-like article comprising a portion adapted to engage the foot of a wearer and consisting of a plurality



of superimposed, substantially coextensive, thin plies of soft, porous, moisture-absorbent paper, the outermost ply and at least one intermediate ply, spaced from said outermost ply by another ply, being substantially stronger, more

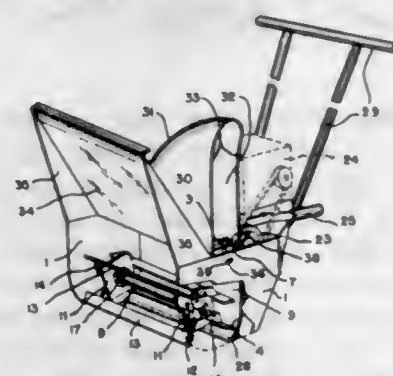


extensible and more resilient than other plies, including the innermost ply, of said plurality, said plies being affixed to one another only over restricted portions of their contiguous surfaces and otherwise being free to move relatively to one another.

2,714,772

SNOW PLOW

Lewis C. Erickson, Duluth, Minn., assignor of one-fourth to Roy B. Wiprud, Duluth, Minn.  
Application March 12, 1951, Serial No. 215,106  
9 Claims. (Cl. 37-43)

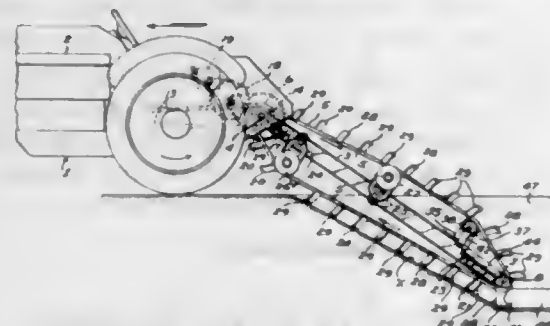


1. A snow plow comprising a housing, a rotor carried in said housing, and means to rotate said rotor to move snow which it contacts in a predetermined path rearwardly on the underside of said rotor, said rotor comprising a plurality of blades, means for mounting said blades pivotally in spaced relation to the axis of said rotor, and means for holding said blades from achieving a free radially extended position when said rotor is rotating, and said blades being free to pivot in the opposite direction to the rotation of said rotor to reduce the diameter of the latter when said blades encounter a resistance greater than the capacity of said means to rotate said rotor.

2,714,773

BLADE MECHANISM FOR ENDLESS TYPE  
DITCH DIGGER

Sidney Stewart, Lincoln, Nebr., assignor of one-half to Peterson Construction Company, Lincoln, Nebr., a corporation of Nebraska  
Application October 21, 1952, Serial No. 315,914  
3 Claims. (Cl. 37-86)



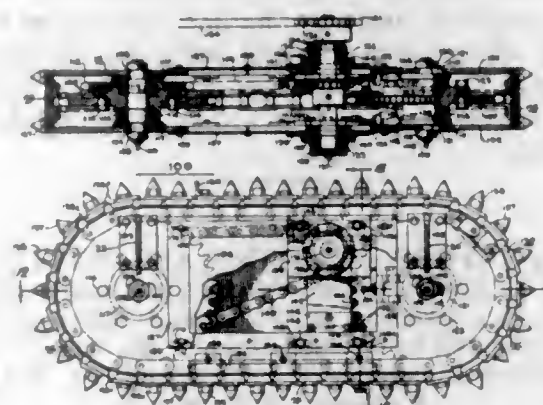
1. A trenching mechanism comprising in combination with tractor power mechanism having rear attaching means, a beam pivoted at one end to the rear attaching means of the tractor and having its other end free, a

supporting roller pivotally mounted upon the beam near each end thereof, a chain running over the rollers and driven by the power mechanism, scooping means carried by the chain and operative to excavate a trench, a pair of outwardly flaring cutting knives, one knife being pivotally mounted on each side of the free end of the beam, each knife having a forwardly directed cutting edge intersecting the plane of the respectively adjacent side wall of the trench excavated by the scooping means and extending obliquely outwardly and downwardly beyond said side wall to the plane of the bottom of said trench, an eccentric carried by the boom and operatively related to the chain, crank means carried by the boom and operated by the chain, and connecting means between the crank means and the knives and operative to oscillate the knives.

2,714,774

RAILWAY BALLAST EXCAVATING CHAIN

Henry J. Perazzoli, Havertown, Pa.  
Application October 3, 1949, Serial No. 119,289  
3 Claims. (Cl. 37-104)

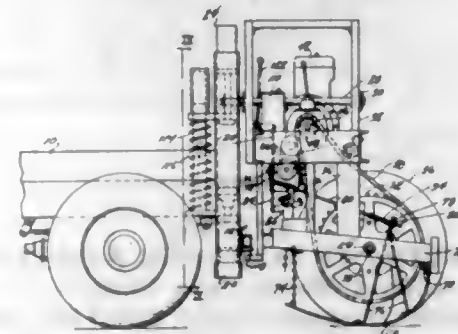


1. In railway roadbed machinery, a cribber assembly comprising a frame, a cribber head supported at one end of said frame, power means mounted on the frame for driving said cribber head, a fixed truck rigidly attached to the frame in spaced relation from the cribber head, a detachable truck adapted to be secured to the frame adjacent the cribber head to support the cribber head and frame in an elevated position when moving the cribber assembly along two parallel rails, a sub-frame adjustably mounted on the main frame to form an adjustable longitudinal extension thereof, and connecting means on the sub-frame for mounting the detachable truck thereon when operating the cribber assembly to remove ballast.

2,714,775

TRENCH FILLING MACHINE

Laurel A. Crawford, Deshler, Ohio  
Application August 31, 1951, Serial No. 244,543  
3 Claims. (Cl. 37-144)



1. In a back filling mechanism of the class described, a tractor having elements for supporting and guiding the tractor for movement generally parallel to the longitudinal axis of the tractor, a pair of vertical guides on said tractor spaced apart in a plane transverse to said trac-

tor longitudinal axis, a frame mounted for vertically shifting movement in said vertical guides, a horizontal pintle carried by said frame in a position generally parallel and coaxial to the longitudinal axis of said tractor, a support mounted upon said pintle for free pivotal movement about the axis of said pintle, a shaft fixedly mounted upon said support generally parallel to the plane of said frame, a conveyor element mounted upon said shaft and operable when rotated to engage and shift material laterally and transversely of said frame, motor means carried by said support and connected to rotate said conveyor, wheel means in general alignment with but spaced substantially outboard of and beyond the end of said conveyor element toward which end said conveyor is operable to shift material and engageable with the same surface that supports said tractor to support the end of said conveyor adjacent said wheel means and a spring carried by said tractor and constructed and arranged to resiliently support a portion of the weight of said frame and support and mechanism on said support.

2,714,776

TINSEL PACKAGE

Paul A. Lee, Warwick, R. I.  
Application February 25, 1953, Serial No. 338,664  
2 Claims. (Cl. 41-10)

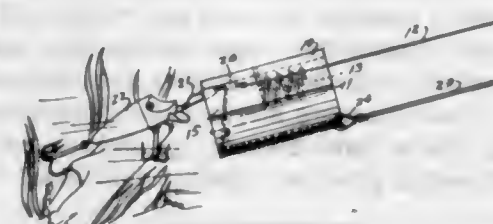


1. A package of Christmas tree decorating tinsel comprising a plurality of strips of tinsel folded upon themselves forming a bight, an ornamental spacer in said bight having an opening through which said strips of tinsel extend, a band encircling said folded tinsel at a point removed from the bight to hold the spacer in the fold of said tinsel and confine the tinsel at a location spaced from the fold in compact relation with the free portion of the tinsel strip beyond said band flaring therefrom and more widely spaced, and a core about which the free more widely spaced portion of the strips of tinsel are wrapped to provide a compact package.

2,714,777

FISHING LURE RETRIEVER

Harold S. Peak, Burbank, Calif.  
Application July 25, 1952, Serial No. 300,801  
5 Claims. (Cl. 43-17.2)



1. In a fishing lure retriever, an open-ended non-buoyant tubular body having a forward end and a rearward end, and a side wall, a helical line guide within said body, said guide being secured at one end to said side wall and being spaced from said side wall, and lure engaging means on said body within the forward end thereof.

2,714,778

FISHING LURE

Herbert L. Megerle, Rochester, N. Y.  
Application October 1, 1953, Serial No. 383,471  
1 Claim. (Cl. 43-42.12)

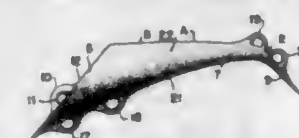


A fishing lure comprising a rod connectable at opposite ends to a fishing line and a fishing hook, a support rotatable on said rod and comprising a pair of blocks, and a tubular spacing member surrounding said rod and securing said blocks together in parallel, spaced relation, and a pair of helical blades mounted between said blocks to rotate on parallel axes parallel to the axis of rotation of said support, said blades being mounted at opposite sides, respectively, of said spacing member and each being journaled at its opposite ends in said blocks, said blocks being of a length and width to project at their sides and ends beyond said blades.

2,714,779

FISHING LURE

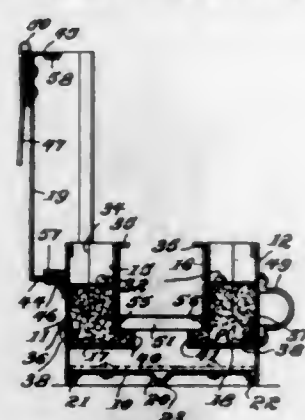
Glen P. Helmer, Salt Lake City, Utah  
Application September 22, 1950, Serial No. 188,314  
1 Claim. (Cl. 43-42.23)



A fishing lure comprising a solid body having greater length than width and whose side elevation is substantially triangular in shape, one of the ends of said body in end elevation defining a surface having the edges thereof above the horizontal median of that surface converging to a meeting point at their upper end and the edges below the median defining a continuous curve from the bottom of one converging edge to the bottom of the other converging edge, the other end of the lure body having a tail extending downwardly therefrom, the side walls at the latter end of the lure body having a horizontal opening therein and the tail having a projection with an opening therein, the side walls of the projection being substantially in line with that portion of the side walls of the body having a horizontal opening whereby a double shanked hook pivoted in the latter opening may have each of the shanks of its pair of shanks positioned on opposite side of and in engagement with the corresponding sides of the projections and with the connecting part between the shanks mounted in the latter opening, the upper face of the tail and the first named end surface of said body being in planes at right angles to each other, and said first named end surface of said body and the bottom wall of the lure body substantially below the first named end surface having attaching means thereon adapted for connection to a fishing line or fishing hook.

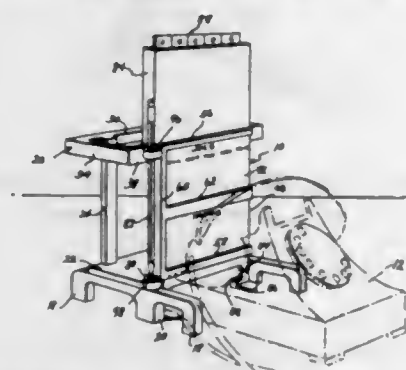


**2,714,780**  
**POISON BAIT CONTAINER FOR RODENTS**  
 Carl Glover, Preston, Idaho  
 Application December 23, 1952, Serial No. 327,480  
 3 Claims. (Cl. 43-131)



1. In a poison bait container, the combination which comprises an elongated box-like housing having a base with upwardly extended side walls, the ends of said housing being open, transversely disposed partitions spaced from the ends of the housing, extended across the housing and having openings in the intermediate parts thereof with the openings extending from points substantially midway of the height of the housing to the upper portion, spaced inner walls extended between the partitions providing a central channel, panels with upwardly extended lips on the inner edges spaced from the base of the housing and positioned below said inner walls whereby areas between the lips and inner walls provide feed troughs, said panels extending to the side walls of the housing providing feed hoppers between the side walls and inner walls, and a cover positioned to cover the upper ends of the feed hoppers of the housing.

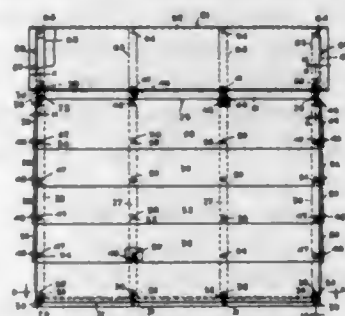
**2,714,781**  
**TELEPHONE STAND**  
 Albert M. Jouban, Lafayette, La.  
 Application September 11, 1951, Serial No. 246,042  
 2 Claims. (Cl. 45-5)



1. A telephone stand comprising a pair of parallel side bars spaced apart just sufficient to straddle and to receive longitudinally therebetween the base of a telephone, an upstanding panel having its lower end portion connected to said side bars for holding the side bars in their spaced apart relation, means on the side bars and panel adapted to receive thereon the rear end of the telephone base, a platform carried by said side bars, an open rectangular frame disposed vertically above said platform, upstanding members connected to said platform and frame for supporting said frame, said frame being connected to said panel to brace the panel and cooperating with the panel, the platform and the upstanding members to define a telephone book receiving space, the lower portion of said panel being thin, and a substantially E-shaped frame having its three legs secured to the thin portion of the panel at vertically spaced apart areas to reinforce the thin portion of the panel and to cooperate therewith to provide an upper calendar receiving holder and a lower memorandum pad receiving holder, the upper portion of

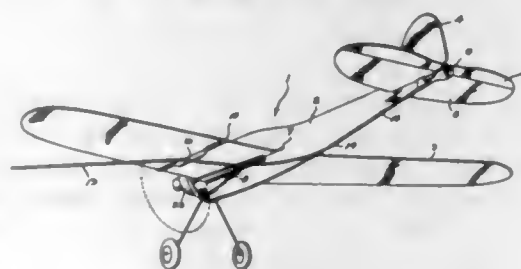
the panel being of increased thickness to impart stability thereto and having formed therein a vertical slot for receiving index cards.

**2,714,782**  
**TOY HOUSES**  
 Louise Johnson Dinn, Corpus Christi, Tex.  
 Application October 20, 1953, Serial No. 387,143  
 2 Claims. (Cl. 46-19)



1. A toy house comprising a plurality of walls, each wall including corner uprights, pegs secured to the corner uprights and inclined upwardly toward their outer ends and projecting outwardly beyond the uprights, said pegs being arranged in spaced substantially horizontal groups, a plurality of siding sections which are substantially horizontally arranged, the lower portion of one siding section overlapping the upper portion of the next lower siding section, each siding section having openings formed therein near its opposite ends and near its upper and lower edge, the openings being formed in the overlapping portions of the siding sections, said openings receiving the inclined pins of a plurality of groups.

**2,714,783**  
**PRESSURE FLIGHT CONTROL FOR MINIATURE AIRPLANE**  
 Neville E. Walker, Portland, Oreg., assignor to American Junior Aircraft Company, Portland, Oreg., a corporation of Oregon  
 Application July 23, 1951, Serial No. 238,116  
 4 Claims. (Cl. 46-77)

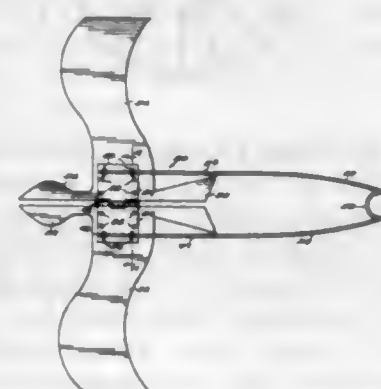


1. A pneumatic flight control mechanism for a semi-captive miniature airplane having means for producing self-sustained flight, comprising an adjustable elevator mounted upon said airplane and movable between a raised and a lowered position to control the vertical component of the flight pattern of said airplane while the airplane is airborne, elastic means for biasing said elevator toward a position between said raised and lowered positions, and expansible and collapsible pneumatic means responsive to a distant means for increasing and decreasing the air pressure above and below atmospheric selectively to move said elevator to either one of said raised and lowered positions against said bias.

**2,714,784**  
**FLAPPING WING TOY**  
 William Eugene Polk, Shreveport, La.  
 Application July 23, 1951, Serial No. 238,043  
 1 Claim. (Cl. 46-124)

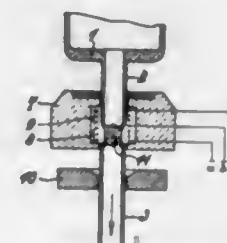
In a toy simulating a bird, a pair of wings mounted for movement toward and away from each other, a head

and tail portion extending from each of said wings, the inner edges of said wings being straight and being spaced from each other, a plate secured to each of said wings contiguous to the inner edges thereof, each of said plates being provided with a plurality of aligned eyelets, said eyelets being struck-out from said plates, one of said pair of plates being provided with a pair of spaced sleeves, the other of said plates having a cylindrical portion interposed between said pair of sleeves, said cylindrical portion and sleeves being positioned in the space between said wings, a hinge pin connecting said cylindrical por-



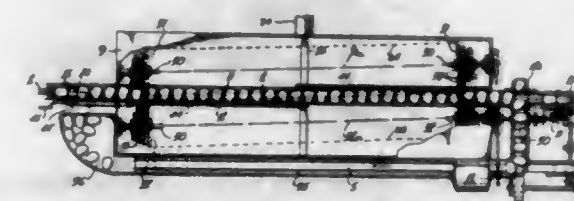
tion to said sleeves, and an operating mechanism comprising a pair of arms of springy material each having one end connected to said eyelets, the other ends of said arms converging together and being shaped to provide a handle, and a spring loop integrally connecting the other ends of said arms together, the rear portion of said arms being arranged angularly and offset from the front of said arms, the ends of said arms remote from said spring loop being arranged transversely with respect to the major portion of said arms to provide limit stops for abutting the eyelets on the front of said wings.

**2,714,785**  
**METHOD OF SEALING A VACUUM VESSEL HAVING A THICK-WALLED EXHAUST TUBE**  
 Wilhelmus Antonius Roovers, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee  
 Application October 29, 1951, Serial No. 253,663  
 Claims priority, application Netherlands November 21, 1950  
 5 Claims. (Cl. 49-78)



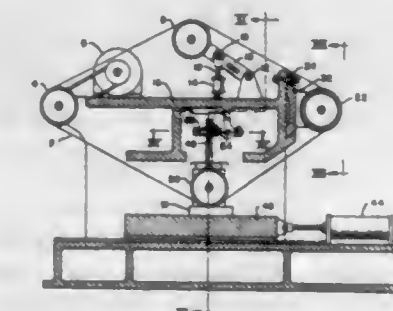
1. A method of sealing a thick-walled glass exhaust tube for a vacuum vessel, comprising the steps of evacuating said vessel through said exhaust tube, locally heating the exhaust tube to fuse a portion of the walls thereof and thereby seal the tube leaving a superfluous portion of the tube remaining attached to the sealed portion, immediately thereafter applying heat to raise the temperature of only the portion of the exhaust tube adjacent the sealed portion on the side thereof adjacent the vessel to prevent stresses from being produced in the sealed portion during cooling, thereafter cooling both said sealed portion and adjacent portion, and mechanically removing the superfluous portion leaving a sealed exhaust tube free of protuberances.

**2,714,786**  
**AUTOMATIC EGG-CLEANING MACHINES**  
 Clyde C. Powell, Bellevue, Wash., assignor to National Poultry Equipment Company, Renton, Wash., a partnership  
 Application September 22, 1952, Serial No. 310,892  
 20 Claims. (Cl. 51-23)



1. An egg-cleaning machine comprising two generally horizontally disposed, parallel, and fixedly positioned rails spaced apart to support the opposite ends of individual eggs as they roll, for advance along a definite path defined by said rails, means so to advance individual eggs in spaced relation and with their major axes always directed transversely, by rolling them along said rails, two cylinders disposed generally at opposite sides of the paired rails and so of the eggs' path of advance and rotative in non-coincident orbits, each cylinder incorporating peripheral abrasive elements to swipe an egg passing within its orbit, and means supporting said cylinders for rotation, said supporting means being relatively so located that the cylinders' axes are disposed in skewed relation to the path of advance of the eggs, from a position at the feed end wherein the axis of a first cylinder is lower and laterally farther from its rail than the axis of the second cylinder with relation to its rail, to a reversed position at the discharge end wherein the axis of said first cylinder is higher and laterally closer to its rail than the axis of the second cylinder with relation to its rail, the cylinder-supporting means being further so located that the cylinders are both positioned close enough to their respective rails that their respective abrasive elements will collectively swipe the entire adjacent hemisphere of each egg during the course of the egg's advance along said rails.

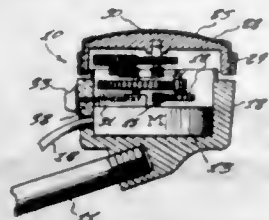
**2,714,787**  
**ABRADING MACHINE**  
 Howard S. Orr, Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey  
 Application February 13, 1953, Serial No. 336,748  
 3 Claims. (Cl. 51-142)



1. An abrading machine comprising an endless abrasive belt, a drive roll for supporting and driving said belt, a work roll for supporting said belt at the position where a workpiece is being abraded, a self-centering roll around a substantial arc of which the belt passes, said self-centering roll having a raised flange thereon adjacent each end, the distance between said flanges being at least as great as the width of the belt, the axes of said rolls being substantially parallel, and means for axially reciprocating said self-centering roll.

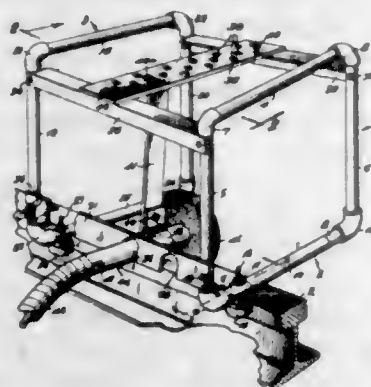


**2,714,788**  
**ELECTRICALLY OPERATED AUTOMATIC ABRASIVE PORTABLE HAIR REMOVER**  
 Tigella Cisco Di Giovanna, Brooklyn, N. Y.  
 Application April 16, 1954, Serial No. 423,776  
 9 Claims. (Cl. 51-170)



1. In a device for removing hair, a supporting means, an electric motor mounted within said means, a shaft adapted to be rotated by said motor, an abrasive pad and a holder for the latter secured to said shaft, said abrasive pad comprising a sheet member covered with an abrasive material of such fineness as to inter-engage with the hair structure but incapable of scratching the skin, means for reversing the direction of rotation of the said shaft.

**2,714,789**  
**GRINDING MACHINES**  
 Joseph Herman Perks, Sr., Richmond, Va.  
 Application July 5, 1952, Serial No. 297,230  
 9 Claims. (Cl. 51-178)



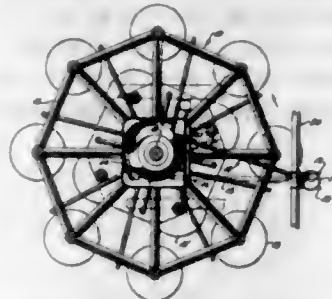
1. A rail grinder comprising an open box-like frame, a first pair of elongated parallel, generally horizontal rollers journaled along respective lower edges of said frame to support the same for translation on and along a rail, a second pair of guide rollers having generally vertical axes journaled on said frame to contact the side of a rail and guide said frame in a fixed path therealong, a plate having a series of apertures therealong, means mounting said plate at the top of said frame in parallelism with said first pair of rollers, a bracket depending from said plate, means operable to secure said bracket for pivotal adjustment about a plurality of vertical axes along and normal to said plate, a power-driven grinding wheel, and means securing said wheel to the lower end of said bracket for pivotal adjustment as a unit therewith.

**2,714,790**  
**FLEXIBLE ABRASIVE ROPE**  
 Eric R. Lindenberg, Indianapolis, Ind., assignor to Vonnegut Moulder Corporation, Indianapolis, Ind., a corporation  
 Application July 19, 1952, Serial No. 299,839  
 10 Claims. (Cl. 51-185)



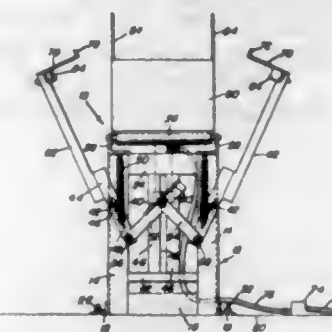
10. An abrasive rope comprising a flexible metallic core structure and a complete covering of granular abrasive material fastened on the surface thereof.

**2,714,791**  
**ADJUSTABLE ROUGE TROUGH HANGER**  
 Lawrence W. Kronen, Kittanning, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania  
 Application November 12, 1954, Serial No. 468,420  
 6 Claims. (Cl. 51-263)



1. A glass polishing apparatus comprising in combination, a reversible rotatable runner, a plurality of polishing blocks and felts carried thereby, an annular rouge supply trunk positioned about the center of rotation of said runner and having dispensing means connected therewith that lead to said polishing felts to supply polishing rouge thereto, a rouge supply trough suspended over said annular rouge trunk and means supporting the end of said trough over said trunk to extend in the general direction of rotation of said reversible rotatable runner, said means comprising a generally horizontally extending bar having a plurality of spaced apart notches proximal to its upper edge, a depending support rod having an upper hook slidably received over said bar and adjustably positionable therealong and held in one of said notches, said rod having a depending portion with an attached eye through which is removably received and supported the end of said rouge trough over said annular supply trough so as to extend in the general direction of rotation of said runner.

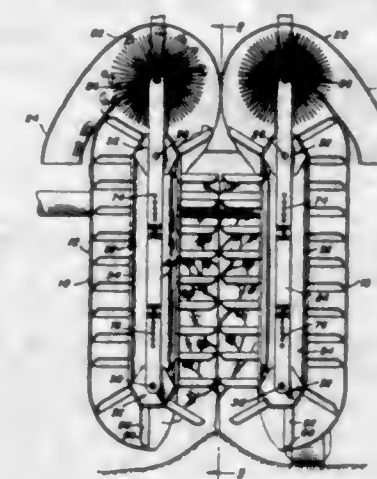
**2,714,792**  
**CARTON CLOSING MACHINE**  
 Ernest W. Wright and Alphonse Morris Thiery, El Centro, Calif.  
 Application May 29, 1953, Serial No. 358,237  
 1 Claim. (Cl. 53-57)



A carton closing machine comprising a generally rectangular upstanding frame, a carton support carried by said frame at the upper end thereof, said frame having opposite sides, a pair of transversely spaced fixed pivot pins carried by each side, an arm pivotally and slidably mounted on each pivot pin, each arm having an elongated slot receiving one of said pivot pins, said arms being arranged in longitudinal pairs and connected together by a longitudinally extending carton lid engaging plate, a centrally disposed, longitudinally extending shaft guidingly retained by said frame for vertical movement, a pair of actuating links disposed adjacent each of said sides, each of said actuating links being pivotally connected to said shaft and to one of said arms below its associated pivot pin, a plurality of tension springs connected to upper portions of said sides above said pivot pins, there being one spring for each arm, each spring being disposed inwardly of an associated pivot pin and connected to its respective arm intermediate said pivot pin and said actuat-

ing link of said respective arm, said shaft normally being disposed in an upper position with links of each pair of links broken and said arms extending upwardly and outwardly of said frame, said carton lid engaging plate out of alignment with said carton support, power means carried by said frame connected to said shaft and being operable to move said shaft downwardly to pivot said actuating links into horizontal alignment thereby pivoting said arms to vertical positions with said carton engaging plates, overlying said carton support, stop means carried by one link of each of said pairs of links engageable with the other link of each of said pairs of links to limit pivoting of said links to horizontal positions, said power means being further operable to move said shaft, said links, said arms and said carton lid engaging plates downwardly as a unit on said pivot pins against the resistance of said springs.

**2,714,793**  
**COTTON PICKING MACHINE**  
 Georg Renken, Corpus Christi, Tex.  
 Application May 14, 1952, Serial No. 287,682  
 3 Claims. (Cl. 56-33)

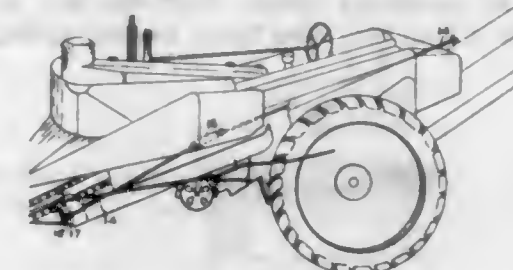


1. A cotton picking machine comprising a housing member adapted to be propelled over a cotton field and including forward and rear walls having registering openings therein to permit the housing to straddle and pass over cotton plants, an upper pair of spaced parallel horizontal shafts rotatably supported by said walls, a lower pair of spaced parallel horizontal shafts also rotatably supported on said walls, a first group of horizontally spaced vertically disposed endless picker elements engaged over one of the upper shafts and one of the lower shafts, a second group of horizontally spaced vertically disposed endless picker elements engaged over the remaining upper and lower shafts, said housing member being composed of two separable halves which are separated along said openings, a horizontal support rod disposed perpendicular to the shafts and slidably supporting the halves, and means connected to the halves for selectively moving the halves toward and away from each other to space the elements of one group a predetermined distance from the elements of the other group.

**2,714,794**  
**ADJUSTABLE CORN PICKER ROLL**  
 Clarence Jarrard, Washington, Iowa  
 Application January 12, 1953, Serial No. 330,806  
 1 Claim. (Cl. 56-112)

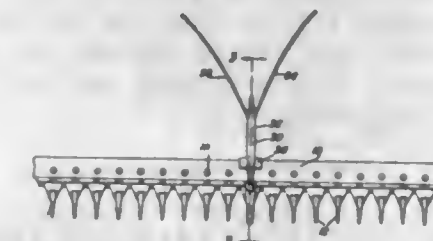
In a corn picker having both a fixed and a movable roll arranged as a cooperating pair, a screw affixed to said movable roll and being non-rotatable in relation thereto, a sleeve having a screw-threaded connection with said screw, a bevel gear secured to said sleeve for turning the sleeve, a second bevel gear meshing with the first bevel gear, an interrupted shaft on which the second bevel gear is mounted for turning the first bevel gear

and the sleeve, and a plate surrounding the sleeve and secured to a fixed metal plate the sleeve having a flange and the first named plate being recessed on the side toward the flange, the first named plate being provided



with a rim surrounding the flange of the sleeve, said rim being secured to the fixed metal plate to hold the sleeve fixed but rotatable to that part of the corn picker to which the metal plate is fixed, as the sleeve moves the screw.

**2,714,795**  
**SWATHER FOR RECIPROCATING CUTTER**  
 Thomas A. Clendenen, Nampa, Idaho  
 Application May 7, 1953, Serial No. 353,617  
 3 Claims. (Cl. 56-314)



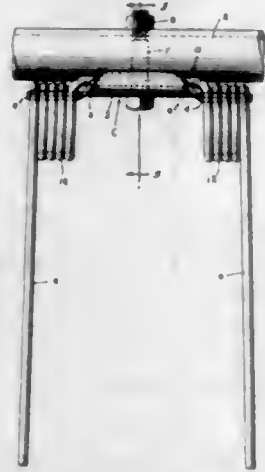
1. A swather for use in combination with a cutter bar having a plurality of forwardly extending teeth comprising a clip adapted to be seated on one of said teeth and a bar engaging member adjustably attached to said clip and secured to said cutter bar, said clip having an elongated slot therethrough, and a fastener extending through said bar engaging member extending through said slot, said bar engaging member having a recess opening to the rear thereof, a pair of foliage dividing arms attached to each other medial the forward and rearward diverging ends of said dividing arms, and means pivotally mounting said dividing arms in said recess, said forward ends of said dividing arms resiliently frictionally engaging said bar engaging member within said recess, said recess being defined by a pair of spaced vertical plates integrally formed as part of said bar engaging member.

**2,714,796**  
**SPRING TINE MOUNTING CLIP**  
 Eugene J. Haupt, Lancaster, and James W. McDuffie, New Holland, Pa., assignors to The Sperry Corporation, New Holland, Pa., a corporation of Delaware  
 Application August 3, 1954, Serial No. 447,549  
 4 Claims. (Cl. 56-400)

1. A rake tine assembly comprising a generally cylindrical rigid rake bar, a mounting clip of integral metal construction and of generally rectangular configuration comprising a medial saddle and oppositely directed wings, said saddle and wings respectively being in alignment along a common longitudinal axis of symmetry disposed parallel to said rake bar, said saddle being curved arcuately toward said bar on opposite sides of and in a plane extending transversely to said axis about a radius smaller than the radius of curvature of said bar, and said wings respectively being curved away from said bar in a plane extending transversely to and on opposite sides of said axis, the opposed lateral edges of said mounting clip extending diagonally to said axis at the juncture between each wing and the medial saddle and serving to brace said wings against deflection about their juncture with the



saddle, a bolt disposed diametrically through said bar and through a point medially of the saddle along said axis, said bolt clamping the opposed lateral edges of said saddle against the bar to support the clip on said bar with its axis of symmetry spaced from the bar, in combination with a pair of rake tines having spring coils



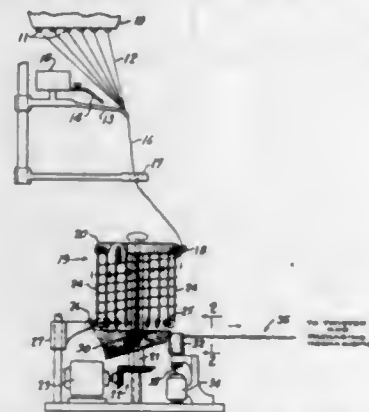
supported on and receiving the respective wings, a connecting portion extending generally parallel to said axis of symmetry between and integral with the respective coils, said connecting portion extending between the bar and saddle on one lateral side of the said bolt and being clampingly engaged by and between the bolt, the bar, and the saddle respectively.

2,714,797

#### METHOD OF AND APPARATUS FOR FORMING STAPLE CORDAGE

Warren Wendell Drummond, Anderson, S. C., and Philip J. Frickert, Hebron, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

Application December 4, 1953, Serial No. 396,137  
6 Claims. (Cl. 57-2)



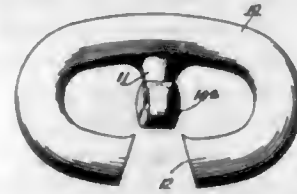
2. A method for forming staple cordage that comprises continuously forming a strand into a helix of uniform diameter, moving said helix along its axes, severing each turn of the helix at a certain point on a line parallel to the axis, grasping the nips of each of the loops of strand formed by completely severed turns of the helix, moving the nips and loops progressively along a path leading away from the helix oppositely from the severing point, and progressively twisting the loops together as they are moved along the path.

2,714,798

**METHOD FOR MANUFACTURING CHAIN**  
Charles D. Linnenbank, Chester, Pa., assignor to Baldt Anchor, Chain and Forge Division of the Boston Metals Company, Chester, Pa., a corporation of Maryland  
Application January 28, 1953, Serial No. 333,677  
7 Claims. (Cl. 59-35)

1. In the method for manufacturing chain, the steps which comprise; forming a link having an opening therein and an integral stud portion extending entirely across

said opening, severing one side of the link adjacent opposite sides of the junction of the stud portion with said one side of the link, displacing the severed portion of the link and the adjacent stud portion laterally with



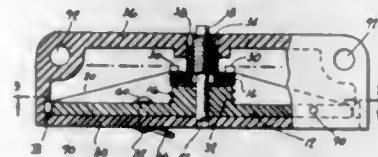
respect to the plane of the link to form an entrance through said one side of the link to the link opening, inserting at least one adjacent link into the link opening, and returning the severed portion of the link to the plane of the link in alignment with said one side of the link.

2,714,799

#### ELECTROTHERMAL ACTUATOR

Alfred Skrobisch, New York, N. Y., assignor to Allard Instrument Corp., New York, N. Y., a corporation of New York

Application January 16, 1952, Serial No. 266,747  
20 Claims. (Cl. 60-23)



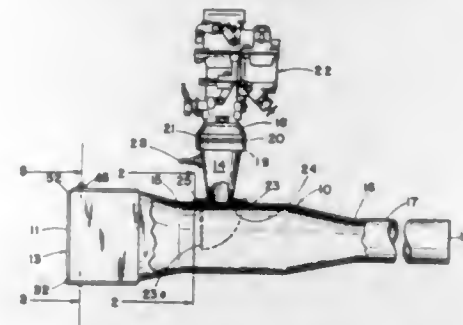
1. An electrothermal actuator comprising a base, a deck which is disposed above the base, a compression spring disposed between the base and deck for urging the deck away from the base, an operating pin disposed generally perpendicular to the base and deck and carried by the deck for movement in the direction of the axis of the pin, and resistance wire strung in bifilar relation between the base and the deck in order to resist the force of the spring, the back-and-forth strands of the bifilar resistance wire both extending between and being insulated from said base and said deck and serving to hold the deck against the force of the spring, and both lying approximately in a common plane disposed transversely of the pin.

2,714,800

#### GASOLINE AIR-HYDROPULSE

Calvin A. Gongwer, Azusa, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio

Application October 28, 1950, Serial No. 192,761  
7 Claims. (Cl. 60-35.6)



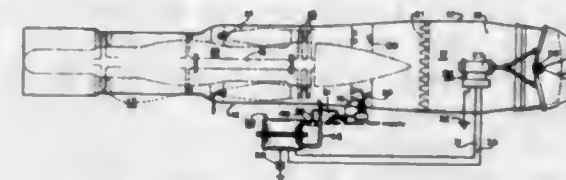
1. A jet propulsion device adapted for operation through water, comprising a duct having an inlet opening and an exhaust opening, an automatic pressure-operable inlet valve located within the duct for intermittently passing water entering the duct through the inlet opening in a downstream direction only, a fuel-air mixing carburetor having an outlet leading into a combustion chamber, an opening in the wall of the duct between said combustion chamber and the duct, a recess

in the inner wall of the duct adjacent said opening in the wall, a flap valve positioned at the last-mentioned opening and being hinged to the wall of the duct at the upstream end of the flap valve so that the downstream part of the flap valve moves into the duct when the valve opens, said flap valve when closed lying in continuity with the inside wall of the duct recess, and being capable of opening and admitting the products of combustion into the duct when the pressure within the chamber is greater than the pressure in the duct, and closing to prevent water from entering said combustion chamber from the duct when the pressure within the chamber is lower than the pressure within said duct, firing means located within said combustion chamber for igniting said fuel-air mixture, said duct constituting an expansion chamber in the region adjoining said flap valve, the energizing of said firing means causing pressurized gases to escape through the said flap valve into the said expansion chamber and forcing the mass of water within the duct towards the exhaust opening.

2,714,801

**VARIABLE AREA NOZZLE FOR A GAS TURBINE**  
Peter M. Sarles, Wilton, Conn., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 21, 1952, Serial No. 305,580  
5 Claims. (Cl. 60-35.6)



1. In power plant control equipment, a gas turbine having a discharge passage, an afterburner for receiving gases from said turbine discharge passage, variable area nozzle means for discharge of gases from the afterburner, electro-responsive nozzle controlling apparatus for closing and opening said nozzle means including a nozzle closing circuit and a nozzle opening circuit, switch means selectively operable to effect energization of either of said circuits, a casing having a reference pressure chamber and an operating pressure chamber, a movable abutment interposed between said chambers and operatively connected to said switch means for movement by a preponderance of reference pressure to effect energization of said nozzle closing circuit and for movement by a preponderance of operating pressure to effect energization of said nozzle opening circuit, a communication adapted to connect said reference pressure chamber to said turbine discharge passage, a normally open shut-off valve interposed in said communication, means for closing said shut-off valve to bottle up gas in said reference pressure chamber, and an always open communication connecting said operating pressure chamber to said turbine discharge passage.

2,714,802

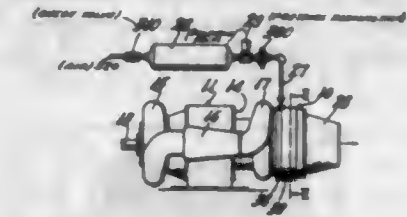
#### AIR STARTER FOR GAS TURBINE

Leon R. Wosika, San Diego, Calif., assignor to Solar Aircraft Company, San Diego, Calif., a corporation of California

Application October 25, 1948, Serial No. 56,320  
7 Claims. (Cl. 60-39.14)

6. In a gas turbine, a rotor having an annular series of rotor vanes, a stator having an annular series of stator vanes adjacent to said rotor vanes, means for supplying a working gas to the passages between said stator vanes for direction thereby against the rotor vanes, at least one of said stator vanes having an entrance side in the form of a radially directed tubular inlet, a discharge side in the form of a diagonally directed axially

opening discharge passage, and a connecting passage between said inlet and said discharge passage, a source



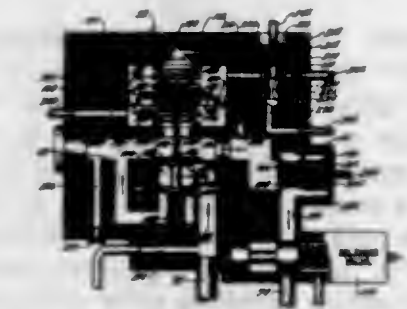
of auxiliary starting gas, and coupling means directly connecting said source with said tubular inlet.

2,714,803

#### FUEL METERING DEVICE FOR A TURBOJET ENGINE

Robert N. Abild, New Britain, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application November 18, 1950, Serial No. 196,414  
14 Claims. (Cl. 60-39.28)

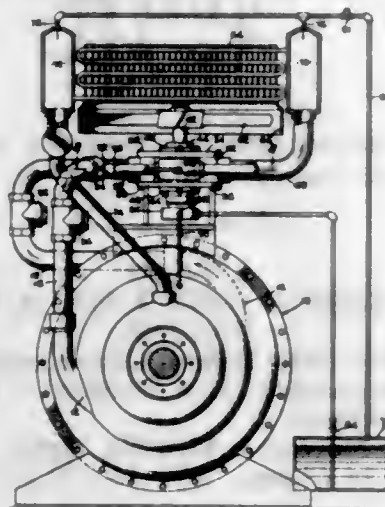


1. In combination, a housing having an orifice, a passage on the upstream side of said orifice, and a passage on the downstream side of said orifice, a valve for controlling a flow of fuel through said orifice, a valve seat in said housing for said valve, a spring mounted between said valve and housing for biasing said valve in a closing direction, said valve having a valve stem, a valve controlling mechanism, said mechanism being located in a cavity in said housing, and having a diaphragm fixed in said cavity forming two chambers, said valve stem being fixed at its free end to said diaphragm, a first bellows in one chamber fixed at one end to one end of said cavity and at its other end to the free end of said valve stem, a second bellows in the other chamber around said valve stem fixed at one end to one end of said cavity and at its other end to the free end of said valve stem, a passage connecting the interior of said first bellows to said last named passage, said housing having a hole connecting the interior of said second bellows to said first named passage, a passage connecting one chamber and the exterior of the first bellows to an operating pressure and a passage connecting one chamber and the exterior of the second bellows to an operating pressure.

7. In combination, a turbojet engine having a compressor, a turbine, an afterburner and an afterburner fuel meter, said fuel meter having a metering orifice, a passage upstream of said orifice, an outlet passage and valve means for controlling the fuel flow past said orifice, said means having a diaphragm fixed in a cavity in said fuel meter forming two chambers, a first bellows in one chamber fixed at one end to one end of said cavity and fixed at its other end to said diaphragm, a second bellows in the other chamber fixed at one end to one end of said cavity and fixed at its other end to said diaphragm, said fuel meter having a passage connecting the interior of said first bellows to said outlet passage, said housing having a hole connecting the interior of said second bellows to said passage upstream of said orifice, a passage connecting one chamber and the exterior of the first bellows to the discharge of the compressor and a passage connecting the other chamber and the exterior of the second bellows to the inlet of the compressor.

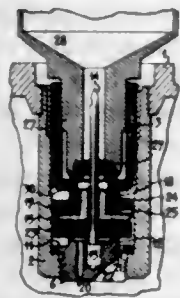


**2,714,804**  
**HYDROKINETIC TORQUE TRANSMITTER AND COOLING SYSTEM THEREFOR**  
 Charles M. O'Leary, Los Angeles, Calif.  
 Application August 3, 1951, Serial No. 240,178  
 6 Claims. (Cl. 60-54)



1. A torque transmitting device including a hydrokinetic torque converter having pump and turbine elements and containing operating fluid, a fluid outlet on said converter connected to a point in said converter where said operating fluid is discharged from said pump element at a relatively high pressure, a fluid circuit extending from said fluid outlet to a relatively low pressure region of said torque converter and an operating fluid cooling device including a fan drive motor operated by the flow of said operating fluid in said fluid circuit.

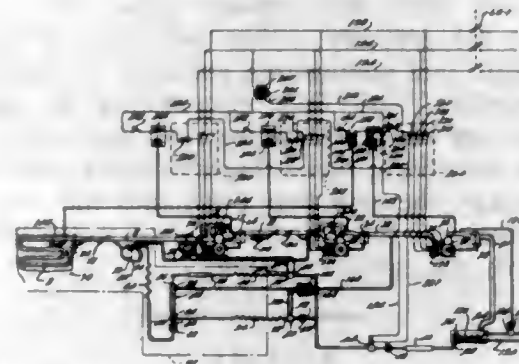
**2,714,805**  
**PYROPHORIC LIQUEFIED GAS LIGHTERS**  
 Conrad Jean Jacques Zellweger, Geneva, Switzerland, assignor to La Nationale S. A., Geneva, Switzerland, a company of Switzerland  
 Application March 3, 1954, Serial No. 413,875  
 Claims priority, application Switzerland January 30, 1954  
 10 Claims. (Cl. 62-1)



1. A pyrophoric lighter comprising a body member including walls defining a reservoir, a filling valve, comprising a hollow needle enabling the reservoir of the lighter to be connected to a filling vessel containing liquid gas under pressure, said valve comprising two parts movable one relatively to the other, one of said parts being stationary relatively to the body of the lighter and having a recess with which the second part engages and may occupy two positions, two passages forming communication between the said recess and the reservoir of the lighter, a closure member comprising at least a lining of flexible and resilient material, said closure member being located in said recess, said movable member in one of two positions compressing said closure member, whereby said two passages are closed, said movable part in a second position withdrawing said closure member so as to place in communication the hollow needle with the reservoir of the lighter by means of one of said passages and the said reservoir with the outside through the medium of the second passage, a rigid part interposed between the said movable part and the closure member, a stop member located in said recess for limiting the

movement of said rigid part towards the outside in the filling position and for preventing any retraction of said rigid part and thus of the closure member in the recess when separating the movable part from the fixed part of the lighter.

**2,714,806**  
**REFRIGERATING SYSTEM**  
 Hugh J. Scullen, Detroit, Mich.  
 Application December 12, 1951, Serial No. 261,313  
 18 Claims. (Cl. 62-4)

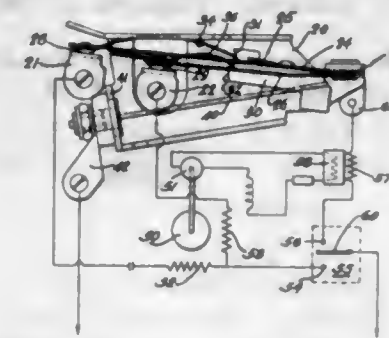


1. In a refrigerating system for cooling a space, an evaporator having an inlet and an outlet and arranged in heat exchange relation with such space, at least three refrigerant compressors each having a suction connection, and a discharge connection and a connection for returning lubricant thereto, a condenser for refrigerant having an inlet and an outlet means providing a first fluid flow passageway from said discharge connection of one of said compressors to said condenser inlet, means providing a second fluid flow passageway connecting said condenser outlet to said evaporator inlet, a third fluid flow passageway connecting said discharge connection of a second of said compressors to said first compressor suction connection, a fourth fluid flow passageway connecting said evaporator outlet with said suction connection of a third of said compressors, a fifth fluid flow passageway connecting said third compressor discharge connection to said second compressor suction connection, a plurality of lubricant separators individually connected with said discharge connection of said compressors, said separation having a lubricant return connection connected to said lubricant connection of the one of said compressors with which it is individually associated, said second passageway including three flow controlling devices arranged in series therein, means including said first said compressor for substantially eliminating flash gas formed as a consequence of flow of liquid refrigerant through a first of said devices, means including said first and said second compressors for substantially eliminating the flash gas formed as a consequence of flow of liquid refrigerant through a second of said devices, means responsive to the temperature of said space for controlling the operation of said first compressor, means responsive to an operating condition of said first compressor for controlling the operation of said second compressor, and means responsive to an operating condition of said second compressor for controlling the operation of said third compressor.

**2,714,807**  
**ELECTRIC CIRCUIT CONTROL**  
 Robert W. Leland and Krell E. Spres, Jr., Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
 Application January 30, 1952, Serial No. 269,054  
 3 Claims. (Cl. 62-4)

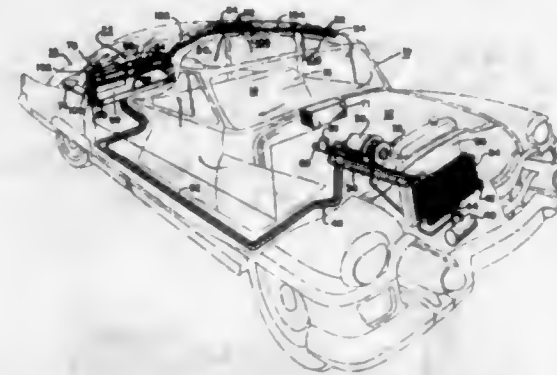
1. Control apparatus for an electric motor and a second electric work device to render the electric motor inactive in response to an overload on the motor or in response to activation of the second electric work device for

a delayed period after termination of activation of the second device, comprising in combination, an electric motor and a second electric work device for connection to a source of electric power, a controller switch consisting of cooperating contacts normally yieldably urged toward disengagement and thermal electric means operably connected therewith normally holding the contacts engaged and operative in response to predetermined current flow therethrough to effect contact disengagement for a predetermined time period with resultant inactivation of the motor, said electric motor being in circuit with said contacts and rendered ineffective upon opening of the contacts and in circuit with said thermal electric means to effect actuation thereof in response to current flow through the motor to effect opening of said contacts thereby to render the motor ineffective and



effect reclosing of the contacts a predetermined time interval thereafter to reenergize the motor, said second work device being in circuit with said thermal electric means only to effect actuation thereof in response to current flow through the second device to effect thereby opening of said contacts with resultant inactivation of the motor so long as said second device is active with subsequent closing of said contacts with resultant reactivation of said motor a predetermined time period after said device is rendered ineffective, and a selector switch operative to connect either said motor or said second work device with the source of power, said thermal electric means providing the sole means to effect a time lag for energization of the electric motor when the selector switch is actuated from the second work device activating position immediately into the motor activating position.

**2,714,808**  
**REFRIGERATING APPARATUS**  
 Webster J. Owen and John F. Gordon, Birmingham, and Philip W. Maurer, Dearborn, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
 Application December 26, 1952, Serial No. 328,008  
 14 Claims. (Cl. 62-4)



12. In combination, an automobile having a passenger compartment, a luggage compartment, and an engine compartment, seating means within said passenger compartment, an evaporator housing within said luggage compartment, a ledge behind said seating means overlying a portion of said luggage compartment, said ledge having a plurality of openings provided therein, means for connecting one of said openings to the inlet of said

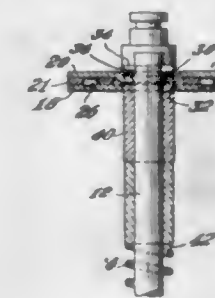
evaporator housing, means for connecting a second of said openings to the outlet of said evaporator housing, an air distributing duct extending along the side wall of said passenger compartment, a head rail adjacent the ceiling of said passenger compartment, and means for attaching said duct to said head rail, a head liner concealing said duct, and air outlet grills provided at spaced points along said air distributing duct, each of said air outlet grills having a first adjustable air deflector means mounted for pivotal movement about a horizontal axis for directing one portion of the air and having a second air deflector mounted for rotation.

**2,714,809**  
**WASHING MACHINE AGITATOR SHAFTS**  
 Otto J. Voss, Normandy, Mo., assignor to The Simmons National Bank, Pine Bluff, Ark., a corporation of the United States, as trustee  
 Application February 6, 1952, Serial No. 270,257  
 2 Claims. (Cl. 64-1)



1. A composite shaft for an agitator comprising, an elongate body of steel having a non-circular exterior surface extending from one end thereof for a substantial distance axially and therebeyond a circular exterior surface, a part of zinc alloy die cast directly on said non-circular surface of the steel body and interfitted therewith to prevent relative rotational movement between said die-cast part and said body, said die-cast part having a non-circular exterior surface for interfitting with a member to be driven in rotation thereby without relative movement thereof, and an integral apron extending outwardly from said die-cast part and in radially spaced axially parallel relationship with the circular surface of said body.

**2,714,810**  
**WINDSHIELD WIPER MECHANISM**  
 Louis Zalger, Swampscott, and Robert I. Lappin, Marblehead, Mass.  
 Application May 27, 1952, Serial No. 290,264  
 1 Claim. (Cl. 64-29)



In a power operated wiper mechanism, a driven shaft, a wiper operating arm having a hole through it for accommodation of the shaft, a diametrical depression in one side of the arm and a corresponding rib protruding from the opposite side thereof, and means operably connecting the drive shaft and the arm comprising a pin fast to the shaft at the side of the arm having the depression therein, with its ends extending diametrically therefrom for engagement with the depression, a sleeve



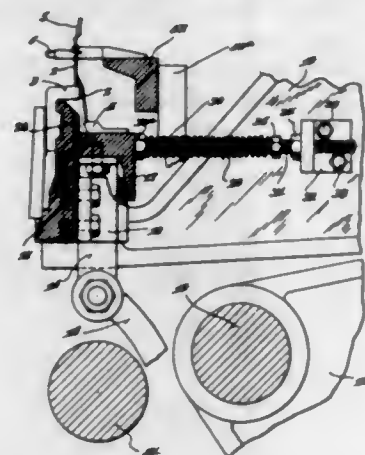
on the shaft at the opposite side of the arm slidable axially on the shaft, said sleeve having a diametrical depression at one end with which the rib on the arm is engaged, a fixed shoulder on the shaft spaced from the sleeve and a partially compressed coiled spring on the shaft with its ends bearing respectively against the other end of the sleeve and the shoulder.

2,714,811

# KNITTING MACHINE NEEDLE STRUCTURE AND OPERATING MEANS THEREFOR

Roy C. Amidon, Jackson, Ala., assignor to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania

Application September 18, 1952, Serial No. 310,345  
15 Claims. (Cl. 66—86)



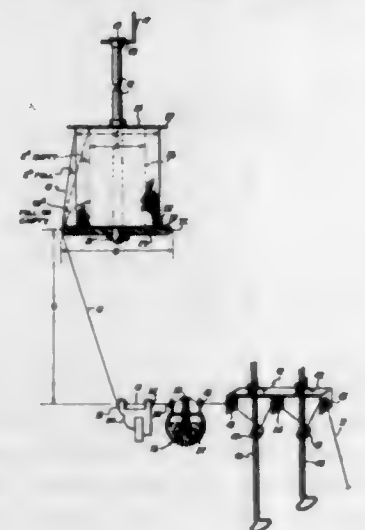
2. In a knitting mechanism of the character described the combination with yarn guides and sinkers arranged for operation through a knitting cycle; of a needle structure comprising a pair of complementary elements adapted to be cooperatively moved longitudinally relative to each other during their loop forming operation; a separate mounting unit for each of said elements one of which units is slidably guided on the other of said units; means for effecting sliding movement of one of said units relative to the other during the knitting cycle; and means for maintaining a predetermined lateral pressure on the unit which carries out said sliding movement.

2,714,812

# METHOD OF CONTROLLING WILDNESS OF TWISTED YARN DURING DELIVERY TO A KNITTING OPERATION

William J. Leath, Charlotte, N. C., and Frank E. Bobo, Jr., Gainesville, Ga.

Application April 22, 1955, Serial No. 503,070  
4 Claims. (Cl. 66—146)



1. A method of controlling the wildness of twisted synthetic yarn during delivery of the yarn to a knitting operation, comprising: winding the twisted yarn on a

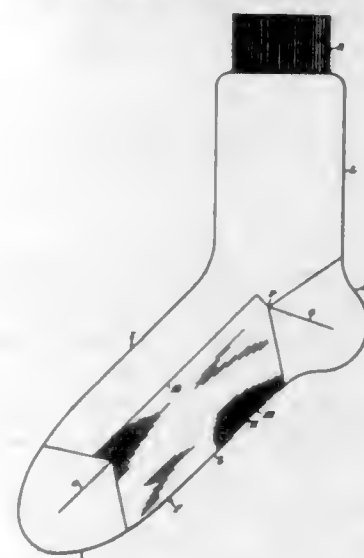
yarn carrier to a fullness not substantially in excess of about one and one-half times the mean diameter of the empty yarn carrier, and unwinding the yarn from said yarn carrier by training said yarn over and around a contact surface spaced laterally from the axis of said carrier at one end thereof so that the yarn as continuously withdrawn over said contact surface describes a circle concentric with the axis of said yarn carrier and said contact surface having a diameter of approximately twice the mean diameter of said yarn carrier when empty.

2,714,813

# KNITTED ARTICLE AND METHOD OF MAKING SAME

Roscoe Hill, Aldershot, Ontario, Canada, assignor, by mesne assignments, to The Bentley Engineering Company Limited, Leicester, England, a corporation of Great Britain

Application April 5, 1952, Serial No. 280,801  
22 Claims. (Cl. 66—178)



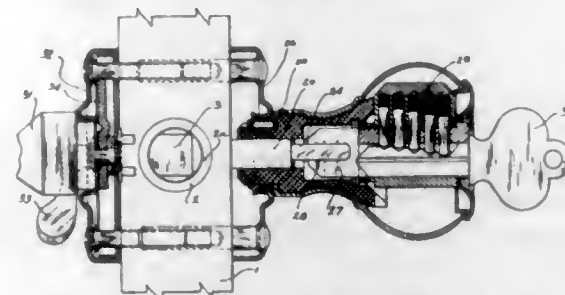
1. In an article of hosiery, a seamless circular knit leg portion and a foot comprising integral reciprocatorily knit heel and toe pockets and an intervening seamless circular section the upper portion of which constitutes an instep portion and the under portion of which constitutes a sole portion, said sole portion comprising an outer fabric formed of successive courses of outwardly facing stitches of a first yarn and a separate inner fabric formed of successive courses of inwardly facing stitches of a second yarn, said first and second yarns being inter-knit with one another at the opposite ends of said sole portion and also along the opposite sides of the sole portion to join the said two fabrics together and the instep portion being formed of a single layer fabric.

2,714,814

# SCREEN AND STORM DOOR LOCK

Elwood F. Shaffer, Reading, Pa., assignor to Earle Hardware Manufacturing Company, Reading, Pa., a corporation of Pennsylvania

Application January 29, 1953, Serial No. 333,905  
1 Claim. (Cl. 70—146)



A lock assembly particularly adaptable to screen and storm doors, comprising an outside knob containing a cylinder lock therein and operable by inserting a key

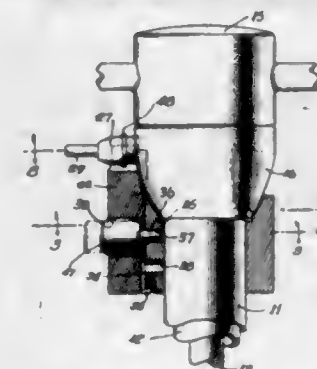
in the lock, an inside handle, and a main spindle operable by turning of said knob or of said inside handle, locking means adjacent said inside handle for locking said spindle against rotation, a latch bolt having a diametrical opening through which said spindle extends and having a substantially V-shaped cam seated in a correspondingly shaped intermediate trough portion of said spindle so as to effect longitudinal movement of the bolt by rotation of the spindle in either direction, and a secondary spindle having a rounded free end pivotally mounted at said free end for rotation in a socket portion of said spindle at one end of said trough portion so that said secondary spindle will rotate about substantially the same longitudinal axis as said main spindle, said secondary spindle having radially outwardly offset cam operating portion confronting said trough shaped portion and having a stem extending through a longitudinal bore in an end portion of said main spindle engaging with said cylinder lock, whereby upon locking of said main spindle by said inside locking means the secondary spindle may be freely rotated to engage said cam and effect unlatching by the turning of a key within said outside knob.

2,714,815

# TRANSMISSION LOCK

Carl E. Nordstrom, Evanston, Ill.

Application June 18, 1953, Serial No. 362,469  
4 Claims. (Cl. 70—211)



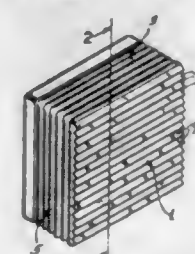
1. In combination with a supporting body which is comprised of a first clamping member having a semi-cylindrical concavity, a second member having a similar concavity, said concavities comprising a relatively smaller diameter portion for binding embracement of an automobile steering column and a contoured relatively larger diameter portion for marginally clearing a shift control collar at the head of the column, of a shifting lever fettering bar which comprises a track portion slidable in a longitudinal channel formed in said body, and a yoke portion for straddling the shifting lever, said yoke portion being concavely profiled on its inner surface to conform with the curvature continuation of the shift control collar.

2,714,816

# BUILDING WALL UNIT FOR AN OPAQUE AND TRANSLUCENT CORRUGATION SURFACE

Ford Pennell, Webster Groves, Mo., assignor to Jane Booth Pennell, Webster Groves, Mo.

Application June 27, 1949, Serial No. 101,535  
7 Claims. (Cl. 72—41)



1. An integral hollow glass block for a building wall, having an exterior top face, an exterior base upon which

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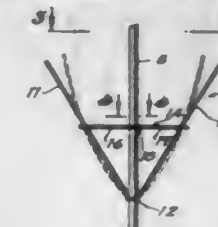
the block and its load may be stably supported, and upright exterior side faces and end faces, one of said side faces having corrugations running substantially parallel to the base, alternate corrugation surfaces facing generally away from the block body and toward the plane of the top face of the block and being substantially opaque, and the other corrugation surfaces facing generally away from the block body and toward the plane of the base and being translucent, all of said surfaces being substantially planar and at angles of at least 25° to said planes, the angle between opposing surfaces of successive corrugations being less than 120°.

2,714,817

# SPACER

Thomas William Griffiths, Alhambra, Calif.

Application July 14, 1947, Serial No. 760,871  
4 Claims. (Cl. 72—122)



1. A spacer for accurately positioning a reinforcing rod in chosen position in an elongated void to be filled with concrete, comprising two spaced and axially aligned snap-on clips adapted to grip a reinforcing rod, and two wing members each with a flexible void-wall-engaging portion, and joining both of the spaced clips, one wing member on one side of each clip and the other wing member on the opposite side of each clip, to hold the clips a fixed distance apart, said wing members, each consisting of two arms one of which extends at an acute angle to the centerline of the spacer, extending radially in opposite directions from the centerline of the aligned clips, so that the rod and both wing members lie in substantially the same plane, whereby a rod with a number of such spacers attached thereto may readily be inserted in a void whose diameter or greatest cross sectional dimension is less than the distance between the wall-engaging portions of the wing members, and so that the reinforcing rod is held in a selected location, usually centrally of the void.

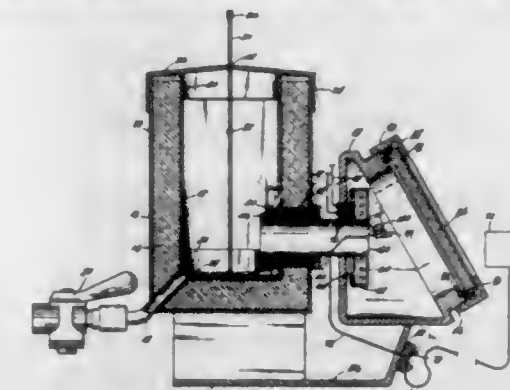
2,714,818

# DEW POINT INDICATOR

Abraham Donsky, Philadelphia, Pa., Henry Naubereit, Maple Shade, N. J., and Morris Paulovich, Malvern, Pa.

Application January 27, 1953, Serial No. 333,627  
4 Claims. (Cl. 73—17)

(Granted under Title 35, U. S. Code (1952), sec. 266)

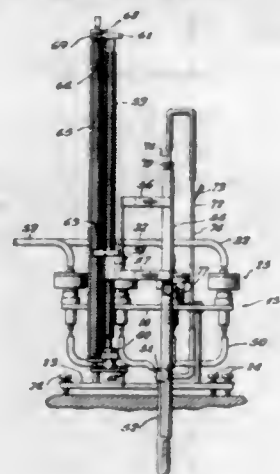


1. A dew point indicator comprising a casing having a chamber therein for holding refrigerant material, a substantially flat diaphragm connected to said casing, a first portion of one face of said diaphragm being in fluid communication with said chamber and a second portion of said one face of said diaphragm being blocked from fluid communication with said chamber, and a heating



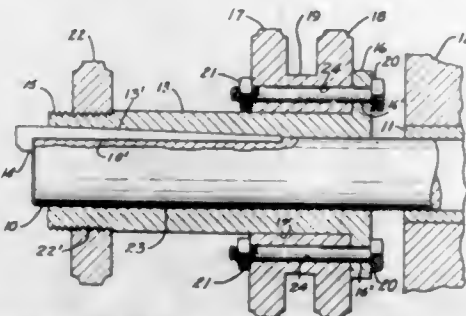
means connected to said casing, said heating means being positioned adjacent said second portion of said one face of said diaphragm and remote from said first portion of said one face of said diaphragm.

**2,714,819**  
**MULTITUBE AVERAGE VELOCITY MANOMETER**  
George B. Clark, Urbana, Ill.  
Application June 13, 1952, Serial No. 293,362  
13 Claims. (Cl. 73-212)



1. In a fluid velocity measuring instrument having a plurality of means positioned in the path of fluid flow each adapted to transmit pressure as a function of the velocity of fluid flow thereat; means for averaging the velocity of said flow comprising a plurality of containers having liquid therein at a common liquid level, with each of the containers being connected to a different one of the pressure transmitting means to subject the liquid therein to said pressure and thereby to displace liquid from said containers, with each container being shaped to cause the displacement of liquid therefrom in volumes which are a power of the pressures transmitted thereto; a receptacle in liquid communication with each of said containers to receive liquid in a volume equal to the total amount of liquid so displaced; means for vertically adjusting the receptacle; and indexing means associated with said receptacle and said containers to provide a reference for adjusting said receptacle to equalize the level of the liquid in said containers and the receptacle before and in said receptacle after liquid is displaced from the containers by said pressure.

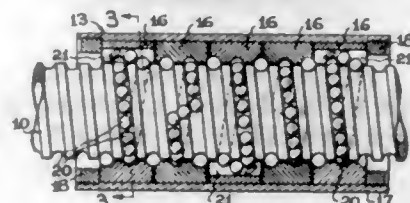
**2,714,820**  
**SPROCKET ASSEMBLY**  
Glen Chamberlain, Wichita, Kans.  
Application January 24, 1952, Serial No. 268,014  
1 Claim. (Cl. 74-243)



The combination with a shaft having a keyway therein of a demountable sprocket assembly mounted on said shaft for rotation therewith comprising; an elongated sleeve type hub, said hub having a central longitudinal bore extending therethrough of a diameter sufficient to permit said hub to be mounted on said shaft, a flange integrally formed on one end of said hub and extending outwardly therefrom perpendicular to the axis of said bore, said hub having a keyway formed therein, a wedge shaped key engaged in said keyways to secure said hub

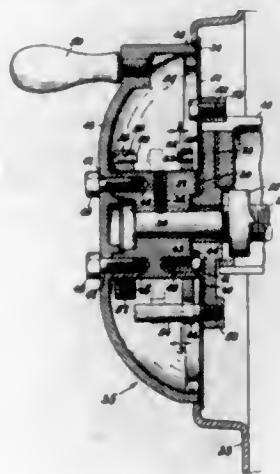
to said shaft, an external thread formed on the free end of said hub opposite to said flange, a first sprocket positioned on said hub and against said flange, means passing through said first sprocket and said flange detachably securing said sprocket to said flange, and a second sprocket provided with an internally screw threaded bore engaged with the external threads on said free end of said hub, said screw threads on said hub and said second sprocket being formed to cause said second sprocket to be tightly secured to said shaft when said second sprocket is driven in one direction, said first sprocket having a bore sufficiently large to permit said first sprocket to be readily moved over said threaded end whereby said sprocket may be removed from said hub without removing said hub from said shaft.

**2,714,821**  
**DEFLECTOR PIN CONSTRUCTION FOR BALL-BEARING SCREW AND NUT MECHANISM**  
Harry Orner, Altadena, Calif.  
Application June 4, 1954, Serial No. 434,541  
9 Claims. (Cl. 74-459)



1. A ball bearing screw and nut mechanism, comprising a screw having an external helical groove, a nut formed with a corresponding internal helical groove, said grooves mating with each other to form a helical ball race, a plurality of balls mounted in a single turn of said race, a conduit formed generally longitudinally in said nut at the ends of said single turn, said conduit being open, at least at its ends, to said ends of said single turn, and two pairs of deflector pins mounted in said nut at said conduit one pair opposite each end of said single turn, one pin of each of said pairs being disposed to elevate said balls out of said groove in said screw, the other pin of each of said pairs being disposed to be contacted by said balls along a substantial proportion of its length and to guide said balls through said conduit from one end of said single turn to the other end thereof.

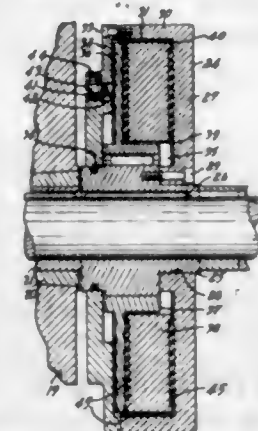
**2,714,822**  
**SEALABLE ADJUSTABLE STOP FOR SANITARY VARIABLE SPEED TRANSMISSION**  
Paul B. Reeves, Columbus, Ind., assignor, by mesne assignments, to Reliance Electric and Engineering Company, Cleveland, Ohio, a corporation of Ohio  
Application May 9, 1951, Serial No. 225,386  
5 Claims. (Cl. 74-509)



1. In a device of the class described, a shaft, and a self-contained, limit-stop hand wheel assembly mounted on said shaft, said assembly comprising a domed hand

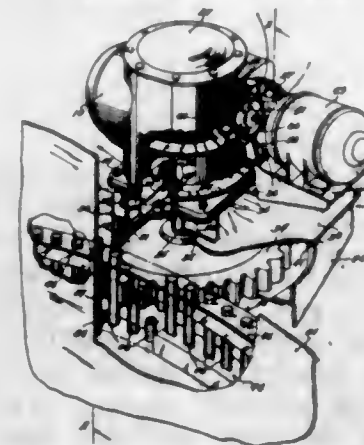
wheel element, an externally threaded hollow hub coaxially secured to said hand wheel element and housed therewithin, a stop element mounted for axial adjustment relative to said hub, a nut threadably mounted on said hub, means for restraining said nut against rotation, said hub being sleeved on said shaft, and means fixing said hub to rotate with said shaft.

**2,714,823**  
**VIBRATION DAMPER**  
Albert H. Dall and Robert R. Adams, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio  
Application October 5, 1951, Serial No. 249,844  
4 Claims. (Cl. 74-574)



1. A vibration dampening mechanism for a rotatable member subject to lateral torsional vibration comprising a cylindrical housing having a central hub portion, spaced side walls and a cylindrical wall circumscribing said side walls forming a closed chamber, means for connecting said hub portion to said rotatable member for rotation therewith and response to lateral and torsional vibration thereof, a disc mounted within said chamber having a hub slidably splined on said central hub portion for rotation therewith but axial movement relative thereto, an annular weight having flat side walls mounted within said chamber between said disc and one side wall and surrounding the hub of said disc with lost motion clearance, resilient means acting on said disc to squeeze the weight against the side wall of said chamber to develop a frictional force against both sides of said weight to retard floating of said weight within said chamber both radially and circumferentially and thereby dampen lateral or torsional vibration during rotation of said rotatable member.

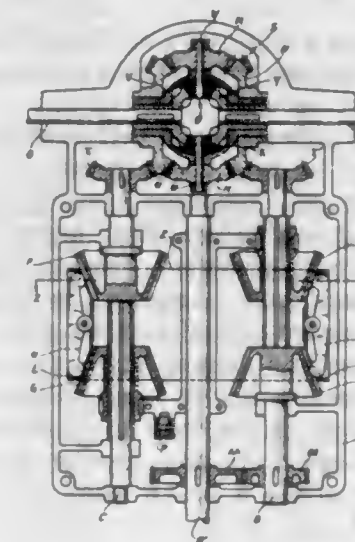
**2,714,824**  
**AIR COOLED POWER TRANSMISSION**  
Walter P. Schmitter, Wauwatosa, Wis., assignor to The Falk Corporation, Milwaukee, Wis.  
Application June 25, 1952, Serial No. 295,487  
7 Claims. (Cl. 74-606)



1. In an air cooled power transmission the combination with a casing forming a housing for said transmission and a mounting means for said casing, said transmis-

sion including a driving shaft, a driven shaft, speed reducing gearing between said driving and driven shafts, said casing including an impeller housing cavity surrounding said driving shaft, air inlet means in open communication with said impeller housing cavity, an air conducting channel in said casing having one end thereof in open communication with said impeller housing cavity and its other end terminating in an exhaust passage surrounding said driven shaft and remote from said impeller housing cavity and disposed adjacent said mounting means, an impeller housed in said cavity and driven by said driving shaft for circulating air at high velocity through said air conducting channel to reduce the operating temperature of said transmission and exhaust on said mounting means to cool the same.

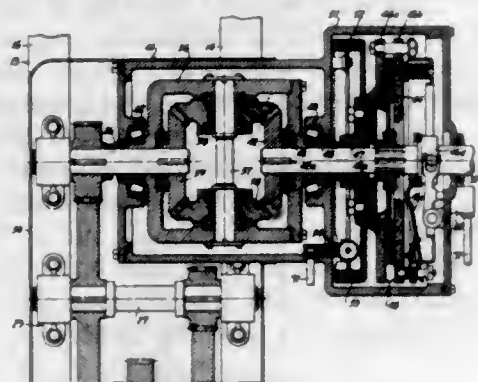
**2,714,825**  
**PROGRESSIVE SPEED CONTROL**  
Lorenzo Ferrari, Genoa, Italy  
Application March 13, 1952, Serial No. 276,349  
1 Claim. (Cl. 74-689)



In a stepless variable transmission having a casing, a driving shaft and a driven shaft journaled therein, in combination, gear means between said shafts comprising a first driving gear fixed on said driving shaft and a second driving gear connected for turning with said driving shaft and being axially shiftable thereon, a first driven gear fixed on said driven shaft and a second driven gear connected for turning with said driven shaft and being axially shiftable thereon, each gear of a shaft being tapered in direction towards the opposite gear of the same shaft, each tooth of the first gear being disposed opposite a groove of the second gear on the same shaft, means for shifting said second gears, an endless flexible carrier surrounding said two shafts and including a series of elements operable for engaging simultaneously the two gears of a shaft in all positions of the second gear thereof, whereby both gears of each shaft will be engaged by elements for transmission of rotation between said shafts, a bevelled pinion secured on each shaft, a first differential mechanism including two bevel gears at an angle to said pinions, each bevel gear including two oppositely disposed rows of bevelled gear teeth, one row of gear teeth of each bevel gear being in mesh with a bevelled pinion, and primary planetary gears in mesh with the opposite rows of said bevel gears, and a second differential mechanism including a housing having on its interior secondary planetary gear elements, said primary planetary gears being journaled externally on said housing.



**2,714,826**  
**SELF-PROPELLED VEHICLE TRANSMISSION**  
 Lenus E. Jasper, Orland, Calif.  
 Application August 15, 1949, Serial No. 110,410  
 1 Claim. (Cl. 74-780)

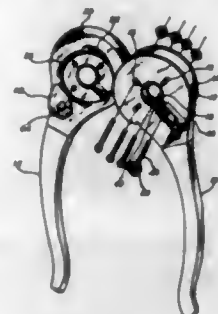


A power transmission assembly, said assembly being adapted for use with a tractor of the track laying type for use in rice fields wherein the tractor has a motor mounted between the tracks serving to drive the tracks through a gear assembly disposed to the rear of the motor and through drive shafts extending laterally of the tracks from the gear assembly, each track having a gear train associated with the same adapted to be driven by the corresponding drive shaft; said power transmission assembly comprising a stationary enclosed housing, a driven shaft journaled in one end of said housing and adapted to be connected to said gear train, a driving shaft journaled in the other end of said housing and adapted to be connected to said drive shaft, a rotatable cage journaled within said stationary housing and having said driving shaft and said driven shaft journaled in the opposite ends thereof, planetary gearing mounted within said rotatable cage and connected to said driving and driven shafts, a sleeve extending from said rotatable cage and journaled on said driving shaft, said brake mechanism comprising a brake drum fixed to said hub, an expansible brake shoe attached to said stationary housing and disposed within said drum and adapted to engage said drum, a clutch mechanism in said stationary housing operable to cause said driven shaft to be driven in the same direction as said driving shaft, said clutch mechanism comprising a driving clutch member splined to said driving shaft, a pair of opposed clutch faces fixed to said driving clutch member, a first driven clutch member attached to said hub and adapted to engage one of said faces, said hub serving as a common mounting for said brake drum and said first driven clutch member, a second driven clutch member adapted to engage the other of said faces, means for attaching said second driven clutch member to said first driven clutch member to prevent rotational movement of said second driven clutch member with respect to said first driven clutch member, and to permit longitudinal movement of said second driven clutch member axially of the driving shaft to cause said first and second driven clutch members to engage said driving clutch member, an actuator connected to said brake mechanism for operating the same, and a second actuator connected to said clutch mechanism for actuating the same.

**2,714,827**  
**CAM ACTUATED CRIMPING PLIERS**  
 Daniel B. Kusiv, Cranford, and Frederick G. Roberts, Bloomfield, N. J., assignors to Buchanan Electrical Products Corporation, Hillside, N. J., a corporation of New Jersey  
 Application August 15, 1952, Serial No. 304,528  
 1 Claim. (Cl. 81-15)

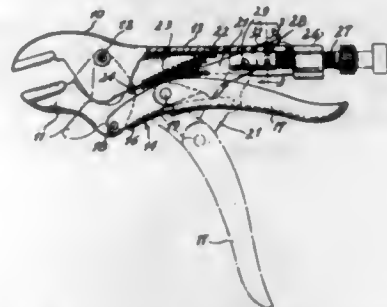
A tool for crimping an electrical connector comprising a tubular body having an open end and a closed end onto

an electrical conductor, said tool comprising a cylindrical die holder having an axial bore providing an opening through said die holder, a cylindrical outer surface, two flat end surfaces, a recess in one of said flat end surfaces extending radially outwardly from said bore and a plurality of ports extending radially from said bore to the cylindrical outer surface, crimping dies in said ports and having end portions extending outwardly of said cylindrical outer surface, means biasing said dies outwardly of said die holder, first and second relatively turnable members, said first member having an aperture therethrough having cam surfaces about its periphery, said second member including first and second wing portions having a pair of aligned openings therethrough, said die holder being in said aperture with said cam surfaces engaging the outwardly extending end portions of said dies, such wing



portions embracing and being rigidly attached to said die holder with said first wing portion overlying one flat end surface and said second wing portion overlying the other flat end surface, so that relative turning movement of said members in one direction will cause said dies to move into said die holder bore against the action of said biasing means, turning means for said turnable members, and a movable latch member mounted on said first wing portion and including an end portion which lies within said die holder bore when said latch member is in a first position and within said recess when said latch member is in a second position, and a portion on the outer side of said first wing portion adapted to be grasped to move said latch member, so that when in said first position the end portion of said latch member provides a stop adapted to position said connector in said die holder bore.

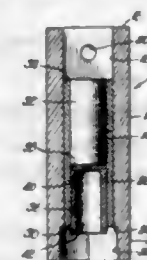
**2,714,828**  
**JAW-ADJUSTING MEANS FOR TOGGLE-ACTUATED PIVOTED JAW WRENCH**  
 Harry E. Britton, Sandwich, Ill., assignor to Metal Engineering Company, Plano, Ill., a corporation of Illinois  
 Application November 19, 1953, Serial No. 393,064  
 3 Claims. (Cl. 81-84)



1. In a wrench of the type having an elongated channel shaped handle portion provided with a stationary jaw at the forward end thereof, a movable jaw mounted on said handle portion and arranged to cooperate with the stationary jaw to grip an article, a toggle for operating the movable jaw comprising an operating lever pivotally engaged at the forward end thereof to the movable jaw and a toggle link pivotally engaged at the ends to the handle portion and said operating lever intermediate the ends thereof, the operating lever extending longitudinally adjacent the handle portion in spaced relation thereto and arranged to be squeezed by a hand engaging

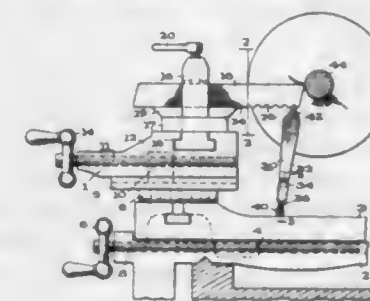
the handle portion and lever to lock the toggle, the handle portion having a lug engaged by one end of a spring, the opposite end of said spring engaging the movable jaw, the improvement which comprises means for adjusting the pivotal connection of the toggle link longitudinally of the handle portion comprising a longitudinally movable screw at the rear end of the handle portion, a slide member carried within said channel shaped handle portion and pivotally connected at one end to said toggle link, the opposite end of said slide member abutting the inner end of said screw, said slide member being movable longitudinally by rotation of said screw, said channel shaped handle portion having a longitudinal slot therein, and a headed member passing through said slot and secured to said slide member for retaining the same within said handle portion while permitting longitudinal sliding movement thereof.

**2,714,829**  
**MAGNETIC WRENCH HAVING ITS MAGNET INWARDLY SPACED FROM ITS NUT-ENGAGING SOCKET BY A HOLLOW MAGNETIC SLEEVE**  
 Frederick G. Clark, Buffalo, N. Y., assignor of one-half to Wade Stevenson, Buffalo, N. Y.  
 Application October 6, 1954, Serial No. 460,675  
 5 Claims. (Cl. 81-125)



5. In a bolt clearance socket wrench having a shank with an opening in one end thereof adapted to receive a nut in driving relation, the combination of a non-magnetic sleeve, a magnet at least partially encompassed by said sleeve, and a magnet extension piece with an opening therein adapted to receive a bolt onto which said nut is driven, said extension piece having one end disposed in association with said magnet with the opposite end extending into the opening in said shank.

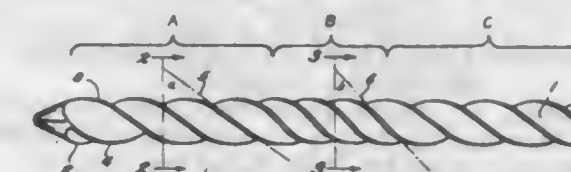
**2,714,830**  
**AUXILIARY TOOL SUPPORT**  
 Clarence C. Chelf, Lebanon, Ky.  
 Application June 10, 1953, Serial No. 360,764  
 2 Claims. (Cl. 82-37)



1. In a lathe having a carriage with a horizontally and transversely moving cross feed member mounted thereon, and an adjustable compound carried by said cross feed member, and a vertical tool post on the compound adapted to receive and hold a cutting tool: the combination comprising a cutting tool mounted in the tool post and having a plurality of recesses arranged along the lower edge thereof adjacent the cutting end; an auxiliary tool support having an upper portion formed to fit selectively into any of the recesses and having a width that permits it to follow the tool into a cut, and a base member threadably mounted in the lower end of the upper por-

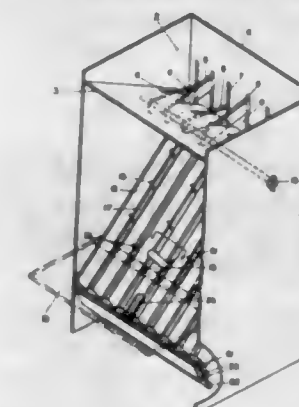
tion for adjusting the overall length of the tool support, whereby the upper portion fitting into a selected one of the recesses in the tool firmly positions the upper end of the auxiliary support therein when the auxiliary support is inclined from normal to the axis of tool advance, the base member being adjusted so that it seats on the surface of the cross feed member whereby longitudinal movement of the tool will swing the auxiliary support toward the normal to the said tool axis to increase the firmness of supporting action with respect to the tool and thereby prevent springing and consequent chattering of the tool in use.

**2,714,831**  
**THREADED LOCKING DOWEL**  
 Philip de Anguera, Cincinnati, Ohio, assignor to Graham Tie Dowel Service Company, Columbus, Ohio, a corporation of Ohio  
 Application January 23, 1952, Serial No. 267,774  
 1 Claim. (Cl. 85-20)



A dowel to be driven into a timber consisting of a straight shank having a plurality of continuous, spiral ridges formed therearound from end-to-end, and having the same major diameter throughout its length, the said spiral ridges having an identical, overall lead at the leading and trailing end portions of the shank and of a degree to permit the said end portions of the dowel to positively rotate the dowel as it is being driven axially into the timber, the said spiral ridges at the leading and trailing end portions being mismatched to form individual spiral tracks in the timber, the intermediate portion of the said ridges having a uniform lead less than the ridge portions on the said ends of the shank, whereby as the dowel is driven into the timber the timber body portion is compressed by the leading and intermediate portions of the dowel and the trailing portion cooperates with the leading portion to hold the timber body portion in compression after the dowel is driven to its set position in the timber.

**2,714,832**  
**ARTICLE SORTING AND DELIVERY MACHINE**  
 John B. Seed, West Kilbride, and George E. Cassie, Ayr, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain  
 Application September 19, 1949, Serial No. 116,592  
 Claims priority, application Great Britain October 4, 1948  
 3 Claims. (Cl. 86-45)



1. A machine adapted for delivering in an intermittent manner at least one row at a time of articles of relatively greater length than width and of substantially straight longitudinal axis, the longitudinal axes of the articles in any one row aligned substantially parallel to one another comprising a gravity chute for receiving a feed of said articles, the inclined surface of said chute

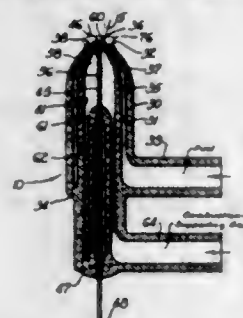


being provided with a plurality of substantially parallel grooves running from top to bottom and separated by ridges therebetween, said grooves being of a width to permit only one line of articles to lie therein, the distance between the peak of every other ridge being greater and the distance between consecutive ridge peaks being less than the length of said articles, a reject apron positioned between the top and bottom ends of said chute with an edge thereof extending laterally across the ridges in said chute, every other ridge peak being provided with an upstanding alignment member extending from the top edge of said reject apron and terminating at a point adjacent the top of said gravity chute and each of the remaining intermediate ridge peaks being provided with a short upstanding article ramp member communicating with the top edge of said reject apron, the bottom surface of said apron being at a distance from the bottom of said grooves only slightly greater than the height of said articles.

2,714,833

### BURNER STRUCTURE FOR PRODUCING SPECTRAL FLAMES

Paul T. Gilbert, Jr., South Pasadena, Calif., assignor to Beckman Instruments, Inc., a corporation of California  
Application April 19, 1950, Serial No. 156,911  
17 Claims. (Cl. 88-14)



7. In apparatus for use in spectrophotometric analysis, a burner assembly comprising; means defining a generally annular first orifice on one side of said assembly; means for conducting a fuel gas under pressure to said orifice; means defining a second orifice substantially centrally concentric to said first orifice and on the same side of said assembly; means for conducting a combustion-supporting gas under pressure to said second orifice; and an aspirator tube having a capillary passageway therethrough, said tube extending through said burner assembly with an open end of said passageway positioned substantially centrally of said second orifice and so arranged that the venturi effect of gas issuing from said second orifice and past the open end of said tube aspirates and entrains fluid from said tube, the other end of said tube being open and projecting a substantial distance from the other side of said assembly whereby the said other end of said tube may be selectively positioned in a liquid sample to be aspirated therethrough for analysis.

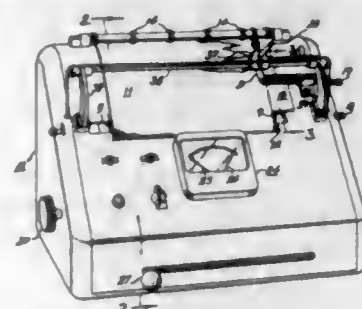
2,714,834

### RECORDING DENSITOMETER

Edward B. Patterson, Colwick, Merchantville, and Robert J. Dalton, Haddonfield, N. J., assignors to Arthur H. Thomas Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application March 11, 1954, Serial No. 415,578  
3 Claims. (Cl. 88-14)

1. In a recording densitometer for a test strip having variable translucency along its length, a casing, a single drive means for advancing a recording sheet and said test strip concurrently at corresponding rates in predetermined paths on said casing, a stylus for marking the recording sheet, means mounting said stylus for movement in a direction transversely of the path of travel of said recording sheet and in engagement therewith, means defining an opening in said casing underlying the

path of travel of said test strip, a light source confronting said opening at one side of the path of travel of said test strip, light-sensitive means confronting said opening at the opposite side of the path of travel of said test strip and energizable by said light source in response to the intensity of light passing through said test strip, indicating means mounted on said casing and having a member movable in response to the energization of said light-sensitive means to a position indicative

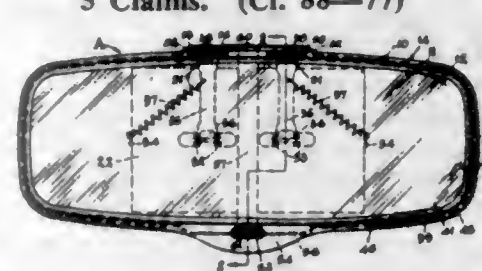


of the degree of translucency of said test strip, a second member actuatable to positions corresponding to the positions of said first member, and means interconnecting said second member and said stylus to cause the latter to move transversely of the recording sheet in proportions corresponding to each movement of the second member, thereby to provide on said recording sheet a line graph representative of the translucency of said test strip.

2,714,835

### REVERSIBLE REAR VIEW MIRROR

James C. Ogle, Jr., Tarentum, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio  
Continuation of abandoned application Serial No. 105,151, July 16, 1949. This application September 23, 1953, Serial No. 381,792  
5 Claims. (Cl. 88-77)



1. In a rear view mirror for automobiles and the like, a substantially rectangular supporting case including a rear wall provided with mounting means for said case, an arm pivotally supported by the rear wall of the case between the top and bottom and inwardly of the opposite ends thereof for swinging movement upwardly and downwardly about a horizontal axis, a mirror unit normally closing the front of the case and having two oppositely facing reflective surfaces of different reflecting values, and a double hinge connecting an edge of the mirror unit intermediate its opposite ends to said arm for swinging movement upwardly and downwardly with respect thereto so that upon swinging of the arm 180° in one direction the mirror unit may be simultaneously swung 180° in the opposite direction to effect the reversal of said mirror unit relative to said case to present the desired reflecting surface to the driver.

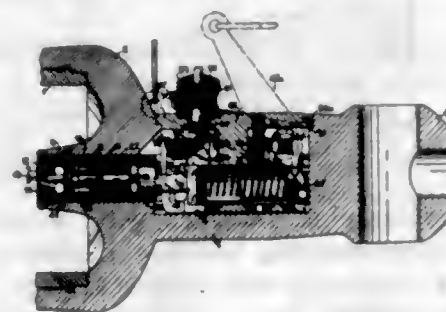
2,714,836

### PERCUSSION MECHANISMS FOR FIRE ARM

Joseph Raymond Jasse, Paris, France, assignor to Societe Nouvelle des Etablissements Brandt, Paris, France, a French body corporate  
Application March 3, 1950, Serial No. 147,527  
Claims priority, application France March 15, 1949  
3 Claims. (Cl. 89-27)

1. A percussion mechanism for a muzzle-loaded fire-arm, permitting the controlled operations of said fire-

arm on automatic and controlled percussions respectively, comprising in combination: a body located in the breech-bore of said arm and provided with a cylindrical bore coaxial with said breech-bore; means for securing said body to said breech-bore; a tubular striker-guide slidably mounted within said cylindrical bore between a fore active position and a rear retracted position; a striker movable axially and located without transverse play in said striker-guide, said striker protruding beyond the ends of said striker-guide by means of a forward end portion and of a rearward end portion; said forward end portion comprising a forward striking tip and an annular, valve-forming collar located behind said tip; an annular valve seat for said valve-forming collar on the forward end of said striker-guide; a first rear control device adapted to move said striker-guide between said rear retracted position and said fore active position and to bring and maintain said striker-guide in said fore active posi-

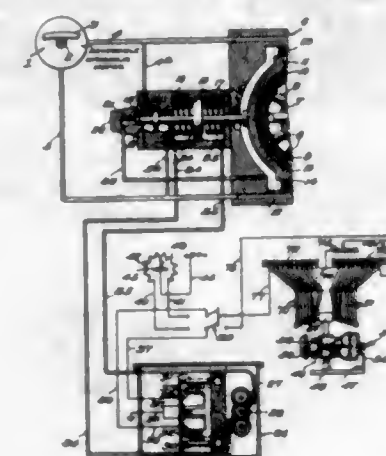


tion for automatic percussion; said striker being then moved and maintained forward for automatic percussion by the push of said valve seat on said collar, said valve seat remaining in intimate and gas-tight contact with said collar during said automatic percussion; said first rear control device being further adapted to bring and maintain said striker-guide into said rear retracted position for controlled percussion; a second rear control device for controlled percussion, by direct action onto the rear end of said striker, to impart thereto alternative axial movements in said striker-guide, while the latter is maintained stationary at said rear retracted position by said first rear control device; said alternative axial movements during controlled percussion displacing said striker alternately to and from a forward firing position and a rearward inactive position; said collar, in said inactive position being in intimate and gas-tight contact with said valve-seat of said striker-guide, while the latter is maintained in said rear retracted position.

2,714,837

### AZIMUTH STABILIZER

Leslie B. M. Buchanan, Wilbraham, Mass.  
Application April 23, 1947, Serial No. 743,287  
8 Claims. (Cl. 89-41)



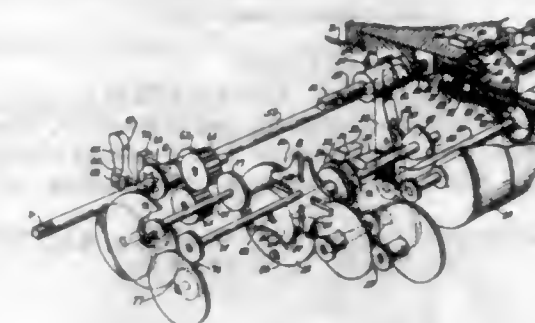
4. In an automatic azimuthal movement stabilization system of the character described, adapted to be used for an object mounted for azimuthal movement on and relative to a vehicle, the combination of a hydraulic motor adapted to be operatively connected to said object to

operatively effect azimuthal movement thereof, the combination of a rotary piston variable displacement pump having a slide block displaceable in opposite directions from a no-discharge position to correspondingly vary the direction and rate of discharge of said pump, a hydraulic connection between said pump and said motor for driving the latter, said pump operatively acting inherently to urge said block to no-discharge position, means responsive to the discharge pressure of said pump and operable to urge said block away from no-discharge position, spring means urging said block to no-discharge position, gyroscopic means adapted to be mountably supported on said vehicle for precession automatically in response to turning of said vehicle to apply a precession responsive force to said slide block to displace the same against the action of said spring means.

2,714,838

### HOB SHIFTING MECHANISM

John P. Scone, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois  
Application March 16, 1951, Serial No. 215,940  
7 Claims. (Cl. 90-4)



1. The combination of, a hobbing machine having a slide adapted to support a rotary hob, a member supporting said slide for movement parallel to the hob axis, a clamping element mounted on said member and engageable with said slide, means resiliently urging said element against the slide, a rotary shaft, a motor for driving said shaft, means responsive to the movement of said shaft and controlling the operation of said motor to interrupt the operation thereof after turning of the shaft through a predetermined range, a cam actuated by said shaft and operable in the initial portion of said range to retract said element from said slide and in the final part of the range to release the element for movement to clamping position, mechanism for converting the successive rotary motions of said shaft into rectilinear movements of said slide whereby to advance the latter step by step, and means operable during turning of said shaft through the intermediate portion of said range while said clamping element is retracted to couple said shaft to said mechanism.

2,714,839

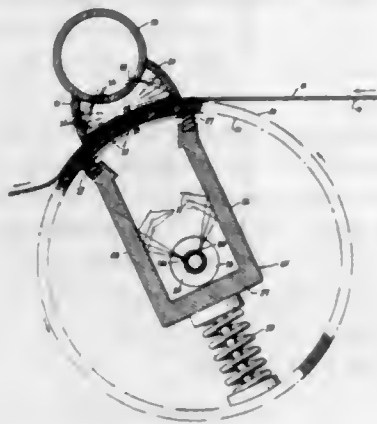
### APPARATUS FOR EXTRACTING WATER FROM PAPER STOCK

Jacob Mazer, Rockville Centre, N. Y.  
Application February 28, 1951, Serial No. 213,119  
14 Claims. (Cl. 92-51)

1. In a paper making apparatus of the type in which a web of relatively wet stock supported on a wire is carried in operative relation over the perforated surface of a pump operated suction box to extract water from the web passing thereover, the combination therewith comprising means for discharging such steam into contact only with that portion of the pulp web passing over said perforated surface whereby the steam, as it is drawn through the pulp web and the perforated surface and into the suction box by the vacuum maintained therein by the pump, intermixes and is entrained with the water



of said web and becomes condensed through heat exchange therewith, thereby developing in the suction box a vacuum additive to that of the pump, and accelerating the extraction of water from the pulp web, and means



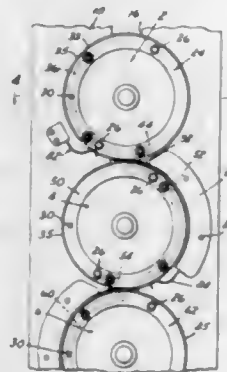
independent of said steam discharging means operable to discharge a spray of relatively cold water from within the suction box into the path of the mixed and entrained steam to amplify the steam condensing action and increase the effective vacuum in the suction box.

2,714,840

## CALENDER APPARATUS

Orson D. Bayrer, West Hartford, and Newell W. Pinkham, Cromwell, Conn., assignors to The Traveler's Insurance Company, Hartford, Conn., a corporation of Connecticut

Application May 27, 1954, Serial No. 432,769  
2 Claims. (Cl. 92—73)



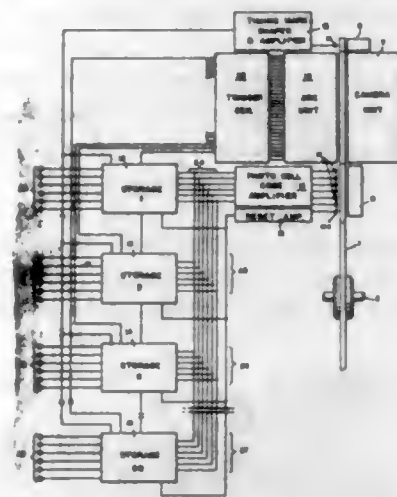
1. In a calender apparatus having a series of continuously rotating calender rolls, means for automatically feeding a flexible strip through the successive nips of the series comprising a series of circumferentially spaced passages in each roll and leading from the surface of the roll to one end thereof, a stationary cylindrical member concentrically mounted at one end of each roll in wiping contact therewith and having an arcuate groove with which the outlet ends of said passages are adapted to register upon rotation of the roll, said stationary member being of smaller diameter than said roll and defining therewith an annular notch about said stationary member, a reversely curved sheet metal stripper member having one end extending along said annular notch beneath the surface of the adjacent roll in angularly overlapping relation with said arcuate groove and having its other end extending concentrically around the stationary member of the next succeeding roll outwardly spaced from the surface of said next succeeding roll, a connection between each of said arcuate grooves and a vacuum supply, an electrically controlled valve in each of said connections except the one to the first stationary member, and electrical contacts associated with each roll and with the valve in the vacuum connection to the next succeeding roll, said contacts being engageable by a strip fed through said rolls to operate said valves in sequence.

2,714,841

## PHOTOGRAPHIC RECORDER

Frederick M. Demer, Johnson City, and Ralph G. Mork, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 30, 1950, Serial No. 203,747  
4 Claims. (Cl. 95—4.5)

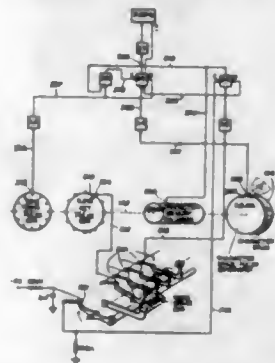


1. In a photographic recorder with a continuously movable character-carrying member having a plurality of columns of characters and code markings, the characters in said columns being arranged in sets with the corresponding characters of said columns disposed in straight lines and one of said code markings corresponding with each said line, said code markings progressively increasing in complexity in each said set, the combination of: means adjacent one surface of said member for supporting a photographic medium in position for exposure; means for selectively exposing the characters on said member upon said photographic medium, said exposing means including a plurality of triggered arcs, one for each column of characters, said arcs being fixedly disposed adjacent the other surface of said member; means for establishing a predetermined pattern corresponding to each character to be recorded; means for firing each said arc upon the first coincidence of a code marking and said pattern at a selected differential time during the transit period of each of said sets of characters past said photographic medium, each said arc upon being fired trans-illuminating said member and exposing a single character once to said photographic medium; and means for preventing any later coincidences of said code markings and said pattern from causing additional firings of each said arc during said same transit period.

2,714,842

## PHOTOGRAPHIC TYPE COMPOSITION

Frederick J. Hooven, Dayton, Ohio  
Application January 11, 1951, Serial No. 205,576  
37 Claims. (Cl. 95—4.5)



1. A photocomposing machine adapted to compose a line of composition on a record film including a character carrier having a plurality of characters thereon of different widths, a flash source of light, continuously rotating means for effecting continuous relative movement be-

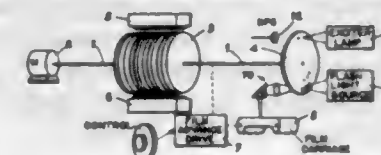
tween said carrier and said light source, means for continuously advancing said film in direct relation with the rotation of said means and in increments which are small in relation to the individual character widths, means for selecting a series of characters, means controlled in accordance with the character selected for controlling said instant of the flashing of said light within a single revolution of said character carrier to effect the flashing of the selected character upon said film, means for sensing the width of the selected characters, and means controlled in accordance with said width sensing means for causing said rotating means to rotate a predetermined whole number of revolutions to advance said film proportionately in accordance with the width of the selected character to effect the proper number of increments of film advance to accomplish the spacing of the character in the line.

2,714,843

## PHOTOGRAPHIC TYPE COMPOSITION

Frederick J. Hooven, Dayton, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware

Application June 19, 1951, Serial No. 232,276  
49 Claims. (Cl. 95—4.5)



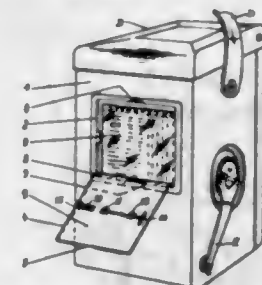
1. In a photocomposing machine the combination of means for selecting characters and word spaces to form a line of composition, a continuously rotatable character carrier having characters of different width located in different angular positions thereon, coded data on said carrier associated with each of said characters indicative of the width thereof, a register continuously rotatable in coordinated relation with said character carrier and having a series of zones in angularly spaced positions thereon, said zones having a plurality of recording tracks, means controlled by said character and word space selecting means for selecting a sequence of zones on said register corresponding to the positions of selected characters in said line of composition, means for recording in said zones on certain tracks thereof coded data identifying the selected characters, and means for recording on another track of the same zones of said register a corresponding sequence of coded data indicative of the width of said selected characters.

2,714,844

## MEMORANDA FIXTURE FOR CAMERA CARRYING CASES

Reinhold Heidecke, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany, a firm of Germany

Application June 17, 1952, Serial No. 294,031  
Claims priority, application Germany February 18, 1952  
4 Claims. (Cl. 95—11)



1. An ever-ready carrying case for a photographic camera of the twin lens reflex type having an exposure table on a rear wall of the camera, said case having a

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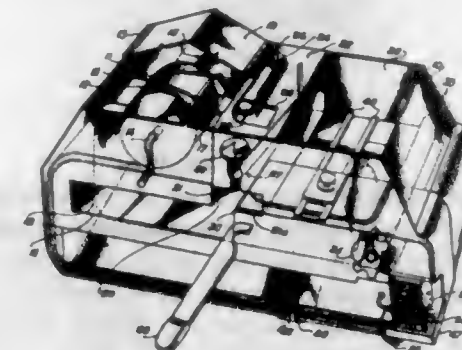
front wall section movable from closed position downwardly and forwardly to an open position to uncover the lens of a camera contained in the carrying case to enable the taking of a picture while the camera remains in the case, a recess forming a window in the rear wall of the case substantially opposite the exposure table on a camera held within said case, a flap hinged to the rear wall of said case substantially at the lower edge of said window recess for closing said recess, said flap when closed being set into the recess to provide a closure surface substantially flush with the rear wall of the case so that the rear wall of the case presents a substantially smooth surface for contact with the clothing of a person carrying the case, said flap being mounted to swing outwardly and downwardly to make the inner surface of said flap accessible externally of said case, the inner surface of said closure flap being formed as a writing surface on which temporary notes may be written, a movable film type indicator and a movable film speed indicator both adjustably mounted on said closure flap in position to be observed when said flap is opened to usable writing position.

2,714,845

## PHOTOGRAPHIC ROLL PAPER CUTTER AND CONTACT PRINTER

Ronald J. Cogan, West Vancouver, British Columbia, Canada

Application February 3, 1953, Serial No. 334,871  
2 Claims. (Cl. 95—75)



1. A photographic printing machine comprising a contact printer, a container mounted over the light opening of said printer, a roll of photographic paper rotatably mounted in said container adapted to move across the bottom of said container, a platform mounted in said container above the bottom, guide passages at the ends of said container for guiding said paper across the bottom and onto said platform, means for advancing said paper, an anvil at the end of said platform, a knife blade pivotally mounted for co-action with said anvil for severing sections of the paper, a paper guide adjustably mounted on said platform and a negative holder and paper mask mounted over the light opening of said contact printer composed of members adjustable at right angles to each other.

2,714,846

## TRACTOR ATTACHED IMPLEMENT

Garner Laverne Robinson, Milner, British Columbia, and John E. Hindle, White Rock, British Columbia, Canada

Application September 13, 1949, Serial No. 115,332  
3 Claims. (Cl. 97—46.07)

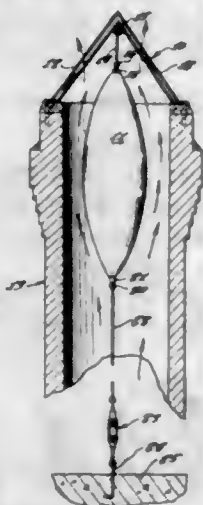


1. Agricultural apparatus adapted to be mounted on a tractor having hydraulically-operated supporting means



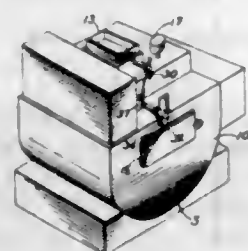
projecting from the rear thereof, which comprises a beam, an implement suspended from the beam, a draw bar connecting the beam to the supporting means of a tractor, a substantially vertical sleeve connected to the beam, a shaft movably mounted in the sleeve, a ground engaging wheel rotatably mounted on the lower end of the shaft, a cable connected to the upper end of the shaft and to the tractor supporting means, and a bearing carried by the beam and riding on the cable, whereby the shaft and wheel are moved downwardly and upwardly relative to the frame as the latter is raised and lowered by the supporting means.

**2,714,847**  
**FLUE ACCELERATOR**  
Albert Svebel, New York, N. Y.  
Application March 13, 1953, Serial No. 342,103  
4 Claims. (Cl. 98—58)



1. A flue accelerator comprising a substantially ellipsoidal-shaped body adapted for suspension within a flue along the major axis of the said body, supporting means at the top of the flue engaging the upper end of said ellipsoidal-shaped body, and tensioning means connected to the bottom of said ellipsoidal-shaped body, said major axis being concentric with the longitudinal flue axis, said tensioning means comprising a steel anchoring bar embedded in the base of the chimney, including a turnbuckle connected to the anchoring bar and a cable connecting the turnbuckle and the ellipsoidal-shaped body, whereby the turnbuckle can be adjusted to vary the pull on the ellipsoidal-shaped body.

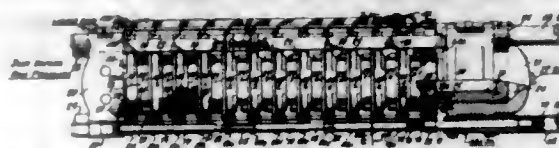
**2,714,848**  
**BLAST GATE AND SYSTEM**  
Carl S. Shields, Wickliffe, Ohio  
Application September 20, 1950, Serial No. 185,712  
8 Claims. (Cl. 98—115)



1. A blast gate assembly for use on a dry cleaning machine to regulate venting of solvent vapors from the washing chamber of the machine comprising a hollow body open at each end, a flange extending around one end of the body having an outer portion adapted to rest on a supporting structure and having an inner peripheral portion, a gasket along the outer side of the inner peripheral portion of the body, a door hinged to said body and disposed outside the flanged end thereof, and mechanism for rotating the said door on its hinges to open and

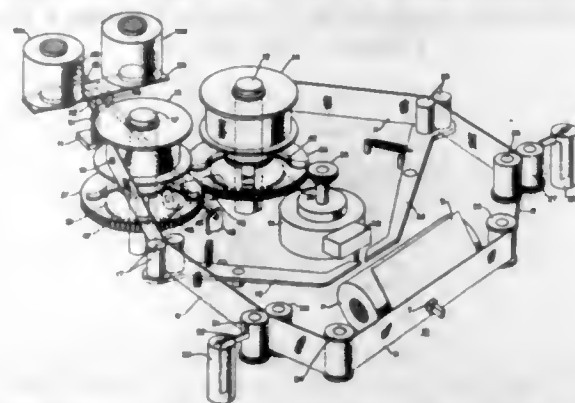
close the door against said inner peripheral portion of the flange comprising a shaft extending through the body into the interior thereof, cam means on the shaft adapted to hold the door locked against the gasket when in an over-center position, and link means connecting the cam means and the door.

**2,714,849**  
**MULTI-CHAMBER PRESS**  
Fred S. Carver, Short Hills, N. J., assignor to Fred S. Carver, Inc., Summit, N. J., a corporation of New York  
Application October 8, 1949, Serial No. 120,381  
20 Claims. (Cl. 100—113)



1. A press having stationary heads connected together by tie members to maintain fixed spacing, one head carrying a ram, a plurality of filtering element-carrying platens, a plurality of filtering element-carrying pistons alternating with the platens, each of the pistons being secured to the adjacent platen to form a pair of carriers which move as a unit, the other filter element carrying parts being secured respectively to the ram and the remote head, whereby a series of filter chambers is formed between the filtering elements, an influent passage for each chamber, effluent passages for each filtering element, a series of tie connections slidably secured to the ram and to the remote head, the tie connections being also slidably secured to each pair of carriers, and including elements having lost motion therebetween which limits the separation of the pairs of carriers but allows carriers of adjacent pairs to approach one another when the ram acts to move the filtering elements toward one another, a plurality of peripheral rings one for each chamber, spring means interposed between each ring and one of the carriers of a chamber to force the ring past the filtering elements and against the adjacent corresponding carrier to close the chamber, the spring means being compressible when the ram closes the press to form a cake, the expansion of the spring means on release of the ram pressure being effective to separate one of the filtering elements from the cake, the expansion being limited by the lost-motion tie connections, and means including the tie connections acting on each of the rings to shift the ring to the chamber-opening position to pull the cake away from the other filtering element and thereafter free the cake so that it may be removed from the chamber.

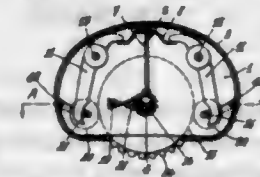
**2,714,850**  
**RIBBON FEED DEVICES**  
Harold J. Kistner, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York  
Application December 24, 1953, Serial No. 400,321  
7 Claims. (Cl. 101—96)



1. In a printing machine controlled by records having print selection indicia in a plurality of columns, an inking

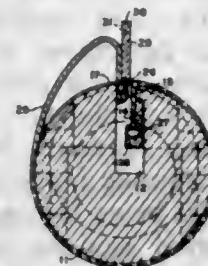
ribbon, a feeding means therefor, a plurality of means for sensing said indicia, print selection control devices under control of said sensing means, said devices and sensing means being divided into groups, a series of ribbon feed control relays, one of said relays for each of said groups, circuit means connecting each of said groups and a related relay so that it is activated by the selection of any one or more of said devices of a group, sets of shunting contacts, one set for each relay, an electric motor for said ribbon feeding means, an armature resistor for said motor, said resistor being sectionally tapped in several sections, one less section than the number of relay groups, to be shunted by said relay contacts over one section for each group of print selection devices used in excess of unity, said contacts being arranged in a labyrinth formation between the tapped sections of said resistor to shunt out more resistor sections for greater numbers of selected printer groups, whereby the motor operates faster to feed more ribbon when a long stretch of it has been selected for a printing impression involving greater numbers of printer groups.

**2,714,851**  
**PRINTING DEVICE FOR OFFICE USE**  
Hans Schnäkel, Köln-Lindenthal, Germany, assignor, by mesne assignments, to "Peppy" Industries, Inc., New York, N. Y., a corporation of New York  
Application June 21, 1951, Serial No. 232,690  
3 Claims. (Cl. 101—329)



1. A printing device comprising in a casing a printing roller and a horizontal axle to support said printing roller, said axle being vertically movably located in slots of the inner walls of said casing, tension springs supported on both sides of said printing roller upon said axle and adapted to return said printing roller to its initial position, two coloring rollers horizontally movable in slots of said inner walls and located on opposite sides of said printing roller, T-elements mounted upon the ends of said axle, pivotable levers connected to said coloring rollers for horizontal movement of the latter, the cross-portion of said T-elements being operatively connected to said pivotable levers for resiliently transmitting vertical movement of said printing roller to said coloring rollers, whereby upon increase of the pressure imparted to the printing roller during the printing operation, the surface pressure of the coloring rollers upon the printing roller is modified.

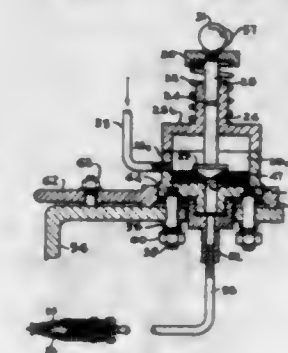
**2,714,852**  
**DEVICE FOR SECURING AND TENSIONING A FLEXIBLE TRANSFER BLANKET ON A CYLINDER**  
Laszlo M. Stempel, New York, N. Y., assignor to Laszlo M. Stempel, New York, N. Y., and Albert Charles Nolte, Plandome, N. Y., joint trustees  
Application June 4, 1949, Serial No. 97,295  
4 Claims. (Cl. 101—415.1)



3. In a transfer press, in combination, a transfer cylinder having a longitudinal recess formed therein, and

a relatively narrow aperture communicating with the recess through the periphery of the cylinder, of a pair of bar members shaped to pass individually through the aperture and to lie simultaneously in the recess in engagement with one another, a flexible blanket wrapped around the periphery of the cylinder and secured at its opposite ends to the respective bar members, a third bar member insertable in the aperture in position to overlie the first two bar members and broad enough substantially to fill the aperture space between the blanket ends, said third bar member when forced inward being adapted to urge both of the two first-mentioned bar members inward toward the center of the cylinder simultaneously and at substantially the same rate.

**2,714,853**  
**PUMP FOR DELIVERING SMALL DISCRETE QUANTITIES OF LIQUID**  
Johannes T. M. Schlamann, Delft, Netherlands, assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware  
Application December 27, 1952, Serial No. 328,170  
Claims priority, application Netherlands December 20, 1951  
7 Claims. (Cl. 103—37)



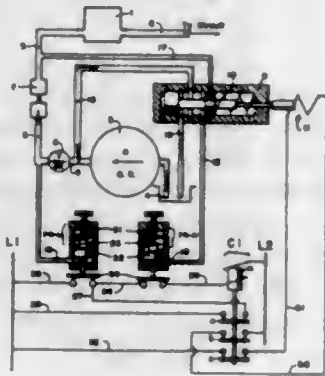
1. A pump for delivering small, discrete quantities of liquid comprising: a chambered pump casing defining a supply chamber and having a wall section of highly elastic material with appreciable thickness, said wall section having an open-ended chamber extending therethrough forming an expansible pump chamber communicating at the inner end with said supply chamber; a discharge duct connected to the other end of said pump chamber; a discharge valve in said discharge duct; means for supplying liquid to said supply chamber; and a reciprocable plunger having an end abutment face in said supply chamber mounted for movement toward said pump chamber and shaped to close the said inner end of the pump chamber and to compress said wall section elastically upon engagement therewith and thereby to reduce the volume of the said pump chamber.

**2,714,854**  
**SYSTEM FOR MAINTAINING ACCUMULATOR PRESSURES WITHIN CLOSE LIMITS**  
Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin  
Application March 28, 1952, Serial No. 279,047  
5 Claims. (Cl. 103—41)

1. A system, for maintaining the pressure in a fluid circuit within close limits, comprising a pump connected to said circuit, flow control means connected to said pump and adapted to occupy either a first position in which it causes said pump to deliver fluid to said circuit or a second position in which it interrupts flow of fluid to said circuit, means for urging said flow control means to one of said positions with a substantially constant force, a magnetic device for effecting movement of said flow control means to the other of said positions, a magnetic switch for controlling said magnetic device, and means for controlling the operation of said magnetic switch including



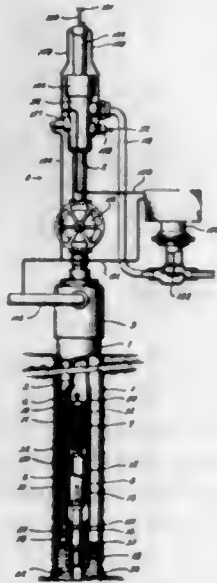
two pressure switches which open and close in response to variations in the pressure in said circuit and one of



which opens at a pressure very close to the pressure at which the other one closes.

2,714,855

**APPARATUS FOR GAS LIFT OF LIQUID IN WELLS**  
Norman Fraser Brown, London, England, assignor to  
N. F. B. Displacement Co., Ltd.  
Application May 1, 1952, Serial No. 285,435  
39 Claims. (Cl. 103-52)



1. Apparatus for raising liquid in a well by gaseous pressure, including a free piston adapted to be primed and to move up and down in tubing, in combination with means for catching and holding said free piston while said free piston is being primed, means for priming said free piston while being so held and means responsive to operation of said priming means for releasing said free piston after it has been primed.

2,714,856

**ROTARY PUMP OR MOTOR**

Thomas C. Kane, Mahoning County, Ohio, assignor to  
The Commercial Shearing & Stamping Co., Youngs-  
town, Ohio, a corporation of Ohio  
Application January 18, 1950, Serial No. 139,190  
23 Claims. (Cl. 103-126)

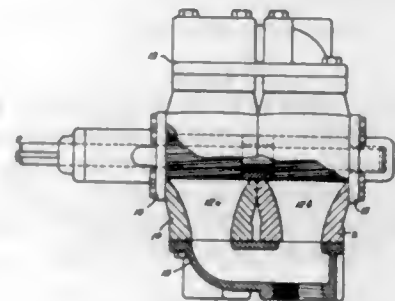


1. A rotary machine of the class described, comprising a rotary impeller, a plate against an end of the impeller,

and a case enclosing the impeller and plate, with a portion of the case fitting closely around a portion of the periphery of the impeller to trap fluid therebetween and with the periphery of the plate extending alternately in contact with and substantially spaced from the case adjacent said portion of the case, whereby during operation of the machine the contact between the plate periphery and case opposes flow of fluid along the periphery of the plate and the spacing between the plate periphery and case permits the plate to expand relative to the case without buckling relative to the adjacent impeller end.

2,714,857  
**GEAR PUMP**

John R. Albright and Swan E. Larson, Rockford, Ill., as-  
signors to Geo. D. Roper Corporation, Rockford, Ill.,  
a corporation of Illinois  
Application September 4, 1951, Serial No. 244,888  
2 Claims. (Cl. 103-128)



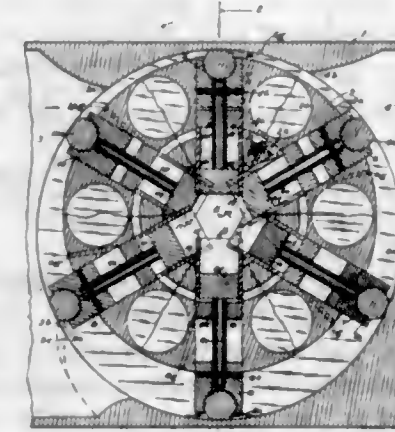
1. A pump comprising a casing assembly including a plurality of separate housings in abutting end-to-end relation, end plates at opposite ends of said casing assembly, said housings each having a pair of axially coextensive intersecting pump bores defining a pair of smooth continuous intersecting pump chambers, a rotary drive shaft extending axially through one of said pump bores in each of said housings, a plurality of axially-spaced toothed-gears non-rotatably attached to said drive shaft, each of said gears having a length at least equal to the diameter thereof whereby the overall length of the plurality of gears on the drive shaft is large as compared to the diameter of the gears, an idler shaft extending axially through the other of the pump bores in each of said housings and carrying a plurality of axially-spaced toothed-gears of a length and diameter equal to the length and diameter of the meshing gears carried by the drive shaft, an outlet port formed at one side of each of said housings adjacent the intersection of the pump chambers and in communication with the gear peripheries at one side of the mesh point thereof, an outlet port formed at the other side of each of said housings adjacent the intersection of the pump chambers and in communication with the gear peripheries at the other side of the mesh point thereof, a common fluid supply manifold communicating with each of said inlet ports, a common fluid discharge manifold communicating with each of said discharge ports, and shaft support members disposed between the endwise aligned gears on each of said drive and idler shafts in close running fit with the adjacent end faces of the gears and supporting the drive and idler shafts intermediate their respective lengths, said support members being formed with cylindrical peripheral surfaces complementary to the internal bores in the pump housings of said casing assembly snugly and slidably received in the adjacent ends of the pump bores in the endwise abutting housings to align the separate housings with each other, said supporting members being formed with flat faces extending secantially thereof, said flat faces of the support members abutting each other throughout the length thereof at the intersection of the pump bores to limit turning of the support members within the pump housings.

2,714,858

**ROTARY COMPRESSORS OR PUMPS, IN COMBINATION WITH HYDRAULIC CONTROLS, AND MECHANICAL CONTROLS IN CO-ORDINATION THEREWITH**

Frank Kepka, Altadena, and Jean A. H. Barkelj,  
San Clemente, Calif.

Application November 3, 1950, Serial No. 193,828  
27 Claims. (Cl. 103-136)



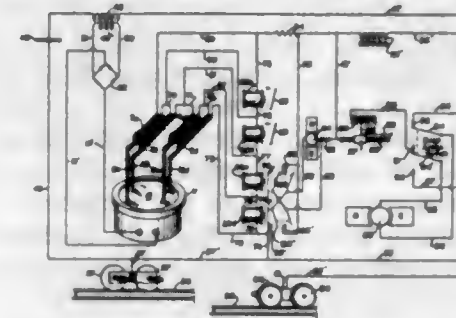
1. In a positive type of displacement pump, in combination a stator with a cylindrical inner surface and a rotor with a cylindrical outer surface of smaller diameter than said inner surface and having an axis eccentric to the inner wall of said stator, a plurality of vanes radially arranged on said rotor from the center thereof, pistons in cylinders arranged radially in said rotor, said vanes in operative connection with said pistons, a closed fluid pressure chamber communicating with each of said piston-cylinders on one side of said pistons, and another closed fluid pressure chamber communicating with each of the piston-cylinders on the other side of said pistons.

2,714,859

**ELECTRICAL APPARATUS, AS FOR MODEL RAILROADS, INCLUDING RESONANT RELAY AND SWITCHES THEREFOR**

Claude C. Klemme, Boulder, Colo.

Application October 17, 1949, Serial No. 121,798  
9 Claims. (Cl. 104-150)



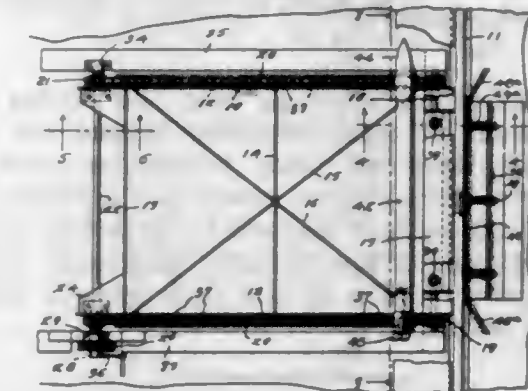
1. In electrical apparatus for controlling desired phases of the operation of a model railroad train, including an off-track circuit for super-imposing a modulated radio frequency current on a power current supplied to the track rails, said modulations being selectively controllable to different audio frequencies, and an on-track circuit supplied through said track rails and including power and control portions, said power portion including an engine drive motor, the improvement in the control portion of said on-track circuit which comprises a diaphragm; a plurality of reeds mounted on said diaphragm and adapted to vibrate in response to different audio frequencies; means for vibrating said diaphragm in accordance with said preselected audio frequencies; a switch having a relatively light resilient blade and a relatively heavy blade in position with respect to each said reed so that said light blade will be vibrated by movement of that reed corresponding thereto and each said blade is spaced from the corresponding reed when said

reed is at rest; a relay coil in parallel with each said switch; and means for controlling the speed and direction of movement of said drive motor and operable by said relay coils.

2,714,860

**TRACK SKATE APPLYING MACHINE**

George Shannon Branham, Garrison, W. Va.  
Application October 5, 1950, Serial No. 188,583  
6 Claims. (Cl. 104-257)



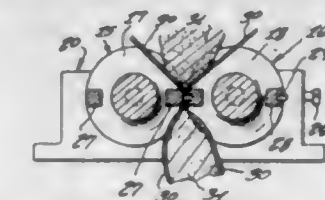
1. A track skate applying machine comprising a substantially rectangular frame adapted to be disposed in substantially horizontal position and projecting laterally of a rail, skate guide means carried by said frame, means yieldably supporting the forward end of said frame adjacent a rail with said guide means substantially flush with the top of the rail, whereby said frame may move downwardly under weight of a car wheel on said skate and rail, and means for moving the skate toward and onto the rail.

2,714,861

**MANICOTTI PRODUCING MACHINE**

John Castronuovo, Brooklyn, N. Y.

Application January 11, 1954, Serial No. 403,191  
2 Claims. (Cl. 107-21)



1. In a manicotti producing machine a pair of parallel, substantially cylindrical dies, a bearing at each end of the said dies and the latter being rotatably mounted in the said bearing, means for turning the said dies in opposite directions, each of said dies having cooperating concave portions disposed opposite each other and adapted to receive dough and filling therebetween, oppositely disposed cross bars extending longitudinally on each of said dies and embedded in the outer peripheries thereof, a pleated knife being embedded in one of said cross bars on one of said dies extending outwardly therefrom and engaging the cross bar of said adjacent die during rotation of both said dies.

2,714,862

**ICE CREAM DIPPER**

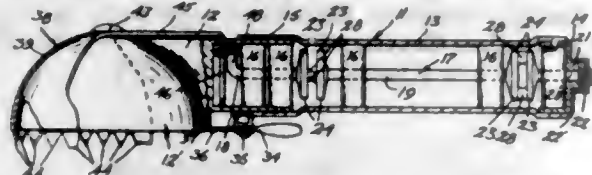
Sam Gargano, Spokane, Wash.

Application July 3, 1953, Serial No. 365,866  
2 Claims. (Cl. 107-48)

1. An ice cream dipper comprising a handle having plural cylindrical sections; a rotatable shaft section journaled coaxially within each handle section; means releasably coupling each handle section together on a common axis; cooperating clutch means carried by the shaft sections for releasably interconnecting said shaft sections when the handle sections are coupled; a crank

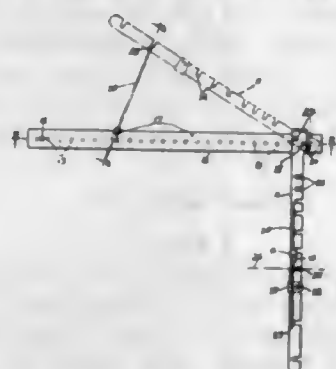


on the forward end of the forward end one of said shaft sections; a stationary hemispherical bowl releasably carrier by the handle at the end section supporting said crank and having a mouth of circular form; a cutting device having a spherical segment overlying the outer face of said bowl opposed to said handle and pivotally secured to said bowl concentric with its mouth for



oscillating movement about its axis; said cutting device having a series of teeth extending beyond the mouth edge of said bowl and being beveled on their inner faces to form sharp cutting points; and a rocking lever secured to said segment opposed to its pivotal axis and having an elongated slot operably associated with said crank; whereby rotation of said shaft sections oscillates said cutting device.

**2,714,863**  
**PLANTING DEVICE**  
Walter H. Binyon, Cedar Grove, N. J.  
Application March 16, 1950, Serial No. 150,042  
1 Claim. (Cl. 111—99)

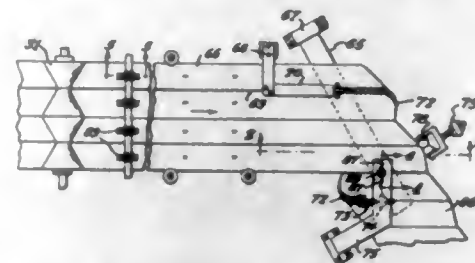


A tool for use in planting, said tool comprising an elongated bar having spaced mould pins projecting from the lower surface thereof and spaced longitudinally of the bar for forming openings defining positions and spacing of seeds in the operation of planting the same, an associated bar arranged upon the upper surface of and having a pivot pin, adjacent one side edge at one end thereof, engaging a pivot aperture at one end portion of the first named bar, said associated bar having, at said side edge portion, a plurality of notches spaced longitudinally of and opening outwardly through the said side edge thereof, said notches forming means to gauge spacing of rows of marking pins adapted to be positioned in said notches in the operation of planting, said associate bar being swingable relatively to the first named bar on its pivot, a spacer rod adjustably and pivotally coupled with the associated bar, and means adjustable longitudinally on the rod and adjustably connectable with the first named bar to couple said bars in predetermined angular relationship one with respect to the other.

**2,714,864**  
**MECHANISM FOR FORMING A HELICALLY WOUND TUBE**  
James E. Fay, Middletown, Ohio, assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio  
Original application April 23, 1948, Serial No. 22,786, now Patent No. 2,649,888, dated August 25, 1953. Divided and this application November 30, 1951, Serial No. 259,041

2 Claims. (Cl. 113—35)  
1. In a mechanism for forming helically wound tubes, means for moving a corrugated strip of material in a

predetermined planar path, an undersize bending mandrel disposed at an angle to the axis of said path, said mandrel being rigidly supported at one end and free at its other end, a first fixed supporting means above said mandrel and above said strip adjacent an edge thereof, a second fixed supporting means similarly positioned at a point axially displaced along said mandrel toward its free end by a distance corresponding to the pitch of the helix,



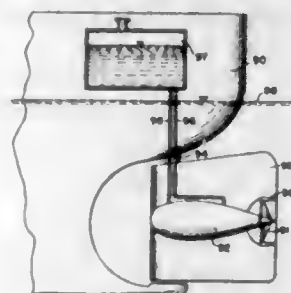
a chain secured at one end to said first fixed supporting means, extending helically around said mandrel and spaced therefrom, and adjustably secured to said second fixed supporting means, fixed grooved means slidably engaging said chain at the bottom of the helix to hold the same against lateral movement, a buttress roll arranged to bear against the outside of the strip at a point substantially 90° in rotation from the beginning of the helix and adjacent the edge of the strip opposite the said chain.

**2,714,865**  
**SEPARABLE PANEL BOAT CABIN CONSTRUCTION**  
William W. Ward and Milton H. Ward, Monticello, Ark., assignors to Ward Brothers Manufacturing Co., Monticello, Ark.  
Application August 31, 1953, Serial No. 377,366  
5 Claims. (Cl. 114—0.5)



1. A boat having a cabin provided with a framing about enlarged side openings and having molding about a portion of the interior periphery of said openings and outer frame portions extending about a portion of the exterior periphery of said openings, panels, means detachably securing said panels in said openings, said panels being received between said outer frame portions and said molding, portions of said cabin having substantially U-shaped flanges attached thereto at the periphery of said openings, said panels having substantially U-shaped rear edge portions interlocking with said U-shaped flanges.

**2,714,866**  
**DEVICE FOR PROPELLING A SHIP**  
Friedrich W. Pleuger, Hamburg-Wandsbek, and Friedrich F. Busmann, Hamburg-Blankenese, Germany  
Application February 19, 1951, Serial No. 211,592  
8 Claims. (Cl. 115—35)



7. In a device for propelling a ship, in combination with a propeller, a protruding bearing post of streamlined shape attached to the hull of the ship, a rudder stock

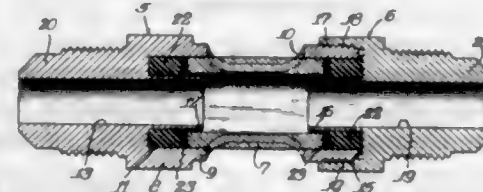
journalled in said post, a motor housing adapted to be filled with water, profiled plates attached to the housing and serving as rudder blades, an electric induction motor of the squirrel cage type comprising a stator connected to the housing and comprising field windings having waterproof insulation, a rotor enclosed by said stator, and a shaft carrying said rotor and said propeller; journal bearings and thrust bearings carried by and within said housing and carrying said shaft, said housing having passages formed therein to permit access of water to the bearings for lubrication, and means attaching said housing to said rudder stock.

**2,714,867**  
**COMBINATION TURNING AND EMERGENCY WARNING INDICATOR**  
Bruno Rzepa, Chicago, Ill.  
Application May 15, 1953, Serial No. 355,300  
8 Claims. (Cl. 116—47)



1. A combination turning and warning indicator for vehicles, comprising a support member secured within the roof of a vehicle and extending therethrough, a handle-equipped shaft rotatably mounted in said support member and equipped at its upper end with a warning indicator, and a turning indicator rotatably carried by said support member and providing a compartment adapted to receive and substantially conceal the warning indicator therein, said shaft and said warning indicator carried thereby being movable relative to said turning indicator to move the warning indicator bodily outwardly therefrom to selectively display said warning indicator, said shaft being operatively arranged with said turning indicator to selectively rotate the same.

**2,714,868**  
**LIQUID INDICATOR**  
George E. Franck, Riverside, Ill., assignor to The Imperial Brass Manufacturing Company, a corporation of Illinois  
Application May 5, 1951, Serial No. 224,745  
7 Claims. (Cl. 116—117)



1. A liquid indicator comprising, in combination, a main body member having a base portion, a windowed tubular extension, an internal tubular portion concentric with said windowed extension, an annular recess in said base portion in surrounding relation to said tubular portion and opening axially inwardly and a bore opening centrally through said base portion; an auxiliary body member having a base portion, an internal tubular portion, an axially inwardly opening annular recess in surrounding relation to said tubular portion and a bore opening axially of said base portion through said inner tubular portion; a ring of resilient material in the bottom of the annular recess in each of said body members; a sealing ring of material impervious and chemically inert to refrigerant overlying said first ring; a tube of transparent material receivable in the windowed tubular extension

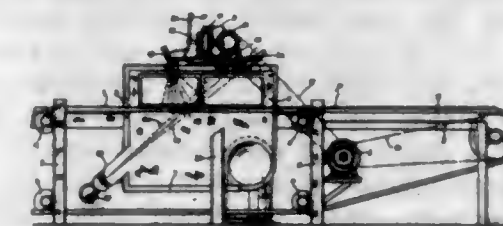
with its ends receivable in said annular recesses and bearing against said last named ring sealing the interior of the tube from communication out of the indicator; and cooperating means on said body members for securing the same together with the transparent tube in sealing engagement with said sealing rings.

**2,714,869**  
**BULK TANK GAUGE**  
Erwin F. Elmer, Minneapolis, Minn.  
Application June 18, 1954, Serial No. 437,800  
3 Claims. (Cl. 116—118)



1. The combination in a measuring device for indicating the level of material stored in a bulk tank and which device includes a housing wherein is a graduated tape moved in response to variations in said level and which housing has an observation opening for viewing the tape and the housing having a flat surface about the said opening; of a closure swingably mounted on the housing to normally close said opening and having a gasket fitting said flat surface and a window through which the tape may be viewed, the said closure having a tang end tempered and pivoted to said housing causing the gasket to fit the housing tightly.

**2,714,870**  
**APPARATUS FOR SPRAY VARNISHING HIDES AND SKINS**  
Ettore Giraudo, Turin, Italy  
Application May 10, 1952, Serial No. 287,107  
Claims priority, application Italy May 26, 1951  
2 Claims. (Cl. 118—2)



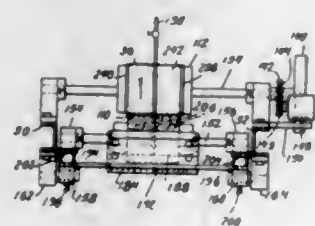
1. Apparatus for spray varnishing hides and skins comprising in combination an endless conveyor shaped as a grid belt adapted to receive the hides and skins to be coated, a carriage mounted for transverse reciprocation above the upper run of said conveyor, at least one spray gun for the spray fluid mounted on said carriage, supply means for supplying spray fluid to said spray gun, photo-electric control means, comprising a light beam projector, and a photo-electric cell, spaced from each other, mounted on said carriage and both focussed on a common spot lying on a stationary mirror beneath the upper run of said conveyor spanning the whole width of the grid belt, and parallel with the direction of movement of said carriage, the spray nozzle of said spray gun being substantially directed towards the point on the upper run of said conveyor which is intermediate between the points in which the light beam from the projector and the light beam directed towards the photo-electric cell reach the surface of said upper run, control means operatively connected between said photo-electric means and said supply means, whereby the supply of spray fluid is stopped when the light



beam from the projector reflected by the mirror strikes the photo-electric cell and started when said light beam no longer reaches said cell respectively, and means for preventing the spray fluid jet passing the upper run of the grid belt from reaching the mirror.

2,714,871

**ROLLER MEANS FOR APPLYING MAGNETIC MATERIAL TO SOUND RECORDING TAPE**  
William C. Speed, Riverside, and James J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y., a corporation of New York  
Application June 20, 1952, Serial No. 294,636  
2 Claims. (Cl. 118—249)



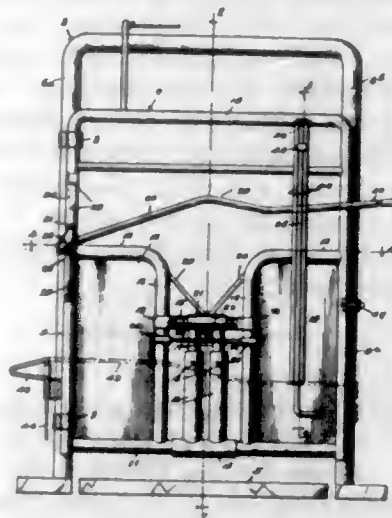
1. In apparatus for producing magnetic sound recording tape by advancing a long narrow tape base successively from a roll unwinding device through an adhesive precoat device, a precoat partial drying device, a magnetic coating device and a magnetic-coat drying machine to a roll winding machine, the improvement comprising an adhesive precoat machine which includes a vessel for containing and supplying adhesive liquid to one side of the tape base, a pair of opposed superposed pressure rollers mounted over the vessel for the application of the adhesive liquid to and the passage of the adhesive coated tape base therebetween to level off the adhesive liquid, to provide a good bond between the tape base and the adhesive coating; the lower roller having a cylindrical adhesive applying surface shorter than the upper roller and disposed intermediate the ends of the upper roller and extending partly into the vessel and below the level of the adhesive liquid normally confined therein, so that the cylindrical adhesive applying surface of the lower roller may be wetted with and thus transfer adhesive liquid to said side of the tape base; the lower cylindrical adhesive applying surface being narrower than the tape base and disposed only across the intermediate transverse portion of the tape base so that its marginal edge portions will not be coated with the adhesive liquid; the outer cylindrical adhesive applying surface of the lower roller being provided with a plurality of spaced small surface pockets to be filled with adhesive liquid; and a doctor blade extending transversely across the lower roller between the adhesive liquid level of the vessel and the upper roller to level off such liquid in the pockets and for removing excess adhesive liquid from the cylindrical adhesive applying surface of the lower roller before it contacts the tape base.

2,714,872

**HEAD GATE FOR CATTLE CHUTE**  
Laurance E. Heldenbrand, Oklahoma City, Okla.  
Application December 15, 1952, Serial No. 326,008  
6 Claims. (Cl. 119—98)

1. In a cattle chute, a main frame, a head gate pivotally connected to said main frame, adapted to partially close one end of said main frame, said head gate comprising spaced vertical pipes between which an animal's neck is held and a lower horizontal tubular section, a vertically adjustable neck piece mounted on said horizontal tubular section for vertical swinging movement between said vertical pipes substantially closing the space between said vertical pipes, a vertical sliding neck piece section mounted on said vertically adjustable neck piece adapted to engage the neck of an animal, and an upper neck piece

pivotally mounted on the head gate above said vertically adjustable neck piece cooperating with the vertically



adjustable neck piece in gripping the neck of the animal held in the chute.

2,714,873

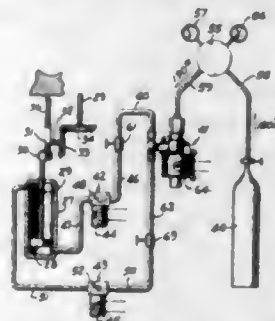
**COMBINATION LEASH AND PICKET STAKE DOG TRAINING DEVICE**  
George A. Mosby, Highland Park, N. J.  
Application February 6, 1953, Serial No. 335,418  
5 Claims. (Cl. 119—109)



1. A device of the character described comprising an elongated tethering stake having a first end portion adapted to be driven into the ground and a second end portion terminating in a head, an elongated handle having an inner end and an outer end and provided with a longitudinally extending bore opening outwardly of the inner end and a bore portion of larger diameter communicating with the inner end of said bore and opening outwardly of the outer end of the handle, said second end portion of the stake being turnably disposed in the handle bore and said head portion being turnably disposed in said enlarged bore portion, said first end portion of the stake extending from the inner end of the handle, a cap connected to the outer end of the handle and closing the outer end of said enlarged bore portion for swivelly retaining the handle on the stake, and means adapted to detachably connect an end of a tethering member to said cap.

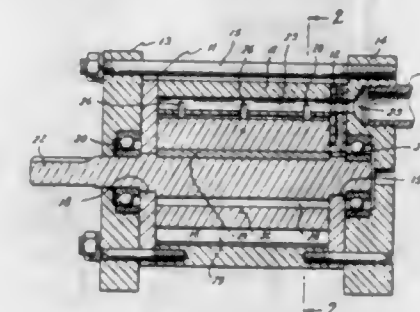
2,714,874

**SWITCH OPERATING MECHANISM**  
Lester C. Hart, Cleveland, Ohio, assignor to Hi-Voltage Equipment Company, Cleveland, Ohio, a corporation of Ohio  
Application April 18, 1951, Serial No. 221,670  
2 Claims. (Cl. 121—38)



1. A gas operated mechanism for producing relative movement between the contacts of an electric switch comprising a fluid motor including a cylinder and reciprocal piston, a self-contained source of fluid under pressure, a self-contained source of electric energy, a

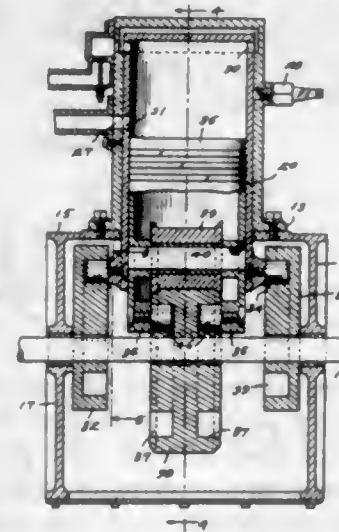
solenoid actuated switch opening valve connected to one end of said cylinder, a solenoid actuated switch closing valve connected to the other end of said cylinder, conduit means including a solenoid actuated main control valve connecting said source of fluid under pressure to both said opening and closing valves, said main control valve comprising a valve member biased to the closed position by the force of the fluid pressure of said source thereby to insure against leakage from said source, and electric control means connected to said source of electrical energy for controlling the energization of said solenoid actuated valves including means for selectively and independently energizing either said opening or closing valve, said last mentioned means including means for causing simultaneous energization of said main control valve whenever either of said other valves are actuated, said electric control means including switch means operable in response to predetermined movement of said piston in at least one direction for simultaneously deenergizing both said main control valve and the one of the opening or closing valves which was actuated to cause said predetermined movement of said piston.



length equal to that of the opening of said outlet passage and with a concave wall adapted to be contacted by said vanes in substantially perpendicular relationship therewith to effect their inner movement relative to said rotor, the depth of said inlet portion relative to said rotor gradually and uniformly increasing throughout its length, thereby causing said vanes to expose a gradually and uniformly increasing effective area as to the motive fluid during their travel from one to the other end of said inlet portion.

2,714,875

**INTERNAL COMBUSTION ENGINE**  
Morris Lee Carroll, San Antonio, Tex.  
Application August 21, 1952, Serial No. 305,535  
1 Claim. (Cl. 121—50)



In an engine of the type having a cylinder, a crank case at the lower end of said cylinder, a shaft journaled through said crank case, and a pair of telescopic pistons in said cylinder, means for converting the reciprocating movement of the pistons to rotary movement of the shaft comprising a pair of circular cams on said shaft, said cams having confronting cam grooves, diametrically opposed studs having freely rotatable sleeves thereon carried by the outer surface of the outer one of said pistons engaging in said grooves, an intermediate circular cam on said shaft having cam grooves in the outer faces thereof, diametrically opposed studs having freely rotatable sleeves thereon carried by the inner face of the inner one of said pistons engaging in said last mentioned grooves, a shaft extending diametrically across the interior of said inner piston, a roller on said shaft, said roller having inwardly bevelled flanges, an intermediate circular cam carried by said shaft, said intermediate cam having bevelled edges, and engaging said roller between said bevelled flanges.

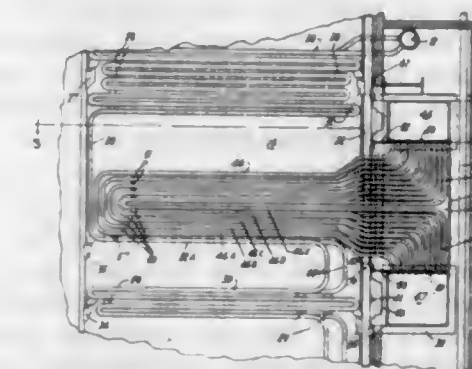
2,714,876

**FLUID ACTUATED VANE TYPE MOTOR**  
Paul E. Schmid, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas  
Application July 26, 1951, Serial No. 238,664  
2 Claims. (Cl. 121—87)

1. In a fluid actuated rotary motor, a stator formed with a rotor chamber, a rotor of circular cross-section

eccentrically mounted in said chamber, vanes slidably carried by said rotor in end contact with the wall of said chamber, a contact area between said rotor and wall, motive fluid conveying inlet and outlet passages opening into said chamber, one on each side of said contact area, an inlet portion in said chamber peripherally extending substantially 280° from said inlet passage which opens thereinto to the opening of said outlet passage, an outlet portion in said chamber of a peripheral

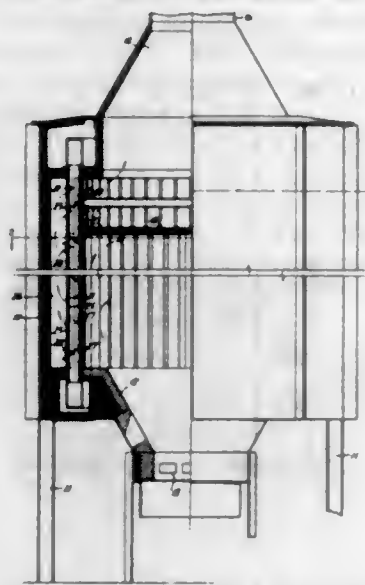
**HIGH PRESSURE PRIMARY AIR HEATER**  
James D. Andrew, Jr., Essex Fells, N. J., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey  
Application September 1, 1950, Serial No. 182,871  
8 Claims. (Cl. 122—1)



4. In a vapor generator having a convection gas-pass, a plurality of banks of economizer tubes transversely positioned in said convection gas-pass, some of said economizer tubes being vertically spaced from the remaining banks thereof and connected by a row of vertically extending tubes located adjacent a wall of said gas-pass, means for supporting said economizer tube banks on opposite walls including said first mentioned wall of said gas-pass, spaced downcomer tubes in the second of said walls of said convection gas-pass, horizontally disposed air heater inlet and outlet headers supported at vertically spaced positions upon said downcomer tubes out of the path of heating gas flow, rows of tubes connecting said headers and extending through the intertube spaces between downcomer tubes in said last mentioned wall and in a reverse bend in said heating gas-pass between the spaced portions of said economizer tube banks, and means for supporting the reverse bend end portions of said tubes from the economizer tubes.



**2,714,878**  
**PETROLEUM HEATER**  
 Lev A. Mekler, Palo Alto, Calif.  
 Application October 3, 1950, Serial No. 188,187  
 3 Claims. (Cl. 122-235)

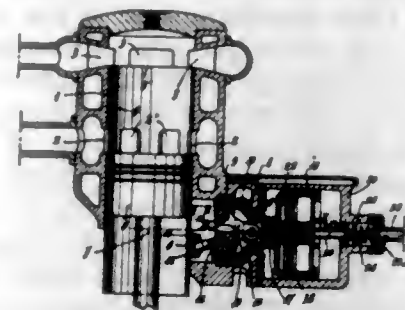


1. In a fluid heater, a housing, a horizontally disposed partition within said housing dividing the interior of said housing into an upper chamber and a lower chamber, burner means for conducting combustion within said lower chamber, a plurality of fluid heating tubes grouped to form a wall area in said lower chamber about said burner means, a plurality of fluid heating tubes grouped to form a wall area in said upper chamber, a plurality of spaced baffles in said lower chamber interposed between the tubes and spaced from the tubes in said lower chamber, said baffles in said lower chamber facing the burner means in a position between the fluid heating tubes in said lower chamber and the housing to provide a space between the baffles and the housing leading to the upper chamber, a plurality of spaced baffles in said upper chamber interposed between and spaced from the fluid heating tubes in the upper chamber, said baffles being oppositely faced to those in the lower chamber, each of the baffles in the upper and lower chambers having two heat reflecting surfaces for reflecting heat towards the adjacent tubes whereby each tube receives heat reflections from two such surfaces formed on adjacent baffles, said heat reflecting surfaces in section having radii considerably greater than the radii of said tubes to increase the portion of radiant heat supplied by reradiation and reflection to the tubes opposite the source of heat, said baffles being spaced from each other and said tubes to provide in section Venturi-like flow passages therebetween whereby the velocity of flow of the combustion gases through the Venturi-like passages increases and is the greatest at the side of the tubes opposite the source of heat to thereby minimize the deposit of soot and ash on the tubes and baffles, said combustion gases passing out of the lower chamber past the heating tubes in the lower chamber through the baffles in the lower chamber into the space between the baffles and the housing to pass upwardly into the upper chamber past the baffles in said upper chamber.

**2,714,879**  
**VALVE MEANS FOR TWO STROKE CYCLE INTERNAL COMBUSTION ENGINES**  
 Henri Meullen, Courbevoie, and Jean Bertin, Neuilly-sur-Seine, France, assignors to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France  
 Application August 1, 1951, Serial No. 239,688  
 Claims priority, application France August 19, 1950  
 9 Claims. (Cl. 123-65)

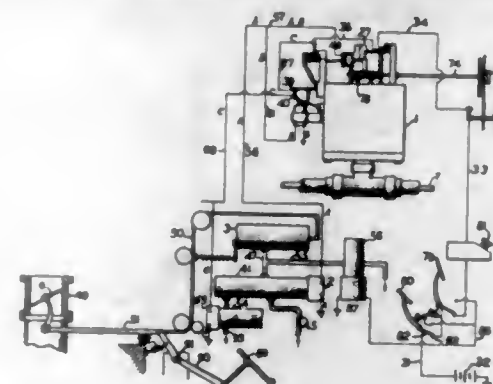
1. A two-stroke internal combustion engine having an inlet passage and an exhaust passage, comprising inlet

and exhaust valve means for controlling said passages, each valve means being movable from a closing position to an adjustable maximum opening position, means for imparting to said valve means a combined reciprocatory and oscillatory motion with stroke ends corresponding



respectively to said closing position and to said maximum opening positions, and means for adjusting said stroke ends, whereby the maximum values of the effective flow areas of said inlet and exhaust passages are simultaneously varied.

**2,714,880**  
**CONSTANT SPEED REGULATOR**  
 Frank J. Riley, Biloxi, Miss.  
 Application March 24, 1950, Serial No. 151,646  
 3 Claims. (Cl. 123-103)

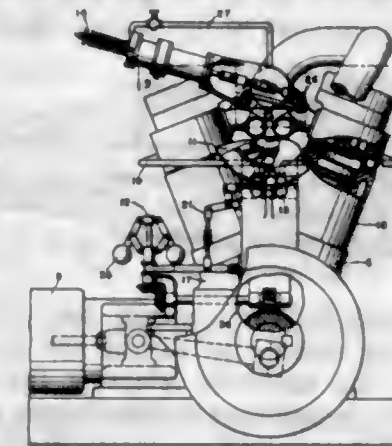


1. In a speed regulator for an internal combustion engine, a fuel delivery passage containing a valve for controlling the flow of fuel through said passage, a source of liquid under pressure, a primary cylinder containing a liquid actuated, spring-biased piston, a secondary cylinder having a solenoid and a liquid controlling piston and connected to said primary cylinder and to said source of liquid under pressure, a tertiary cylinder connected to a discharge reservoir and to said secondary cylinder and having a solenoid and a liquid discharge control piston, a source of electric current, an electric circuit leading from said source of current through the solenoid of said secondary cylinder, a second electric circuit leading from said source of current through the solenoid of said tertiary cylinder, means providing operative connection between the piston of said primary cylinder and said valve for moving said valve toward open position upon closing of said first named electric circuit and toward partly closed position upon opening of said first named electric circuit and toward closed position upon opening of both of said electric circuits and a speed responsive means connected to said electric circuits for opening and closing said circuits.

**2,714,881**  
**CONTROL SYSTEM FOR INTERNAL-COMBUSTION ENGINES**  
 Paul A. Bancel, Montclair, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey  
 Application May 6, 1953, Serial No. 353,385  
 6 Claims. (Cl. 123-119)

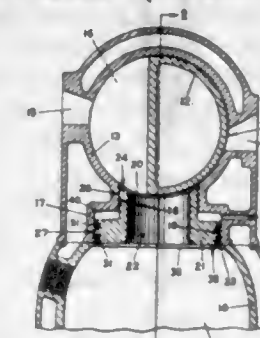
1. The combination with an internal-combustion engine having a plurality of cylinders, an air intake mani-

fold, branch pipes leading from the manifold to said cylinders, air valves in said branch pipes, a blower for supplying air under pressure to the manifold, means driven by the engine for driving the blower, a fuel manifold for supplying fuel to said cylinders, a fuel valve for controlling flow through the fuel manifold, a speed gov-



ernor driven by the engine and connected to said fuel valve and acting in response to variations in speed of the engine for actuating the fuel valve, a fluid pressure operated servo-mechanism connected to actuate the air valves, and a conduit connected between the servo-mechanism and one of said manifolds for supplying pressure fluid to actuate the servo-mechanism.

**2,714,882**  
**SEAL FOR A SLIDE VALVE**  
 Procter Brevard, Three Rivers, Mich.  
 Application December 19, 1949, Serial No. 133,698  
 4 Claims. (Cl. 123-190)

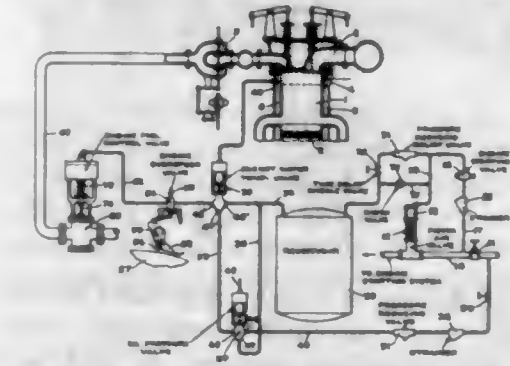


1. In a seal for a slide valve, the combination including: a longitudinally bored sealing member adapted to conduct a fluid therethrough and having its outer end contoured and adapted when under pressure to contact in fluid-tight relationship the sliding surface of a sliding valve member; an outer sealing region encircling and defining an outer effective area of the sealing member subject, when the sealing member and the sliding surface are not in pressure contact with one another, to substantially the same pressure as the fluid conducted by the sealing member; an inner sealing region encircling and defining an inner effective area of the sealing member greater than the outer effective area and subject at all times to substantially the same pressure as the fluid conducted by the sealing member; and means to maintain the pressure on the external surface of the sealing member between the sealing regions, during the time pressure contact of the sealing member with the sliding surface is desired, less than the pressure of the fluid within the sealing member.

**2,714,883**  
**PNEUMATIC SAFETY STARTING AND SHUT-DOWN SYSTEM FOR INTERNAL COMBUSTION ENGINES**  
 Martin C. Metzger, Buffalo, N. Y., assignor to Worthington Corporation, a corporation of Delaware  
 Application October 17, 1950, Serial No. 190,573  
 12 Claims. (Cl. 123-198)

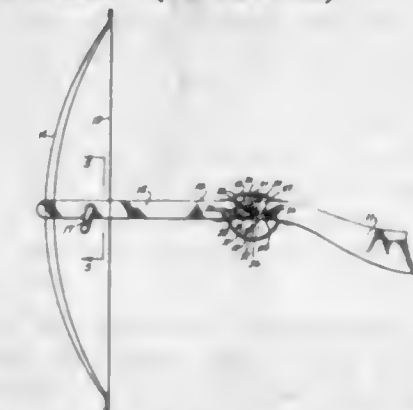
1. In a pneumatic safety starting and shutdown system for internal combustion engines, the combination with an internal combustion engine embodying a pressure air

operated starting system and a conduit for delivering pressure air to said starting system, of a pressure air actuated valve controlling delivery of fuel to the engine, a manually operated valve in said starting air conduit, a first pipe connected to said conduit downstream of said manually operable valve and connected to said fuel control valve to deliver operating pressure air to the fuel control valve, a manually operable starting valve interposed in said first pipe and operable to admit flow of pressure air to the fuel control valve or to bleed pressure air from the line leading to the fuel control valve,



a second pipe connected to said conduit upstream of said manually operable valve and connected to said fuel control valve for delivering air pressure thereto independently of said starting valve, and a valve interposed in said first and second pipe connections to said fuel control valve and operable when said starting valve is opened to admit passage of air from said first pipe to said fuel control valve and cut off pressure of air to the fuel control valve from said second pipe, said valve operable when said starting valve is in bleedoff position to admit pressure air from said second pipe to said fuel control valve.

**2,714,884**  
**CROSS BOW**  
 Rolland E. Ickes, Kalamazoo, Mich.  
 Application November 7, 1952, Serial No. 319,246  
 2 Claims. (Cl. 124-25)



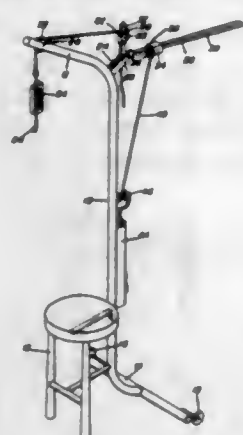
1. In a cross bow, a stock, a latch button pivoted on said stock, said latch button having ends projecting beyond opposite sides of the stock, an end of the latch button being retainably engageable with a bow string, a resilient sear having an end fixedly secured to the other side of the stock, said sear having a free end having a detent retainably engageable with the other end of the latch button to hold the latch button in drawn bow string retaining position, and a trigger pivoted on the said other side of the stock to swing on a horizontal axis, said trigger having a cam surface engaging the said sear and operative to flex the sear out of retaining engagement with the latch plate.

**2,714,885**  
**TRACTION TREATMENT DEVICE**  
 Floyd M. Uhland, Long Beach, Calif.  
 Application January 29, 1954, Serial No. 406,933  
 5 Claims. (Cl. 128-75)

1. A therapeutic appliance for applying traction comprising a standard having a supporting arm, a first pulley



carried by said supporting arm, a substantially L-shaped member having a horizontal lever arm and a vertical arm, means pivotally mounting said L-shaped member on said standard, a second pulley carried by said standard, a first slide adjustably positioned on said horizontal lever arm,



a first cable having a weight appended thereto secured to said slide and entrained about said second pulley, a second slide adjustably secured on said vertical arm, a second cable adjustably engaged by said second slide and entrained about said first pulley, and a spring scale secured to said second cable.

2,714,886

## GYNECOLOGIC INSTRUMENT

Charles Castelli, New Brunswick, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

Application August 20, 1953, Serial No. 375,314  
1 Claim. (Cl. 128—127)



In a gynecologic instrument for introducing a diaphragm into the vaginal cavity; the combination of an elongated body member having a handle at one end, a groove at the other end adapted to seat the rim of a flexible diaphragm, and a series of aligned, regularly spaced detents adjacent to the handle; and a member adapted to slide on the body member, having a forward ring encircling the body member, a projecting portion at the forward end adapted to seat and retain the rim of a diaphragm at a position diametrically opposed to the part of the rim seated in the groove of the body member, and a rearward ring encircling the body member and adapted to seat behind and be retained by a detent, the rearward ring being larger in diameter than the body member and the detent.

2,714,887

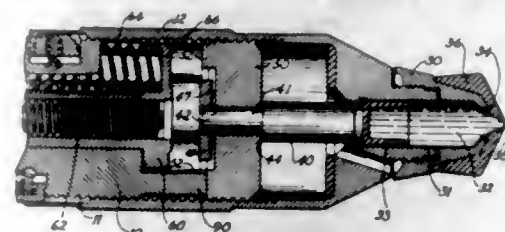
## INTRADERMAL INJECTOR

Anthony Venditty, Detroit, Mich., assignor to R. P. Scherer Corporation, Detroit, Mich., a corporation of Michigan

Application April 26, 1954, Serial No. 425,699  
3 Claims. (Cl. 128—173)

1. In a hypodermic injector, an assembly comprising an elongated body, an ampule holder detachably connected

to one end thereof and adapted to hold an orificed ampule, a plunger slidably mounted within a bearing member threadedly engaged with the inside wall of said body and adapted for engaging and propelling a follower in the ampule to discharge liquid from the ampule through a discharge orifice therein, said bearing member being adapted to rotate on said threads to bring said plunger into firm



contact with said follower, means for propelling said plunger including means for storing the driving energy therein, means for suddenly releasing the energy thus stored to perform propulsion of the plunger and follower, and stop means for limiting movement of said plunger with respect to said bearing member whereby a measured portion of liquid is discharged from said orifice.

2,714,888

## CARTRIDGE SYRINGE

David C. Williams, Needham Heights, Mass., assignor to MacGregor Instrument Company, Needham, Mass., a corporation of Massachusetts

Application October 3, 1952, Serial No. 312,887  
8 Claims. (Cl. 128—215)

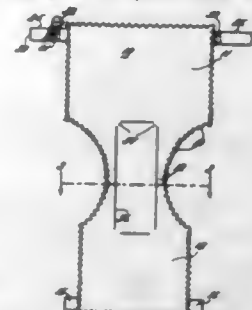


1. A hypodermic syringe of the cartridge type for use with a double-ended needle, said syringe comprising a cartridge receiving body including a tip at one end, said tip and said body having an axially disposed slot which extends from the free end of the tip into that part of the body in which the cartridge piercing end of the needle is to lie and which is wider than the diameter of said needle, the tip part of said slot being of such depth as to position a needle approximately axially of a cartridge in said body, a permanent magnet mounted in said body to yieldably hold a needle seated in said slot, and adjustable means on said tip to anchor a needle thereto.

2,714,889

## DIAPER

Urey B. Chambers, Jackson, Tenn.  
Application April 13, 1953, Serial No. 348,514  
1 Claim. (Cl. 128—287)



A garment of the nature described comprising a unitary structure having an outer moisture-proof surface, an

inner absorbent surface, and having an upper portion and a lower portion said upper portion being provided with oppositely extending adhesive tabs and the lower portion being provided with oppositely disposed extending portions cooperating in use with said adhesive tabs to form a waistband for said garment, and a reinforcing absorbent pad secured within the confines of the said absorbent surface the said surface being intermittently slit in substantial conformation with said pad.

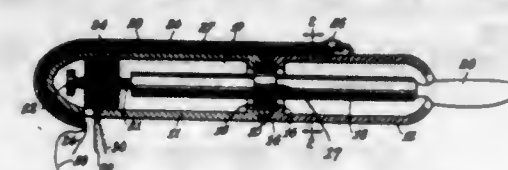
2,714,890

## VIBRATORY SURGICAL INSTRUMENTS

Alfred Vang, Carmel, Calif.

Substituted for abandoned application Serial No. 36,339, July 1, 1948. This application August 6, 1953, Serial No. 372,632

2 Claims. (Cl. 128—305)



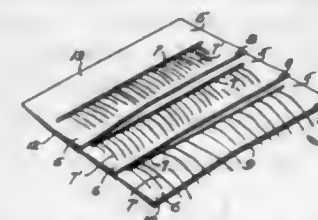
2. In combination, an elongated hollow cylindrical handle-like casing comprising rear and forward substantially half parts threaded together, said casing being provided with spaced internal annular ribs, one on each part near the threaded ends thereof, a free-free bar having an external annular flange at the nodal portion thereof secured between said ribs, the bar being adapted to vibrate in the hollow of the casing as a free-free bar, a surgical cutting tool on the forward end of the bar and projecting beyond the casing, an actuating rod on the rear end of the bar and an armature on the outer end of the rod, a solenoid coil around the rod and associated with the armature, a push button on the forward part of the casing, wires from the rear end portion of the casing and disposed thereon connected to the button, and cover means having a raceway therein for the wires and secured to the outer face of the casing.

2,714,891

## SCALP PROTECTOR DEVICE

Guy de Leyer, Miami, Fla.

Application August 31, 1953, Serial No. 377,410  
4 Claims. (Cl. 132—9)



1. A scalp protector device of the character described comprising a strip of pliable heat and fluid resisting material formed with a hair receiving slot, said strip having in one transverse edge a recess extending through the adjacent longitudinal edges, said strip being tapered to the other transverse edge, and adapted to enter the recess in the edge of another strip to form a continuous heat and steam resistant protector for the scalp.

2,714,892

## PLURAL-CHAMBER APPARATUS FOR TREATING OBJECTS

Elwyn E. Mendenhall, Reading, Pa., and Joseph K. Rulon, Washington, D. C., assignors, by mesne assignments, to Rulon-Henderson, Inc., Washington, D. C., a corporation of the District of Columbia

Application September 20, 1952, Serial No. 310,626  
6 Claims. (Cl. 134—72)

1. In an apparatus for treating objects, the improvement which comprises, in combination, a pair of adja-

cent horizontally-disposed chambers, an adjustable inclined baffle plate located over said chambers so as to overhang part of each of said chambers, said plate incompletely blocking both of said chambers at any position of tilt of said plate, and nozzle means located di-



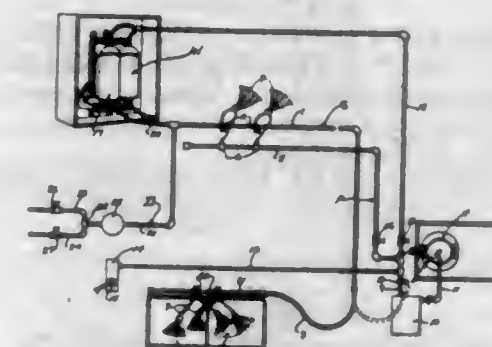
rectly over said chambers above the level of said baffle plate whereby at least some of the effluent from at least some of the nozzles located over one chamber is deflected by said baffle plate into the other chamber, most of the effluent from said nozzles entering this latter chamber and the balance entering the adjacent chamber.

2,714,893

## DIRECT WASHING, FLUSHING, AND STERILIZING SYSTEM OF STAINLESS STEEL MILK MACHINE PIPE LINES ON FARMS

Bernard P. Zimmer, Oconomowoc, Wis.

Application December 21, 1953, Serial No. 399,299  
2 Claims. (Cl. 134—93)



1. In a pipe line milking system including a milk conducting pipe line having a plurality of stall cocks, a vacuum line having outlets adjacent to the stall cocks, teat cup assemblies for detachable connection with the stall cocks and outlets, a flexible hose connected with the outlet of the milk line for connection with a milk storage vessel, a vacuum pump connected with the vacuum line, an automatic washer connected with the vacuum line and with the milk line, said vacuum line having connection with the milk storage vessel, a valve for controlling the vacuum to the vessel, a valve for shutting off the vacuum line, and a valve for shutting off the connection of the automatic washer with the vacuum line, a direct water line coupled with the milk line, valve controlled hot and cold water pipes leading to the water line and a detergent receiving well in said water line.

2,714,894

## TRANSFER FROM AUXILIARY TO AUTOMATIC CONTROL IN PRESSURE-ACTUATED SYSTEMS

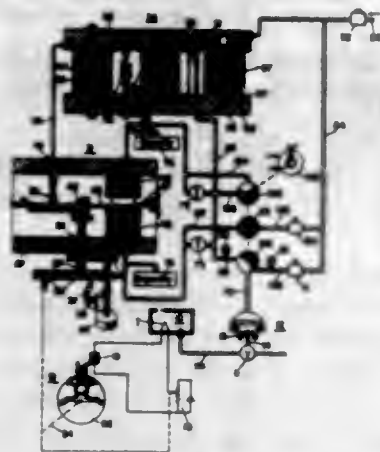
Lawrence E. Jewett, Newtown Square, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Application June 20, 1952, Serial No. 294,700  
24 Claims. (Cl. 137—14)

1. Transfer means for an automatically operable pressure-actuated control system for transferring the control of the final condition-controlling element from manual to automatic without changing the setting thereof though the condition under control be at any value, said system including a reset device for automatic reset control action, comprising a pressure regulator, valve-transfer means for establishing a flow connection between said reset device and



a source of supply by way of said pressure regulator, a second regulator, said valve-transfer means establishing a flow connection from a source of supply to said condition-controlling element by way of said second pressure regulator, and pressure gauges for indicating that the pressure in an output line from the control system and

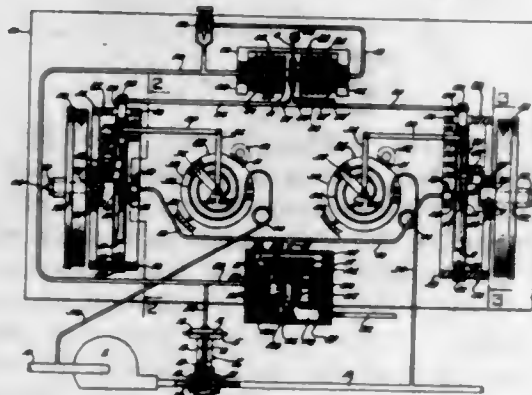


the pressure supplied to said controlling element have been equalized at the time transfer is to be made by operation of said valve-transfer means from manual to automatic to reestablish the flow connections for automatic control without disturbing the setting of said condition-controlling element.

2,714,895

#### PNEUMATIC CONTROL MECHANISM FOR MUTUALLY DEPENDENT VARIABLES

Ralph A. Rockwell, Hingham, Mass., assignor to Mason-Nellan Regulator Company, Boston, Mass., a voluntary association of Massachusetts  
Application April 23, 1952, Serial No. 283,875  
7 Claims. (Cl. 137-86)



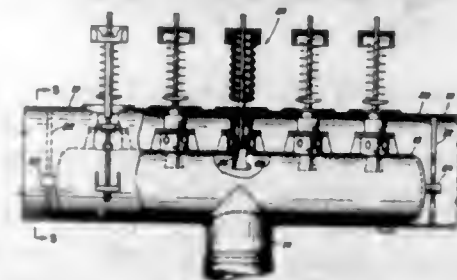
1. In apparatus for controlling predetermined limit values in a series of mutually dependent variables by regulating a manipulated variable, a control mechanism having a fluid pressure system and comprising, first and second valves each connected with said system and communicating with a source of fluid pressure for varying the pressure in the system, a first motion transmitting mechanism in operative connection with said first valve, a second motion transmitting mechanism in operative connection with said second valve, a first element responsive to changes in value in a first mutually dependent variable imparting movements to said first motion transmitting mechanism in response to said changes, a second element responsive to changes in value in a second mutually dependent variable imparting movements to said second motion transmitting mechanism in response to said changes, a proportioning-reset device including a first expansible member directly responsive to a pressure change in said system having a movement effective in a selected sense in response to said pressure change, a second expansible member responsive to a pressure change in said system through a restriction and having a movement effective in the opposite sense in response to said pressure change, and a motion responsive member operatively con-

necting the resultant movement of said expansible members with each motion transmitting mechanism, the resultant movement of said expansible members imparting movements to each motion transmitting mechanism in accordance with a selected reset rate, an independent proportioning band adjustment associated with each of said motion transmitting mechanisms for varying the movements imparted to said first valve and said second valve to provide independent proportioning band settings combined with a common selected reset rate, and regulating means actuated by changes in fluid pressure in the system for varying the value of said manipulated variable.

2,714,896

#### MULTIPLE SAFETY VALVE ARRANGEMENT

Emil Knautz, Hartsdale, N. Y., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware  
Application February 1, 1954, Serial No. 407,271  
5 Claims. (Cl. 137-512.1)



1. In an organization of the type described the combination of a conduit closed at its ends and adapted to withstand a high internal pressure, said conduit being provided with a plurality of valved openings being opened by pressure within said conduit and including valve stems extending radially outward of said conduit, an outer conduit of substantially larger diameter than said first named conduit, parallel with said first named conduit and having said first named conduit disposed therein, said outer conduit having openings through which said valve stems project, seal means preventing leakage around said stems where they project through said outer conduit while allowing limited tilting movement thereof relative to said outer conduit, adjustable means engaging the stem portion located outwardly of said outer conduit and effective to bias said valves to their closed position, a radially disposed inlet conduit extending through the wall of said outer conduit and connected to the first named conduit substantially centrally intermediate its ends, said outer conduit being secured to said inlet conduit where the latter extends therethrough.

2,714,897

#### MULTIPLE FLOW CONTROL VALVE

Robert A. Whitlock, Jr., Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois  
Continuation of application Serial No. 134,732, December 23, 1949. This application July 10, 1953, Serial No. 367,151  
9 Claims. (Cl. 137-628)

1. In a control valve, the combination of a body having a first chamber, a sleeve connected to said body having a passageway in communication with said first chamber, said passageway at the end of the sleeve adjacent the chamber being relatively wide and tapering to define a frusto-conical shaped recess, said passageway intermediate the ends of the sleeve shaped to define a second chamber and at the opposite end shaped to define a restricted throat and a flared portion, a reagent inlet passage communicating with said second chamber, a frusto-conical nozzle shaped to be received in said recess and said first chamber, said nozzle having a central passage having a large opening at one end and tapering to a small orifice at the oppo-

site end, said nozzle being movable between a position in which it seats in said recess and said orifice is positioned in said second chamber to discharge into said throat portion to define an injector for drawing reagent through said



reagent inlet passage into said second chamber and thence through said throat and a position in which the nozzle is received in said first chamber and defines with the recess an annular passage.

2,714,898

#### PRESSURING DEVICE

Arthur F. Reese, San Diego, Calif.  
Application April 10, 1950, Serial No. 154,998  
1 Claim. (Cl. 137-799)



An emergency pressuring device for an automobile vehicle fuel tank, comprising a flexible elongated air conducting tube, a spherical member adjacent one end of the tube and through which said tube extends in sealed relationship therewith, said member being soft, resilient and considerably larger in diameter than said tube to adapt the member for sealing engagement with the end of a fuel tank neck, a sensitive check valve operatively mounted on said one end adjacent the spherical member, the other end of the tube remote from said member comprising a combination mouthpiece and socket for an air pump delivery tube, said combination mouthpiece and socket facilitating delivery of pressurized air into the tube by lung power and air pump selectively, whereby air may be forced into a tank without danger of inhalation or escape of gasoline or gasoline fumes.

2,714,899

#### SHOCK ABSORBING MEANS OR ACCUMULATOR

Thomas C. Kane, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Co., Youngstown, Ohio, a corporation of Ohio  
Application March 2, 1951, Serial No. 213,638  
2 Claims. (Cl. 138-31)



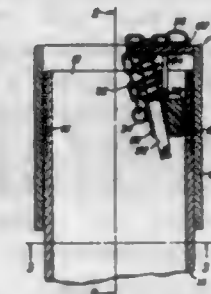
1. In apparatus operated by a hydraulic system, hydro-pneumatic shock absorbing means comprising a hydraulic cylinder with an opening at one end connected to said hydraulic system and a pneumatic cylinder of substan-

tially larger diameter at the other end of the hydraulic cylinder, a fill-check valve connected to the pneumatic cylinder to fill it with compressed air, a pair of displacement means movable in the respective cylinders and a connection therebetween extending slidably in sealed relation through adjacent ends of the cylinders, the displacement means in the hydraulic cylinder having a larger cross-sectional area than said opening and having an end adapted to extend across and close said opening when the latter displacement means moves to its extreme position toward said opening.

2,714,900

#### PIPE THREAD PROTECTOR

Ellis H. Williams, Long Beach, Calif.  
Application January 28, 1952, Serial No. 268,535  
8 Claims. (Cl. 138-96)

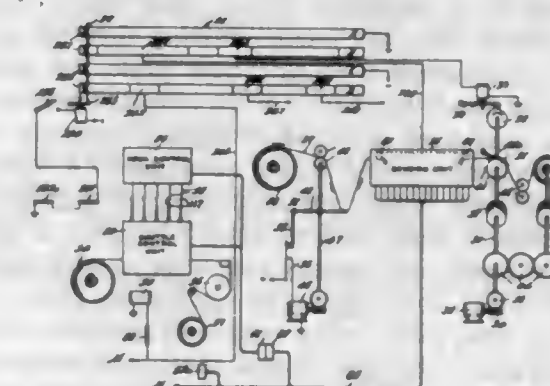


8. A self locking pipe thread protector including: a sleeve capable of slidably engaging the exterior surface of a pipe; a pipe-engaging element; means that movably support said pipe-engaging element within the confines of said shell so that said element as it moves inwardly relative to said sleeve, also moves laterally until it engages said pipe; spring means that automatically move said element to a pipe-engaging position when said sleeve is slid onto one end of a pipe; and manually engageable means affixed to said element which when pulled outwardly, move said element out of an engaging position.

2,714,901

#### ELECTRICAL CONTROL SYSTEM AND APPARATUS

Louis Casper, Richmond Hill, N. Y., assignor to Electrotex Corp., New York, N. Y.  
Application August 12, 1949, Serial No. 109,866  
10 Claims. (Cl. 139-1)



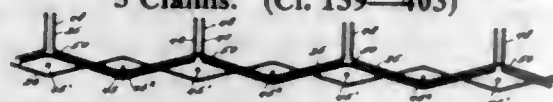
1. In combination, a selectively perforated tape, sensing means for sequentially sensing consecutive areas of said tape, electrical circuits controlled by said sensing means, a loom having a plurality of warp threads, a plurality of back-and-forth movable shuttles, means controlled by said electrical circuits to form sheds in said warp threads and select one of said shuttles in accordance with the perforations in consecutive areas of said tape means to position the selected shuttle opposite said shed, an electric motor in each of said shuttles, and means also controlled by said sensing means to apply electrical potential to the motor of the selected shuttle in either one of two directions.



2,714,902

**MULTIPLE PILE STAGGERED W-WEAVING**  
 Frank W. E. Hoesselbarth, Carlisle, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania

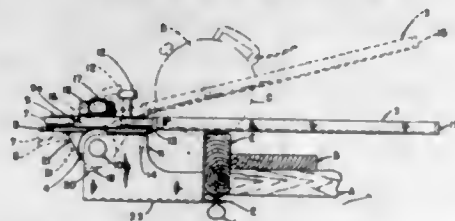
Application October 16, 1950, Serial No. 190,280  
 5 Claims. (Cl. 139-403)



1. A pile fabric having a single binder warp, a stuffer warp and at least two pile warps interwoven with wefts, the binder warp being woven in opposition to all pile warps, and the stuffer warp following the pile warps in the backing of the fabric and being woven in opposition to the binder warp, a given pile warp being the only pile warp raised in the pile at a given weft position, each pile warp successively being raised in the pile opposite the second weft from that opposite to which the next pile warp is raised and each pile warp then following through the backing of the fabric along with the stuffer warp throughout the successive wefts until all pile warps have been raised and then being raised in the pile, each pile warp being bound behind at least two wefts on either side of a row of pile, and the pile having high and low pile projections.

2,714,903

**PORTABLE POWER SAW GUIDE AND SUPPORTING MEANS**  
 Pryor Lamar Miller, Jacksonville, Fla.  
 Application February 17, 1954, Serial No. 410,799  
 1 Claim. (Cl. 143-6)



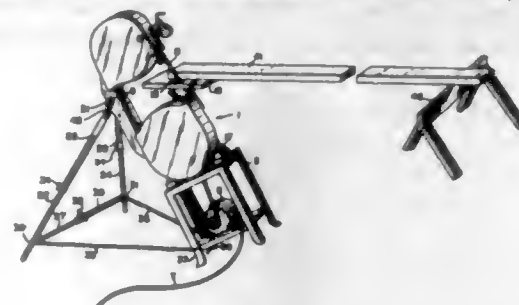
A guide and support for a portable power saw comprising a pair of laterally spaced track members along which said saw may be longitudinally shifted, an index head, said tracks being connected at one end to said index head, a base plate disposed beneath said index head, said base plate and said index head normally extending in a horizontal plane, means carried by said base plate for pivotally supporting said index head for angular adjustment in a horizontal plane, said index head having an arcuate slot, pin means passing through said slot and into engagement with said base plate for selectively holding said index head in a given adjusted position with respect to said base plate, an elongated support bracket, means for clamping said support bracket to a work table, a pair of spaced support brackets extending substantially perpendicularly from said elongated bracket, a shaft extending between said spaced brackets, means carried by said base plate for supporting said base plate on said shaft, said base plate being angularly movable in a vertical plane about the axis of said shaft, coil torsion spring means carried by said shaft for normally biasing said support upwardly about the axis of said shaft and means carried by said shaft for adjusting the tension of said coil spring means.

2,714,904

**TILTABLE BAND SAW STRUCTURE AND METHOD OF USING THE SAME**  
 Wilbur M. Bolton, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio  
 Application March 20, 1953, Serial No. 343,744  
 4 Claims. (Cl. 143-24)

1. In combination, a band saw having a forwardly independently tiltable plate, and means for supporting the

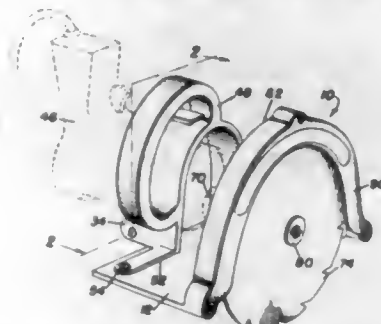
band saw as a unit in an angular position tilted rearwardly with respect to the forward end of the saw, said means



comprising a pair of extensible legs pivoted on the band saw.

2,714,905

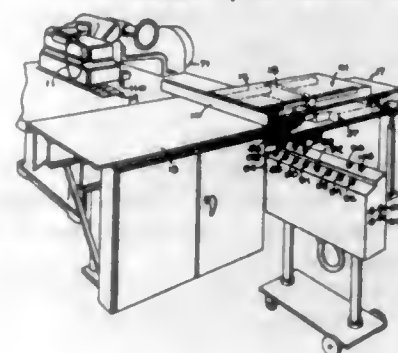
**PORTABLE SAW ATTACHMENT TO A POWER DRIVEN HAND TOOL**  
 Oliver H. Clayton, Van Nuys, Calif.  
 Application November 5, 1951, Serial No. 254,846  
 7 Claims. (Cl. 143-43)



7. In a portable saw, a motor mount comprising a horizontal base plate, a pair of spaced, parallel, upstanding mounting blocks on said base plate, an adjusting screw in each of said blocks, said screws being arranged in angular relation to each other and extending upwardly and inwardly between the blocks, an inverted U-shaped mounting frame, the open end of said frame being secured to said blocks, a locking screw carried by the bight of said frame, said locking screw extending in opposed relation to said adjusting screws whereby to clamp a motor in place on said base plate between said blocks and said mounting frame.

2,714,906

**ADJUSTABLE GAGING DEVICE FOR SAWS**  
 Gustaf J. Peterson, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a corporation of Illinois  
 Application November 26, 1951, Serial No. 258,159  
 6 Claims. (Cl. 143-174)

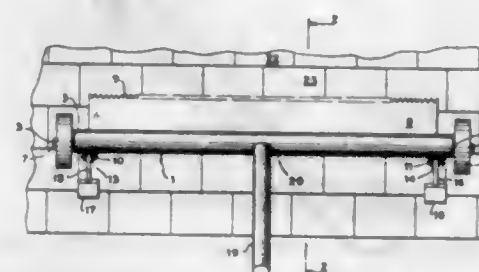


4. In a machine for sawing workpieces to different widths, the combination of, a carriage slidable along a predetermined path, a first set of cylinders mounted end to end on said carriage and forming a first row paralleling said path, a second set of cylinders mounted end to end on said carriage and forming a second row paralleling and disposed alongside said first row, said cylinders being of different lengths, pistons, one in each of said cylinders and each having a rod projecting from one end

of the piston toward the adjacent piston to abut the latter, one terminal rod in each row projecting beyond said carriage, a member mounted on the terminal rod of said first row and movable therewith to locate the saw and the work guide of said machine relative to each other in different positions, means to admit fluid pressure to selected cylinders in said first row thereby to move said member a predetermined distance relative to said carriage, stationary means connected to the terminal rod of said second row, and means to admit fluid pressure to selected cylinders in said second row thereby to move said carriage and said member bodily together a predetermined distance along said path.

2,714,907

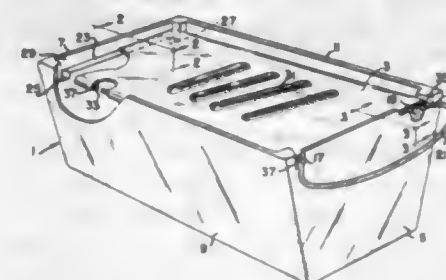
**SHINGLE LIFTING MEANS**  
 Ray O. Peck, Westfield, N. J., assignor to Guy H. Mulligan, North Plainfield, N. J.  
 Application August 29, 1952, Serial No. 307,085  
 2 Claims. (Cl. 145-1)



1. In a lifting device of the character described, the combination of a main support bar of circular cross section mounted on a pair of wheels, a lifting blade rigidly secured tangentially to the support bar, a pair of detent members pivotally mounted on said support bar and a handle rigidly secured to said support bar.

2,714,908

**SLAW CUTTER**  
 George L. Carmack, Bluffton, Ohio, assignor to Bluffton Slaw Cutter Co., Bluffton, Ohio, a copartnership  
 Application February 5, 1953, Serial No. 335,291  
 11 Claims. (Cl. 146-171)



1. In combination, a vegetable cutter and an open top container, the said container having a pair of opposed walls and the said cutter being supported therebetween below the top thereof and having a U-shaped handle of the cutter passing through one said wall below the top thereof, the one said wall being slotted vertically to permit upward removal of the cutter from the container.

2,714,909

**POTATO MASHERS**  
 John G. Bryn, Chevy Chase, Md.  
 Application March 27, 1953, Serial No. 345,159  
 7 Claims. (Cl. 146-213)

1. An implement of the class described, comprising a mashing member having openings therein from its lower to its upper side, and a handle member movably connected to the mashing member and having a clearing member fixed thereto for reciprocating movement trans-

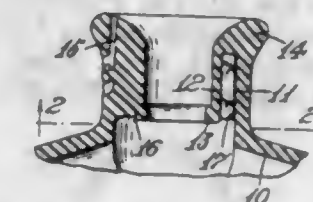
versely over the upper side of the mashing member from one edge to an opposite edge thereof to remove there-



from material which has passed upwardly through the openings to its upper side.

2,714,910

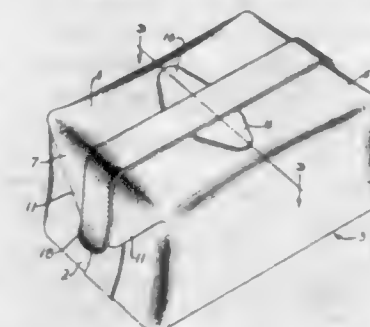
**RUBBER AND LIKE BOTTLES**  
 William Simon Freeman, Barnsley, England  
 Application January 29, 1953, Serial No. 334,017  
 Claims priority, application Great Britain February 18, 1952  
 4 Claims. (Cl. 150-2.1)



1. A rubber or like bottle of flat formation having parallel side walls and a neck and mouth portion formed with spaced inner and outer tubular walls whereof the inner wall extends a substantial distance down the inside of the neck and provides a tubular seat for a plug to close the mouth of the bottle, and the outer wall constitutes a continuation of the body of the bottle, which inner and outer walls are integrally connected with each other at their outer ends to form a rim around the mouth of the bottle, a plurality of longitudinal ribs extending axially and radially in the space between the walls, and integrally connected at a plurality of circumferentially spaced regions to the outer portion of the inner wall and the inner portion of the outer wall, and reinforcements provided at two diametrically opposite regions on the diameter parallel to the planes of the side walls of the bottle.

2,714,911

**TRAVELING CASE OR THE LIKE**  
 Giovanni Fontana, Milan, Italy, assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts  
 Application January 21, 1953, Serial No. 332,329  
 2 Claims. (Cl. 150-3)

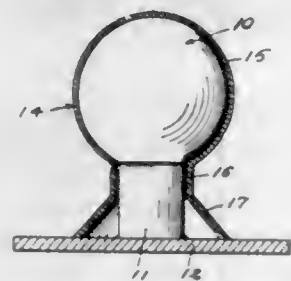


1. A traveling case or the like, which comprises a bottom and side and end walls forming a rectangular compartment, said side and end walls having portions extending upwardly therefrom a distance substantially equal to one half the width of said compartment, the



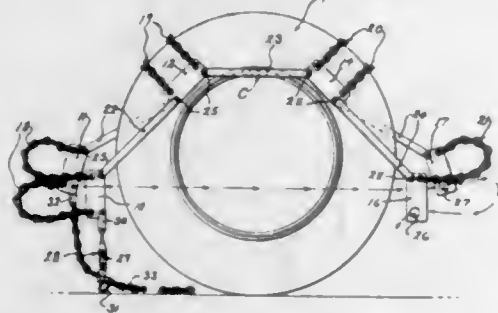
side walls and their respective extensions being connected together by inwardly biased zones of fold and the end walls and their respective extensions being connected together by outwardly biased zones of fold, and stiffly yielding members secured to the upper edges of the side wall extensions, said members having side arms extending toward each other and secured to the upper edges of said end extension, the free ends of said arms being spaced from each other, said end extensions being provided with inwardly biased zones of fold extending from the ends of said arms to the upper corners of said end walls, said side wall extensions being swingable about said first mentioned zones of fold to close the case and bring said members into closely adjacent parallel position with said arms in closely adjacent parallel position at the ends of the case and outwardly of said compartment, said side and end walls and said extension being provided with respective interior surface stiffening members including triangular portions defining and limiting the width of said inward and outward zones of fold at the ends of the case whereby said stiffly yielding members are maintained in closed position in the absence of closure fastening means.

**2,714,912**  
**TRAILER HITCH PROTECTOR**  
Peter Gonnella, Ionia, Mich.  
Application August 21, 1952, Serial No. 305,564  
1 Claim. (Cl. 150—52)



A protective cover for a hitch element mounted on a support plate and comprising a substantially spherical member rigidly connected to one end of a cylindrical stud having its other end connected to said plate, said protective cover comprising a substantially hollow spherical body formed of resilient material and provided with a laterally extending cylindrical neck, and said neck terminating in an enlarged outwardly flared radial flange, said spherical body and said cylindrical neck being adapted to snugly encase said spherical member and a portion of said stud, and said flange having its outer end in sealing engagement with said support plate.

**2,714,913**  
**ANTI-SKID DEVICE**  
Everett Behnke, Manitowoc, Wis.  
Application September 23, 1953, Serial No. 381,789  
1 Claim. (Cl. 152—213)



An anti-skid device, constructed and arranged to be attached to a tire from one side only, comprising, a plurality of cross tread chains, a plurality of cross tread chain receiving plates, said plates being arranged in pairs with a plate of each pair lying on the opposite side of the

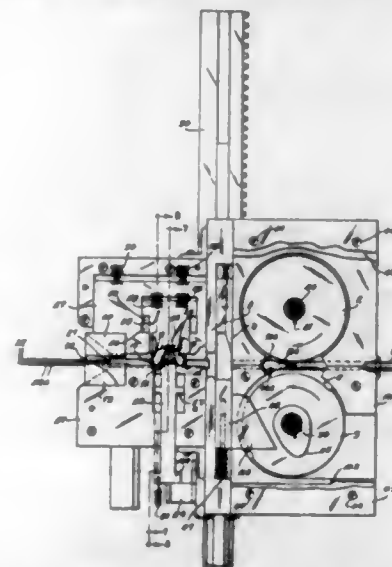
tire from its respective plate in the pair, pairs of links pivotally connecting the pairs of plates together with one end pair of plates being free from the next adjacent pair of plates, said end pair of plates being provided with aligned apertures, an elongated chain pivotally secured to one of said plates in the next adjacent pair, and a hook pivotally secured to the other plate, said elongated chain in one position threaded through the aligned apertures of one end pair of plates and a link received over the hook in the plate of the next adjacent pair, whereby a portion of said elongated chain acts as a cross tread chain.

**2,714,914**  
**ANTI-SKID DEVICE FOR TIRES**  
Patrick Champigny, Laval-des-Rapides, Quebec, Canada, assignor to Real Clavette, Montreal, Quebec, Canada  
Application January 19, 1953, Serial No. 331,823  
3 Claims. (Cl. 152—222)



1. An anti-skid device for tires comprising a flexible multi-strand cable, means to connect the ends of said cable around the outer surfaces of the tire, a flexible helical strip of flat section wound around and surrounding the whole length of said cable, the circumvolutions of said helical strip being spaced from one another, and a plurality of tubular rollers loosely strung in end abutting relationship on said cable and helical strip, said connecting means forming stop members to abut the end rollers at both ends of said cable, and forming also a sleeve enclosing and securing the ends of said helical strip.

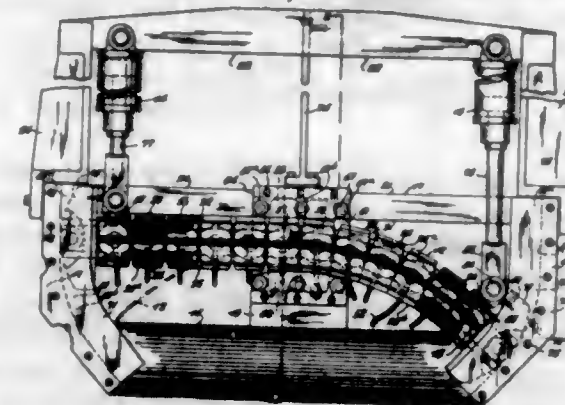
**2,714,915**  
**DETONATOR SHUNT APPLICATORS**  
Glenn R. Dixon, Alton, Ill., assignor to Olin Mathieson Chemical Corporation, a corporation of Virginia  
Application August 14, 1950, Serial No. 179,349  
9 Claims. (Cl. 153—1)



4. An apparatus for applying sheath to wires comprising parts defining a passageway open at one end to receive wires and open at the other end to receive sheath, said passageway conforming substantially to the shape of said sheath, means mounted adjacent the last mentioned end of said passageway for feeding a measured length of sheath into the passageway, said wire receiving end of

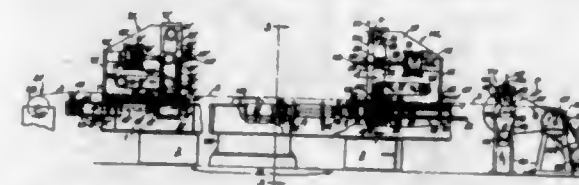
said passageway having a part arranged to abut the end of sheath inserted from the opposite end of said passageway, said part having an aperture aligned with said passageway and being split in the plane of the axis of said passageway, and means normally located at one side of said passageway and intermediate the ends thereof but movable across the passageway to distort sheath in the passageway at the time of such movement.

**2,714,916**  
**WORK GRIPPING AND FLEXING CHUCK MECHANISM**  
Lee B. Green, Lakewood, Ohio  
Application December 3, 1952, Serial No. 323,809  
15 Claims. (Cl. 153—35)



2. In work gripping mechanism, a plurality of gripper units each comprising a body having a work gripping means thereon including a pair of plunger actuated gripping jaws, said bodies being disposed in a series and being rockable relative to each other, and plate spring means flexibly connecting said bodies for said relative rocking.

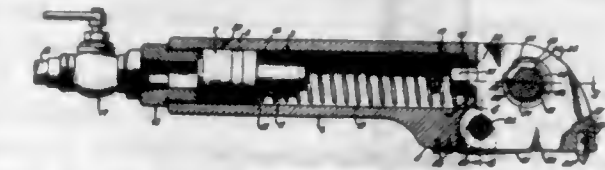
**2,714,917**  
**STRIP STRETCHING APPARATUS**  
Walter Laurenz Siegerist, Afton, Mo., assignor, by mesne assignments, to Continental Foundry & Machine Company, East Chicago, Ind., a corporation of Delaware  
Application May 27, 1954, Serial No. 432,811  
11 Claims. (Cl. 153—35)



1. Strip stretching apparatus comprising a bed having an input section and an output section, said input section including a first openable clamp fixed in position on said bed, said output section including a second openable clamp movable toward and away from the first clamp for gripping and stretching and releasing operations on strip material extending through the clamps, a strip feeding mechanism including means for supplying strip material to said apparatus, said mechanism being located adjacent the input section, and a take-off mechanism adjacent the output section, said take-off mechanism comprising roll means adapted to pull strip material from the movable clamp, variable-torque slip coupling means adapted to drive said roll means, and a motor driving said slip coupling means.

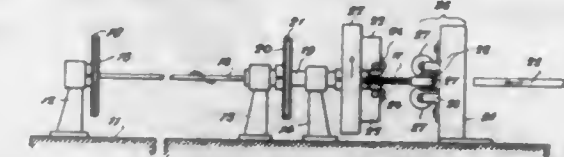
**2,714,918**  
**POWER OPERATED PICK HAMMER FOR SHEET METAL WORK**  
Evan L. Hopkins, Emporia, Kans.  
Application January 21, 1953, Serial No. 332,340  
5 Claims. (Cl. 153—48)

1. A pick hammer for sheet metal work comprising a body member, a striker element pivotally secured to



said body member for movement from a retracted position to a projected position, yieldable means biasing said striker element toward retracted position, impact means for imparting a blow to said striker element in a direction to force said striker element toward projected position, an adjustable stop member mounted in said body

**2,714,919**  
**APPARATUS AND METHOD FOR FORMING SEAMLESS FLEXIBLE TUBING**  
John M. Johnston, Hillside, N. J.  
Application March 20, 1951, Serial No. 216,634  
13 Claims. (Cl. 153—73)



1. Apparatus for forming helical convolutions in straight-walled ductile tubing comprising, in combination, a helically grooved worm over which the tubing is to be fed by being moved along its longitudinal axis when that axis substantially coincides with the longitudinal axis of the worm, the outside diameter of the worm being approximately equal to the inside diameter of the tubing, a forming head surrounding the worm, a die wheel rotatably mounted on said head for forming a helical groove in the tubing by forcing material of the tubing down into the groove of the worm upon relative rotation between the forming head and the tube, said die wheel being mounted to rotate about an axis at right angles to and displaced to one side of the axis of the worm, means for relatively rotating the forming head about the worm and tubing to form a helical groove in the tubing, and means for simultaneously relatively rotating the tubing and the worm to feed the convoluted tubing thus formed longitudinally along the worm.

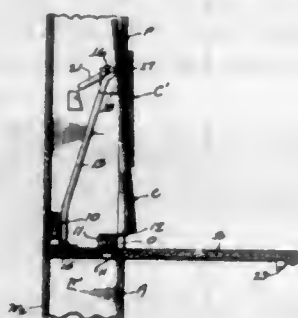
13. The method of forming helical convolutions in round, straight-walled, ductile tubing which comprises squaring the tubing, guiding the squared tubing longitudinally from the squaring device directly onto a worm having an outside diameter substantially equal to the inside diameter of the round tubing, forming a helical groove in the tubing by forcing material of the tubing down into the groove of the worm, and rotating the worm while holding the tubing against rotation in the squaring device so as to feed the convoluted tubing along and over the worm.

**2,714,920**  
**CONCEALED WALL SEAT**  
William Hancock, Los Angeles, Calif.  
Application September 3, 1953, Serial No. 378,287  
2 Claims. (Cl. 155—83)

1. In combination with a hollow wall having a front opening therein: a seat hinged to said wall at the lower edge of said opening; a stop mounted in said wall adjacent said opening; a first closure panel secured to said seat; and a second closure panel secured to said seat, the means securing the second panel slidably supporting the



upper end of said first panel whereby, when said seat is extended from said opening and engages said stop, said first panel is slidably supported on said means and sup-



ports said second panel, said first and second panels overlapping and together defining a back for said seat which closes said opening.

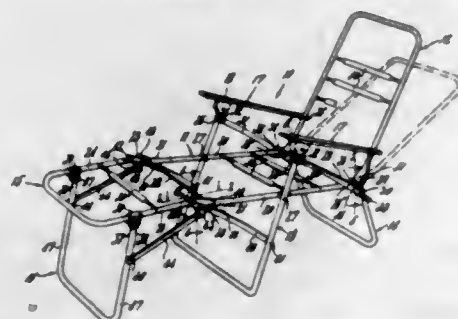
2,714,921

**CHAIR WITH FOLDING LEG REST**

Morton D. Rechler, New York, N. Y., assignor to Rexart Metal Industries, Inc., New York, N. Y., a corporation of New York

Application March 18, 1953, Serial No. 343,171

1 Claim. (Cl. 155-105)



A folding chair comprising in combination a seat frame, a front leg frame pivoted between its upper and lower ends to the sides of the seat frame, a rear leg frame, a cross rod forming pivotal means of connection between the seat frame, the rear leg frame and a back frame, operating links pivoted to the rear leg frame below the cross rod and extending forward to pivotal connection with the front leg frame above its pivots to the seat frame, a leg rest frame, a second cross rod providing pivotal means of connection between the leg rest frame and the seat frame, connecting links pivoted at their rear ends to the front leg frame below its pivots to the seat frame and having their forward ends pivoted to the leg rest frame, a folding support pivoted to the leg rest frame adjacent its outer end, secondary links pivotally secured at one of their ends to the folding support and at their other ends between the pivots of said connecting links, and arm rests pivoted at their rear ends to the back frame and having pivotal means of connection at their forward ends to the upper ends of the front leg frame, said first named cross rod carrying extensions which rest upon said operating links, said second cross rod having extensions which rest upon said connecting links, all three of said links coacting in timed relation to automatically fold and unfold the chair when the seat frame is swung respectively toward the back frame and away from the back frame.

2,714,922

**ADJUSTABLE RECLINING CHAIR**

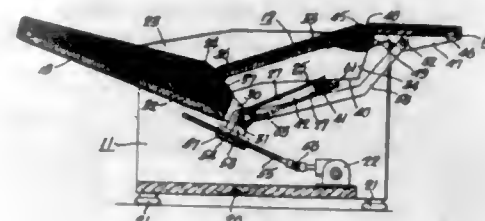
Joseph L. McKibban and Charles J. Bowen, Philadelphia, Pa.

Application October 17, 1952, Serial No. 315,332

7 Claims. (Cl. 155-106)

1. A chair comprising a frame, a back-supporting member, trunnions on said frame mounting said member for pivotal movement about a horizontal axis, a leg-supporting member, a seat member interposed between said back-

supporting member and leg-supporting member and having a cam surface on its underside extending longitudinally thereof in a direction forwardly and rearwardly of the chair, means mounting said seat member at its rearward end for pivotal movement on said trunnions, means at the forward end of said seat member pivotally mounting said leg-supporting member, a rod carried by said back-supporting member and extending transversely of the chair in parallel spaced relation to the pivotal axis of said member, a collar pivotally mounted on said rod and having an internally threaded sleeve portion, a screw shaft threaded in said sleeve portion, drive means for



said screw shaft operable to selectively rotate the latter in opposite directions to thereby displace said collar along the longitudinal axis of said shaft, a roller operatively connected to said rod, a track on said frame mounting said roller for longitudinal displacement in a predetermined path therein coincident with displacement of said collar, said roller engaging said cam surface to pivot said seat member about the pivotal axis at its rearward end, and a link element pivotally connected to both said rod and said leg-supporting member and operable in response to displacement of said rod to effect pivotal movement of said leg-supporting member about its pivotal axis in the forward end of said seat member.

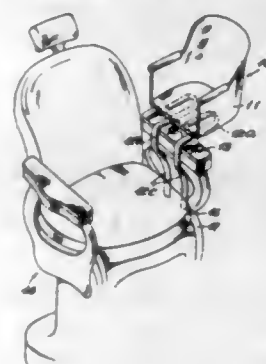
2,714,923

**CHILD'S SEAT ATTACHMENT FOR BARBER CHAIRS**

Benjamin F. Carothers, Hayward, Calif.

Application February 10, 1950, Serial No. 143,571

5 Claims. (Cl. 155-131)



1. A child's seat attachment for mounting in outboard position upon a standard barber chair, comprising a seat and a supporting bracket structure secured thereto, said bracket structure including a substantially U-shaped resilient seat engaging portion, an angle-shaped saddle portion with one leg of the angle forming a continuation of said U-shaped portion and the other leg extending vertically downward from a location adjacent the front of said seat, and a bracing portion connected to and extending downwardly and rearwardly from said vertical leg.

2,714,924

**AUXILIARY CHAIR**

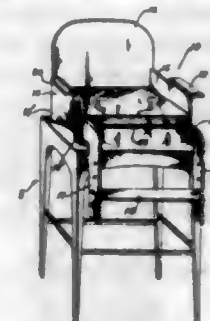
Sylvia Fischman, Forest Hills, N. Y.

Application December 21, 1953, Serial No. 399,465

3 Claims. (Cl. 155-131)

1. A chairette adapted for placement upon the seating surface of a normal-sized chair to elevate the position of a sitter thereon, comprising a pair of vertical side-pieces each having a front leg and a rear leg, a hori-

zontal member interconnecting said side-pieces to provide a seat on the upper surface thereof and a compartment on the under surface thereof, and a footrest comprising a pair of arms pivotally secured to said front legs at



points adjacent said undersurface and foldable into said compartment, said footrest arms being outwardly and downwardly extendable to clear the seating surface of said normal-sized chair and to provide a resting step for the feet of said sitter.

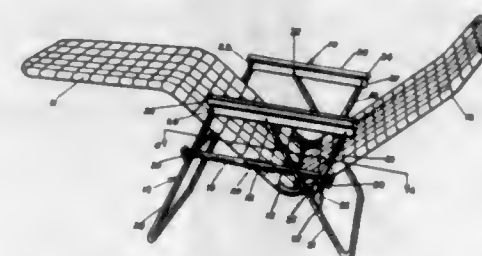
2,714,925

**CONTOUR LOUNGE CHAIR**

Harry Rosenfeld, Miami Beach, Victor Reiter, Miami, and Max Deakter, Coral Gables, Fla.

Application December 30, 1953, Serial No. 401,222

3 Claims. (Cl. 155-139)



1. A collapsible lounge chair comprising a seat, a back rest, pivot means securing said seat and said back rest, a horizontal member positioned on each side of said seat and back rest, said pivot means being mounted on said horizontal members, an arm rest mounted above each of said horizontal members, front leg means pivotally mounted to each of said arm rests and to said horizontal members, rear leg means, pivot means securing said rear leg means to said arm rest, said rear leg means extending to the rear of said chair at an oblique angle, a pivot arm, pivot means mounting said pivot arm to said arm rest and said horizontal member in substantially parallel relation with said front leg means, and a link pivotally connecting said horizontal member and said rear leg means.

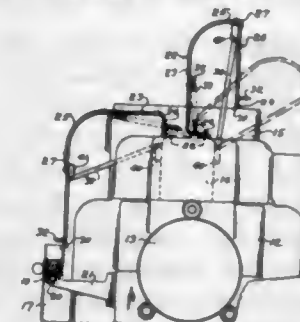
2,714,926

**SPLASH GUARDS FOR MACHINE TOOLS**

John J. Nichta, Parma, Ohio, assignor to The Wagner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application June 6, 1952, Serial No. 292,063

5 Claims. (Cl. 160-191)



1. A splash and chip guard adapted to be used with a machine tool of the type having a longitudinally extending work area and a horizontal longitudinally extending frame member located centrally above the work

area and comprising a first member, hinge means secured to said first member at one longitudinal edge thereof and adapted to be secured to the horizontally extending frame member of the machine tool for pivotally connecting the first member thereto for swinging movement about a horizontal axis between substantially vertical and horizontal positions, a second member, means hinging the second member at its upper longitudinal edge to the other longitudinal edge of the first member so that said second member extends substantially vertically downwardly when said first member is positioned substantially horizontally, rigid link means pivotally connected at one end thereof to said second member at a location thereon adjacent the longitudinal upper edge of said second member and adapted to be pivotally connected at the opposite end thereof to said frame member of the machine tool at a lower level than said first mentioned hinge means to maintain said second member always in a vertical position as said first member is moved between the horizontal and vertical positions, and an elongated spring means connected at one end thereof to said first member between the two mentioned hinging means and adapted to be connected at the other end thereof to said frame member of the machine tool in a manner such that the force of said spring varies in accordance with variations in the location of the combined center of gravity of said first and second members as the latter are moved thereby counterbalancing the weight thereof.

2,714,927

**TIMING DEVICE**

Kurt G. Stern and Maxwell S. Kamm, New York, N. Y.

Application June 18, 1953, Serial No. 362,518

1 Claim. (Cl. 161-15)



A timing device comprising a transparent tube provided with a time scale along its surface, said tube being closed at both ends and being completely sealed, silicone liquid completely filling said tube, said liquid having a viscosity which exhibits a minimum dependence on temperature, means at the ends of the tube for supporting said tube either in upright or inverted positions, and a float member slidably disposed in said tube and being entirely contained therein, said float member being of a material different in density than said liquid and being formed with a bore connecting its top and bottom surfaces, the ends of the bore being open and completely unobstructed at all times, whereby liquid may move freely through said bore as the float member moves vertically in said tube both in the upright and inverted positions of the tube, said float member being visible from outside the tube at all positions therealong.

2,714,928

**SELECTIVELY OPERATED PUNCHES MOUNTED IN AN AIRTIGHT COMPARTMENT**

Israel Rotkin, Hyattsville, and Jacob Rabinow, Takoma Park, Md., and Joseph A. Guarracini, Washington, D. C., assignors to the United States of America as represented by the Secretary of Commerce

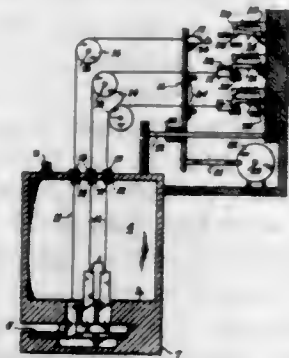
Application January 30, 1952, Serial No. 269,102

7 Claims. (Cl. 164-111)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. A selective multiple punch comprising an airtight compartment, a plurality of punches slidably mounted



in and extending through at least one side of said compartment, air pressure in said compartment for urging said punches outward, a separate latching means for each of



said punches for holding said punches in an unactuated position against the force of said air pressure, and means for selectively unlatching said punches.

2,714,929

## SELECTIVE PLUGGING IN OIL WELLS

Theodore J. Nowak, Brea, and Paul W. Fischer, Whittier, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application April 26, 1954,

Serial No. 425,716

13 Claims. (Cl. 166—33)

1. The method of selectively plugging oil- and water-producing formations penetrated by a well bore to decrease the production of water therefrom which comprises forcing into said formations an oil-miscible water-immiscible first liquid which is capable of reacting with a water-miscible oil-immiscible second liquid under the conditions of temperature and pressure prevailing in said formations to form a substantially water-insoluble solid, allowing said formations to produce until the effluent therefrom is substantially free from the injected first liquid, forcing said water-miscible oil-immiscible second liquid into said formations, and holding said second liquid within said formations until said substantially water-insoluble solid is formed within said water-producing formations by reaction between said second liquid and said first liquid retained in said water-producing formations as residual saturation.

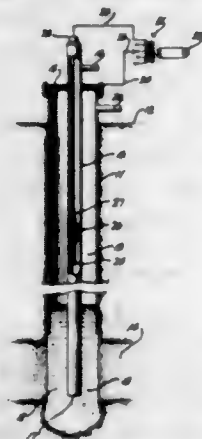
2,714,930

## APPARATUS FOR PREVENTING PARAFFIN DEPOSITION

Clayton A. Carpenter, Wilmington, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application December 8, 1950, Serial No. 199,813

2 Claims. (Cl. 166—60)



1. In combination, an electrically conductive well tubing positioned within a well; a cable extending within said tubing and supporting at its lower end an electrically conductive weighting member adapted to be lowered into and withdrawn from said tubing, said cable being substantially uniformly electrically resistant throughout its

length and being maintained taut by the action of gravity on said weighting member; an electrically conductive upper sleeve rigidly attached to said weighting member; an electrically conductive lower sleeve free to slide along said weighting member; a plurality of electrically conductive radially extending spring bows disposed radially around said weighting member and attached at their upper ends to said upper sleeve and at their lower ends to said lower sleeve, said bows being adapted to frictionally engage the inner walls of said tubing; and means for applying an electric potential between said cable and said tubing.

2,714,931

## REMOVABLE BRIDGING PLUG

George A. Bouvier, Sierra Madre, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application August 8, 1951, Serial No. 240,847

14 Claims. (Cl. 166—119)



1. A bridging plug comprising: a mandrel; a compression sleeve encircling said mandrel and longitudinally slidable thereon; packing means on said mandrel with one end thereof adjacent said compression sleeve; a nosepiece having a shank portion and a head portion, said shank portion being attached to said mandrel adjacent the end thereof opposite to said compression sleeve, and said head portion being adapted to engage the other end of said packing means and cooperable with said compression sleeve when said compression sleeve and said head member are moved longitudinally toward one another to apply longitudinal compressive force through said packing means on said mandrel; and a fracture groove encircling said nosepiece between said shank portion and said head portion.

2,714,932

## BRIDGING PLUG

Archle E. Thompson, Bell Gardens, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application August 8, 1951, Serial No. 240,856

4 Claims. (Cl. 166—119)

1. A well tool as described comprising in combination: a mandrel having external wickers formed thereon; a first slip cone on said mandrel; a second slip cone slidably mounted on said mandrel for longitudinal movement toward said first slip cone, the converging ends of said cones being directed toward each other; a plurality of slips carried by and between said slip cones; a packing sleeve on said mandrel, one end thereof being adjacent the diverging end of said second slip cone; a packer expander sleeve slidable on said mandrel toward the other end of said packing sleeve for expanding said packing sleeve and for moving said second slip cone toward said

first slip cone for setting said slips; circumferentially spaced, longitudinal slots formed in the converging end portion of said second slip cone, forming a plurality of radially flexible finger portions; and wickers formed on

to rotation of the drive wheel, and means under the control of an operator for actuating the first named means to shift the frame downwardly against the restraint of said spring means.



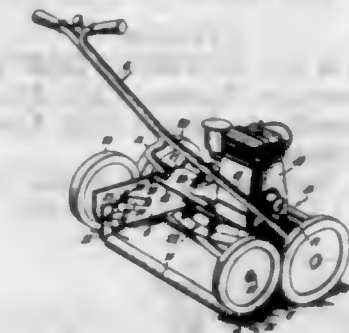
2,714,934

## POWER LAWN MOWER WITH REVERSING MECHANISM

Kenneth H. Cassady, Miami, Fla.

Application November 14, 1952, Serial No. 320,495

6 Claims. (Cl. 180—19)



the inside surface of said finger portions to effect locking engagement with said wickers on said mandrel after movement of said second slip cone to a slip setting position.

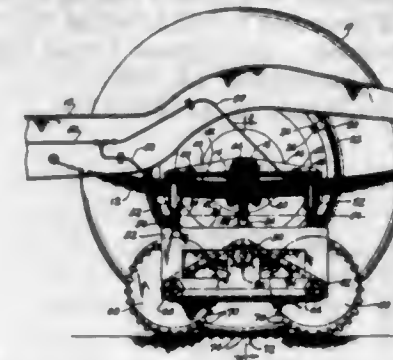
2,714,933

## AUXILIARY ENDLESS-TREAD TRACTION DEVICE FOR VEHICLES

Francis D. Harris, Yeadon, Pa.

Application June 5, 1953, Serial No. 359,775

3 Claims. (Cl. 180—9.1)



1. In a traction device for a vehicle having an axle housing and a drive wheel, a plurality of elongated supports adapted to be fixedly connected intermediate their ends to said axle housing, said supports being spaced longitudinally of and respectively extending transversely of said axle housing; a frame having an inverted U-shaped cross section, said frame including a horizontal top wall and vertical side walls depending from opposite side edges of said top wall, said supports extending parallel with said side edges of the top wall, and being spaced above and substantially vertically of the respective side edges of the top wall, the opposite ends of the supports terminating above the opposite ends of said top wall; rollers spaced longitudinally of the frame between the side walls of the frame, said rollers being journaled upon the side walls at locations spaced longitudinally of the side walls; a traction belt trained about said rollers; rectangularly spaced means extending between the frame and said supports, said means extending downwardly from the opposite ends of the respective supports to the opposite ends of said top wall of the frame, said means being adapted for forcing the frame downwardly to engage the traction belt against the ground surface; spring means connected between the midlength portion of the frame and the respective supports, said spring means being adapted for normally exerting a pull upon the frame in an upward direction sufficient to shift the traction belt out of engagement with the ground surface; a drive-transmitting linkage extending between said drive wheel and said rollers, for rotating the rollers responsive

1. A power driven lawn mower comprising a frame, a motor supported on said frame, a pair of forward driving wheels journaled on said frame and intercoupled with said motor, a second pair of wheels for imparting rearward movement to said frame, wheel hangers pivoted on said frame, means journaling said second pair of wheels on said wheel hangers, means on said frame limiting pivotal movement of said wheel hangers to support said wheel hangers on preselected upward tilting of said frame, roller means, roller hanger means pivoted on said frame, stop means on said frame positioning said roller means when said frame is substantially horizontal to support said second pair of wheels out of contact with the ground and out of contact with said forward driving wheels, said stop means engaging said roller hanger means in another position on tilting of said frame downwardly to bring said second pair of wheels into contact with the ground, shift said wheel hangers to bring said second pair of wheels into driving engagement with said forward driving wheels, and lift said forward driving wheels out of contact with the ground.

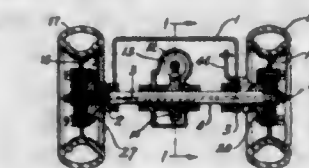
2,714,935

## TRACTOR WHEEL CARRIED CLUTCHES AND OPERATING LINKAGE THEREFOR

Louis S. Papp, Chesterland, Ohio, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application December 22, 1953, Serial No. 399,711

5 Claims. (Cl. 180—19)



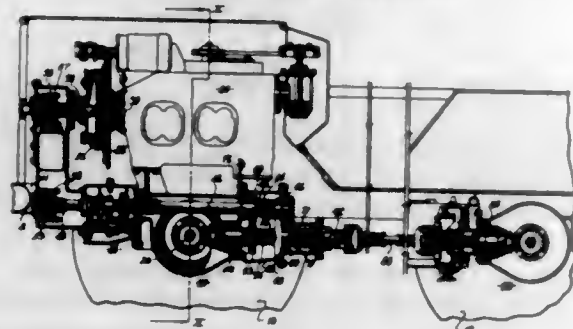
1. In a garden tractor having an engine, a rotatably mounted tubular axle, drive means interconnecting said engine and axle for continuous rotation of the latter during operation of the engine, and wheels freely rotatably mounted on the respective end portions of said axle; a rod passing through said axle, clutch plates of friction material secured on the end portions of said axle for rotation therewith, annular clutch plates secured to said wheels for rotation therewith and interleaved with said first clutch plates adapted drivingly to engage the same only under the action of axial compressive force, a clamping plate on each end of said rod adapted to engage such respective clutch plate assemblies, securing means on the respective ends of said rod adapted to engage said respective clamping plates to secure said wheels



on said axle but normally affording insufficient axial compressive force to interengage said clutch plates to drive said wheels with said axle, cam means rotatably mounted on said axle adapted to engage one said wheel to shift the latter toward the respective said clamping plate to interengage the clutch plates of its clutch assembly and also by the resultant pull imposed on said rod acting simultaneously to interengage the clutch plates of the other assembly, and manually operable link and lever means for rotating said cam.

2,714,936

**VEHICLE WITH FOUR WHEEL DRIVE ASSEMBLY**  
Benjamin F. Gregory, Kansas City, Mo., assignor, by mesne assignments, to Marco Mfg. Company, Wheatland, Pa., a corporation  
Application January 2, 1952, Serial No. 264,572  
1 Claim. (Cl. 180-44)



In a power transmission for vehicles having a pair of front wheels and a pair of rear wheels, a prime mover having a normally horizontal drive shaft extending forwardly therefrom; a first stub shaft in alignment with the drive shaft and disposed forwardly thereof; clutch means between the first stub shaft and the drive shaft for releasably interconnecting the same; a second stub shaft underlying and parallel to the first stub shaft; means coupling the first stub shaft with the second stub shaft; a driven shaft underlying the prime mover and disposed in alignment with and rearwardly of the second stub shaft; a selective transmission coupling the driven shaft with the second stub shaft and disposed therebetween; a front differential gearing connected to the front wheels and underlying the prime mover, said front differential gearing having a rearwardly extending, main driving member underlying and parallel to the driven shaft; a gear box assembly coupling the member with the driven shaft adjacent the rear of the latter; a rear differential gearing connected to the rear wheels, said rear differential gearing having a forwardly extending, main driving element in substantial alignment with the member; and coupling means disposed between the member and the element including selectively shiftable, releasable structure for alternately, positively intercoupling and decoupling the member with the element, said gear box assembly coupling the member with the driven shaft including a pair of gears of differing diameters rigidly carried by the member, a corresponding pair of gears rotatably mounted on the driven shaft and continuously in mesh with said gears on the member, and a device reciprocally mounted on the driven shaft for rotation therewith, said device being shiftable along the driven shaft between a pair of alternate positions respectively, disposing the device in positive engagement with each of said gears on the driven shaft.

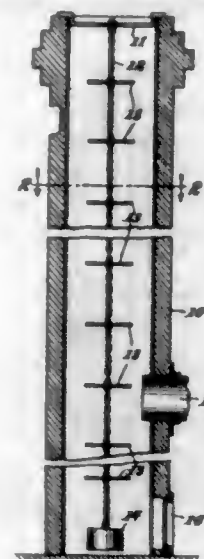
2,714,937

**CHIMNEY SILENCER**

Leon E. Houle, Willimantic, Conn.  
Application May 25, 1954, Serial No. 432,180  
2 Claims. (Cl. 181-33)

1. A device to prevent noises in chimneys resulting from the resonance of the column of gas therein compris-

ing a bracket adapted and arranged to be supported by its ends across the open top end of a chimney, a chain secured by one of its ends to said bracket midlength

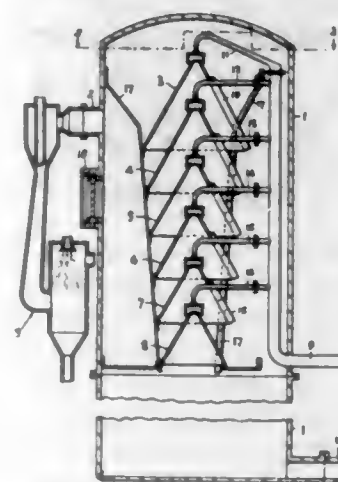


thereof, a plurality of horizontally disposed discs secured to said chain in spaced relation to each other, and means on said chain at its other end operable to restrain movement of said chain in the chimney.

2,714,938

**APPARATUS FOR THE DE-AERATION OF VISCOUS LIQUIDS**

John O. Smith, Coventry, England, assignor to Courtaulds Limited, London, England, a British company  
Application December 9, 1952, Serial No. 324,980  
Claims priority, application Great Britain December 18, 1951  
3 Claims. (Cl. 183-2.5)



1. Apparatus for the continuous de-aeration of viscose comprising a container, a vacuum pump connected to said container, a series of conical plates, one below the other, in said container, each of said plates having an apex and the apex of each plate being the highest point thereof, and an inlet pipe feeding to the apex of each plate, an end of each pipe and the apex of the associated plate forming an annular orifice through which viscose flows onto the plate as a thin film, and an outlet at the bottom of the container for de-aerated viscose.

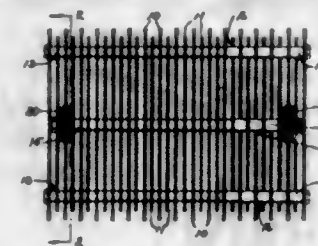
2,714,939

**ELECTROSTATIC PRECIPITATORS**

Earl L. Richardson, Hyde Park, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application April 1, 1953, Serial No. 346,239  
3 Claims. (Cl. 183-7)

1. A collector cell for an electrostatic precipitator comprising a plurality of spaced, substantially parallel collector plates, means including tie rods and spacers

around the tie rods for supporting alternate of said plates, the others of said plates having clearance openings through which said tie rods and spacers pass, and means for supporting said other plates from a pair of plates

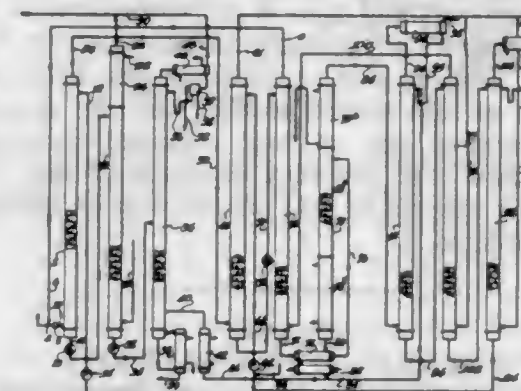


of said alternate plates, said means including slots in said plates of said pair, said slots extending inwardly from opposite sides of said plates of said pair, and insulators in said slots.

2,714,940

**PURIFICATION OF ACETYLENES**

Thomas J. Milligan, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
Application July 12, 1952, Serial No. 298,605  
5 Claims. (Cl. 183-115)

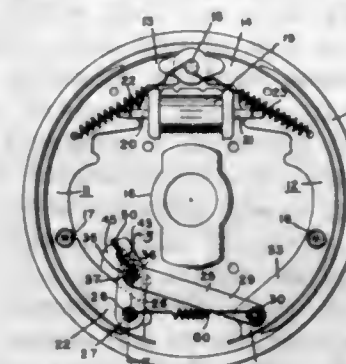


1. The process of recovering acetylene from a crude gas obtained by the pyrolysis of a hydrocarbon which comprises passing said gas through a sufficient amount of dimethylformamide to remove any diacetylene but in insufficient amount to remove a substantial quantity of acetylene, passing said gas through a second quantity of dimethylformamide of sufficient amount to absorb nearly all of the acetylene from said gas, selectively stripping any ethylene or carbon dioxide from said second quantity of dimethylformamide, separating the remaining absorbed gas from said dimethylformamide, and passing such separated gas through a third quantity of dimethylformamide of sufficient amount to absorb nearly all of the methylacetylene therefrom and withdrawing, as product, the acetylene passing from said third quantity of dimethylformamide.

2,714,941

**AUTOMATIC BRAKE WEAR ADJUSTOR**

Robert H. Bauman, Dayton, Ohio, assignor to General Motors Corporation, a corporation of Delaware  
Application January 4, 1954, Serial No. 402,044  
5 Claims. (Cl. 188-79.5)



1. In a brake structure, an adjusting mechanism for adjusting the clearance between the brake shoes and the

brake drum of the brake structure, the combination of, a pair of cooperating brake shoes, and an adjusting device between two adjacent ends of the brake shoes to effect relative movement between the shoes comprising, a pair of lever means forming a jackknife lever system between the said adjacent ends with the free ends of the lever means connected respectively with the brake shoes with one of the connections being a lost motion connection, a wedge member carried on the knee joint of said lever system and positioned between the said knee joint and one of said shoes in engagement with the said shoe and movable relative to the same upon extension of the said lever system by relative movement between the said adjacent ends of said shoes to spread the same, and resilient means operably connected with said wedge member to effect movement thereof on the knee joint toward the apex of the jackknife lever system upon extension movement of the lever system.

2,714,942

**SHOCK ABSORBER WITH FLOATING BAFFLE**  
Mearick Funkhouser, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application March 1, 1950, Serial No. 147,073  
4 Claims. (Cl. 188-100)



1. An hydraulic shock absorber consisting of a cylinder having a reciprocative piston therein, a fluid containing reservoir in communication with said cylinder through fluid flow controlling means attached to the cylinder, said means providing for the controlled transfer of fluid between the cylinder and reservoir in response to reciprocation of the piston, said transfer of fluid varying the fluid level within the reservoir, and a buoyant mass floating upon the fluid within the reservoir moving in accordance with the rise and fall of the fluid therein and effecting restriction to the movement of fluid within the reservoir between opposite sides of the mass whereby to damp agitation of the fluid in the reservoir.

2,714,943

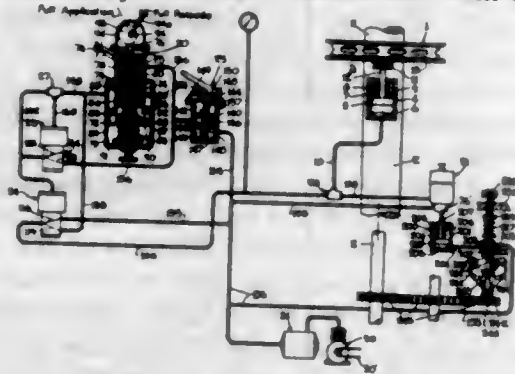
**FLUID PRESSURE BRAKE APPARATUS**

Fred S. Whaley, Greensburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania  
Application November 30, 1949, Serial No. 130,098  
6 Claims. (Cl. 188-151)

2. In a hoisting mechanism, the combination with a rotary element adapted to feed out a flexible line for lowering a suspended weight, braking means for restraining rotation of said rotary element, manually controlled means responsive to movement of an operator's control element to control degree of application of said braking means, speed controlled means responsive to rotational speed of said rotary element above a certain value to control

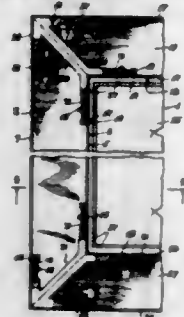


degree of application of said braking means for preventing increase in said rotational speed to any material extent above said certain value, and means cooperative with said manually controlled means and with said speed



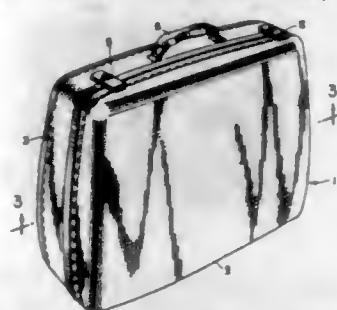
controlled means to render said braking means responsive to either the manually controlled means or to the speed controlled means according to whichever means calls for the greater degree of brake application.

**2,714,944**  
**WINDOW OR DOOR SASH CORNER CONSTRUCTION**  
Joseph Thomas Bongiovanni, Rocky Point, N. Y.  
Application December 8, 1949, Serial No. 131,746  
10 Claims. (Cl. 189—36)



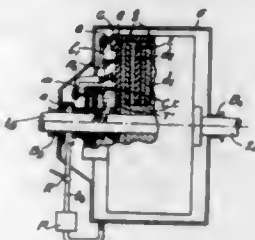
1. In a frame construction for a window or door the combination with a pair of elongated tubular framing elements disposed in angular relation to each other and extending along respective adjacent sides of said frame from a corner of said frame, each of said framing elements having oppositely disposed walls providing inner opposed surfaces extending generally parallel to the length of said element, of a bracket cooperating with said framing elements adjacent said corner for connecting the said elements together in said angular relation to each other, said bracket having a trunk portion disposed between oppositely disposed walls of said framing elements adjacent the joint between said framing elements at said corner of the frame and having cantilever arms extending from said trunk portion respectively along and providing outwardly disposed faces respectively adjacent said inner opposed surfaces of said elements, said arms respectively being provided with cavities in said faces thereof open toward the respective adjacent inner wall surfaces, the respective adjacent walls of said framing elements being provided with protrusions from said inner wall surfaces projecting into the respective cavities in the respective arms of said bracket to position said bracket and said framing elements with respect to each other with said trunk disposed adjacent said joint between said angularly related framing elements and with said arms disposed within said tubular elements, said arms of said bracket being capable of sufficient resilient flexure transversely of said faces thereof so that the extremities of said arms of said bracket may move transversely of the respective faces to pass by said protrusions so that said arms may slide over said protrusions upon engaging said bracket arms between said inner opposed surfaces of said walls of said framing elements until said protrusions project into said cavities of said arms.

**2,714,945**  
**FRAME FOR HAND LUGGAGE OR THE LIKE**  
Sol Koffler, West Warwick, R. I.  
Application November 17, 1953, Serial No. 392,583  
6 Claims. (Cl. 190—28)



1. In combination with a two-section case or the like wherein the sections are hingedly connected for closure with their edges in abutting relation, a continuous channel strip of rigid material secured to the edge of one of said sections with the edge received in the channel of the strip, and a second continuous strip of rigid material secured to the edge of the second of said sections and having a J-shaped channel formed therein where said sections are hingedly connected, said second strip being constructed to receive said channel strip in close engagement in said J-shaped channel with the bases of the respective channels in abutting relation, said second strip also being secured to the edge of said second section with the shorter side as the innermost side of said J-shaped channel with respect to said case, whereby entrance of said channel strip into the channel of said second strip on closing said case is facilitated.

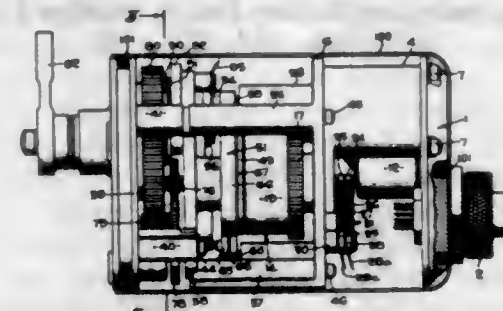
**2,714,946**  
**HYDRAULIC TRANSMISSION**  
André Louis Tenot, Nogent-sur-Marne, and  
Roland André Picand, Angers, France  
Application December 6, 1949, Serial No. 131,370  
Claims priority, application France December 8, 1948  
5 Claims. (Cl. 192—58)



1. Power transmission apparatus comprising, in combination, a driving shaft; a casing fixed to said driving shaft and being formed with an inlet opening, a set of first outlet openings, and a set of second outlet openings of a larger size than said first outlet openings; a plurality of first annular transmission members located in and connected to said casing and extending about the axis of said driving shaft; a driven shaft coaxial with said driving shaft; a plurality of second annular transmission members extending about said axis, also being located in said casing, alternating with said first annular transmission members along the axis of said shafts, and overlapping said first transmission members; mounting means mounting said second transmission members on said driven shaft for rotation therewith; a stationary housing turnably supporting said shafts and located about said casing; liquid moving means communicating with said inlet opening of said casing for supplying liquid to the interior of said casing so that the liquid will be located between said annular members to transmit a drive from said first annular members to said second annular members so that said driving shaft drives said driven shaft through said annular members and liquid, said first outlet openings being unobstructed so that liquid is continually

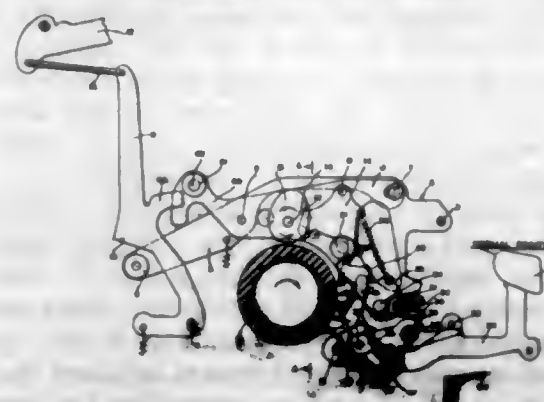
discharged through said first outlet openings to the interior of said stationary housing, and said liquid moving means communicating also with said housing to receive liquid therefrom so that the liquid is continuously circulated from said annular members to said liquid moving means and from the latter back to said annular members; and control means associated with said second outlet openings for controlling the discharge of liquid there-through so that the rate of discharge of liquid from said casing may be regulated.

**2,714,947**  
**SERVO MECHANISM**  
Roman J. Dolude, Los Angeles, Calif., assignor to Summers Gyroscope Company, Santa Monica, Calif., a corporation of California  
Application May 24, 1951, Serial No. 227,999  
8 Claims. (Cl. 192—142)



1. In a servo mechanism, first and second frame sections rigidly secured together, a pair of clutches each having a continuously rotating driving member mounted by said first frame section and a driven member mounted by said second frame section and movable into and out of engagement with said driving member, said driving members being rotated in opposite directions, a yoke member positioned between and pivotally mounted by said frame sections about an axis equally spaced from said clutches, a pair of braking means pivotally mounted by said yoke member with one braking means in the path of movement of each of said driven members, a pair of spring means each normally urging one of said driven members against one of said braking means to prevent movement of said driven members, means for moving one of said driven members into engagement with one of said driving members against the force of one of said spring means, and stop means for limiting the movement of said other driven member by said other spring means so that both said driven members are freed from said braking means when said one driven member is engaged.

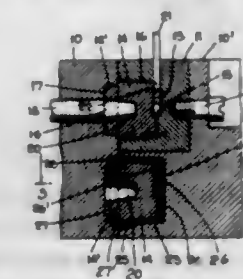
**2,714,948**  
**REPEAT KEY ACTION FOR POWER OPERATED TYPEWRITERS**  
Frederick W. Schremp, Stamford, and Raymond E. Seymour, Norwalk, Conn., assignors to Sperry Rand Corporation, a corporation of Delaware  
Application July 25, 1951, Serial No. 238,412  
9 Claims. (Cl. 197—17)



7. In a power operated typewriter having a power driven roll, a plurality of typing and other operated

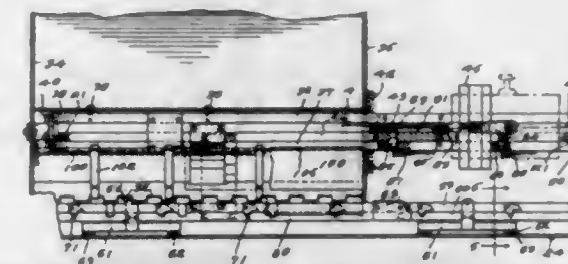
devices, actuating means for each of said typing and other operated devices engageable with said power driven roll for transmitting power from said power driven roll in operating said typing and other operated devices, and key lever means for each of said actuating means controlling engagement of said actuating means with said power driven roll; each of said key lever means being unidirectionally depressible in the normal direction of key lever travel into two successive positions, depression into the first of said positions controlling the engagement of said actuating means with said power driven roll in producing a single cycle of operation only of such afore-said typing or other operated device and further depression of said key lever means into the second of said positions controlling the engagement of said actuating means with said power driven roll whereby repeating cycles of operation of said typing or other device are continued throughout the retention of said key lever means in said second operating position.

**2,714,949**  
**DIE CAST PLASTIC KEYS AND THE METHOD OF FORMING THE SAME**  
Louis H. Morin, Bronx, N. Y.  
Application August 25, 1950, Serial No. 181,520  
9 Claims. (Cl. 197—102)



1. A moulded two-color plastic key comprising a body having a reduced hollow mounting end, said body having an integral character portion protruding from the other end thereof, said body and character portion being formed from one color plastic, a one-piece shell enveloping all of said body except part of the mounting end and outer surfaces of said character portion, said shell having a hook flange portion engaging the body around said reduced mounting end and inwardly of the outer surface of said mounting end to retain the shell against displacement from said body, the second named end of said body having a recess traversing and bridging spaced parts of the character portion inwardly of the outer surface of said character portion, and the shell having an integral part disposed in said recess.

**2,714,950**  
**AUTOMATIC FEEDING DEVICE**  
Solomon Rubin, Monmouth, N. J.  
Application September 4, 1952, Serial No. 307,807  
5 Claims. (Cl. 198—37)



4. An automatic feeding means comprising a hopper, a trough extending from said hopper, a reciprocal conveyor in said trough, said conveyor comprising upper and lower elongated bars disposed in edgewise position, a guide rail carried by said trough engaging the lower one of said bars, oppositely disposed pairs of conveyor blades, means rockably securing said blades to said up-

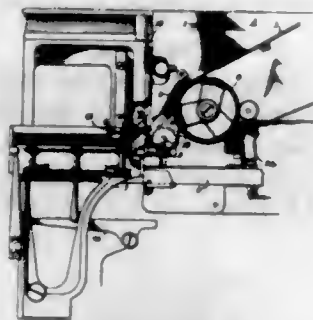


per and lower bars, a pair of driving bars parallel with said first named bars, a pair of connecting plates connected one between a driving bar and an elongated bar, means for reciprocating one of said driving bars, and a last motion connection between said one driving bar and the other driving bar whereby said one driving bar will initially move independently of the other driving bar at the start of the movement in each direction to thereby move said upper and lower elongated bars relative to each other whereby to rock said blades to operative or inoperative position.

2,714,951

**TYPOGRAPHICAL COMPOSING MECHANISM**  
William J. Thompson, Jamaica, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York

Application March 4, 1952, Serial No. 274,808  
9 Claims. (Cl. 199—27)



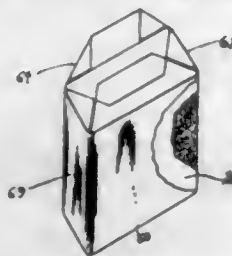
1. Typographical composing mechanism for handling matrices formed with upper and lower projecting ears including, in combination, an assembler wherein the matrices are composed in line, an inclined conveyor belt for delivering the matrices to the assembler, a main guide chute leading from the discharge end of the belt toward the assembler, and a supplemental guide chute to receive the matrices from the main guide chute and direct them into the assembler, the left wall of said supplemental guide chute comprising a pair of guide rails arranged at the entrance of the assembler to engage the matrices by their lower projecting ears and spaced apart to permit the body portions of the matrices to pass between them into the assembler, and said guide rails being pivoted at their upper ends and free to swing a limited distance at their lower ends.

2,714,952

**LAMINATED PAPER AND PACKAGE MADE THEREFROM**

Carl A. Ireton, Dayton, Ohio, assignor to The Specialty Papers Company, Dayton, Ohio, a corporation of Ohio

Continuation of abandoned application Serial No. 502,286, September 14, 1943. This application September 9, 1946, Serial No. 695,631  
3 Claims. (Cl. 206—48.5)



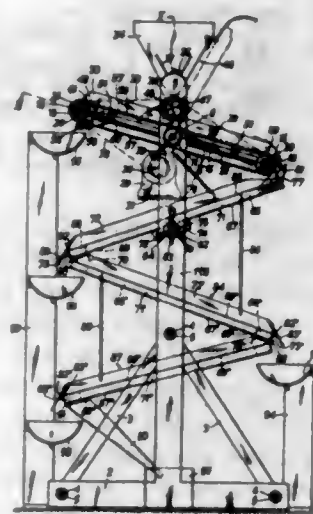
1. As an article of manufacture a heat-sealed package containing tobacco or similar material which is desired to be maintained within narrow variation of moisture content, said package comprising a sheet of laminated paper in which the two paper plies are adhered by a thermoplastic waxy adhesive penetrating a definite but limited distance into each ply, each said ply having substantial reserve capacity for further reception of said adhesive

thereby preventing objectionable strike through to the outer surface of one of said plies if said adhesive is melted during a heat sealing operation, the molten adhesive being flexible when solid and at normal temperatures to give a laminated sheet adequately flexible and soft and foldable to be properly formed in a heat sealing packaging machine such as is used for packaging tobacco and the laminated sheet having the "clammy" feel of metal foil used in cigarette packaging, the adhesive distribution in the respective plies of the finished package being such that there is substantial continuity of the moisture resistant waxy adhesive throughout the laminated paper of said package.

2,714,953

**SEED SIFTING APPARATUS**

Casimir Wolski, Cromac, Haute-Vienne, France  
Application October 17, 1952, Serial No. 315,344  
Claims priority, application France October 23, 1951  
2 Claims. (Cl. 209—12)



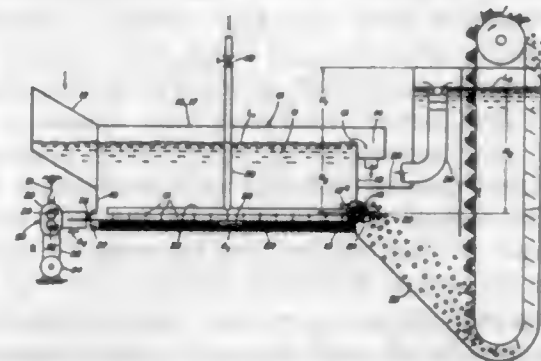
1. In a seed sifting apparatus, an endless conveyor belt, at least two rotatably supported and axially shiftable rollers supporting said conveyor belt with a portion thereof in an inclined plane, each of the said rollers having an axially undulating circumferential groove, fixed abutment members each engaging the said groove of one of the said rollers, a hopper mounted above the said inclined portion of the said belt and having a cylinder segment shaped bottom provided with spaced perforations, substantially cylindric brush means rotatably supported in said hopper in contact with said bottom at least in the region of each of the said perforations, means for rotating said rollers so as to advance said conveyor belt lengthwise of itself with its said portion moving upwardly in a laterally undulating path and for simultaneously rotating said brush means for wiping seed material from the interior of said hopper through said perforations onto said portion of the conveyor belt to enable rollably shaped seeds in said material to roll down said portion of the conveyor belt whereas the remaining components of said material are carried upwardly by said portion of the belt, a series of alternately inclined sifting assemblies suspended to each other, the uppermost of said sifting assemblies being rockably supported with its higher end portion below the lower end of said portion of the conveyor belt, each of said sifting assemblies comprising a sifting screen and a collecting apron mounted below said sifting screen and leaving a delivery gap at its lower end, the higher end portion of each subsequent sifting assembly being arranged below said delivery gap of the upwardly adjacent sifting assembly, and means adjacent the lower end of each of the said sifting assemblies for separately collecting such material as drops over the lower end of the said sifting screen of each of the said sifting assemblies.

2,714,954

**HYDRAULIC CLASSIFIER**

William J. Fox, Old Greenwich, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application December 9, 1953, Serial No. 397,206  
15 Claims. (Cl. 209—18)



1. Apparatus for the hydraulic classification treatment of a pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of coarse size material, defined as undersize and as oversize particles respectively, which apparatus comprises a classifying pool having said mixture supplied thereto in one portion thereof and said fractions discharged from another portion, said pool proper being confined within a space defined substantially by a pair of side wall faces, a transverse face at each end, and a horizontal vibratory bottom face, there being provided a solid tank structure having side and end walls as well as a solid bottom constituting said tank structure, an auxiliary bottom member and guide means for horizontally reciprocating said auxiliary bottom within said tank structure, said auxiliary bottom presenting said horizontal vibratory bottom face for the classifier pool, actuating means operatively connected with said auxiliary bottom for imparting thereto said horizontal reciprocatory movement, and sealing means effective between the auxiliary bottom and the surrounding tank structure to discourage the entry of pulp particles into the space between the auxiliary and the solid bottoms, controllable water supply conduit and distributing means disposed at and above said auxiliary bottom for emitting hydraulic auxiliary water at a controlled rate distributively in a manner whereby the water rises in substantially uniform distribution from the bottom, and whereby in turn there are maintainable in said pool horizontal classification zones comprising substantially a sands zone of oversize particles at the bottom, a fines zone of undersize particles at the top, and an intermediate zone containing a mixture of undersize and oversize particles in teeter condition, there being provided an overflow weir for overflow discharge of undersize particles from said top zone of the pool, and an underflow discharge passage at the bottom, adjustable means for controlling the rate of underflow discharge so that by the concurrent action of the horizontal motion of the bottom face and of the rising flow of the hydraulic water there are producible overflow and underflow size fractions each substantially free from stray particle sizes of the other.

2,714,955

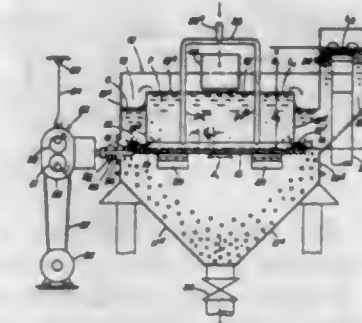
**HYDRAULIC CLASSIFIER**

William T. Marston, Denver, Colo., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application December 9, 1953, Serial No. 397,208  
4 Claims. (Cl. 209—18)

1. Apparatus for the hydraulic classification treatment of pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of coarse size material, defined as undersize and as oversize particles respectively, which apparatus comprises a tank structure

for containing a classifying pool having overflow means for a fines fraction and having said mixture supplied thereto in one portion thereof and said fractions discharged from other portions thereof, said tank structure comprising an internal wall structure defining the space of said pool proper and having stationary rising walls providing overflow discharge means for the fines fraction and presenting free horizontal bottom edges, and further comprising a horizontal reciprocatory bottom member spaced downwardly from the free bottom edges of said rising walls to provide a passage for said coarse fraction, said tank structure further comprising an external wall structure surrounding said internal wall structure and having a solid bottom to provide a sands receiving pockets spaced downwardly from said reciprocatory bottom member, top cover means rigidly interconnecting said external and internal wall structures, guide means for operatively supporting said reciprocatory bottom member to perform horizontal reciprocatory movements, an upstanding sands discharge weir provided edgewise upon said auxiliary bottom member and spaced outwardly from said passage in order that coarse fraction material migrating from said pool through said passage may spill across said weir into said sands receiving pocket, said outer and said inner wall structures together with said



top cover means constituting a clear-water chamber holding a body of water in hydraulic balance with the pulp column in said pool, motion imparting devices for imparting said horizontal reciprocatory movements to said auxiliary bottom member, comprising a motion transmitting means extending from said bottom member through said external wall structure, diaphragm means sealingly interconnecting said motion transmitting means with the surrounding portion of said wall structure, controllable means for removing coarse fraction material from said sands receiving pocket, and water supply means provided for admitting at the bottom of said pool hydraulic auxiliary water at a controllable rate distributively in a manner whereby the water in effect rises in substantially uniform distribution from the bottom and whereby there are adapted to be formed and maintained in said pool horizontal classification zones comprising a coarse sands zone of oversize particles at the bottom to be discharged into said sands receiving pocket, a fines zone of undersize particles at the top to discharge by way of said overflow means, an intermediate zone containing a mixture of undersize and oversize particles in teeter condition and means for controlling the rate of passage of said coarse fraction material from said pool into said receiving pocket for thereby controlling the cut between the undersize and the oversize.

2,714,956

**HYDRAULIC CLASSIFIER**

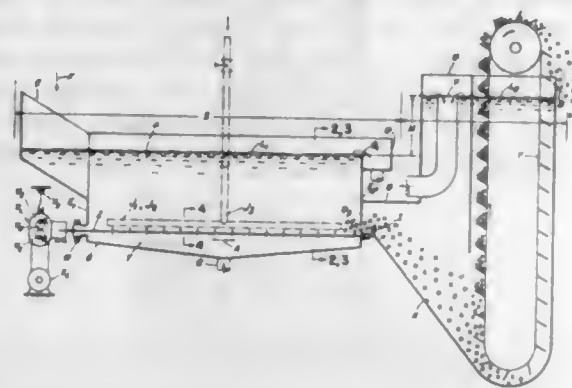
William T. Marston, Denver, Colo., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application December 9, 1953, Serial No. 397,209  
5 Claims. (Cl. 209—18)

1. Apparatus for the hydraulic classification treatment of pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of coarse size mate-

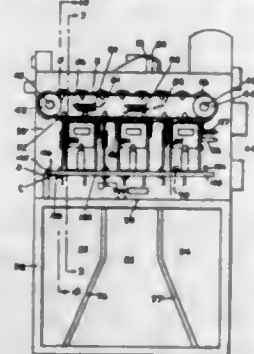


rial, defined as undersize and as oversize particles respectively, which apparatus comprises a classifying pool having said mixture supplied thereto in one portion thereof and said fractions discharged from other portions, said pool proper being confined within a tank structure having side and end walls as well as a solid bottom, an auxiliary bottom plate member mounted in spaced relationship with respect to the solid bottom to perform horizontal reciprocatory sliding movement within said tank structure, which tank structure is formed with horizontally extending grooved guide portions for the marginal portions of said auxiliary plate member to operatively and slidably engage therein while providing a pressure water chamber between said plate and the surrounding solid bottom portion, actuating means operatively connected with said auxiliary bottom for imparting thereto horizontal reciprocatory movement, controllable pressure water supply means for said chamber whereby pressure water is forced to sealingly pass into said grooved portions and to escape



therefrom around the marginal portions of said plate member into the classifier pool above, controllable water supply means for distributively introducing hydraulic operating water into the bottom strata of the classifier pool whereby the water rises in substantially uniform distribution from the bottom, and whereby there are formed and maintained in said pool horizontal classification zones comprising substantially a sands zone of coarse fraction particles at the bottom, a fines zone of undersize particles at the top, and an intermediate zone containing a mixture of undersize and oversize particles in teeter condition. so that by the concurrent action of the horizontal motion of the bottom face and of the rising flow of the operating water being adapted to produce overflow and underflow size fractions each substantially free from stray particle sizes of the other, there being provided an overflow weir for overflow discharge of undersize particles from said top zone of the pool, an underflow discharge passage at the bottom, adjustable means for controlling the rate of underflow discharge through said passage.

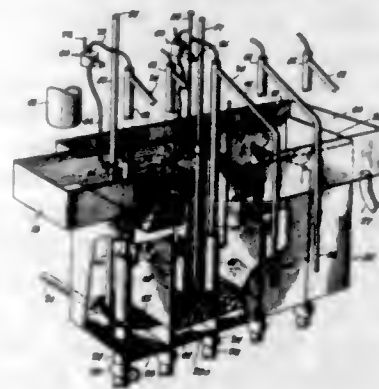
**2,714,957**  
**CORD TESTING AND ASSORTING MACHINE**  
Carl L. Tapper, Lowell, Mass.  
Application February 12, 1954, Serial No. 409,883  
10 Claims. (Cl. 209-81)



1. In an apparatus, for automatically testing and assorting electric cords of the class wherein a continuously moving endless carrier advances said cords individually

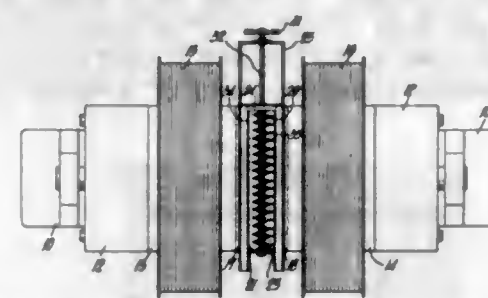
and successively past cord testing and assorting stations and electrically actuated jaws at each station, seize and bodily extract said cords from the carrier at the first station if short circuited, at the second station if closed circuited and at the third station if open circuited, the combination with said apparatus of a second continuously moving endless carrier, uniformly spaced below and co-extensive with said first carrier, a plurality of pivoted spring clips spaced along said second carrier, each for engaging the lower portion of a cord depending from said first carrier; stationary cam means at the entrance of said apparatus for temporarily opening each clip to permit manual insertion of a cord lower portion; mechanical means, at each station, operably connected to the jaws at that station for temporarily opening a clip upon extracting movement of said jaws, an electric conducting medium at the second station extending substantially parallel to said first and second carriers, but positioned outside the path of the lower terminals of said cords and revolving cam means, synchronized with the travel of said carriers, for moving said electric conducting medium into and out of the path of the lower terminals of each successive cord for temporarily completing a testing circuit therethrough.

**2,714,958**  
**PRODUCT DISCHARGE MEANS FOR HYDRAULIC CLASSIFYING APPARATUS**  
Robert D. Evans, Pierce, Fla., assignor to The American Agricultural Chemical Company, New York, N. Y., a corporation of Delaware  
Application October 8, 1949, Serial No. 120,240  
14 Claims. (Cl. 209-158)



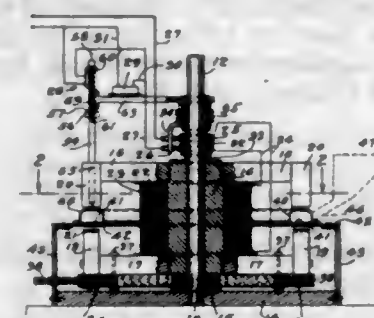
1. Hydraulic sizing apparatus comprising, in combination, means providing a teeter column for receiving divided solids to be classified according to settling rate, said means including means introducing liquid to provide upward flow in the column from the foot thereof and said teeter column means being adapted to accumulate solids of predetermined faster settling characteristics near the foot thereof, said teeter column means comprising a tank for the teeter column, having means providing an upper level for liquid in the tank, siphon means opening into said teeter column means near the foot thereof for withdrawing a pulp of accumulated solids, said siphon means extending through an upper region above the aforesaid upper level and thence to a lower region which is below said upper level and outside the tank, said siphon means comprising a conduit opening for discharge at said lower region, and said siphon means including air vent means therein controllable to modify the flow of withdrawn pulp therein, a hydrostatic column opening in said teeter column means near the foot thereof and extending to an upper locality above said upper region, for rise of liquid in said column to a level measured by the pulp density in the teeter column, and means associated with the hydrostatic column and controlled by the liquid level therein and comprising a valve for controlling said siphon flow-modifying means, to prevent withdrawal of solids, in said siphon means, that depart from said predetermined settling characteristics.

**2,714,959**  
**WET ELECTROMAGNETIC SEPARATOR AND METHOD**  
Morris V. Mielke, Duluth, Minn., assignor to United States Steel Corporation, a corporation of New Jersey  
Application July 26, 1951, Serial No. 238,661  
16 Claims. (Cl. 209-214)



1. A magnetic separator comprising horizontally spaced apart magnetic poles of opposite polarity, an inlet beneath said poles for introducing a pulp of finely divided ore particles suspended in water as a rising current which ascends in the space between said poles, means situated between said poles for horizontally withdrawing particles whose ascent is retarded by said poles, the direction of such withdrawal being parallel to the pole faces, and means above said poles for carrying away water and particles which ascend above the poles.

**2,714,960**  
**WET-MAGNETIC SEPARATOR**  
Byron C. Schmid, Washington, D. C., assignor to the United States of America as represented by the Solicitor of the Department of the Interior  
Application October 7, 1952, Serial No. 313,617  
8 Claims. (Cl. 209-227)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

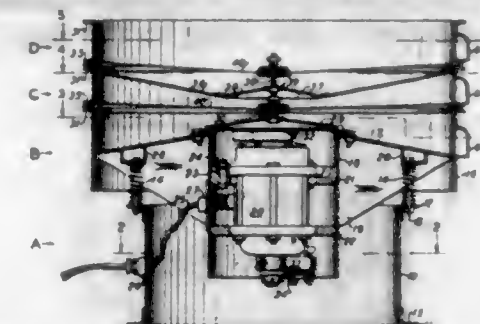


1. A magnetic separator comprising a plurality of pairs of magnetic pole pieces supported for rotation about a fixed substantially vertical central axis, the poles of each of said pairs of pole pieces being spaced to form an air gap therebetween, means for rotating the pole pieces about the axis, means for providing a magnetic field between the poles of said pairs of pole pieces, a tube of non-magnetic material forming an incomplete circle supported in the air gap between the magnetic pole pieces, feed means intermediate the ends of the tube for introducing material to be separated, discharge means for magnetic particles at one end of the tube, discharge means for non-magnetic particles at the other end of the tube, means for introducing washing liquid into the tube adjacent the discharge end for magnetic particles, and means responsive to movement of said pole pieces through a selected position for periodically interrupting the magnetic field in the air gap between the pole pieces.

**2,714,961**  
**SCREENING MECHANISM**  
Robert P. Miller, San Gabriel, and Frank Mathewson and Gotthold Harry Meinzer, Glendale, Calif.; said Miller and said Mathewson assignors to said Meinzer  
Application September 10, 1949, Serial No. 114,966  
9 Claims. (Cl. 209-403)

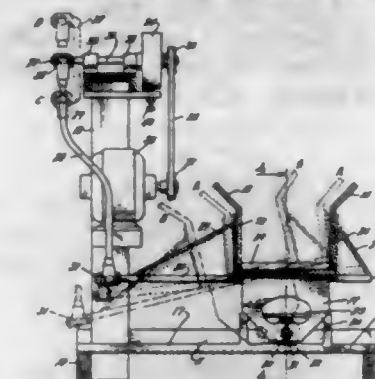
1. In vibrating screening mechanism, a screening unit comprising: a vertical cylindrical element having an

outwardly projecting flange at its upper end; an annular ring resting on said flange and a circular screen cloth attached peripherally to said ring; means forming an upwardly-looking gasket-receiving channel within said element adjacent its upper end; a resilient, upwardly rounded ring gasket located in said channel; a conical



pan horizontally fixed in said cylindrical element, said pan having a centrally disposed opening; a spider attached to said pan spanning said opening; a tension bolt projected upwardly from said spider through the center of said circular screen cloth, and means on said bolt for urging the center of said screen cloth toward said pan.

**2,714,962**  
**ORE SEPARATORS AND CONCENTRATORS**  
Ruby R. Sides, Denver, Colo.  
Application July 23, 1952, Serial No. 300,468  
3 Claims. (Cl. 209-437)



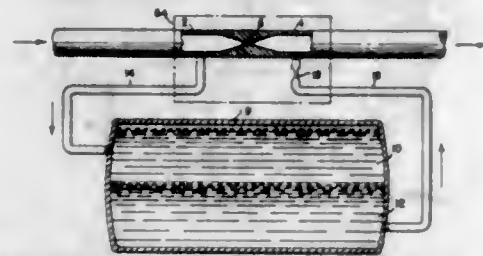
1. An ore separating device comprising: a supporting frame; a substantially level, elongated box having a feed extremity and an open discharge extremity; a universal joint supported from said frame and being medially secured beneath the discharge extremity of said box whereby the latter may be tilted and swung in all directions; a straight, horizontal track member supported by said frame beneath the feed extremity of said box and extending transversally of the long axis of the latter; a roller positioned on, and arranged to roll freely along, said track member; a roller shaft in said roller; bracket means mounting the mid-portion of said feed extremity on said roller shaft; and means for tilting said box about the axis of said roller, said roller being free to roll along said track so that the said roller will be caused to roll along said track member in consequence of the impact of the material rushing to the low side of said box when the latter is tilted.

**2,714,963**  
**APPARATUS FOR INJECTING A LIQUID INTO A FLUID STREAM**  
Herbert C. Lester and Alfred H. McKinney, Chester, Pa.  
Application December 6, 1951, Serial No. 260,212  
5 Claims. (Cl. 210-31)

1. Apparatus for injecting a liquid material into a liquid stream in a conduit comprising a fitting adapted to be inserted between ends of the conduit, the fitting including means providing an orifice through which the liquid stream in the conduit passes, connections to the liquid stream on each side of the orifice and removable means providing a restriction in the connection to the stream on the downstream side of the orifice, a storage vessel



mounted immediately below the conduit and containing liquid material to be injected into the liquid stream, an unrestricted conduit extending between the connection in the fitting to the liquid stream on the upstream side of the orifice and the upper portion of the storage vessel adapted to be above the level of the liquid material therein to be injected into the liquid stream, a conduit extending between the connection in the fitting to the liquid stream



on the downstream side of the orifice and the lower portion of the storage vessel adapted to be below the upper level and above the lower level of the liquid material therein to be injected into the stream, pressure drop across the orifice in the fitting in the liquid stream inducing a flow of liquid from the upstream side of the fitting through the fitting and the first mentioned conduit to the storage vessel and a flow of liquid material from the storage vessel through the second mentioned conduit and the restriction therein to the downstream side of the fitting.

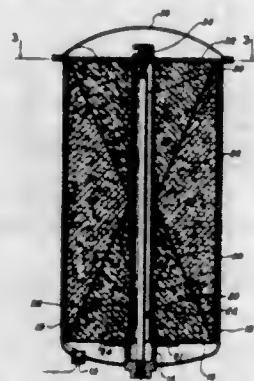
2,714,964

## LIQUID FILTER

Paul S. Radford, Compton, Calif.

Application February 24, 1953, Serial No. 338,190

4 Claims. (Cl. 210-131)



1. In a lubricant filter comprising a drum, a conduit connected to the drum for supplying lubricant to be filtered to the interior of the drum, and an outlet pipe projecting into the drum and affixed thereto, the combination which comprises an annular container adapted for disposition in the drum around the outlet pipe, the container being closed at one end and being provided with openings at the other end for the entrance of the lubricant, the inner annular wall of the container being provided with at least one opening near the closed end of the container for the escape of the lubricant, two perforated frusto-conical members of altitude approximately equal to half the altitude of the container disposed in the container with their small ends together and extending substantially across the annular cross section with the axis of the members transverse to said cross section, and a porous packing disposed in the container on all sides of the frusto-conical members.

2,714,965

## CLOTHES HANGER SUPPORT

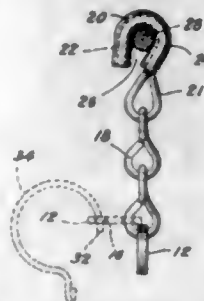
Franklin Allen Fitzkee and Charles Albert Leash, York, Pa.

Substituted for abandoned application Serial No. 191,512, October 21, 1950. This application April 24, 1952, Serial No. 284,176

2 Claims. (Cl. 211-113)

1. A clothes hanger support comprising in combination, an elongated stiff bar provided with a plurality of aper-

tures spaced longitudinally therealong and arranged to receive the hook ends of clothes hangers, an open hook freely and flexibly connected to said bar at each end thereof and the bight portion of said hook being of larger diameter than the width of the opening therein, and a predetermined length of compressible resilient material of substantial thickness covering said hooks to afford friction and the ends of said material being substantially opposite each other at the opening of said hook to render the hook opening constricted and of a width less than



the diameter of the line it is intended to receive but the covered bight portion thereof being of greater diameter than said line, whereby both ends of said covering may be squeezed substantially simultaneously and be compressed at the opening of the hook when the latter is being attached to a line, said covering also serving to prevent accidental removal of the hooks from a line transversely as well as frictionally engage said line to prevent appreciable movement of the hooks longitudinally of said line except when it is desired to move the hooks manually therealong.

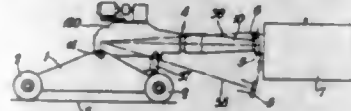
2,714,966

## FURNACE CHARGING MACHINES

Sidney William Taylor, London, England, assignor to The Wellman Smith Owen Engineering Corporation Limited, London, England, a company of Great Britain

Application June 19, 1951, Serial No. 232,312

Claims priority, application Great Britain June 21, 1950 5 Claims. (Cl. 214-29)



1. A furnace charging machine comprising a frame, a charging bar mounted to rotate about its longitudinal axis on said frame, a charging box, means at the outer end of said charging bar to connect it non-revolubly with respect to, though disengageably with, said charging box, an axially movable rod mounted in said charging bar, a pusher plate movable through said charging box from end to end thereof, means to connect the outer end of said rod disengageably to said pusher plate, a piston and cylinder combination at the inner end of said rod and bar and coaxial through and operative to impart to said rod a stroke substantially equal to the length of said charging box from end to end, means for operating said combination to enable said rod to move outwardly to lock the charging box to said charging bar and thereafter to engage said pusher plate and means operative to rotate said charging bar about its longitudinal axis without interrupting the fluid pressure connections to said piston and cylinder combination.

2,714,967

## APPARATUS FOR TRANSPORTATION OF FREIGHT

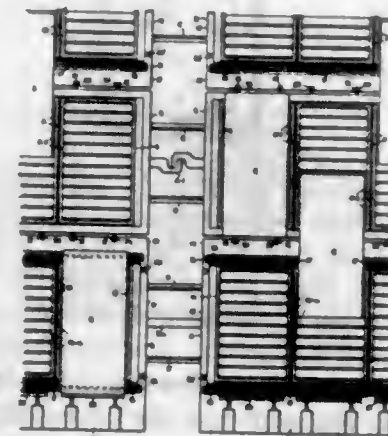
Olaf Christopher Olsen, Johnson County, Kans., assignor to Transport Equipment, Inc., a corporation of Maryland

Substituted for application Serial No. 256,341, February 14, 1939. This application May 10, 1950, Serial No. 161,209

9 Claims. (Cl. 214-38)

1. In apparatus for transporting freight, the combination of a plurality of track-travelling vehicles; a plurality

of platforms; a plurality of road-travelling vehicles; a plurality of freight containers; a plurality of supporting media for said containers, each of said media being vertically adjustable and tiltable, and adapted to support one of said containers, one of said media being carried by each of said road-travelling vehicles, a series of said media being carried by each of said track-travelling vehicles and each of said platforms, said series carried by each of said track-travelling vehicles, and said series carried by each of said platforms being adapted to co-act to cause the containers



to move by gravity between said track-travelling vehicles and said platform; and a pair of conveyor cables adapted to move the containers longitudinally of each of said platforms, the supporting media on the platform being between and normally below the level of said cables, and said cables being adapted to co-act with said media carried by each of said road-travelling vehicles and the series of media carried by each platform to cause the containers to move between said road-travelling vehicles and said platforms.

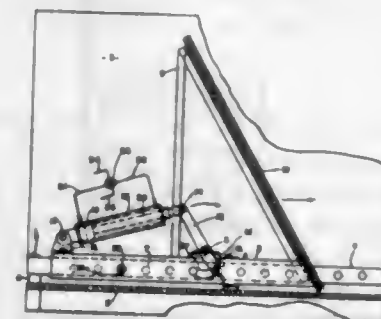
2,714,968

## WAGON UNLOADER EJECTOR MECHANISM

Richard E. Babcock, Jr., Lancaster, Pa., assignor to The New Holland Machine Division of the Sperry Corporation, New Holland, Pa., a corporation of Delaware

Application October 30, 1952, Serial No. 317,703

3 Claims. (Cl. 214-82)



1. In a wagon unloader of the class in which a carriage guided for movement along a rack bar propels an ejector toward the discharge end of a load carrying body, the combination with said carriage of a lever medially fulcrumed thereon, a double acting jack connected between one end of said lever and a fixed point on said carriage, a detent carried at the other end of said lever for operative engagement with said rack bar to prevent movement of said other end away from the other end of the body and to provide a pivot point about which swinging of the lever toward said discharge end will function to propel the carriage toward said end, and a detent carried by the carriage in operative engagement with the rack bar to prevent movement of said carriage away from said discharge end.

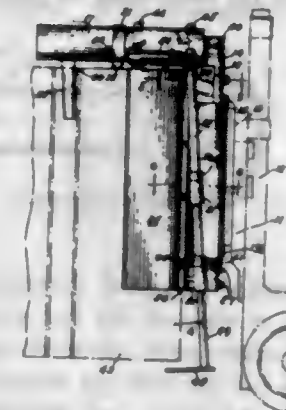
697 (1) G.—15

2,714,969

## ATTACHMENT FOR MATERIAL HANDLING LIFT TRUCKS

Tom H. Bartel, Andrew J. Meade, Paul E. Smith, and Herbert C. Tims, Detroit, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application December 28, 1949, Serial No. 135,458 28 Claims. (Cl. 214-653)



1. In an article handling device for a vehicle such as a lift truck, means providing a vertical pivotal axis, aligning means adapted to contact the surface of an article to be handled on at least one location spaced above the supporting surface on which said article rests and spaced to one side of said pivotal axis, means supporting said aligning means for pivotal movement about said axis in response to such contact, and grab means initially positionable relative to the article by such pivotal movement of said aligning means for engaging said article after alignment of said device therewith.

2,714,970

## LINER FOR BEVERAGE BOTTLE CASES

Bena S. Angelette, New Orleans, La.

Application October 23, 1950, Serial No. 191,667 2 Claims. (Cl. 217-3)



2. In combination with a beverage bottle container having side and end walls the latter of which are provided with hand holes, and a bottom, a flexible, relatively stiff one-piece liner having a body section corresponding in shape and size to said bottom and lying thereon, integral end flaps projecting upwardly from said body and lying flatly against said end walls over said hand holes to prevent light from passing therethrough, said flaps being narrower than the width of said body, flanges extending from the side edges of said flaps to the edges of said body, and longitudinal side flanges formed integral with said body and extending upwardly therefrom for engagement with the sides of said container, said body section, at the corners thereof, being provided with notches extending into the area of said body section.

2,714,971

## VACUUM CONTAINERS

Donald R. Workman, Portland, Oreg.

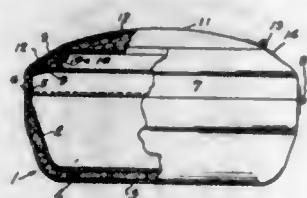
Application April 21, 1952, Serial No. 283,361

1 Claim. (Cl. 220-16)

An article of the class described comprising in combination a dish having a bottom wall and upwardly diverging side walls of spaced apart double thickness merging into a vertical wall portion of single thickness, a filling of insulating material within the space between said



walls, an annular ridge formed on the top surface of said vertical wall portion, a closure lid for said dish, said lid being of spaced apart double wall thickness around its top marginal portion and merging into a downwardly extending rim of single thickness having an annular groove formed on its bottom edge to receive said annular ridge of the dish, a filling of insulating material within the space between said wall portions of the lid, a storage chamber formed within said lid and being of less diameter than that



of the lid, an annular shoulder formed on the inside wall of said chamber, a closure lid for said storage chamber adapted to rest upon said annular shoulder within the chamber, said lid for the storage chamber being of spaced apart double wall thickness and provided with a filling of insulating material within said space between the walls, a single hinge connecting the lid for the storage chamber to the lid for the dish and a second hinge connecting the lid for the dish to the dish.

**2,714,972**  
**HANDLE-MEANS ASSEMBLY FOR CONTAINERS**  
Roy C. Potts, Takoma Park, Md.  
Application March 6, 1951, Serial No. 214,107  
9 Claims. (Cl. 220-91)

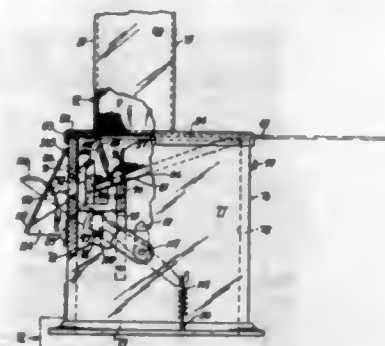


1. A fully preformed fastener element for engaging a handle-means into an aperture in a wall or ear of a container, said fastener element comprising a single length of wire having a looped-segment in its median portion and a pair of leg-members, each of said leg-members having a base portion and an end-segment, the base portion of each leg-member and the said looped-segment lying in the same plane, the end-segment of each leg-member lying in a curvilinear surface extending at an angle approximating 20 degrees from the plane of the said looped-segment, the extreme end portion of each end-segment being curved outwardly and reversely from the other at an angle approximating 90 degrees, one of the said leg-members being shorter than the other and having its tip end portion turned slightly out of said curvilinear surface, whereby, when the shorter leg is overcrossed on the other leg it interlocks with the other leg at the point of juncture of the base portion and the extreme end portion of the end-segment of said other leg and in that interlocked position the free end-portion of the longer leg may be inserted directly into an aperture in a wall or ear of a container and the tip end of the shorter interlocked leg simultaneously thereby is brought into positive position within said aperture and may be released directly into said aperture thus effecting complete engagement of both legs of the fastener element into said aperture.

**2,714,973**  
**TOOTHPICK DISPENSER**  
William J. Meyer, Ridgewood, and Henry A. Flor, Merrick, N. Y.  
Application September 17, 1953, Serial No. 380,692  
5 Claims. (Cl. 221-174)

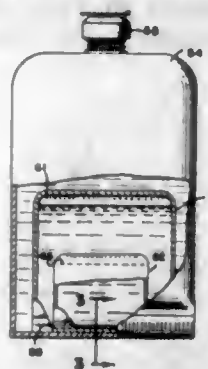
1. A dispensing device for toothpicks or the like comprising a box-like dispenser unit having a discharge open-

ing in the front wall thereof, a feed plate sloping downwardly toward said opening shaped to provide a laterally extending forward recess and upturned detent ears having bevelled top edges, said ears flanking said recess and being spaced from the front wall of the unit to provide therewith a guide passage, an elevator, handle control means for vertically reciprocating said elevator, the elevator being substantially U-shaped in cross section and presenting a front lift panel for vertical movement up and down in the guide passage and being bevelled on its upper edge to transfer articles by gravity from the upper edges of



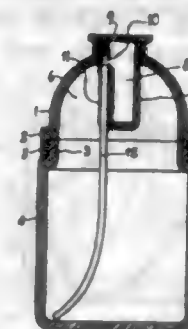
said ears to said discharge opening when the upper edge of the lift panel registers with the upper edge of said ears, an intermediate lift panel in said elevator and having an upper bevelled edge coacting with the vertical rear face of said front lift panel to form an article holding recess, the bevelled edge of the intermediate lift panel being wider than the bevelled edge of said ears whereby a lowering movement of said intermediate panel will leave some of said articles atop the bevel of said ears for discharge over the upper edge of said front panel, and means for catching the articles discharged through said discharge opening.

**2,714,974**  
**COMPARTMENTED CONTAINER FOR LIQUIDS**  
John W. Sawyer, Arlington, Va.  
Original application March 2, 1949, Serial No. 79,264.  
Divided and this application October 24, 1949, Serial No. 123,281  
1 Claim. (Cl. 222-94)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



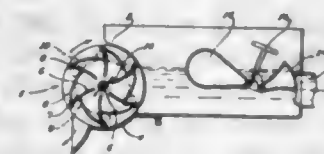
A combined container and dispenser for a plurality of mutually reacting liquids comprising, an outer flexible walled container closeable at an upper end by a hollow threaded connector and terminating at its other end in a seal, an applicator nozzle, means on said applicator nozzle for selectively securing the latter to said connector, a second flexible closed container in said outer container sealed at the ends and having a tab at one end thereof secured in a fixed position in the outer container, a third flexible closed container in said second container and secured therein in fixed position adjacent said tab, scoring in a side wall of said third container rendering it more easily ruptured than said second container, scoring in a side wall of said second container making it more easily ruptured than said outer container, whereby the third container may be emptied into the second container and the second container emptied into the outer container and the mixed contents exhausted through said applicator.

**2,714,975**  
**COMBINATION CLOSURE AND LIQUID DISPENSER FOR BOTTLES, ETC.**  
Norman Greene, New York, N. Y.  
Application October 5, 1950, Serial No. 188,545  
7 Claims. (Cl. 222-205)



1. In a closure for a container having a mouth, the combination of an expansible and contractible hollow body made of a flexible, rubber-like material, the body having a top and depending side walls defining a recess which is contractible by squeezing the side walls inwardly, the body having a reservoir depending from the top into said recess and provided with an inlet opening located above the bottom of the reservoir, said side walls terminating at their lower portion in a neck near the bottom of the reservoir, said neck having a mouth-engaging portion adapted to make a sealing fit around said mouth and affording communication between the recess and the interior of the container, the body having walls separating said recess from atmosphere and separating the reservoir from said recess except for said inlet opening above the bottom of the reservoir, and a tube depending from the closure and communicating with said opening to convey liquid to the reservoir from the container upon squeezing said side walls.

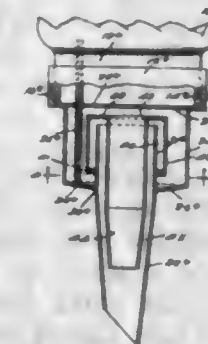
**2,714,976**  
**DISPENSER FOR WOOD PULP, CHEMICAL PULP AND OTHER FLOWABLE MATERIALS**  
Björn Sucksdorff, Kuusankoski, Finland  
Application February 10, 1950, Serial No. 143,374  
3 Claims. (Cl. 222-306)



1. In dispensing construction of the character described, a pulp vat, a substantially cylindrical surface forming a pulp sill seated in a wall of said vat between the sides thereof, a roller mounted over said sill, said roller including a horizontal shaft, end plates carried by said shaft and in tight fitting engagement with the side walls of said vat, said end plates forming a roller zone of cylindrical outline having the same curvature as the section of a cylindrical surface provided by said sill, vanes extending between said end plates and provided with tips adjacent said cylindrical zone, said tips forming tight wiping engagement against said pulp sill, and means for varying the dispensing volume between pairs of opposed vanes, said means including partition walls extending across between and in engagement with said pairs of opposed vanes, pivotal mounting means for mounting one edge of each of said partition walls on one of said vanes adjacent the tip thereof, and means to turn said partition walls about said pivotal mountings during the operation of said roller, said pivotal mounting means including an actuating member engaged with the partition wall for turning said partition wall about said pivotal mounting and extending outwardly beyond one of said end plates for actuation during operation of said roller, said vanes being formed as sub-

stantially cylindrical surfaces, the centers of said cylindrical surfaces being located at the pivot line of the adjacent partition walls.

**2,714,977**  
**TIME DELAY POURING SPOUT**  
Douglas P. Davis, Burbank, Calif.  
Application November 28, 1952, Serial No. 323,026  
1 Claim. (Cl. 222-424.5)



In a time delay pouring spout for a receptacle having a neck, a cap closure having an end wall and an annular wall threaded on said neck, a liquid trap chamber formed on the outer side of said end wall, said end wall having a liquid outlet opening into said chamber, an elongated open ended spout having an inner cylindrical end portion extending centrally into said chamber and an outer downwardly tapered end portion extending from said cylindrical end portion outwardly of the chamber, a second open ended spout depending through the inner end of said cylindrical portion, an annular flange out-turned from the inner edge of said second spout, an annular wall depending from said flange and spacedly encircling said cylindrical portion, radially disposed spacer arms extending between the lower end of said annular wall and the cylindrical portion, and an air admission tube extending through said chamber and the said end wall of the cap and into the receptacle, the discharge of the liquid from within the receptacle through the outlet opening in the said end wall into said chamber being facilitated by the atmospheric pressure of the air passing inwardly through said admission tube.

**2,714,978**  
**DEVICE FOR DRYING SWEATERS**  
Lynne A. Smith, Palo Alto, Calif.  
Application December 14, 1953, Serial No. 398,040  
4 Claims. (Cl. 223-69)



1. In a drying device, a four cornered member formed of porous flexible material, pockets formed on each of said four corners, a pair of elongated flexible members having ends adapted to be inserted into said pockets, said elongate members having a length substantially equal to the distance between diagonally opposed corners, the ends of one of said elongate members being inserted in the pockets of one pair of diagonally opposed corners, and the ends of the other of said elongate members being inserted in the pockets of the other pair of diagonally opposed corners, said elongate members serving to place said four cornered member under tension to form a substantially flat surface, and means for supporting said four cornered member in a substantially horizontal plane to allow air to circulate freely about the same to facilitate the drying of articles placed thereon.



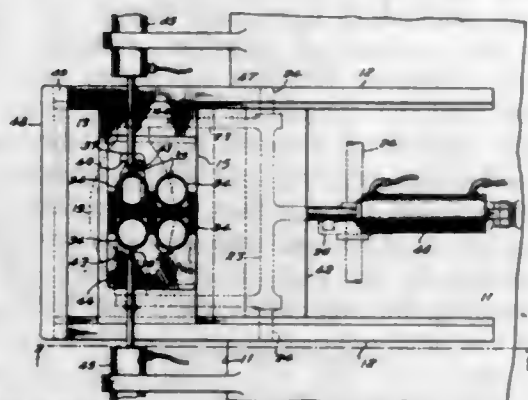
# 2,714,979 SHOULDER SUPPORTED GRIP FOR WELDING LINE

Adrian C. McCarthy, Downey, Calif.  
Application April 18, 1952, Serial No. 283,007  
4 Claims. (Cl. 224-5)



1. In combination, a garment having a shoulder portion, an elongated resilient body extending crosswise upon said shoulder portion and conforming in longitudinal curvature to the contour of said shoulder portion, opposed resilient lugs rising from an intermediate part of said body, said lugs having concave facing sides for snugly accommodating a welding hose or the like, and separable fastening means securing said body in place upon said shoulder portion.

2,714,980  
VIAL STOPPERING MACHINE AND METHOD  
Earle George Schlayer, Suffern, and Ellsworth Rolland Sandhage, Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine  
Application August 30, 1951, Serial No. 244,412  
8 Claims. (Cl. 226-92)

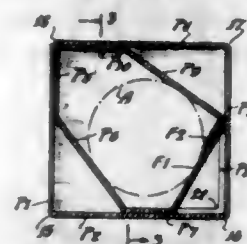


1. In a machine for inserting stoppers in vials, means for retaining a vial at a vial position, a stopper feed tube having a plurality of axial slots therein positioned above the vial position, stopper supporting shoulders integral with said stopper feed tube, an oscillating head reciprocally mounted adjacent said stopper feed tube, feed fingers operably attached to said oscillating head and projecting through said slots into the interior of said tube, said head and fingers being so positioned that the fingers are in contact with the stopper until the stopper has been forced at least part way into the vial whereby stoppers may individually be forced past the shoulders and into position in the vials.

2,714,981  
SHOCK-PROOF CARTON  
William B. Leavens, West Orange, N. J., assignor to The Wilkata Folding Box Company, Kearny, N. J., a corporation of New Jersey  
Application January 12, 1953, Serial No. 330,796  
10 Claims. (Cl. 229-38)

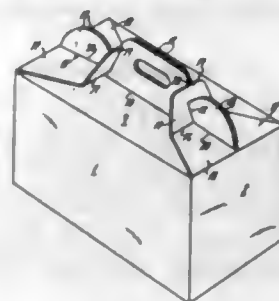
1. A collapsible shock-proof box, rectangular in cross-section, formed from a folded single blank comprising a series of ten successive panels integrally connected along parallel fold lines to form inner and outer sleeves, the outer sleeve comprising five panels adjacent one end of said blank, with the inside of the first panel being secured to the outside of the fifth panel, and the inner

sleeve comprising five panels adjacent the other end of said blank, the inner sleeve panels being narrower than the first four outer sleeve panels, the sixth panel extending from the first panel to the second panel and being spaced from the fold line between the first and second panels, the seventh panel lying alongside the second panel and the eighth panel lying alongside the third panel, flap means formed out of the seventh and eighth panels and



extending from the second panel to the third panel, said flap means being spaced from the fold line between the seventh and eighth panels and being arranged to provide an expansible pocket adapted to receive and be engaged by an article packed in the box, the ninth panel extending from the third panel to the fourth panel and being spaced from the fold line between the third and fourth panels, and the tenth panel lying alongside the fourth panel and relatively movable therewith.

2,714,982  
CONTAINER HANDLE AND CLOSURE  
Herman H. Strauss, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland  
Application October 6, 1951, Serial No. 250,043  
6 Claims. (Cl. 229-39)



1. In a container having a pair of opposing side walls each having a foldably connected upper marginal side wall flap and a pair of opposing end walls each having a foldably connected upper marginal end wall flap; a combination closure lock and carrying handle comprising a two-ply upright handle assembly, each ply thereof being foldably connected to one of said upper marginal side wall flaps, each ply of said handle assembly being provided with a centrally positioned handle portion and handle reinforcing flanges on the end portions thereof, there being connecting handle webs between said central handle portion and said handle reinforcing flanges, said central handle portion being provided with handholes therethrough and a locking recess in the end edges thereof, and a locking tongue foldably connected to each of said upper marginal end wall flaps along a locking tongue score line spaced in parallel relation to the said foldable connection to the upper margin of said end walls, said upper marginal end wall flap being provided with a slot therethrough extending right angularly from the center of said locking tongue score to the said foldable connection with the upper margin of said end wall, said end wall flap slot being spaced to receive said handle reinforcing flange, said locking tongue being provided with a bracing slot co-linearly disposed to and continuing from said end wall flap slot to a point short of the free edge of said locking flap, the side edges of said bracing slot being spaced and positioned to grip said handle webs when said end wall flaps are disposed flatwise against the end margins of said side wall flaps and said locking tongues are disposed angu-

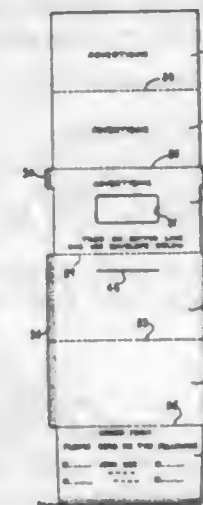
larly upward and the unslotted portion of said locking flap is received by said locking recess, said locking recess having upper and lower marginal edges spaced and positioned to snugly grip the outer free edge of said locking tongue and the outer end edge of said bracing slot.

2,714,983  
GUSSETED BAGS OF THE VALVE TYPE  
Adolph Potdevin, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a corporation of New York  
Application July 30, 1951, Serial No. 239,307  
1 Claim. (Cl. 229-62.5)



A gusseted bag having one corner folded into the bag to provide a valve at the bag corner; a sleeve for lining the valve, said lining sleeve comprising a sheet which covers the entire interior of the valve, said sheet in one direction extending to the bag exterior for a substantial distance and in the opposite direction extending to the bag interior for a substantial distance beyond the inner edge of the said valve, said sheet intermediate its ends being folded transversely from edge to edge from the upper side of the valve about the entire inner edge of the valve to the underside of the valve to seal the entire edge of the valve and then folded in the reverse direction transversely of the sheet and from one sheet edge to the other, whereby the said portion of the sheet which extends to the bag interior for a substantial distance beyond the inner edge of the valve lies in a plane which is parallel to but spaced from the plane of the portion of the sheet which extends to the bag exterior; and a binding strip folded over and attached to the bag end and to the upper edges of the lining sleeve.

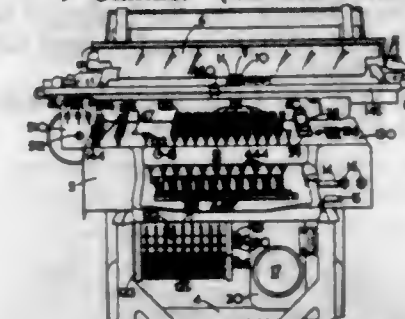
2,714,984  
MAILING PIECE  
John B. Ruffalo, Garden City, N. Y.  
Application December 10, 1951, Serial No. 260,800  
2 Claims. (Cl. 229-92.1)



1. A folded paper mailing piece comprising a preformed return envelope, said mailing piece comprising an envelope body having opposed walls which are joined at the bottom of the envelope body by a foldline and which are secured together in face-to-face relation along each side margin thereof, the walls of the envelope body being free at the top thereof to constitute the mouth of the envelope body, a first flap extension extending from the top of one of said walls which is folded back at a foldline disposed along the mouth of the envelope body so as to overlie the wall from which it extends, said first flap extension being sub-

stantially narrower than said envelope body with the side margins thereof inset from the side margins of the envelope body and with the extremity thereof overlying said envelope body, and a second flap extension extending from the top of the other wall of the envelope body and detachably connected thereto at a foldline disposed along the mouth of the envelope body, said second flap extension being folded along said foldline over the mouth of said envelope body in overlying unsecured relation with respect to said first flap extension and being narrower than said envelope body with the side margins thereof inset from the side margins of said envelope body except for a pair of oppositely disposed ears comprised in said second flap extension which overlie the side margins of the envelope body and which are secured to the side margins of the envelope body adjacent the bottom thereof and said second flap extension comprising a prolongation beyond said ears which is folded under about the extremity of said first flap extension so as to be disposed between said first flap extension and the wall of the envelope body from which said first flap extension extends.

2,714,985  
ELECTROMAGNETICALLY OPERATED TOTALIZER CONTROL MECHANISM FOR ACCOUNTING MACHINES  
Frank Reginald Saxby, Eastcote, Ruislip, and Ronald Pritchard, Ickenham, Uxbridge, England, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland  
Application November 13, 1952, Serial No. 320,176  
9 Claims. (Cl. 235-60.48)



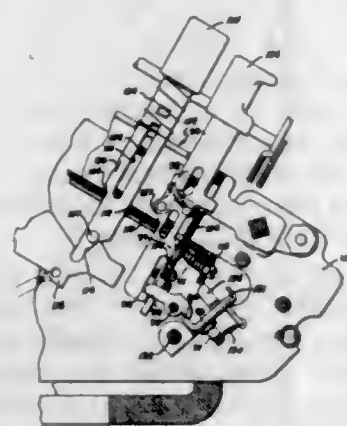
2. In a machine of the class described, having a traveling carriage and a totalizer, said machine constructed and arranged to perform cycles of operation in which the totalizer is selected and conditioned for various functions, the combination of actuators for the totalizer; means including a shaft to engage and disengage the totalizer and the actuators; means including a regularly-excursioned rack to operate the shaft; a clutch driven member fast on the shaft; a clutch driving member free on the shaft, and operatively connected to the rack; electromagnetic means integral with the clutch driven member and effective upon being energized to connect the driving member to said driven member to operate the shaft and the engaging and disengaging means; relays to prepare the circuit for the electromagnetic means; sensing means controlled by the traveling carriage in preselected columnar positions thereof to operate the relays to prepare the circuits to the electromagnetic means; and means controlled by the sensing means to make and break the flow of electrical energy to the electromagnetic means in proper timing in relation to the operation of the rack to cause the totalizer and the actuators to be engaged and disengaged in proper timing to effect the desired function.

2,714,986  
SINGLE CYCLE MECHANISM  
John L. Moody and Jon E. Grobl, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California  
Application January 2, 1952, Serial No. 264,486  
10 Claims. (Cl. 235-62)

1. In a cyclic calculating machine having a selection mechanism in which a factor may be entered, a latch for



said selection mechanism, a latch releasing means, power means, a clutch operatively connecting said power means to said machine, a power operated single-cycle mechanism selectively operative to disengage said clutch at the end of each cycle of machine operation, a manually operated



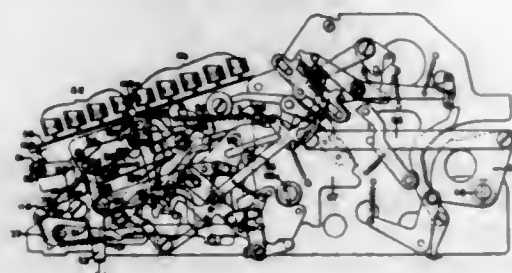
control member for selectively positioning said single cycle mechanism in either its operative or its inoperative position, yieldable connecting means adapted to connect said latch releasing means to said single cycle mechanism, and a manually positioned means controlling the operation of said connecting means.

2,714,987

# REPEAT MECHANISM FOR CALCULATING MACHINES

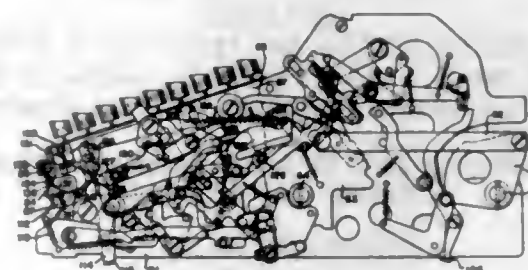
Nelson R. Frieberg, Ithaca, N. Y., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application May 18, 1954, Serial No. 430,481  
6 Claims. (Cl. 235—62)



1. In a calculating machine having a cyclically-operable main operating means; digit keys selectively operable from a restored position to a position in which they determine amounts to be entered into the machine during a cycle of operation; latch means holding the operated keys in operated position; means urging the keys to normal position; and a key-restoring means operable at the end of a machine cycle to release latched keys so that they will restore to normal position, the combination therewith of a machine-actuated means normally operating each cycle to operate the key-restoring means; means operable to trip the machine for causing a cycle of machine operation, said trip means, when held in operated position through the end of a machine cycle, initiating a repeat cycle; and control means having a neutral position, an automatic repeat position, and a non-automatic repeat position, said means, when moved from neutral position to its automatic repeat position, causing suppression of the machine-actuated means for operating the key-restoring means so that the operated keys will not restore at the end of a machine cycle, causing operation of the trip means as long as it stays in automatic repeat position to cause successive cycles of machine operation without key restoration between cycles, said control means when moved to its non-automatic position only suppressing the machine-actuated means for operating the key-restoring means.

2,714,988  
**KEYBOARD CONTROLS FOR ADDING MACHINES**  
Damon P. Brubaker, Ogden, Utah, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland  
Application November 15, 1954, Serial No. 468,855  
6 Claims. (Cl. 235—62)



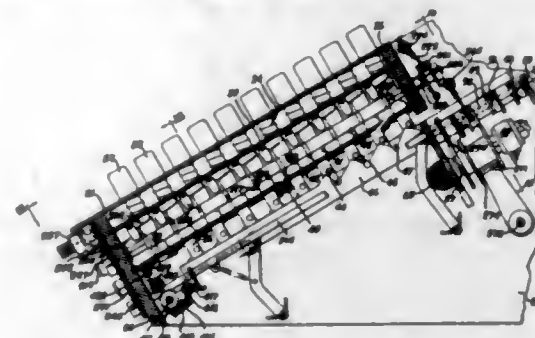
1. In a calculating machine having a cyclically operable main operating means and means operable to initiate a cycle of machine operation, the combination of a plurality of digit keys each operable from a normal ineffective position to a latch point, against a force urging it to normal position, where it controls the entry of data into the machine during the next machine cycle, and operable beyond the latch point to operate the machine cycle initiating means to cause a cycle of operation in addition to controlling the entry of data into the machine; latch means for the keys which latches any key operated to the latch point or beyond against returning to normal ineffective position; latch releasing means operable to release the latch means, permitting operated keys to return to normal ineffective position; latch releasing means operating means operated each machine cycle; an interponent flexibly coupled to the latch releasing means, said interponent being positioned so as to be moved by the latch releasing means operating means at the close of a cycle of machine operation, said movement of the interponent normally operating the latch releasing means to restore the keys; and means actuated by movement of a key beyond the latch point to hold the latch releasing means inoperative even though the interponent is moved by the latch releasing means operating means, the flexible coupling rendering such possible, whereby if a plural-digit number is set up on the keys and the operator operates and holds any key beyond the latch point through the end of the ensuing machine cycle, the keys will not be restored and the machine will go through another cycle in which the amount represented by the operated keys is again entered into the machine.

2,714,989

# CALCULATING MACHINE

Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application May 11, 1951, Serial No. 225,733  
27 Claims. (Cl. 235—73)



1. A constant factor mechanism for selectively inserting a predetermined value into an ordinarily arranged selection mechanism of a calculating machine comprising a shaft associated with each order of said selection mechanism, operating members operated by translation of said shaft to differentially position the selection mechanism

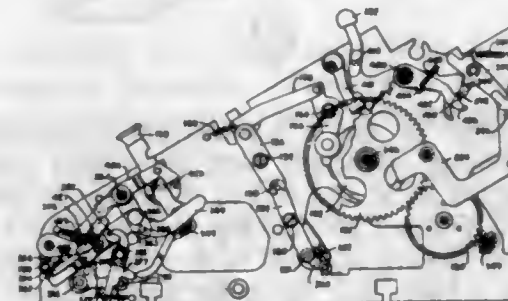
an amount determined by the angular position of said shaft, means for rotating said shaft in accordance with a digit value, and means for translating said shaft.

2,714,990

# OPERATION TERMINATING MECHANISM

Anthony B. Machado, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Continuation of application Serial No. 207,782, January 25, 1951, which was a continuation-in-part of application Serial No. 2,663, January 16, 1948, in turn a division of application Serial No. 666,966, May 3, 1946. This application October 15, 1951, Serial No. 251,311  
13 Claims. (Cl. 235—73)



1. In a calculating machine capable of performing division operations automatically by the method of successive subtractions, overdraft and corrective addition, a control member, a latch therefor, said member being moved to latched position when a division operation is initiated, said member remaining latched during the division operation, unlatching of said member terminating the operation, while latched said member moving from one position to another to control the subtraction and additive registrations, a lever manually movable in one of two directions to selectively terminate a division operation either in the current cycle or as soon as a true quotient figure has been registered, said lever having a face engageable with said latch when said lever is moved in one direction for moving said latch to release said member, said lever having a pawl thereon rendered operative with respect to said latch when said lever is moved in the other direction, said pawl moving into blocking relation with respect to said latch when said member and latch move to the additive control position so that upon return of said member from the additive position after determination of the true quotient figure said latch is blocked against movement by said pawl and said member is released from said latch.

2. In a calculating machine capable of performing automatic division and having a keyboard in which the divisor is set and latched, a division operation control member movable from ineffective position to operative position for effecting and controlling the performance of a division operation, an automatically operable keyboard clear means, normally ineffective disabling means adapted when rendered effective to disable said keyboard clear means, division stop mechanism including a lever manually movable in one direction or the opposite to effect returning of said division operation control member to ineffective position to selectively terminate the division operation either in the current cycle or as soon as a true quotient figure has been registered, and means actuated by movement of said lever in either direction for rendering said disabling means effective.

2,714,991

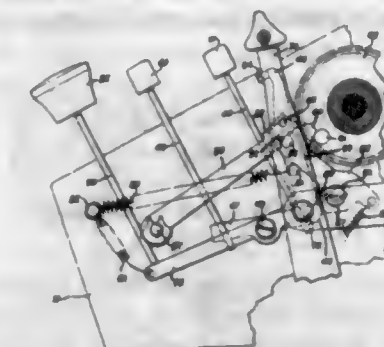
# SIGN CONTROL MECHANISM FOR DUPLEX REGISTERS

George W. Hopkins, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application April 7, 1951, Serial No. 219,856  
4 Claims. (Cl. 235—79)

1. In a plural register calculating machine having a plurality of accumulator registers, digitation control

mechanism for controlling registrations in said registers, a manually set control means for determining like or unlike digitation of said registers, means urging said control means to one extreme position, a latch for holding



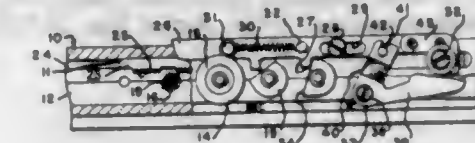
said control means in the other extreme position, cyclically operated means for releasing said latch, and selectively settable means for rendering operable said cyclically operated means.

2,714,992

# REGISTER MECHANISM FOR CALCULATING MACHINE

Grant C. Ellerbeck, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California

Application June 29, 1954, Serial No. 440,080  
4 Claims. (Cl. 235—144)



1. In a calculating machine register, a carriage frame, ordinarily arranged dial assemblies rotatably mounted in said frame in parallel relationship to each other and each including a shaft, a numbered dial mounted on one end of said shaft, a zero stop cam mounted on said shaft in spaced relationship to said dial and a resetting gear mounted on said shaft in spaced relationship to said dial and said cam, a clearing rack slidably mounted in said frame for longitudinal movement and extending past said resetting gears and having spaced-apart groups of rack teeth engageable with said resetting gears to at least partially return said dial assemblies from actuated positions to "0" positions when said rack is moved longitudinally relative to said frame, a zero stop mounted on said frame for longitudinal movement and extending past said zero stop cams and having projections spaced apart therealong and engageable with said cams to positively stop the corresponding dial assemblies in their "0" positions, said projections being effective to engage the zero stop cams of any dial assemblies which have not been turned to "0" position by movement of said clearing rack and complete the turning of such dial assemblies to their "0" positions, and means imparting longitudinal movement to said zero stop bar when said clearing rack is moved longitudinally.

2,714,993

# RANGE WITH AUTOMATIC CHECK DAMPER UNIT

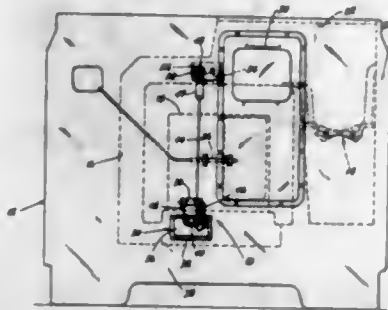
Robert E. Gardiner, Afton, Mo., assignor, by mesne assignments, to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware

Application August 23, 1951, Serial No. 243,329  
8 Claims. (Cl. 236—15)

1. In a range, grate means for supporting a quantity of combustible material, a smoke passage for conducting products of combustion of said combustible material within said range, a flue outlet in said smoke passage for emitting said products of combustion from said smoke



passage, a check damper assembly in said smoke passage for selectively admitting outside air thereunto at a point substantially ahead of said flue outlet, said check damper assembly comprising a frame having an inclined external face, a movable door plate adapted to close said face, and a pivotally mounted stirrup pivotally connected to said door and adapted to withdraw the same bodily from said inclined face, and temperature responsive means disposed within said smoke passage and connected to said check damper assembly for operating the latter in predetermined accordance with the temperatures obtaining in said smoke passage.

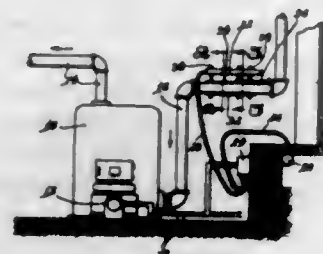


ected to said door and adapted to withdraw the same bodily from said inclined face, and temperature responsive means disposed within said smoke passage and connected to said check damper assembly for operating the latter in predetermined accordance with the temperatures obtaining in said smoke passage.

2,714,994

# TEMPERATURE CONTROL APPARATUS HAVING A PLURALITY OF THERMAL RESPONSIVE DEVICES

John J. McGillis and Hugh D. McGillis, Brockton, Mass.  
Application August 2, 1951, Serial No. 239,884  
2 Claims. (Cl. 236-91)



1. In a building heating system having heat generating means and distribution conduits for conducting a heating medium within the building, including a return conduit for conducting said medium back to the heat generating means, an insulating covering on said return conduit, a gas-filled thermally responsive device mounted adjacent to said covered return conduit, said covering having an opening therein opposite said device whereby heat from said covered return conduit is released through said opening into heating relation to said device, means for selectively varying the effective size of said opening through said covering thereby to vary the heating effect of said covered return conduit on the adjacent thermally responsive device, a second gas-filled thermally responsive device located exteriorly of said building and responsive to outside temperature, a pressure responsive device connected to both of said thermally responsive devices and responsive to gaseous pressure therein produced by the conjoint response of the two said thermally responsive devices respectively to heat from said return conduit and to outside temperature, mechanism controlling the operation of said heat generating means, and actuating means connecting said pressure responsive device and said controlling mechanism whereby said heat generating means is started and stopped solely in response to pressure changes in said pressure responsive device.

## 2,714,995 SELF-SHARPENING LAMINATED HAMMER MILL KNIFE

Sanning C. Jensen, Neola, Iowa  
Application May 26, 1952, Serial No. 289,935  
4 Claims. (Cl. 241-195)

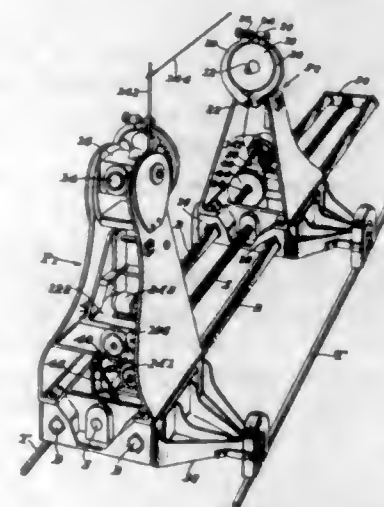


1. A hammer set for a hammermill comprising two hammers disposed alongside each other with inner end sections adapted to be attached to the rotor of said hammermill, said hammer also having parallel outer end sections disposed closely adjacent each other, said hammers each having a base, and the outer end of each of said hammer bases having hardfacing bonded thereto on the sides thereof disposed away from the other hammer of the set and being without hardfacing on those sides of said hammer bases which are disposed adjacent each other whereby the hammers will fit closely adjacent each other and whereby as the forward sides of the tips of each hammer base is worn away in operation the hardfacing will present to the work a hard cutting edge on the forward side of each hammer.

2,714,996

## MOBILE ROLL STAND

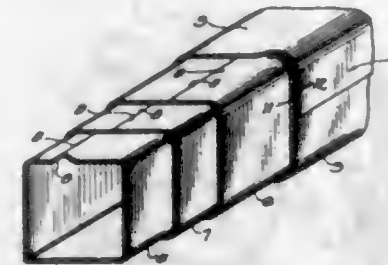
Milton W. Stroehman, Parkersburg, W. Va., assignor to Kootz & Stroehman Machine Co., Parkersburg, W. Va., a corporation of West Virginia  
Application August 21, 1950, Serial No. 180,643  
10 Claims. (Cl. 242-58)



2. A mobile sheet roll stand comprising first and second adjustably connected pedestals having track engaging wheels for moving the stand into a forming line, a lead screw connecting said pedestals, driven means on said second pedestal engaging said screw for relatively adjusting said second pedestal on the track from and toward said first pedestal to grip and release a roll, bearing blocks mounted at the upper ends of said pedestals, core plugs adapted to enter opposite ends of the roll opening rotatably mounted in said bearing blocks, and means for mounting said bearing blocks on their pedestals for limited pivotal movement about horizontal axes normal to the roll axis providing self-alignment of said core plugs when a roll is gripped and supported thereby.

## 2,714,997 LAMINATED TUBULAR BODY AND ELECTRICAL COIL FORM

Melvin S. Weisbart, Chicago, Ill.  
Application February 16, 1951, Serial No. 211,350  
4 Claims. (Cl. 242-119)

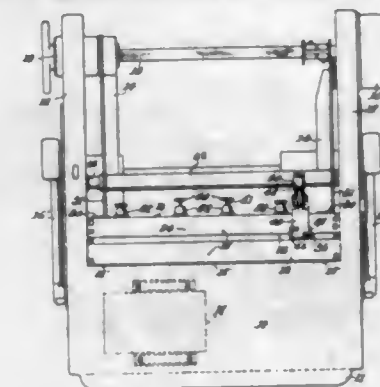


1. An electrical coil form comprising a laminated inner rectangular lamination having inner sharp corners formed by longitudinal scores in its material and accurate transversely dimensioned inner surfaces between said corners, said lamination having a butted edge seam joint extended parallel to the form axis, at least one lamination surrounding and contacting said inner lamination and having a butted edge seam joint extended parallel to the form axis and offset peripherally of the form from said inner lamination seam joint, and a wrapper providing an outer surface for supporting a coil, said wrapper tightly encircling said outermost lamination and having an overlapped seam joint extended parallel to said form axis, and said wrapper comprising a portion extended flat across the seam joint of said outermost lamination, meeting surfaces of said laminations, wrapper and said first and outer portions of the latter being adhesively secured together.

2,714,998

## LEVEL WINDING MECHANISM

Nicholas R. Gullbert, Jr., Wyndmoor, Pa., assignor to the United States of America as represented by the Secretary of the Army  
Application June 26, 1952, Serial No. 295,677  
7 Claims. (Cl. 242-158)



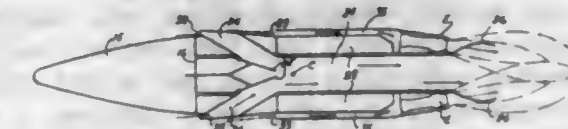
1. In a reeling and unreeling machine for field use with wire and the like, a reel support, a reel spindle thereon, means to rotate the spindle, a combined guide and housing parallel to the axis of the spindle, a two-way worm shaft arranged longitudinally within the guide operatively connected to the spindle, a carriage mounted to travel within the guide, said guide comprising a tube-like track enclosing the carriage and having at least one longitudinal downwardly opening slot, said carriage having an extension through the slot, strand-guiding means on the said extension constructed to receive a strand from a remote supply and to guide the same toward said reel spindle, an abutment runner on the carriage engaged with the worm shaft and pivotally movable to change its direction, said runner having a length to extend a distance in alignment with either helix angle of the worm shaft and being pivotally movable to change its position from one helix angle of the worm shaft to the other helix angle of the worm shaft, a plurality of stop devices spaced longitudinally on the guide, each having a re-

tractable stop part within the guide and a manual operating part external to the guide operable at will to retract said stop part, and reversing means on the carriage to shift the angular position of the runner relative to the shaft and having a part external to the carriage but within said guide to engage an unretracted stop in the path of said reversing means under movement of the carriage beside such stop and operable by said stop under relative movement of the carriage and stop device to move the abutment runner from one helix angle position to the other.

2,714,999

## JET PROPELLED BOMBING AIRCRAFT

Armand J. Thieblot and Rodger W. Davis, Hagerstown, Md., assignors to Fairchild Engine and Airplane Corporation, New York, N. Y., a corporation of Maryland  
Application April 20, 1949, Serial No. 88,621  
4 Claims. (Cl. 244-74)



1. In an airplane having a substantially cylindrical fuselage and supporting and orienting surfaces, the combination of a tube mounted coaxially with said fuselage with its rear end terminating at the rear end of said fuselage, said tube having a substantially smaller diameter than said fuselage to provide an annular space between the outer wall of said tube and the inner wall of said fuselage, a plurality of combustion gas reaction engines arranged in circular series within said annular space adjacent the rear end of said fuselage for propelling the airplane, and fuel containing means arranged within said annular space forwardly of said engines for supplying the latter with fuel.

2,715,000

## VARIABLE ASPECT RATIO CONTROL MEANS FOR PLANING SURFACE UNITS OF AIRCRAFT LANDING GEAR

Raymond B. Janney II, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware  
Application July 18, 1951, Serial No. 237,331  
2 Claims. (Cl. 244-108)



1. An aircraft, a fuselage, having landing gear with water planing adaptability mounted thereon, a hydrodynamic lift control for the aircraft landing gear, said landing gear comprising strut members having a fixed portion and a rotatable end portion, said fixed portion being connected to and depending from the fuselage, a bearing surface on each of said fixed strut sections, a rotatable torque link collar around said bearing surface, a torque link having one end connected to said collar and the opposite end connected to means carried by said lower strut section, said lower strut section being rotatable in said upper section, and remotely controlled fluid ram means connected to said rotatable torque link collar for transmitting power through said torque link to rotate the lower strut section, to thereby change the angle of the longitudinal axis and the aspect ratio of each planing surface of each unit by turning the leading edges of each of the respective planing surface units either inboard or outboard on the vertical axis of the said respective struts.



**2,715,001**  
**FLYING MACHINE HAVING CUSHIONED CABIN**  
 Gaetano Provenzano, Paterson, N. J.  
 Application May 7, 1952, Serial No. 286,459  
 1 Claim. (Cl. 244—118)



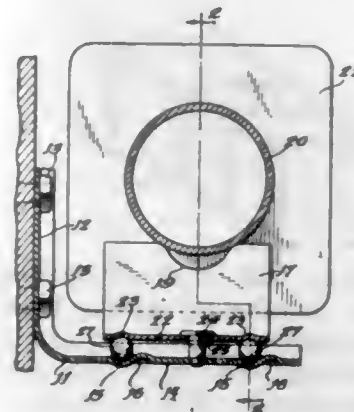
In an airplane having a fuselage comprising a hollow metal body, a chamber for carrying passengers within said body, cushioning means lining the interior of said chamber, resilient sheeting surrounding said cushion means, second resilient sheeting lining the interior of the airplane body, a plurality of coiled springs intermediate said first and second resilient sheetings, said cushioning means comprising mattresses filled with feathers, said first resilient sheeting comprising rubber, said second resilient sheeting comprising double-ply rubber sheeting, a reinforced element intermediate said double-ply rubber sheeting, said element being tensioned whereby to increase its protective function by resisting deformation, and a layer of fire-resisting material intermediate the hollow body and second resilient sheeting.

**2,715,002**  
**IRONING CORD HOLDER**  
 Zean W. Davis, Plano, Ill., assignor to Davis Manufacturing Company, Plano, Ill., a partnership consisting of Zean W. Davis and Dorothy E. Davis  
 Application June 26, 1952, Serial No. 295,740  
 3 Claims. (Cl. 248—51)



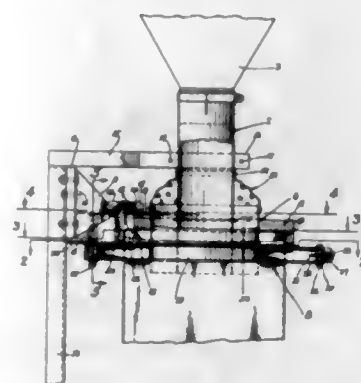
1. In an ironing cord holder of the type comprising a clamp adapted to be clamped to an ironing board, a mast extending from said clamp and having means at one end thereof for clamping an ironing cord thereto, and an extension coil spring having one end connected to the other end of said mast; the combination with said holder of swivel joint means connecting said clamp to the other end of said coil spring and operable to hold the mast in either a substantially horizontal or substantially vertical position, said joint means consisting of two parts, one of which comprises a vertically-extending fork member rigidly connected to said clamp and the other of which comprises an elongated member having a plate-like portion pivotally received in said fork member, and a sleeve slidable over said member and effective, when in that position, to prevent pivoting of said parts relatively to each other, and slidable over said coil spring and when in that position, permitting such pivoting.

**2,715,003**  
**SHIFTABLE BRACKET**  
 Ellis G. Powell, Michigan City, Ind., assignor to C. A. Dunham Company, a corporation of Iowa  
 Application December 9, 1952, Serial No. 324,968  
 3 Claims. (Cl. 248—55)



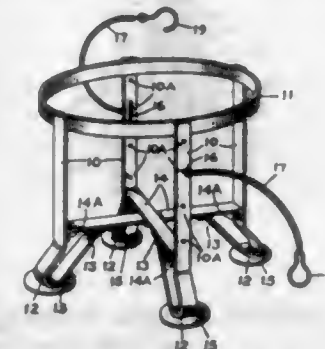
1. A shiftable bracket comprising: an L-shaped sheet metal support member having one leg adapted to be secured to a wall and the other leg having a pair of longitudinally extending ball bearing race-ways in one face and a second pair of race-ways in its opposite face offset from the first set; an upper support member having a pair of race-ways in its lower face spaced for alignment with either pair of race-ways in the L-shaped member; a ball in each upper race-way supporting the upper support member; and retaining means for shiftably securing the upper and lower support members together with the balls engaging one pair of the race-ways in the L-shaped member.

**2,715,004**  
**BAG HOLDERS**  
 Harold K. Fox, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, Minneapolis, Minn., a corporation of Missouri  
 Application November 19, 1951, Serial No. 257,164  
 5 Claims. (Cl. 248—101)



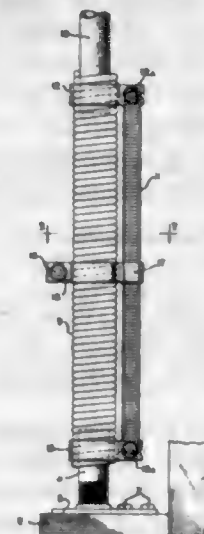
1. In combination with a packer tube having its upper end in communication with a hopper for supplying material thereto, a hollow member of spheroidal cross-section fitted over and secured to the packer tube with its spheroidal walls spaced outwardly from the walls of the packer tube, a pair of clamping jaws mounted for pivotal movement in a horizontal plane and interconnected for simultaneous operation in opposite directions, said jaws having concave wall portions cooperating with the spheroidal walls of said member to secure a bag top thereto to receive a charge from the packer tube, and a shouldered element positioned to be engaged by each bag top to vertically locate the bag top on said hollow member to assure accurate engagement of the bag top walls by said clamping jaws when said jaws are swung into clamping engagement with the walls of a bag top.

**2,715,005**  
**HOLDERS FOR GARBAGE CANS**  
 James R. Hildebrand, Jacksonville, Ill.  
 Application August 15, 1952, Serial No. 304,517  
 1 Claim. (Cl. 248—154)



In a holder for garbage cans, a plurality of vertically disposed frame members spaced apart and connected at their upper ends by a circular band member, the lower portion of each frame member formed in an outwardly inclined substantially U-shaped foot, horizontally disposed strap members for supporting the garbage can each attached to diametrically opposed vertically disposed frame members intermediate said circular band member and the U-shaped foot of each of said frame members, the inner end of each U-shaped foot being attached to the bottom of one of said horizontally disposed cross strap members at a point removed from the point of attachment of said strap member with the vertically disposed corresponding frame member, a series of spaced apart apertures in two oppositely disposed frame members for selective engagement with a pair of coil spring elements secured in one of said apertures, a loop member suitably attached to the outer end of one of said coil spring elements and an open hook member suitably attached to the outer end of the other of said coil spring elements, the loop member adapted for non-detachable engagement with the handle of a garbage can cover, the open hook member adapted for detachable engagement with said handle, and a disc shaped pad fixed to the bottom of each U-shaped foot.

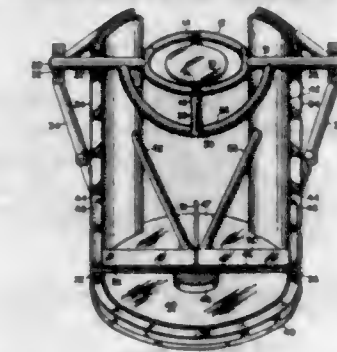
**2,715,006**  
**HOSE SUPPORT FOR VEHICLES**  
 Ralph R. Gunderson, Chicago, Ill.  
 Application July 2, 1952, Serial No. 296,897  
 4 Claims. (Cl. 248—160)



1. A yielding support for vehicle hose lines, comprising: a strong, closed-coil, staff supporting spring having a lower end adapted to be secured in upright position to a tractor frame; a hose supporting staff having its lower end secured to the upper portion of said spring, the medial portion of said spring being freely flexible so that said staff is tiltable; a closed-coil auxiliary spring

of smaller diameter than said staff supporting spring, said auxiliary spring being positioned in offset substantially parallel relation to the staff supporting spring; and separate members for rigidly securing the end portions of said auxiliary spring to the support above and below the freely flexible medial portion of said staff supporting spring, whereby less force is required to tilt the staff away from the auxiliary spring side of the staff than toward it.

**2,715,007**  
**GIMBAL MOUNTING**  
 Eli A. Zeldin, China Lake, Calif.  
 Application July 31, 1953, Serial No. 371,740  
 13 Claims. (Cl. 248—180)  
 (Granted under Title 35, U. S. Code (1952), sec. 266)



1. A gimbal mounting which comprises a reacting means supported for free movement about any of three mutually perpendicular axes, main ring means rotatably supporting said reacting means, auxiliary ring means associated with said main ring means, shaft means mounting said main ring means and said auxiliary ring means for rotation thereof, a base member, guide means positioned on said base member, support means mounted for rotation on said guide means, primary bearing means on said support means rotatably supporting said shaft means, and secondary bearing means mounted outwardly of said primary bearing means on brackets connected to said support means at a point horizontally below said primary bearing means to provide additional support for said shaft means and to reduce any deflection thereof.

**2,715,008**  
**APPARATUS FOR CARGO TIE-DOWN AND THE LIKE**  
 John Richard Huber, Warrington, Pa., assignor to Eastern Rotorcraft Corporation, Nesheim, Pa., a corporation of Pennsylvania  
 Application April 3, 1950, Serial No. 153,618  
 8 Claims. (Cl. 248—361)



1. A cable anchoring and adjusting device for transferring a tension load from the cable to a loading point, including a body having a snubbing drum attached thereto at a point remote from the upper end of said body, attachment means for anchoring the lower end of said

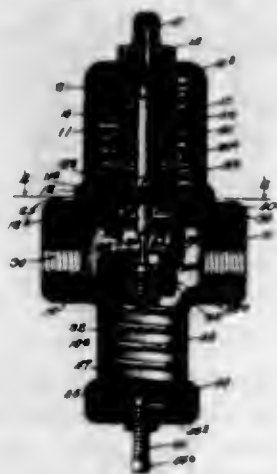


body structure, a cable deflecting member located between said drum and the upper end of said body, a pair of clamping shoes located between said drum and the upper end of said body, an interconnecting link for transferring a load between said cable deflecting member and one of said clamping shoes, thereby providing for increased clamping pressure upon increase in cable tension acting through said cable deflecting member.

2,715,009

**BELLOWS OPERATED SELF ALIGNING VALVE**  
Henry L. Beekley, Glen Ellyn, Ill., assignor, by mesne assignments, to Electromatic Company, a corporation of Illinois

Application April 15, 1949, Serial No. 87,778  
3 Claims. (Cl. 251—61)



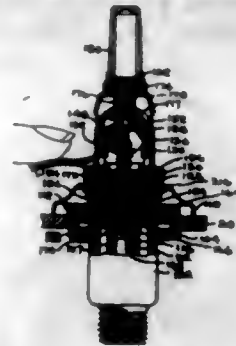
1. A valve of the character described, including: a valve body having an inlet, an outlet and an operating chamber; a partition separating said inlet and outlet, said partition having a flow opening therethrough and said valve body having an opening into a cylindrical recess in a wall on the opposite side of said partition from said chamber; a diaphragm for sealing said recess; a valve member in said chamber adapted to control the flow of fluid through said flow opening, said valve member having a portion extending in only one direction therefrom, through said flow opening and through the opening into said recess, said extending portion having a diameter smaller than that of the opening in said recess; a generally polygonal pressure member having a seat swivelly engaging said extending portion, said pressure member having at least a portion of its sides spaced from the wall of said recess and being loosely carried in said recess and being adapted frictionally to engage said diaphragm, said extending portion having limited lateral movement; actuating means operative on said pressure member through said diaphragm for moving said valve member; a coil spring within said chamber for resiliently supporting said valve member; said spring having a diameter smaller than the bore of said chamber to permit limited angular movement of said valve member to provide automatic alignment of said valve member with said flow opening; and a stud threaded into said chamber for adjusting the tension of said spring.

2,715,010

**FLUID VALVE ASSEMBLY**  
Donald H. Reeves, Beulah, Mich.  
Application June 28, 1949, Serial No. 101,780  
4 Claims. (Cl. 251—74)

1. In a fluid valve assembly, the combination including self-closing valve means, control means including a handle with a cylindrical end for opening and closing said valve means to any desired degree within the operative range of the valve means, a housing carrying the control means, a cap over one end of the housing, and friction means for holding said valve means open to any desired degree, the friction means including a socket in

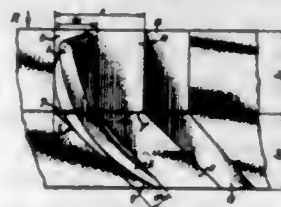
which resides the cylindrical end of the handle, the socket being replaceable without the necessity of replacing any other parts and consisting of two blocks held



in their proper position by the housing and the cap and of such form as to cause sufficient friction between the socket and the handle so that the handle will remain in any desired position.

2,715,011

**CERAMIC BLADE FOR TURBINE ENGINE**  
Christian Schörner, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nürnberg A. G., Augsburg, Germany, a corporation of Germany  
Application December 29, 1949, Serial No. 135,580  
Claims priority, application Germany July 19, 1949  
4 Claims. (Cl. 253—77)



1. In a gas turbine having a metal rotor and a plurality of composite ceramic blades mounted around the rim thereof, the combination which comprises a plurality of transverse grooves in the rim of said rotor for receiving said blades, each of said grooves having a portion disposed substantially axially of said rotor and a second portion disposed at an angle to said axial portion, a plurality of separate ceramic blade elements assembled in edge-to-edge arrangement on said rotor forming each said blade, each of said elements having a vane part and a root part which completely underlies the entire cross section of said vane part, means for affixing the root part of one of said elements in said axial portion of said groove in said rotor, and means for affixing the root part of another of said elements in said second portion of said groove, the vane parts of said assembled elements forming for each said blade a continuous curved working surface and the root parts of said elements abutting at a substantial angle and having a substantially rectilinear transverse cross section.

2,715,012

**CARGO TIE DOWN DEVICE**  
John Richard Huber, Warrington, Pa., assignor to Eastern Rotorcraft Corporation, Neshaminy, Pa., a corporation of Pennsylvania

Application May 12, 1951, Serial No. 226,051  
8 Claims. (Cl. 254—67)

5. For a cargo tiedown device having a tension member and a tightening device, said tightening device having a threaded terminal member for engaging the tension member, anchoring mechanism including a threaded terminal fork member, a threaded barrel member for engaging said terminal members to cause tightening action upon rotation of said barrel member with respect to said terminal members, said anchoring mechanism including a pair of curved jaws pivotally attached to said terminal fork member by a single pivot member and having extension legs project-

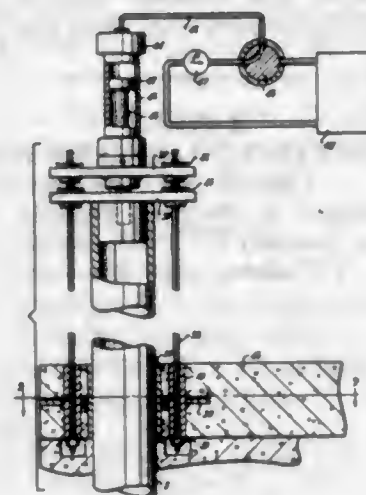
ing into said fork member, a rotatable ring element rotatably supported around said fork member, said ring element having an internal shape adapted to engage said extension legs for opening and closing said jaws, the internal shape including a circular portion for engaging



said terminal fork member and a pair of tangential wall surfaces extending from the circular portion and forming internal cam surfaces which engage said extension legs for closing action upon rotation of said ring element.

2,715,013

**APPARATUS FOR ERECTING A BUILDING**  
Thomas B. Slick, San Antonio, Tex., assignor, by mesne assignments, to United States Lift Slab Corporation, Austin, Tex., a corporation of Delaware  
Application July 26, 1948, Serial No. 40,746  
1 Claim. (Cl. 254—106)

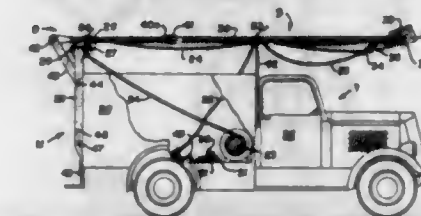


Apparatus for erecting a building including a hoisting unit, said unit comprising an elongated force transmitting member; a jack having parts relatively movable toward and away from each other alternately during operation and having tapered sockets therein; downwardly tapered segmented slips carried by each of said relatively movable jack parts in the correspondingly tapered sockets in the jack parts, said member extending through one of said sockets in each jack part and being spaced from the walls thereof with said slips positioned therebetween whereby, when the jack is operated in one direction, one of the parts will move upwardly with the respective slips thereof forming a fixed connection with said force transmitting member to lift the member upwardly relative to the other of said jack parts as the member slides freely through the respective slips of said other part, and whereby, when the jack is operated in the opposite direction, said one jack part will move downwardly accompanied by initial downward movement of the member relative to said other jack part, the re-

spective slips of said other part seating in the socket thereof to form a fixed connection with said member to hold it stationary, and simultaneously therewith the slips of the one jack part becoming free from their fixed connection with said member in said stationary position and sliding and following the one part as it moves downwardly; an upright support, said other jack part being supported on the upper end of said upright support, a combined anchor and bearing guide slidably mounted on said upright support below said jack, said force transmitting member being liftingly secured to said combined anchor and bearing guide, whereby a slab cast about said combined anchor and bearing guide may be raised by said jack to a desired elevated position for permanent attachment to said upright support.

2,715,014

**VEHICLE DERRICK**  
Edward V. Garnett and George N. Gromer, Denver, Colo., assignors to Truck Equipment Company, Denver, Colo., a corporation of Colorado  
Application March 26, 1954, Serial No. 418,961  
19 Claims. (Cl. 254—139.1)



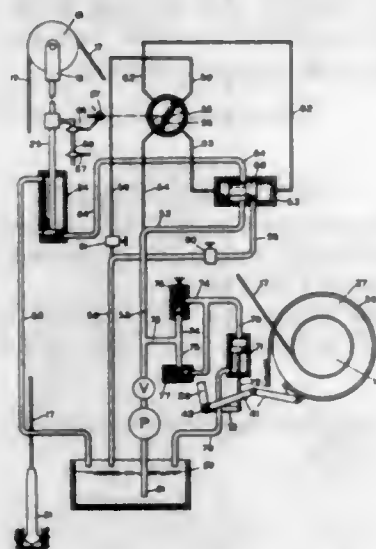
1. A derrick for a truck having a cable winch mounted thereon, comprising an upright frame mounted at one end of the vehicle and including a pair of vertically extending supports at each side, a bracket at the upper end of each support and a shaft extending between said brackets in a position offset from the center of said support toward said winch; a pin mounted for lateral horizontal movement in each said bracket at a position offset from the center of said bracket in a direction away from said winch, said pins being movable inwardly and outwardly; a boom including a pair of legs connecting at their upper ends and diverging to their lower ends, a cross member extending between said legs and provided with a socket at the center thereof and a third leg formed of telescoping members pivoted at their top to the upper end of said boom and received at the lower end in said socket, the lower ends of said side legs being flattened and provided with pivot holes and the upper end of said boom being provided with a sheave and a bracket for a pulley spaced rearwardly from said sheave; a pair of links, each said link being pivotally attached at one end to a support at an intermediate position and at the opposite end to the lower end of a boom leg; a bushing having a central hole therethrough pivotally connecting the said opposite end of each link with the lower end of the corresponding boom leg; a removable pin for attaching each said bushing to said support and thereby pivotally attach the lower ends of said boom legs to said supports; an inverted U-shaped bracket having an upper horizontal cross bar mounted on said truck in spaced position from said supports, said boom resting on said shaft and on said horizontal bracket bar in storage position, said bar being provided with spaced upstanding ears in a central position to receive the center leg of said boom therebetween; a pulley mounted on said shaft; a pair of plates, one at each side of said pulley, and extending outwardly therefrom in one direction; a guide pulley pivotally mounted on said plates in spaced relation to said shaft pulley, said winch cable extending between said shaft pulley and said guide pulley and around said boom sheave, at least one leg of said boom being provided with a hook for attachment of the free end of said cable; a guy cable attached at its upper end to said guide pulley bracket at the upper



end of said boom; a chain attached to the lower end of said guy cable; and a link slotted stanchion mounted on said truck for adjustably securing said guy cable chain.

2,715,015

**AUTOMATIC FEED FOR CABLE-TOOL DRILL**  
Herbert W. Thornburg, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware  
Application September 25, 1953, Serial No. 382,317  
8 Claims. (Cl. 255-15)



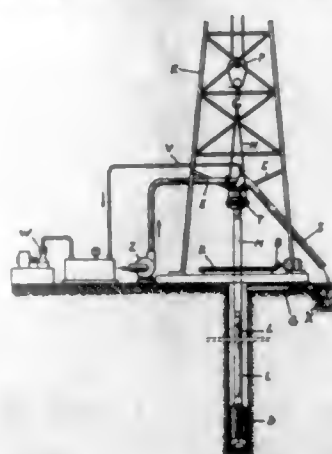
1. In an automatic hydraulic feed for an hydraulic cable-tool drill, such drill comprising: a reversible winch-drum; means for driving said drum at will; a percussion drill-bit; a cable wound upon said drum and extending to support said bit; a spudding-sheave, supporting said cable at a point intermediate said drum and said bit; and hydraulic means for reciprocating said sheave to raise and lower said bit; said reciprocating means including a source of hydraulic-fluid pressure, reversible fluid motor means, means operatively connecting said motor means to said sheave to reciprocate said sheave, an hydraulic circuit extending from the source to the motor means, said motor means and said circuit being such that resistance to said motor means when set for bit-raising will create back-pressure in said circuit, and means automatically responsive to the position of the sheave to reverse the motor means from bit-lowering to bit-raising shortly before each time the sheave reaches its extreme bit-lowering position at the bottom of the drilling stroke; all the foregoing constituting merely the setting for the automatic feed; the combination of: a brake for the drum; means for setting the brake at will; hydraulic means for momentarily releasing the brake in response to hydraulic pressure beyond a predetermined amount; and an hydraulic side-conduit extending from the hydraulic circuit to said brake-releasing means; whereby excessive back-pressure in the circuit at the bottom of the drilling stroke, due to the bit not bottoming, will send a shot of liquid through the side-conduit to momentarily release the brake, thus paying out a small amount of cable.

2,715,016

**HYDRAULIC ROTARY SYSTEM OF DRILLING WITH REVERSE WATER CIRCULATION**  
Italo Veneziani and Vinicio di Cocco, Bologna, Italy  
Application September 12, 1952, Serial No. 309,168  
Claims priority, application Italy April 2, 1952  
1 Claim. (Cl. 255-24)

A drilling apparatus comprising a derrick, a traveling block suspended from said derrick, a rotary table on said derrick, means for driving said table, a grief stem suspended from said block and slidably mounted on said table to rotate therewith, a drill pipe string carried by

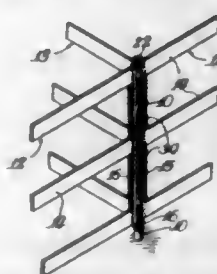
and connected with said grief stem, an apertured drill bit on the lower end of said drill pipe string, a non-rotatable vertical suction branch slidably mounted within the upper part of said rotary grief stem, means connected with said suction branch beyond said grief stem and secured to said derrick and supporting said suction branch independently of said grief stem, packing means forming a fluid-tight seal between said relatively rotatable and slidable grief stem and suction branch, a descending outlet branch connected by an elbow to the upper end of said suction branch and discharging into a pit, the top of said outlet branch having a connection to the suction side of



a vacuum pump, a jet nozzle opening into said elbow and directed toward said outlet branch, means connected with said jet nozzle for supplying fluid under pressure through said nozzle and into said outlet branch to generate a suction in said grief stem and drill pipe string, and an overflow pipe in communication with the pit into which the outlet branch discharges and opening into the drill hole drilled by said bit, whereby the water freely flowing from the pit into the drilled hole is sucked, together with the drill cuttings, through the bit, drill pipe string, grief stem and suction branch and is ejected through said outlet branch back into the pit.

2,715,017

**FENCE POST HAVING MEANS TO RECEIVE CROSS MEMBERS**  
Richard B. Welmer, Batavia, Ill.  
Application January 27, 1953, Serial No. 333,453  
7 Claims. (Cl. 256-65)



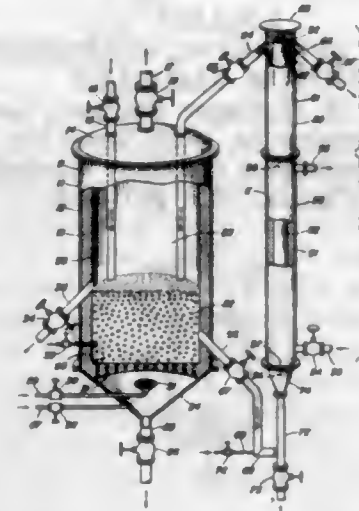
1. A fence post structure, comprising: a cylindrical member having a lower portion to be embedded in the ground and an upper portion extending above ground at least to the level of the proposed fence; a lower collar about the cylindrical member forming therewith an annular upwardly open groove, said lower collar having a radially extending outer flange above said groove; an upper cap secured over the top portion of the cylindrical member forming therewith an annular downwardly open groove, said upper cap having a radially extending outer flange below said groove; a channel-shaped member having an arcuate base to repose against said cylindrical member and legs integral with the base extending outwardly of the base, said base extending longitudinally beyond each end of said legs forming ears receivable respectively in said grooves to anchor the channel-shaped member to said cylindrical member in any selected position circumferentially about the post structure, said

channel-shaped member and said outwardly extending flanges on said collar and cap being adapted to receive the end portions of generally horizontally extending fence forming members.

2,715,018

**RECOVERY OF HEAT FROM FINELY-DIVIDED SOLIDS**

Walter C. Lapple, Kansas City, Mo., and Hermann W. Behme, Norwalk, Conn., assignors to The Dorr Company, Stamford, Conn., a corporation of Delaware  
Application December 20, 1951, Serial No. 262,595  
3 Claims. (Cl. 257-55)

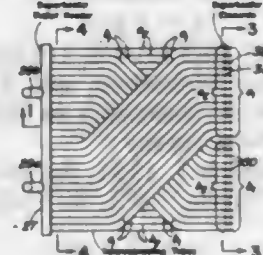


1. The continuous method for abstracting sensible heat from a hot gas-solids suspension, which comprises passing such suspension upwardly through a substantially vertical heat exchange chamber maintained in indirect heat exchange relationship with an everchanging coolant mass, and directly passing thus cooled gas-solids suspension from the heat exchange chamber upwardly into and through a substantially vertical stabilizing chamber maintained under substantially non-heat exchanging conditions while controlling the period of detention of the cooled suspension under the latter conditions to be sufficient for the cooled solids to discharge from the stabilizing chamber at a rate substantially equal to the rate of hot solids supply to the heat exchange chamber.

2,715,019

**MEANS FOR TEMPERATURE EQUALIZATION IN HEAT EXCHANGER**

Paul R. Walter, East Orange, N. J., assignor to Combustion Engineering, Inc., New York, N. Y., a corporation of Delaware  
Application June 25, 1951, Serial No. 233,331  
10 Claims. (Cl. 257-241)



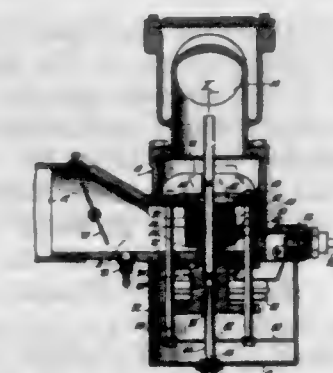
1. In a fluid heat exchange apparatus, means forming a pass for furnace gas flow of non-uniform and non-symmetrical heat exchange values over the cross section of said pass, a plurality of flat tubular heating coils arranged in said gas pass with their axes in planes substantially parallel to the walls of the gas pass for heat exchange fluid flow through those coils, an outlet header to receive the heated fluid from said coils, said header having means forming two outlets and tubular connections each establishing direct communication between said heating coils and header outlets said tubu-

lar connections being located substantially outside of said furnace gas flow path and being divided into two groups each having a substantially equal number of tubes, one half of the number of said tubular connections in each of said two groups communicating with one header outlet the other half communicating with the other header outlet each connection forming with its heating coil and the header outlet with which it communicates a flow path, each group of said tubular connections comprising flow paths having heating coils arranged in gas flow zones of different heat exchange values some of said flow paths discharging fluid having a temperature different from that of the fluid discharged by others, whereby the fluid temperature in the one header outlet nevertheless substantially equals the fluid temperature in the other header outlet.

2,715,020

**CARBURETOR WITH STATIONARY METERING PIN**

Andrew Craig Russell, Shawnee, Okla.  
Application October 18, 1952, Serial No. 315,542  
1 Claim. (Cl. 261-50)



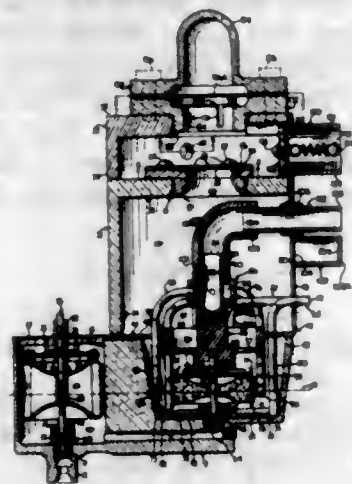
In a carburetor, a housing having an air inlet, an outlet, and a passage therethrough, said passage including an intermediate, circular aperture having a vertical axis; a hollow fuel bowl mounted on said housing and therebelow, said bowl vertically underlying said aperture of the passage; a plurality of elongated, vertical rods mounted in the housing for vertical reciprocation relative thereto, the lowermost ends of said rods being disposed within said bowl and the uppermost ends thereof being disposed within said passage and adapted to pass through said aperture when they are vertically reciprocated; valve-supporting structure of circular cross-section mounted on the housing beneath and in axial alignment with said aperture, said structure extending upwardly to said aperture to define an annular opening between the housing and the uppermost extremity of the structure, said structure being provided with a vertical bore therethrough and a lateral passage communicating with said inlet and with said bore intermediate the extremities of the latter; an annular valve within the passage and above said structure, said valve being secured to the uppermost ends of the rods and thereby mounted for vertical reciprocation to and from a seated position resting on said structure and closing said opening; an elongated tube slidably mounted in said bore for vertical reciprocation, the uppermost extremity of the tube extending above the structure and through the valve into communication with said outlet, the lowermost end of the tube extending through the structure and the housing into the bowl, said tube being provided with an elongated, vertical slot in communication with said lateral passage regardless of the reciprocated position of the tube; a plate interconnecting the lowermost ends of the rods within the bowl and provided with an opening clearing the tube; a cross-plate within the passage and above the aperture interconnecting the tube with the valve; and an upright, tapered, metering pin rigidly mounted on the bowl and extending upwardly therewithin into a lowermost portion of said tube.



2,715,021

**CARBURETOR**

Alexander Rigby Wood, Ashfield, New South Wales, and Noel Raymond Wood, Drummoyne, New South Wales, Australia, assignors of one-third to Frank Edward Fanning, Spreydon, Christchurch, New Zealand  
Application October 17, 1952, Serial No. 315,357  
Claims priority, application Australia October 22, 1951  
4 Claims. (Cl. 261—56)

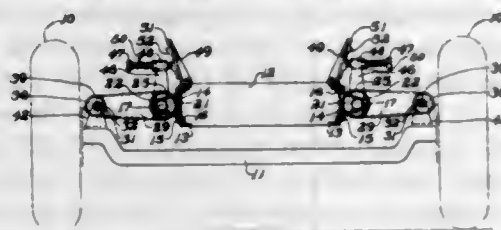


1. A carburetor for internal combustion engines comprising an aeration chamber, means for controlling the level of liquid fuel in the aeration chamber, an aeration unit comprising a central column fitted within the aeration chamber and supporting a first series of aeration tubes leading from the side of the aeration chamber and terminating in an arcuate portion provided with a series of small holes and adapted to lie on the floor of the aeration chamber, a second series of aeration tubes having a series of small holes in the lower end and suspended about and communicating with the interior of the central column which is connected to an air inlet in the side of the aeration chamber, an outlet for fuel-air mixture above the liquid fuel level and a number of nipples fitted in the side of the aeration chamber between the liquid fuel level and the outlet, each nipple having a calibrated air inlet hole.

2,715,022

**SPRING SUSPENSION**

Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York  
Application December 7, 1949, Serial No. 131,594  
6 Claims. (Cl. 267—57.1)



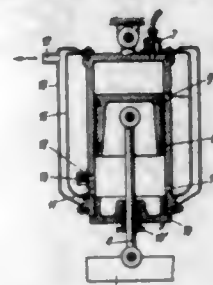
1. A resilient suspension for a vehicle comprising a frame structure, a rigid axle extending transversely of said frame structure, a wheel mounted at each end of the axle and spaced laterally from said frame, and a pair of arms each being rigid and inextensible and having a pivotal connection to the frame structure and having a pivotal connection with the axle adjacent a wheel, one of the arms of said pair projecting laterally from one side of the frame structure and the other arm projecting laterally from the opposite side of said frame structure, the arms limiting relative movement of the axle with respect to the frame to a determinate generally vertical path and the arms being movable arcuately about said pivotal connections in response to said movement of the axle, each of said pivotal connections being a rubber torsion spring including a body of rubber-like material, the arms and said axle having a statically loaded position

relative to the frame in which said arms are disposed generally horizontally and with said rubber bodies of the pivotal connections distorted in radial compression by forces acting in a direction to impart compressive stress in each arm, and said arms being movable arcuately by the movement of the axle in said determinate path to a second position at which said distortion of the rubber bodies is relieved and beyond which second position further movement of the arms and said axle is retarded by distortion in radial compression of said rubber bodies by forces acting in a direction to stress said arms in tension.

2,715,023

**PNEUMATIC SPRINGING SUSPENSION FOR MOTOR VEHICLES**

Friedrich K. H. Nallinger, Stuttgart, Germany  
Application October 26, 1949, Serial No. 123,606  
Claims priority, application Germany November 12, 1948  
7 Claims. (Cl. 267—65)

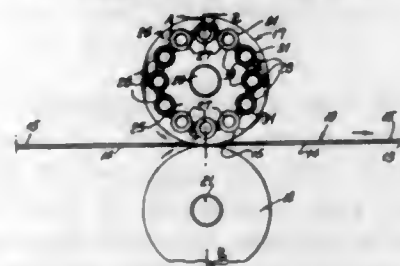


1. Device for a vehicle suspension operating through a pneumatic medium comprising a cylinder and a co-operating piston, one of said cylinder and piston being attached to an axle member of the vehicle, and the other to the suspended vehicle body, the cylinder being closed at both ends and the piston defining a working chamber at one end of the cylinder decreasing in volume upon upward movement of the axle member relative to the vehicle body, the working chamber being provided with means for admitting a pneumatic medium into the cylinder and means for discharging the pneumatic medium from the cylinder dependent upon the position of the piston relative to the cylinder, the piston also defining a damping chamber at the other end of the cylinder, the cylinder being surrounded by a jacket defining a collection chamber, the means for discharging comprising at least one opening connecting the collecting chamber with the working chamber, and at least one opening connecting the collecting chamber with the damping chamber, whereby the pneumatic medium flowing from the working chamber to the collecting chamber may flow therefrom into the damping chamber to exert therein a damping effect.

2,715,024

**STRIP FEEDING DEVICE**

Roland R. Nydegger, Metuchen, and Gaspar Paul Beck, Highland Park, N. J., assignors to Johnson & Johnson, a corporation of New Jersey  
Application March 7, 1951, Serial No. 214,418  
33 Claims. (Cl. 271—2.3)

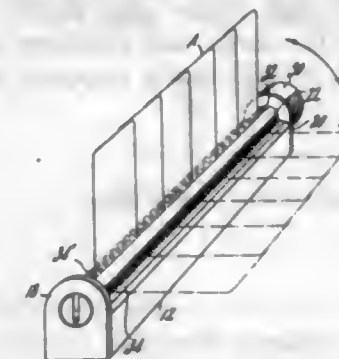


1. In a strip feeding device, a feed roll rotatable about an axis and having a rim member encircling said axis, and a series of elastic elements of varying strength spaced around said axis and resiliently supporting said rim member for limited radial movement with respect to said axis.

2,715,025

**ROTATABLE PLAYING CARD HOLDER**

Edward M. Drake, Niagara Falls, N. Y.  
Application April 29, 1952, Serial No. 284,917  
7 Claims. (Cl. 273—150)

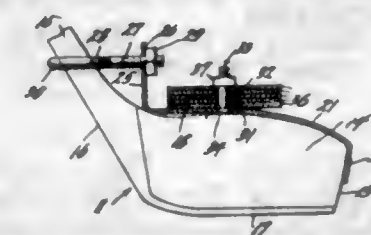


1. A playing card holder comprising a base adapted to rest horizontally on a support and formed with an upwardly opening longitudinally extending seat, a holder body mounted within said seat of said base and journaled within said base for rotational movement about a horizontal axis, said holder body being formed with an elongated slot constructed and dimensioned to support a group of playing cards in position to be viewed by a player, and manually operable means operatively connected to said holder body for effecting rotational movement of said body into a position wherein said group of playing cards are obscured from view.

2,715,026

**ATTACHMENT FOR GOLF CLUBS**

Coin Q. Cadman, Silver City, N. Mex.  
Application April 24, 1952, Serial No. 284,090  
8 Claims. (Cl. 273—171)

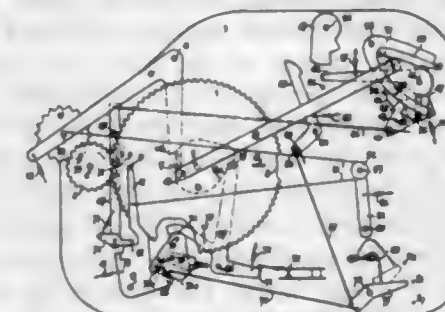


2. An attachment for golf clubs such as driving woods and the like for adding weight thereto comprising a relatively thin, flat body member of permanently deformable material shaped to overlie the top of a club head and having a laterally extending flange at one end thereof for engagement with the toe of a club head, and adjustable means secured to the opposite end of said body member and having a portion thereof shaped for releasable engagement with the shank of a club.

2,715,027

**TALKING MACHINES**

Eric Bacher, Yverdon, Switzerland, assignor to Paillard S. A., Sante-Croix, Switzerland, a company of Switzerland  
Application July 16, 1952, Serial No. 299,197  
Claims priority, application Switzerland August 20, 1951  
8 Claims. (Cl. 274—10)



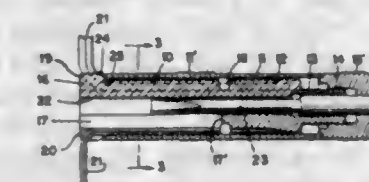
1. In a talking machine with automatic changing of discs, the combination, comprising, frame means, a

cyclic device rotatably mounted on the frame means and comprising a toothed wheel rotating a full turn at each change of a disc and having two opposite tooth-bare notches in its periphery for intermittent drive of the wheel, a pinion meshing with the wheel for driving same, a pair of stops fixed to the wheel at different distances from the axis thereof and aligned with the notches, a lever fulcrumed on the frame means for locking the wheel by engaging one of the stops, cam means movably mounted on the frame means for controlling the angular position of the locking lever and movable to one of three different positions, a manually operable member mounted on the frame means and movable to stop, starting and rejecting positions and connected to the cam means for movement thereof, a motor having a notch urged to closed position and driving the pinion, a control device on the frame means and controlling the cyclic device and controlled by the cam means and in the stop position of the manually operable member opening the motor switch, a pick-up arm pivoted to the frame means for vertical and horizontal motion, means actuated by the wheel and swinging the pick-up arm vertically up and then horizontally and vertically down to a position above the disc for playing same and after playing the disc swinging the pick-up arm vertically up and horizontally outwardly of the disc and vertically down, feeler means movably mounted on the frame means and controlling the horizontal swing of the pick-up arm, and a timing device controlled by the cyclic device and controlling the position of the locking lever in the path of the second stop for assuring a pause between the play of two discs.

2,715,028

**SOCKETED WRENCH HOLDER**

Thomas J. Dossie, New York, N. Y., assignor of one-half to Max J. Parnes, Brooklyn, N. Y.  
Application October 3, 1952, Serial No. 312,895  
6 Claims. (Cl. 279—9)



3. A tool of the character described, said tool comprising an elongated body having a plurality of longitudinal slots of different cross-sectional dimensions extending the major portion of the length of said body and adapted to receive a corresponding number of tools of different cross-sectional dimensions, said sockets, throughout their length, opening outwardly through the sides of said body in a direction radial with respect to the axis of said body, means at one end portion of the body for gripping the tools supported in said sockets, and means in threaded engagement with the other end portion of said body for actuating the first named means in controlling gripping of the tools in said body.

2,715,029

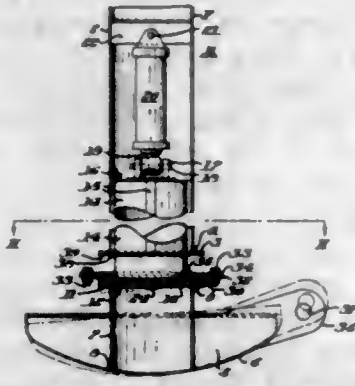
**TILTABLE MACHINE SUPPORTING STRUCTURE**

Charles E. Compton, Clarksburg, W. Va.  
Application October 30, 1952, Serial No. 317,648  
11 Claims. (Cl. 280—12)

1. A supporting structure for a machine comprising a generally horizontally oriented downwardly facing bearing element carried by a machine, a support adapted to rest upon the ground, a generally horizontally oriented upwardly facing generally planar bearing plate carried by the support in opposed relationship to the bearing element so that the bearing element is adapted to bear downwardly against the plate, the bearing element and plate being disconnected from each other so as to be relatively tiltable



to permit the support to change its angularity to the machine due to uneven ground while the bearing element

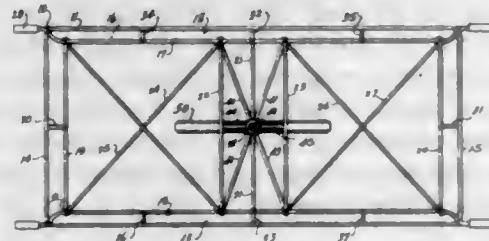


bears downwardly against the plate, and means limiting the extent of relative tilting of the bearing element and plate.

2,715,030

**MOBILE CARRIER**

Lowell Q. Peterson, Nampa, Idaho  
Application April 3, 1953, Serial No. 346,563  
2 Claims. (Cl. 280—30)



1. A portable device comprising an outer frame including a pair of side rails arranged in parallel spaced relation and an end rail extending between said side rails at each of the complementary ends thereof and joined to said ends, an inner frame arranged within and spaced from the outer frame, said inner frame including a pair of side rails arranged in parallel spaced relation with respect to the side rails of said outer frame and an end rail extending between the side rails of said inner frame adjacent the complementary ends thereof and joined to said side rails, the ends of the side rails of said inner frame projecting to and beyond the respective joiner points of said end rails and said side rails of the outer frame, and a handle on each of the projecting ends of said side rails of the inner frame, struts extending transversely between and joined to adjacent side rails of the inner and outer frames and between and joined to the adjacent end rails of the inner and outer frames, a pair of cross rails arranged in spaced relation positioned between and joined to the side rails of said inner frame and spaced from the end rails of said inner frame, and an upstanding bearing sleeve positioned substantially centrally of the space defined by and dependently carried by said cross rails and the adjacent portions of the side rails of said inner frame for connection of a rotatable wheel thereto.

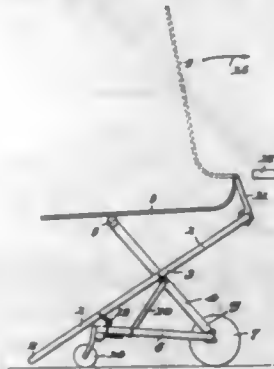
2,715,031

**MAGAZINE BARROW**

Ellis Evert Danielsson, Mariehamn, Finland  
Application October 14, 1952, Serial No. 314,713  
Claims priority, application Finland October 26, 1951  
1 Claim. (Cl. 280—36)

Magazine barrow comprising two longitudinal shafts with handles, a frame, said shafts being pivotally connected substantially at their centers at substantially the middle part of said frame, a chassis having two wheels, said frame being connected pivotally at one end to said chassis, supporting elements between said frame and chassis whereby said shafts and said frame are arranged so that if said shafts are lifted by their handle ends said shafts and said frame will be turned together upwardly

around the pivot point of said frame in said chassis and lie substantially in line with one another but when the shafts' handle ends are pressed downwardly from the last mentioned position, while said frame is prevented from following said downward turning movement by said supporting elements said frame and shafts will spread apart, a platform for the cargo, said platform being hinged pivotally at the end of said shafts opposite said handles

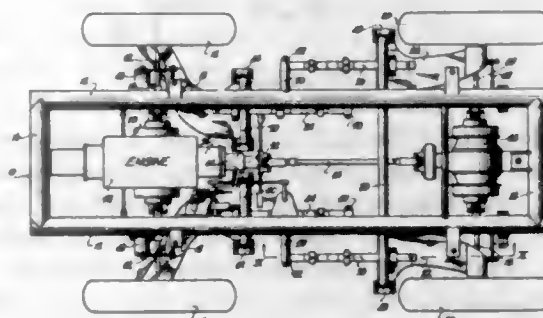


and resting on said frame at that end which is opposite to its pivotal connection point in said chassis, said cargo platform being adapted to take a position parallel to and substantially level with said shafts and said frame when they are pivoted together but being raised to a level higher than and substantially parallel to the plane of said chassis when said shafts and frame are spread apart from each other.

2,715,032

**COMBINATION WHEEL MOUNTING AND SPRING UNIT FOR VEHICLES**

Benjamin F. Gregory, Kansas City, Mo., assignor, by mesne assignments, to Marco Mfg. Company, Wheatland, Pa., a corporation  
Application January 2, 1952, Serial No. 264,571  
1 Claim. (Cl. 280—106.5)

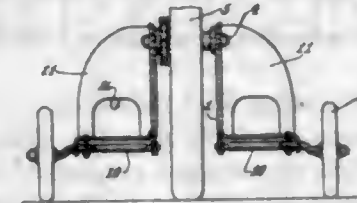


In an automotive vehicle having a frame provided with a pair of longitudinal beams, a wheel mounting assembly including a rear cross member rigid to the beams and extending therebeyond; a front cross member rigid to each beam respectively and parallel with the rear member; an elongated wheel-receiving arm adjacent each end respectively of the rear member and extending rearwardly therefrom; a front wheel-receiving arm beneath each front member respectively and extending forwardly therefrom beneath the beams, the arms being provided with means pivotally mounting the same for swinging movement on the members about horizontal axes; a semi-elliptical, upwardly bowed leaf spring unit rigid to each arm respectively, the springs of the rear arms extending forwardly and the leaf springs of the front arm extending rearwardly in parallelism and overlapping relationship to the springs of the rear arms, the beams each being provided with an outwardly projecting extension having link means swingably mounted thereto below the extensions and pivotally receiving the forwardmost ends of the springs of the rear arms, the springs of the front arms each substantially underlying one of the beams and being provided with link means pivotally and swingably suspending the rearmost ends thereof from the beams.

2,715,033

**BICYCLE STABILIZER**

Charles J. Fogarty and Harold F. Maschin, Westfield, Mass., assignors to The Westfield Manufacturing Company, Westfield, Mass., a corporation of Massachusetts  
Application September 20, 1952, Serial No. 310,702  
1 Claim. (Cl. 280—304)

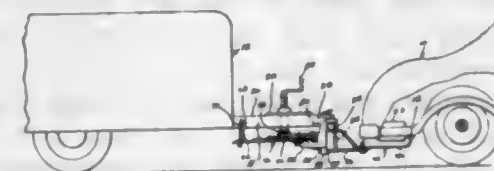


Bicycle stabilizer wheel structure comprising a frame having a vertically disposed support plate member with a pair of vertically spaced openings defining fixed positions in the rear edge portion for selective attachment to the rear axle of a bicycle having a predetermined rear wheel diameter and a fixed positional opening adjacent the forward edge receiving a bolt and clamp for swinging the clamp into clamped engagement with a rear frame bar of the bicycle frame forwardly of said rear axle, hanger means including a vertically disposed brace plate portion arranged perpendicularly to said support plate and integrally joined thereto at the inner edges of the brace plate portion forwardly adjacent said rear openings of the plate member, a horizontally disposed step plate portion bent at right angles from said vertical portion and having a forward extension cut from the lower central section of said vertical portion, said step plate having inner and outer flanged ears depending therefrom with horizontal axially aligned openings therein, the inner ear being integrally joined to the wall of said support plate at the lower edge of the latter with said wall having a square sided opening registering with the opening of said inner ear, an axle shaft with a squared inner end received by said aligned openings and having an offset outer end parallel to said shaft outwardly of the outer opening and a wheel journaled thereon, said shaft being outwardly slidable to disengage said inner squared end and rotatively adjustable for support in said aligned openings at a selected elevation of said offset end relative to the support, spaced openings in said step plate above said shaft and correspondingly spaced openings at right angles to each other through said shaft, one of said openings in the plate being in registration and alignment with one of said shafts opening at selected quarterly intervals in the rotation of said shaft, and a bolt and nut assembly releasably mounted in registered openings of the step plate and shaft at one of said selected quarterly positions.

2,715,034

**LOAD-EQUALIZING HITCH FOR TRAILERS**

Clair M. Cornwall, Lakeland, Fla.  
Application April 16, 1954, Serial No. 423,810  
5 Claims. (Cl. 280—406)



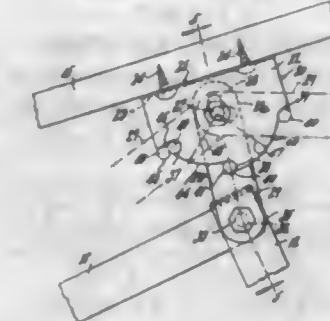
1. A load-equalizing device for trailers comprising, in combination with a draw bar assembly of a towing vehicle having a ball element, and with the tongue of a towed vehicle having a ball socket member receiving the ball element: a lever pivoted on the draw bar assembly to swing within a vertical plane and having one end disposed to exert pressure against said draw bar assembly at a location spaced forwardly of the assembly from the ball element; spring means anchored at one end to the lever and projecting rearwardly therefrom below the

tongue; and a screw threaded in said tongue and bearing against the spring means, for transmitting pressure against the lever through the spring means tending to swing the lever into pressure exerting engagement at said end thereof with the draw bar assembly.

2,715,035

**ARM REST ADJUSTER FOR CHAIRS**

Morton D. Rechler, New York, N. Y., assignor to Rexart Metal Industries, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1953, Serial No. 336,081  
2 Claims. (Cl. 287—14)

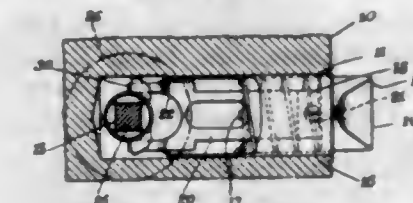


1. A rotatable joint for adjusting a movable element forwardly or rearwardly with respect to a stationary element, comprising a U-shaped bracket having oppositely disposed side plates provided with a base attached to said movable element, a cross bolt between the side plates, a pair of links having upper ends provided with slots through which the cross bolt passes, said links having lower ends pivoted to said stationary element, said plates having lower edges provided with front abutments, intermediate abutments, and rear notches, there being a pair of arcuate cam edges formed on the lower edges of the plates between the front and intermediate abutments, and a second pair of cam edges formed on said lower edges between the intermediate abutments and the rear notches, said first named cam edges being radially equidistant from the cross bolt throughout the length of said cam edges, said second pair of cam edges being spiral edges which constantly recede from the cross bolt toward the rear notches, a pin bridging said links and having pin ends adapted to follow the cam edges and selectively engage the abutments and notches therein, said abutments being adapted to engage the pin ends and prevent rearward shifting of the bracket, said pin ends allowing said abutments to move freely away therefrom upon forward shifting of the bracket, said side plates having stop edges merging with said rear notches and against which said pin ends engage to limit the forward shift of the bracket, said pin ends being adapted to slide along said stop edges and into engagement with said rear notches, said slots being lengthwise of said links and permitting the bracket to be moved relative to said pin ends.

2,715,036

**TUBULAR LATCH**

Julius Miller, Valley Stream, N. Y.  
Application August 9, 1952, Serial No. 303,463  
6 Claims. (Cl. 292—169)



1. A tubular latch comprising, a shell, a bolt slidably carried within the shell, a yoke secured to the rear of the bolt, said yoke being provided with spaced loops at the free end thereof, a coil spring disposed about the yoke, one end of said spring being supported within the



shell and the opposite end of the spring bearing against the bolt so as to urge the end of said bolt out of the shell, a pair of hubs carried between the loops of the yoke, a roll-back arm on each hub, each of said arms being formed to provide unequal projections on opposite sides of the hub, the projections of opposed hubs being placed together and received within the spaced loops of the yoke in such manner that each loop embraces one large and one small arm projection, a door knob spindle, a spindle receiving opening in each hub and a knob for rotating the said spindle and retracting the bolt.

**2,715,037**  
**RESILIENT BUMPER**  
John Rudolf Maag, San Francisco, Calif.  
Application May 19, 1952, Serial No. 288,704  
1 Claim. (Cl. 293—85)



In a resilient bumper of the character described: a channel-shaped inner member, defining a web having upper and lower flanges projecting therefrom; arms securing this member in fixed relation to a chassis frame; a movable outer member positioned in spaced-apart relation with the inner member; an impact bar abutting the outer members; a pair of supporting rods projecting through registering openings in the outer member and the impact bar, and having means thereon removably anchoring the impact bar to the outer member; a pair of horizontal guide sleeves disposed on the opposite side of the inner member from that of the outer member; vertically-disposed trunnion pins securing each of these sleeves to the flanges of the inner member for swinging of the sleeves in horizontal directions, independently of one another; the supporting rods projecting through openings provided in the web of this inner member, and being slidably disposed in the guide sleeves; compression springs encircling the supporting rods and being interposed between the inner and outer members, and arranged to yieldingly urge them apart; a pair of stirrups fixed to the inner member, each straddling one of the guide sleeves; the stirrups having transversely-extending end walls provided with slots therein through which the supporting rods extend; the sleeves extending substantially from the web of the inner member to the transverse end walls of the stirrups to give firm support to the rods; the openings in the web of the inner member and the stirrup slots all being elongated horizontally so that the supporting rods may shift laterally therein; the upper and lower walls of the web openings and the stirrup slots contacting with the rods from above and below, respectively, to preclude vertical movement of these rods; and means on the rods buttable against the transverse walls of the stirrups to limit separation of the outer member relative to the inner member.

**2,715,038**  
**VACUUM HANDLING APPARATUS**  
Karl P. Billner, Philadelphia, Jacob J. Creskoff, Wynnewood, and Harold A. Maxwell, Drexel Hill, Pa., assignors to Vacuum Concrete, Inc., a corporation of Pennsylvania  
Application May 28, 1954, Serial No. 433,193  
10 Claims. (Cl. 294—65)

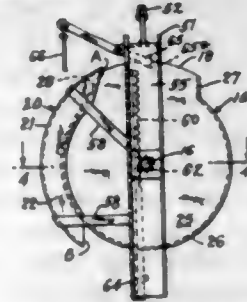
4. Handling apparatus comprising a supporting frame, a plurality of independent mats, flexible elements suspending said mats from said frame, each of said mats including an individual body member having a deformable work engaging and sealing gasket secured thereto defining a chamber having an open end, connecting

members more flexible in bending and torsion than said body members interconnecting adjacent mats, said connecting members being of such a character as to permit disposition of adjacent mats in a plurality of planes, conduit means communicating with the chamber of each of



said mats for exhausting fluid therefrom, a valve for controlling communication between each chamber and said conduit means, and an actuator connected with the valve of each said chamber projecting beyond the gasket thereof for actuation of its valve upon contact with a work surface.

**2,715,039**  
**CONCRETE BUCKET WITH RACK-AND-PINION DRUM ROTATING MEANS FOR DUMPING**  
Bert Noble, Winters, Calif.  
Application June 5, 1950, Serial No. 166,256  
5 Claims. (Cl. 294—73)

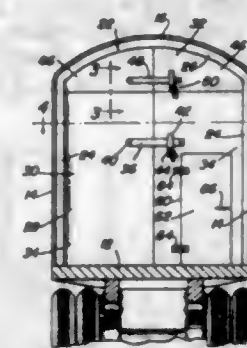


5. A container for receiving and dumping mixed materials through the same opening comprising a container body having an open mouth in its side wall offset radially a substantial distance from said wall, a frame composed of a yoke having arms in which said container body is rotatably supported, so it can swing about a generally horizontal axis substantially parallel with the plane of said mouth; an arcuate shaped stationary closure member secured on one side of said frame concentric with the path taken by said mouth when said container is rotated, said member being spaced radially only slightly from said mouth and extending arcuately only over a portion of the side of said container, whereby it covers said mouth only during that part of the rotation of said container that the mouth is away from a position facing upwardly and until it is in a position facing downwardly; and a pair of toothed gear means adapted for rotating said body about 180° for dumping from said mouth and for moving back over the same path for preparing said body to receive more material, one of said gear means comprising rack means movably mounted in relation to said arms, the other said gear means comprising drive means between said rack and said container body, whereby movement of said rack effects rotation of said container body; and brake means for holding said rack and body in fixed position with the container mouth facing upwardly, said rack means extending below the yoke arms whereby said container body may be rotated to bring its mouth from its bottom to its top position by engaging said rack means on a solid base and lowering the yoke so that the rack means will move upwardly in relation to said yoke until said brake means comes into action.

**2,715,040**  
**MOVABLE PARTITION FOR COVERED VEHICLE BODY**  
Ralph W. Rhoads, Sr., Springfield, Mo.  
Application July 24, 1952, Serial No. 300,573  
4 Claims. (Cl. 296—24)

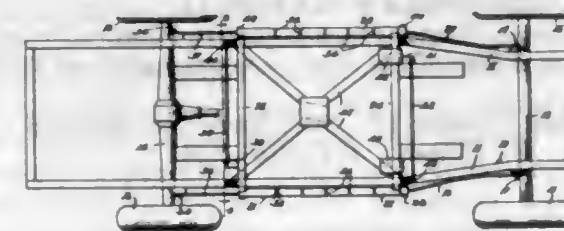
1. A container construction comprising an elongated body, said body having side and top walls, an inverted

generally U-shaped frame member extending transversely of said body and reinforcing said side and top walls, and a partition wall having sections mounted for swinging and sliding movement relative to said frame member, said partition wall conforming to the general outline of said frame member and being removably interlocked with



said frame member to divide said body into individual compartments, said frame member being channel-shaped in cross section and including spaced inwardly directed flanges, said partition wall being disposed within the confines of said frame member having edge portions positioned between said flanges.

**2,715,041**  
**SHOCK ABSORBING AND SUSPENSION MEANS FOR VEHICLE BODIES**  
Emmett A. Fierbaugh, Ashland, and Marland W. Garber, Orrville, Ohio  
Application September 14, 1953, Serial No. 379,846  
4 Claims. (Cl. 296—35)

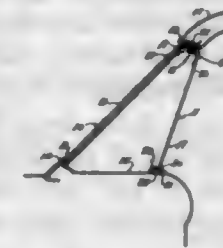


1. A device of the character described comprising, in combination with a vehicle chassis, said chassis including a pair of side bars, the provision of a body-supporting frame, a pair of rearwardly extending support bars each pivotally connected at its forward end to the forward portion of one of said side bars and pivotally connected at its rearward end to the rearward end portion of one of said side bars, and a pair of forwardly extending support bars each pivotally and yieldably connected at its rearward end to the rearward portion of one of said side bars and pivotally connected at its forward end to the forward end portion of one of said side bars, said frame including a longitudinally extending inverted U-shaped channel member outwardly of each of said side bars, a centrally disposed longitudinally extending partition dependent from each end portion of the bight portion of each channel member dividing each of said channel members into an inner end and an outer channel, blocks arranged in the ends of said channels, and said support bars extending into said channels with each pair thereof being pivotally connected at one end to said blocks.

**2,715,042**  
**SAFETY GUARD FOR WINDSHIELDS**  
Lionel W. Lancaster, Red Bank, N. J.  
Application July 25, 1952, Serial No. 300,957  
2 Claims. (Cl. 296—84)

2. A safety windshield for automotive vehicles having a roof, a cowl, and a glass windshield, the safety windshield comprising a flexible transparent plastic sheet, and means for securing said sheet in spaced relationship with the inner surface of the glass windshield, said means comprising a bendable strip disposed on the roof adja-

cent the inner surface of the glass windshield, and means for rigidly securing said sheet to said strip; said first mentioned means further comprising a resilient strip disposed on the cowl in spaced relationship with the inner surface of the glass windshield, a second bendable strip



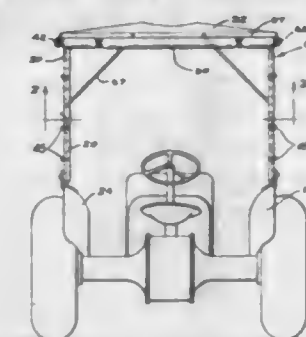
disposed on the cowl in juxtaposition with the inner edge of said resilient strip, and means for rigidly securing said plastic sheet intermediate said resilient and second mentioned strips, said strips substantially contacting said sheet for the length thereof.

**2,715,043**  
**VEHICLE SUN VISOR**  
Abe M. Schewel, Lynchburg, Va.  
Application April 7, 1952, Serial No. 280,917  
2 Claims. (Cl. 296—97)



1. A vehicle sun visor comprising a colored plastic panel consisting of a plastic film so thin and flexible as to be substantially non-self-sustaining as a plane sheet having only sufficient color to interrupt glaring light rays without substantially obstructing normal diffuse light visibility therethrough, said panel being stiffened and supported by an evenly thick transparent plastic framing rib having sufficient rigidity and thickness as compared to the flexible transparent panel to firmly sustain the same in a flat plane fixedly mounted around the edges of said panel and having a wide stiff marginal portion integral with one edge, said wide marginal portion being of the same thickness as said framing rib and adapted to support and handle said rib stiffened flexible panel, said marginal portion carrying a rubber suction cap adapted to support and fasten said sun visor to a glass surface.

**2,715,044**  
**PORTABLE ALL-WEATHER CAB**  
Joseph J. Neidetcher, Arlington, Ill.  
Application December 19, 1952, Serial No. 326,835  
2 Claims. (Cl. 296—102)

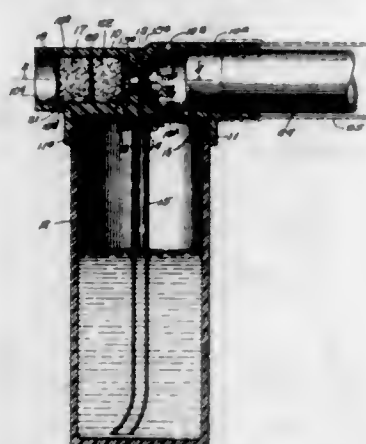


1. A foldable cab device for use on a tractor comprising a pair of rigid U-shaped frame elements arranged so that the legs face each other in end to end relation with portions of the legs of one of said frame elements overlapping portions of the legs of the other of said frame elements, means extending through the overlapped portions of said legs and pivotally connecting said portions together, detachable fastening means spaced from said pivot connection means and extending through the over-



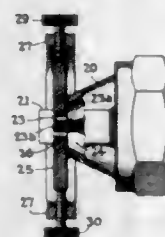
lapped portions of the legs for retaining the legs of the frame elements in end to end relation, said supporting leg positioned along the bight of each of said frame elements inwardly of and spaced from each end thereof and having the upper end connected to said bight for pivotal movement, means carried by the lower end of each leg for connection of the latter to a fender of a tractor, and a pair of strut bars each having one end detachably connected to each leg intermediate the ends thereof, the other end of one of said strut bars being detachably connected to the adjacent leg of the U-shaped frame and the other end of the other of said strut bars being detachably connected to the adjacent bight of the U-shaped frame.

**2,715,045**  
**FOAM PRODUCING DEVICE**  
Kenneth C. Thompson, Lyons, Ill.  
Application October 10, 1951, Serial No. 250,691  
7 Claims. (Cl. 299—86)



1. A foam producing device adapted to be operated with air pressure, comprising: a tubular member having a transverse wall with one surface concavely curved; diffuser apparatus within the tubular member including a foraminous member spaced from the center of said curved surface to form an unobstructed chamber; and an air and liquid inlet orifice in the transverse wall and spaced from said foraminous member, the combination of said curved surface and said chamber serving to promote even distribution of the air and liquid across the transverse area of said diffuser apparatus.

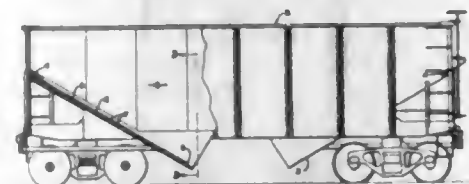
**2,715,046**  
**ADJUSTABLE AIR NOZZLE SPRAY GUN**  
Robert L. Ackerman, New Alexandria, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania  
Application October 12, 1951, Serial No. 250,971  
5 Claims. (Cl. 299—128)



1. A spray concentration control construction for an air and coating material spray nozzle having an air discharge port, said control construction comprising, a plate having a single aperture therethrough, said plate being adapted to engage the discharge end of said spray nozzle and overlap said air discharge port, and adjustable means carried by said spray nozzle and engageable with said plate for sliding said plate laterally across said nozzle end to positions in which the axis of said single aperture is displaced from the axis of said air discharge

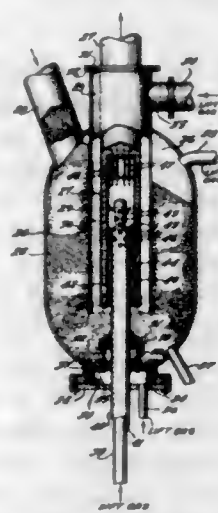
port to modify the air discharge for controlling the concentration pattern of material sprayed from said spray nozzle.

**2,715,047**  
**DISCHARGING MEANS FOR SOLID GRANULAR MATERIALS**  
Ulysses B. Yeager, Huntington, W. Va.  
Application December 6, 1951, Serial No. 260,246  
2 Claims. (Cl. 302—29)



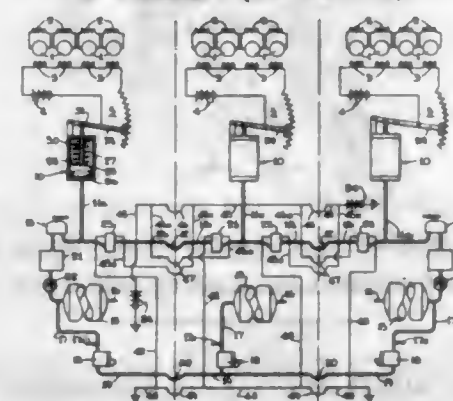
1. In combination with the inclined wall of a discharge hopper, a fluid distributing device comprising a common head conduit disposed along the top of the inclined wall of the hopper, a readily detachable closure plug fitted to each of the opposite ends of the common head conduit for permitting any fluid supply connection to be selectively fitted to either end thereof, and a plurality of branch lateral conduits disposed in spaced apart relation at intervals along the length of the common head conduit and leading therefrom to near the bottom of the inclined wall of said hopper, said branch conduits being provided with lateral openings lengthwise thereof.

**2,715,048**  
**METHOD AND APPARATUS FOR ELEVATING GRANULAR MATERIAL**  
Reyner Kollgaard, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware  
Application October 17, 1950, Serial No. 190,555  
11 Claims. (Cl. 302—53)



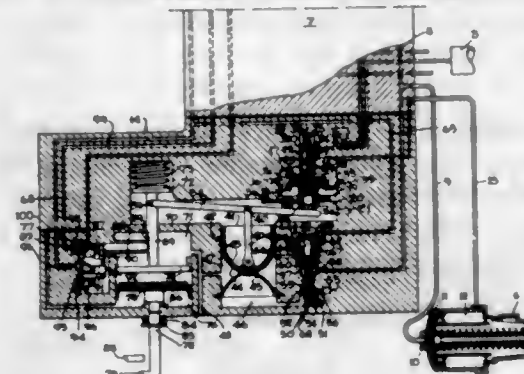
6. Apparatus for elevating granular material through an upwardly extending lift pipe comprising a chamber surrounding the lower end portion of said lift pipe to provide a confined path for passing said granular material as a compact moving bed downwardly about and below said lift pipe, means remote from the inlet end of said lift pipe for introducing lift gas into said moving bed, means for introducing lift gas into said moving bed in a confined stream discharging downwardly adjacent and about the lower perimeter of said lift pipe, a hollow tubular member concentrically arranged within the lower end portion of said lift pipe and spaced therefrom to form an annular inlet path, said member being internally partitioned into upper and lower hollow sections, and means for introducing lift gas into said hollow sections, the lift gas in said upper hollow section discharging from the upper end thereof axially upward along said lift path, and the lift gas in said lower hollow section discharging from the lower end thereof downwardly into said bed.

**2,715,049**  
**SAFETY CONTROL APPARATUS FOR MULTIPLE UNIT LOCOMOTIVES**  
Claude M. Hines, Verona, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania  
Application July 27, 1951, Serial No. 238,965  
4 Claims. (Cl. 303—1)



1. Safety control apparatus for a multiple unit locomotive, comprising a fluid pressure brake control pipe having sections extending from end to end through the locomotive units, respectively, hose pipe coupling means extending between each adjacent pair of said units and connecting together the sections of said brake control pipe on the respective units, a source of electrical energy, a magnet valve device on a certain locomotive unit having a valve portion controlling communication between the respective brake control pipe section and the respective hose pipe coupling means, said magnet valve device also having a solenoid portion energizable and deenergizable to operate said valve portion to establish and disestablish, respectively, said communication, and a loop circuit means including, in series with said source of electrical energy and with said solenoid portion of said magnet valve device, a pair of wire couplings extending between said certain locomotive unit and the adjacent locomotive unit and connected together electrically on said adjacent locomotive unit.

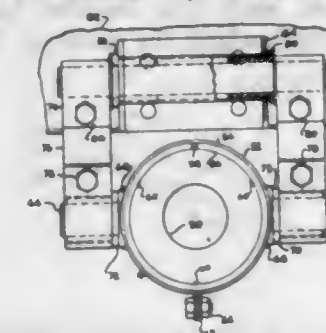
**2,715,050**  
**LOAD COMPENSATING FLUID PRESSURE BRAKE EQUIPMENT**  
Everett P. Sexton, East McKeesport, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania  
Application August 9, 1951, Serial No. 241,139  
11 Claims. (Cl. 303—22)



1. In a fluid pressure brake apparatus, in combination, valve means operative by an actuating force opposing pressure of fluid to vary the pressure of said fluid in accordance with the degree of said actuating force, and means for providing said actuating force comprising a cup-like flexible diaphragm subject on its inner side to fluid under pressure, means connecting said diaphragm to said valve means comprising a follower disposed in coaxial relation with and engaging the opposite side of said diaphragm and adjustable axially relative to said diaphragm to vary the area of contact between said follower and diaphragm for correspondingly limiting the

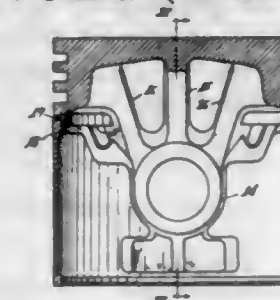
degree of said actuating force, and means for adjusting said follower relative to said valve means toward and away from said diaphragm.

**2,715,051**  
**SHAFT HANGER**  
Frederick M. Guy, Detroit, Mich., assignor to U. S. Universal Joints Company, Detroit, Mich., a corporation of Michigan  
Application May 27, 1950, Serial No. 164,713  
2 Claims. (Cl. 308—28)



1. A resilient shaft hanger comprising two depending arms secured to a supporting member, annular clamp means removably attached to the depending end of each arm, a housing, a shaft journaling bearing carried in said housing, a pair of outwardly extending studs secured to said housing, each of said studs being journaled in a rubber bushing clamped under pressure in each of said clamp means, said housing being formed from an inner annular member having means on its inner circumference for locating said bearing and an outer annular member adapted to be clamped around said inner annular member.

**2,715,052**  
**COLLAPSE RESISTANT PISTON**  
Frank Jardine, Shaker Heights, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania  
Application December 23, 1953, Serial No. 400,010  
6 Claims. (Cl. 309—12)



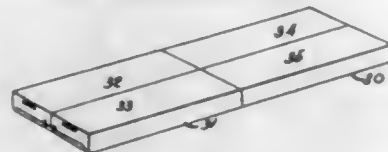
1. In a piston made of a metal having a higher coefficient of expansion than the metal of the cylinder in which it is to be used and comprising a head, a skirt, wrist pin bosses integral with the skirt and supporting structure integral with the head and wrist pin bosses, a metal ring free of any bonding to the metal of the piston and having a horizontal flange interposed the head and skirt and a vertical flange bearing on the upper, inner face of the skirt between the wrist pin bosses and embedded in the boss supporting structure, the metal of said ring having a coefficient of expansion not greater than that of the metal of the cylinder.

**2,715,053**  
**SECTIONAL FOLDING TABLE CONSTRUCTION**  
Julius Henry Wiegand, St. Albans, N. Y.  
Application March 8, 1952, Serial No. 275,594  
1 Claim. (Cl. 311—90)

A container-table comprising two rectangular deck members, the deck members having substantially the same



dimensions, means for hingedly securing the deck members along corresponding ends with the deck members in the same plane in the open position and with one of the deck members superposed on the bottom surface of the second deck member in the closed position, the outer peripheral edges of each deck member having an upwardly directed rim of substantially uniform height formed therearound, a leg member for each side of each deck member, each leg member having spaced parallel side and end members, one side member having a height greater than that of the second side member and greater than that of the rim, each end member having a length substantially equal to one-half the width of the deck mem-



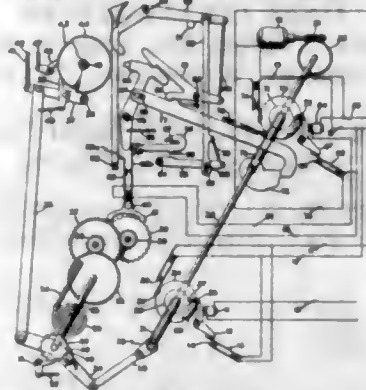
ber, one end member having a height substantially equal to the height of the side member of greatest height less the height of the rim, the second end member having a height substantially equal to the height of the side member of greatest height, means for securing the end and side members of the leg member along corresponding ends with the corresponding edges on one side of the members in the same plane, a cover member disposed over the edges of the members in the same plane, means for hingedly securing the free edge of each side member of greatest height to opposite sides of each deck member with the end member having a height substantially equal to the side member of greatest height less the height of the rim superposed on the rim at the free end of the deck member.

#### 2,715,054 AUTOMATIC TIME RECORDER

Clinton E. Larrabee, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York  
Application November 16, 1951, Serial No. 256,660  
4 Claims. (Cl. 346—82)

1. In a machine for printing on an inserted record, a printing mechanism, normally idle drive means for said printing mechanism, a record receiver, a contact device positioned adjacent said record receiver, means for repeatedly rocking said contact device transversely

into and out of said record receiver to cause said device to contact the side of a record inserted therein, and



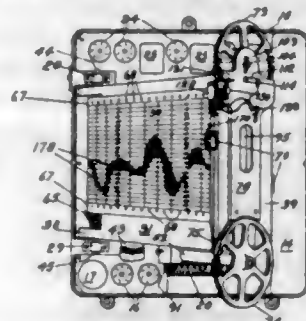
means controlled by said contact device upon contacting a record in said receiver for starting said drive means.

#### 2,715,055 DEPTH SOUNDER RECORDER MARKING MEANS

Robert A. Fryklund, Somerville, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application October 6, 1949, Serial No. 119,905  
2 Claims. (Cl. 346—139)

1. Recorder apparatus comprising a pair of pulley wheels, an endless belt engaged with said wheels, a stylus carrier attached to said belt, a platform disposed between said wheels in a plane parallel to a common tangent of said wheels, said platform being disposed so that said carrier slides thereon in its travel between said wheels, a flexible stylus carried by said carrier, a straight edge on said platform parallel to the path of travel of said carrier

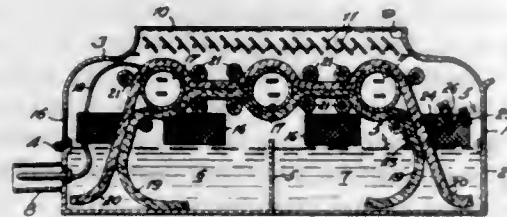


disposed in the path of said stylus, said straight edge being laterally displaced in a direction parallel to said plane relative to said path a distance sufficient to deflect said stylus to one side of the path it normally tends to follow whereby said stylus follows said straight edge when said carrier travels along said platform.

## CHEMICAL

#### 2,715,056 METHOD OF AND APPARATUS FOR VAPOR STERILIZATION OF AIR

Broadus Wilson, Raleigh, N. C.  
Application December 23, 1948, Serial No. 67,024  
15 Claims. (Cl. 21—53)



11. An air sterilizer and conditioner comprising a casing, a water container in said casing, a glycol container in said casing, and separate from said water container, a plurality of heater units carried by said casing externally of said tanks, a first wick having at least one end dipping into said water container and a generally horizontal portion extending over and about said heater units in con-

tact therewith, a second wick having one end at least dipping into said glycol container, and means supporting a generally horizontal portion of said second wick in superposed contiguous relation over said heater units and the horizontal portion of first wick.

#### 2,715,057 CATALYZED REACTION BETWEEN METALLIC HYDRIDES AND BORIC OXIDE

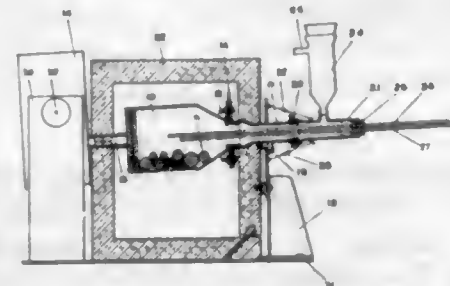
Everett H. Pryde, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application May 2, 1952, Serial No. 285,772  
14 Claims. (Cl. 23—14)

1. The process of producing the borohydride of a metal of the group consisting of the alkali and alkaline earth metals which comprises reacting the hydride of said metal with boric anhydride at around 200–350° C. in the presence of a catalytic amount of an alkoxide of said metal, said alkoxide having the general formula  $M(OR)_x$  where

M represents the metal, R is an organic radical chosen from the group consisting of alkyl radicals possessing a

at a temperature of at least 300° C., the ratio of reactants being such that the water is present in amounts of at least 1 molecule per 2 hydrolyzable silane units.



chain length of between one and six carbon atoms and the phenyl radical, and x is the valence of the metal M.

#### 2,715,058 PREPARATION OF LOWER CHLORIDES OF MOLYBDENUM AND TUNGSTEN

Seymour Senderoff, Chevy Chase, Md., and Roger J. Labrie, North Attleboro, Mass., assignors to the United States of America as represented by the Secretary of Commerce

No Drawing. Application January 22, 1954,  
Serial No. 405,666  
8 Claims. (Cl. 23—87)

1. The method of reducing the higher chlorides of molybdenum and tungsten comprising mixing a metal chloride selected from the group consisting of molybdenum pentachloride and tungsten hexachloride with a saturated aliphatic hydrocarbon having at least ten carbon atoms per molecule, heating the mixture in an inert atmosphere to a temperature in the range between the melting point and boiling point of said saturated aliphatic hydrocarbon, said heating continuing until the ebullition of hydrogen chloride has substantially ceased, and washing the reaction products with a hydrocarbon solvent to leave a fine black powder.

#### 2,715,059 PHOSPHATIZING COMPOSITION

Daniel E. Miller, East Los Angeles, Calif., assignor to Kelite Products, Inc., Los Angeles, Calif., a corporation of California

No Drawing. Application August 6, 1951,  
Serial No. 240,600  
1 Claim. (Cl. 23—106)

A process of producing a dry orthophosphate compound as discrete particles, which process comprises agitating granular anhydrous sodium acid pyrophosphate together with substantially 85% phosphoric acid in proportions of 1 part of the anhydrous sodium acid pyrophosphate to between 1 and 2 parts by weight of the 85% phosphoric acid, the agitation being conducted at a temperature of about 140° F.

#### 2,715,060 PROCESS OF MAKING SILICA

Arthur J. Barry, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application October 31, 1951,  
Serial No. 254,201  
1 Claim. (Cl. 23—182)

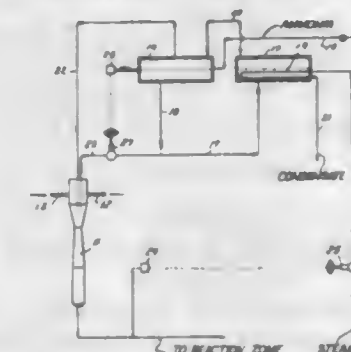
A method of preparing a hydrophobic silica which comprises reacting a mixture of silicon tetrachloride and a silane selected from the group consisting of trichlorosilane and organosilanes of the formula  $R_nSiX_{4-n}$  in which R is selected from the group consisting of alkyl radicals of less than 7 carbon atoms and monocyclic aryl radicals, X is selected from the group consisting of chlorine and alkoxy radicals of less than 7 carbon atoms and n has a value of from 1 to 3, in said mixture there being at least 25 mol per cent silicon tetrachloride, with water

697 O. G.—16

#### 2,715,061 HYDRAZINE REACTOR SYSTEM

Bernard H. Nicolaisen and James N. Felger, Kenmore, N. Y., assignors to Olin Mathieson Chemical Corporation, a corporation of Virginia

Application August 18, 1953, Serial No. 374,896  
1 Claim. (Cl. 23—260)

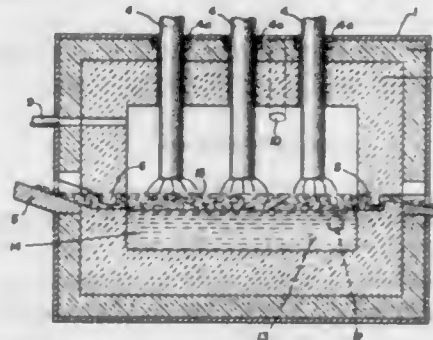


An apparatus suitable for use in the preparation of hydrazine by reacting an aqueous solution of chloroamine, liquid ammonia and gaseous ammonia including an ammonia vaporizing tank provided with a source of heat and an ammonia charge tank provided with a line for the supply of liquid ammonia, both tanks being at substantially the same elevation, both tanks being connected by a line entering the lower zone of each tank whereby a liquid level of ammonia in one tank will provide a liquid level of ammonia in the other tank and both tanks being connected by a line entering the upper zone of each tank whereby ammonia vapor above the liquid level of ammonia in one tank can flow to the other tank; a line connecting the upper zone of the ammonia supply tank and a line connecting the lower zone of the ammonia supply tank with a mixing device whereby gaseous ammonia and liquid ammonia can be supplied thereto, said mixing device also being provided with a line for the introduction thereto of an aqueous solution of chloroamine and with an outlet for the mixture produced therein; liquid level control means associated with the ammonia charge tank actuating a valve in the line between the ammonia supply tank and the mixer; and control means responsive to the temperature of the mixture produced associated with the heat source.

#### 2,715,062 METHOD OF TREATING ZINC SLAGS

William Henry Osborn, New York, N. Y., assignor to Phelps Dodge Corporation, New York, N. Y., a corporation of New York

Application February 28, 1952, Serial No. 273,970  
5 Claims. (Cl. 75—14)



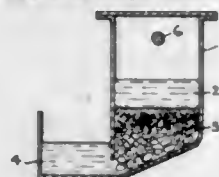
1. The method of removing zinc from silicate slag containing said zinc as oxide for recovery of said zinc as condensed zinc metal which comprises introducing said slag into an electric furnace; passing said slag in the form of a molten layer over and in contact with a molten iron



bath in said furnace and containing dissolved carbon thereby effecting an endothermic reduction reaction in said slag between said zinc oxide and said dissolved carbon which forms zinc metal vapor and other gaseous products, and which also removes dissolved carbon from said bath; supplying sufficient heat input into said furnace to maintain said bath molten and at a substantially constant temperature while said endothermic reduction reaction proceeds and supplying sufficient carbon to said bath and at a rate which maintains the concentration of dissolved carbon in said bath at a level between .05% and 0.5% and causes said endothermic reduction reaction to go forward without said reaction absorbing more heat than the heat input into said furnace; withdrawing the gaseous products together with the zinc vapor from said furnace and removing spent slag from said furnace.

#### 2,715,063 METHOD FOR THE RECOVERY OF PURE ALUMINUM

Paul Weiss, Grevenbroich, Germany, assignor to Vereinigte Aluminiumwerke, Aktiengesellschaft, Bonn am Rhine, Germany, a corporation of Germany  
Original application September 21, 1951, Serial No. 247,629, now Patent No. 2,697,597, dated December 21, 1954. Divided and this application September 10, 1952, Serial No. 308,759  
Claims priority, application Germany September 22, 1950  
5 Claims. (Cl. 75—68)



1. A method for the recovery of pure aluminum from aluminum containing materials, the steps of reacting the said materials in the molten state with an aluminum compound in an airtight vessel to produce aluminum enriched vapors, passing the said vapors through a porous layer consisting of heat-refractory granular materials which are inert to the action of the aluminum rich vapors, maintaining within said layer a temperature decrease in the direction of the vapor flow and condensing the aluminum vapors at the surface of the porous layer directly after the exit of the gases from said layer.

#### 2,715,064 METHOD OF PRODUCING SILICON STEEL

Lawrence M. Burns, Apollo, Pa.  
No Drawing. Application September 1, 1954,  
Serial No. 453,676  
2 Claims. (Cl. 75—129)

1. Method of producing silicon steel containing over 3% silicon comprising forming a melt of low metalloid, low-carbon steel, tapping said steel into a ladle, adding sufficient ferrosilicon to bring the silicon content to above 3%, adding sufficient cold silicon steel scrap to reduce the temperature of the steel in the ladle to a temperature suitable for teeming and then teeming said steel into ingot molds.

#### 2,715,065 PRODUCTION OF PAPER OF SUPERIOR WET STRENGTH

David B. Hatcher, Toledo, Ohio, assignor, by mesne assignments, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York  
No Drawing. Application November 24, 1950,  
Serial No. 197,508  
8 Claims. (Cl. 92—3)

1. A thermosetting water-soluble synthetic resin capable of imparting improved wet strength to paper, comprising a product of the reaction in aqueous solution at a pH

of from about 4.6 to about 7.0 of formaldehyde, urea, and dimethylamine; the formaldehyde being reacted in an amount from 1.8 to 2.4 mols per mol of urea and the dimethylamine being reacted in an amount from 0.01 to 0.3 mol of dimethylamine per mol of urea.

#### 2,715,066 AIR CURING OF SHEET MATERIAL CONTAINING SYNTHETIC ELASTOMERS

David A. Feigley, Jr., Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania  
No Drawing. Application December 14, 1951,  
Serial No. 261,743  
7 Claims. (Cl. 92—21)

1. A method of producing sheet material containing rubberlike polymers and possessing uniform characteristics including resilience and flexibility, which comprises admixing di-ortho-tolyl-guanidine salt of di-catechol-borate with a rubberlike butadiene polymer which possesses residual double bonds after polymerization, dispersing the resulting material over a finely divided filler in such a manner as to provide a porous mass through which air may pass, and heating the resulting material in air at an elevated temperature.

#### 2,715,067 FODDER FOR RUMINANTS

Jonas Kamlet, Easton, Conn.  
No Drawing. Application Aug. 19, 1953,  
Serial No. 375,298  
3 Claims. (Cl. 99—2)

1. A feeding stuff for ruminant animals containing waste newsprint together with other components of said feed.

#### 2,715,068 COMESTIBLE AND COMESTIBLE BASE AND METHOD OF MAKING THE SAME

Harry M. Levin, Philadelphia, Pa.  
No Drawing. Application March 20, 1953,  
Serial No. 343,811  
9 Claims. (Cl. 99—144)

1. A comestible comprising a mixture of mayonnaise and a soft plastic, acidulated, starchless base having as its principal nutritious constituent a pasteurized dispersion of dried defatted milk solids.

#### 2,715,069 POLISHING WAX COMPOSITION

Ralf B. Trusler, Dayton, Ohio, assignor to The Davis-Young Soap Company, Dayton, Ohio, a corporation of Ohio  
No Drawing. Application April 25, 1952,  
Serial No. 284,480  
1 Claim. (Cl. 106—10)

A polishing composition which is adapted to form a filled polished surface upon application thereto, said polishing composition consisting essentially of wax dissolved and dispersed in petroleum solvent, said petroleum solvent having a solvency corresponding to Kauri Butanol #35, said wax being selected from the group consisting of carnauba wax, said carnauba wax having an acid value of from 3 to 8 and Chinese wax, the percentage of wax in solution in said petroleum solvent consisting of from 12½% to 20% by weight of the total amount of wax present, the balance of the wax being retained in suspension in said petroleum solvent as a settling filler.

#### 2,715,070 RUTILE BOULE AND METHOD OF MAKING THE SAME

Charles H. Moore, Jr., Indianapolis, Ind., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey  
No Drawing. Application April 29, 1954,  
Serial No. 426,583  
7 Claims. (Cl. 106—42)

1. A rutile single crystal boule consisting of titanium dioxide and alumina, said alumina present in amount from 0.005% to 0.1% by weight.

#### 2,715,071 COLORED RUTILE BOULES AND A METHOD FOR MAKING THE SAME

Leon Merker, Bronx, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey  
No Drawing. Application June 17, 1954,  
Serial No. 437,593  
8 Claims. (Cl. 106—42)

1. A colored rutile single crystal boule containing an oxide of an element selected from the group consisting of cobalt and nickel; the cobalt in amount from 0.005% to 0.13%, the nickel present in amount from 0.005% to 1.0% by weight calculated as the element.

#### 2,715,072 DRYING OIL COMPOSITION

Joseph A. Chenicek, Bensenville, and Robert H. Rosenwald, Western Springs, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware  
No Drawing. Application March 26, 1949,  
Serial No. 83,753  
3 Claims. (Cl. 106—263)

1. A coating composition comprising a drying oil normally tending to form skin, a metallic drier and a retarder of skin formation comprising a 2-tertiary-alkyl-4-alkoxyphenol.

#### 2,715,073 STABILIZATION OF WAXES

Charles D. Lowry, Jr., Evanston, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware  
No Drawing. Application August 16, 1950,  
Serial No. 179,880  
1 Claim. (Cl. 106—270)

Wax used as a coating in containers for food products containing, as an inhibitor to retard oxidative deterioration, from about 0.001% to about 0.05% by weight of 2-tertiary butyl-4-methoxyphenol, from about 0.0005% to about 0.03% by weight of citric acid and from about 0.0005% to about 0.03% by weight of a metal deactivator.

#### 2,715,074 WATERTIGHT AND AIR PERVIOUS FLOCKED SHEET MATERIAL AND METHOD OF MAKING SAME

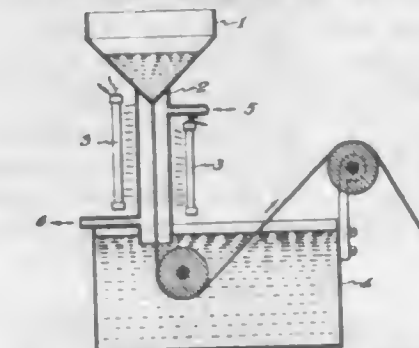
Paul Hirschberger, Paris, France, assignor to Societe Palladium, Argenteuil, France, a corporation of France  
Application May 22, 1952, Serial No. 289,440  
Claims priority, application France January 30, 1952  
11 Claims. (Cl. 117—17)

11. A process of making a flocked fabric which comprises, applying a flexible adhesive vulcanizable material as a layer over one face of a fabric web, said material having a multitude of craters therein with tiny apertures providing communicating passages for air through said layer, allowing said layer to dry, applying a continuous flexible layer of vulcanizable material over an outer face

of the first layer, subjecting the fabric with the layers carried thereon and a multitude of fibers to an electrostatic field at a voltage of about 150,000 volts to move the fibers with their lengthwise dimensions substantially perpendicular to the fabric whereby the inner end portions of the fibers move transversely through the second layer with the inner ends into the presence of the first layer, and vulcanizing the layers before the materials thereof have an opportunity to impregnate the fibers to any substantial extent.

#### 2,715,075 PROCESS FOR TREATING POLYETHYLENE STRUCTURES AND ARTICLES RESULTING THEREFROM

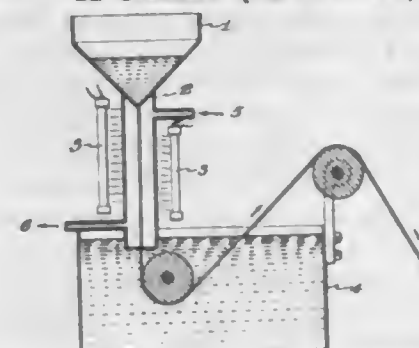
Leon E. Wolinski, Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
Application November 29, 1952, Serial No. 323,272  
12 Claims. (Cl. 117—47)



12. A process for treating polyethylene film which comprises subjecting the surface of said film to the action of a gaseous atmosphere containing at least 0.01% by volume of ozone and an amount, not in excess of the volume per cent of ozone present, of a gaseous accelerator agent selected from the group consisting of the halogens and the hydrogen halides, at a temperature within the range of from room temperature to the temperature beyond which substantial degradation of the polyethylene occurs, and for a period of time sufficient to render said surface adherent to printing ink, and thereafter imprinting such surface with a printing ink.

#### 2,715,076 PROCESS FOR TREATING POLYETHYLENE STRUCTURES AND ARTICLES RESULTING THEREFROM

Leon E. Wolinski, Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
Application November 29, 1952, Serial No. 323,273  
12 Claims. (Cl. 117—47)

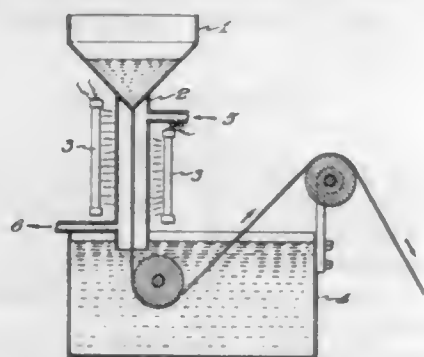


12. A process for treating polyethylene film which comprises subjecting the surface of said film to the action of a gaseous atmosphere containing at least 0.01% by volume of ozone and at least 0.01% by volume of nitrous oxide, at a temperature within the range of from room temperature to the temperature beyond which substantial degradation of the polymer occurs, for a period of time sufficient to render said film surface adherent to printing ink, and thereafter imprinting such surface with a printing ink.



### 2,715,077 PROCESS FOR TREATING POLYETHYLENE STRUCTURES

Leon E. Wolinski, Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
Application November 29, 1952, Serial No. 323,276  
8 Claims. (Cl. 117—47)



7. A process for treating polyethylene film which comprises subjecting said film to the action of a gaseous atmosphere containing at least 5% by volume of nitrous oxide at a temperature within the range of from 150° C. to the temperature beyond which substantial degradation of the polyethylene occurs, for a period of time sufficient to render said film adherent to printing ink, and thereafter imprinting such surface with a printing ink.

### 2,715,078 PROCESS OF IMPREGNATING CELLULOSIC MATERIAL WITH THERMOSETTING RESIN

Oscar P. Cohen, Watertown, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 27, 1948, Serial No. 56,911  
9 Claims. (Cl. 117—56)

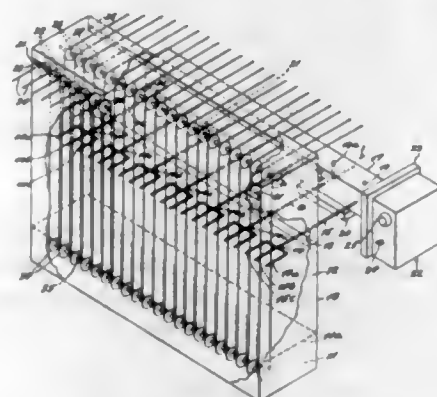
1. The method of producing a shrink-resistant cellulosic textile material which comprises immersing a cellulosic textile material in from 10 to 70 times its weight of an aqueous solution of from about 0.2 to 2% by weight, based on said material, of a cationic surface active agent; allowing substantially all of said agent to migrate from said solution onto said material, the temperature of said solution being between about 100 and 200° F. during this step; immersing said material in from 10 to 70 times its initial weight of an aqueous solution comprising initially from about 3 to 25% by weight, based on the initial weight of the material, of a substantially unpolymerized condensation product selected from the group consisting of urea-formaldehyde, alkylated melamine-formaldehyde and alkylated urea-formaldehyde condensation products and mixtures thereof, said last named solution being substantially free of curing catalysts for said condensation product; allowing said textile material to remain in contact with the solution of said condensation product for a period of at least 60 minutes and until substantially all of the condensation product migrates from said solution onto the material, the temperature of the last named solution being between about 115 and 180° F. during this step; extracting said material to remove excess solution therefrom; and then drying and heating said material to insolubilize said condensation product.

### 2,715,079 APPARATUS AND METHOD FOR VIBRATING FILAMENTOUS MATERIALS

Robert P. Rhodes, Jr., Pittsburgh, Pa., assignor to Coats & Clark Inc., a corporation of Delaware  
Application November 24, 1950, Serial No. 197,258  
8 Claims. (Cl. 117—102)

1. In apparatus for treating lengths of thread or yarn with liquid agent and for controlling the amount of agent

added to said lengths, a vessel for holding a bath of said agent having walls extending above the level of the bath, a plurality of vibratable members extending into the vessel and spaced from said bath, guide means for introducing a plurality of spaced individual lengths into said bath to treat the same, means in said vessel adapted to be submerged in the bath for assisting in passing each length out of the bath and then upwardly and in contact with one of said vibratable members, a support above each vibratable member for receiving the length therefrom, a common handle to which said members are attached extending to one side of said vessel, a vibration transmitting member to which said handle is connected, vibrating means for vibrating said transmitting member and thus said handle and vibratable members, adjustable connecting means adapted to hold the handle to said transmitting member and to enable the length of the handle to be varied, thereby enabling the latter to vibrate at various frequencies and through various amplitudes, said handle and vibratable members having the resonant frequency of said vibrating means.



8. A method for treating a length of thread or yarn with a treating agent and for closely controlling the amount of such agent added on to said length which comprises passing the length into contact with said treating agent, then passing the length to a spaced point, vibrating the treated length at a point intermediate said contact step and said spaced point, thus aiding the distribution of the agent on the length and removing excess agent, coincidentally supporting said length at said intermediate point while vibrating the same, vibrating said length at a frequency and amplitude so as to prevent agent carry-over from collecting at said spaced point, and holding said length under sufficient tension to aid in supporting the length at said intermediate point during vibration, said tension not amounting to more than a small fraction of that necessary to break the length.

### 2,715,080 ELECTRICAL CONTACT BRUSH

John G. Cashell, Pittsburgh, Pa., assignor to General Electric Company, a corporation of New York  
No Drawing. Application May 27, 1954, Serial No. 432,943  
6 Claims. (Cl. 117—223)

1. A carbon brush for electrical purposes containing from about 1% to 5% by weight of an alkali metal pyrophosphate.

### 2,715,081 ELECTRIC STORAGE BATTERY

Carl Gritman and Charles A. Toce, Sunland, and Robert Broussard, Glendale, Calif., assignors to Electro-Acid Corporation, Sunland, Calif., a corporation of Texas  
No Drawing. Application July 29, 1952, Serial No. 301,422  
9 Claims. (Cl. 136—154)

2. In a storage battery of the lead-sulphuric acid type, the improvement which consists in the addition of selenium and chlorine to the active components of said battery.

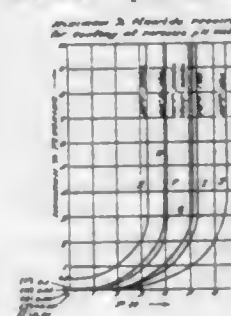
### 2,715,082 ELECTRIC STORAGE BATTERY

Carl Gritman, Sunland, Robert Broussard, Glendale, and Charles A. Toce, Sunland, Calif., and John H. Joynt, Alexandria, Va., assignors to Electro-Acid Corporation, a corporation of Texas  
No Drawing. Application May 4, 1953, Serial No. 352,986  
3 Claims. (Cl. 136—154)

1. In a storage battery, a fluid-containing case, a positive plate composed principally of lead dioxide and a negative plate composed principally of sponge lead disposed within said case, and an electrolyte in said case and comprising a solution of sulfuric acid and selenium compound of the group selenium tetrabromide, chloride, tetrachloride, tetrafluoride, iodide, tetraiodide and oxybromide in amount sufficient to prevent objectionable sulphation.

### 2,715,083 METHOD OF APPLYING SULFIDE COATING ON STAINLESS STEEL AND COMPOSITION SOLUTION THEREFOR

John E. Baxter, Detroit, Mich., assignor to Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan  
Application January 29, 1951, Serial No. 208,374  
8 Claims. (Cl. 148—6.24)



1. An acidic aqueous solution which upon contact with the surface of a stainless steel forms a sulfide coating thereon, said solution having a pH between about 6.5 and about 3.3 and consisting of water, between about 0.001 percent and saturation of the fluoride ion and between about 0.03 percent and saturation of a sulfur compound adapted to provide sulfide ions at the surface of said stainless steel.

### 2,715,084 MODIFIED ROSIN SOLDERING FLUX

Otto König, New York, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey  
No Drawing. Application February 7, 1952, Serial No. 270,530  
6 Claims. (Cl. 148—23)

1. A soldering flux consisting essentially of an intimate mixture of rosin and a small portion from 0.1% to 5.0% by weight of rosin of an organic compound selected from the group consisting of chain brominated, aliphatic carboxylic acids, having from 8 to 24 carbon atoms in the chain, and ammonium and alkali metal salts of said acids.

### 2,715,085 FUEL CONTAINER

Vernon G. Boger, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York  
Application April 24, 1951, Serial No. 222,671  
2 Claims. (Cl. 154—43.5)

1. A fuel tank having a laminated wall structure including a flexible resilient rubbery layer comprising a vulcanized rubbery butadiene-acrylonitrile copolymer and from 3 to 50 per cent by weight based on the total weight of the composition of a heat stabilizer for vinyl halide resins, a gasoline-impervious barrier layer comprising a

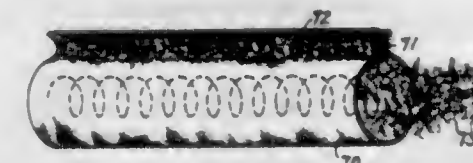
copolymer of vinylidene chloride and acrylonitrile disposed over a face of said rubbery layer, and a second flexible rubbery layer comprising a vulcanized rubbery butadiene-acrylonitrile copolymer and from 3 to 50 per cent



by weight based on the total weight of the composition of a heat stabilizer for vinyl halide resins disposed over the opposite face of said barrier layer, said layers all being adhered together throughout their extent.

### 2,715,086 SIMULATED DOWN FILLER AND METHOD OF MAKING THE SAME

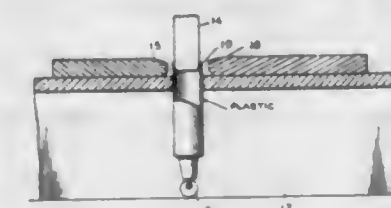
Edward R. Frederick, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army  
Application March 17, 1952, Serial No. 276,985  
30 Claims. (Cl. 154—44)



20. A filler element suitable for heat-insulating sleeping bags, pillows, comforters and the like comprising, in combination, an open helical core made of a fine resilient wire-like material which is yieldable to lateral compression, the diameter and pitch of the helical core being of substantial dimensions; a multiplicity of feathers firmly secured to the helical core and substantially completely hiding the same and forming a layer of substantial bulk; and a fabric tube inclosing the feather-covered helical core, the internal dimensions of the fabric tube approximating the external or over-all dimensions of the covered helical core when subjected neither to tension nor to compression; the fabric tube having a seam on its outside extending its entire length and having its walls held against collapsing by the helical core within it.

### 2,715,087 METHOD OF SEALING THE OPEN END OF A THERMOPLASTIC TUBE

George Barradas, North Tarrytown, N. Y., assignor to PM Industries, Incorporated, Stamford, Conn.  
Application February 16, 1953, Serial No. 337,139  
1 Claim. (Cl. 154—83)



A method of sealing the open end of a thermoplastic tube which comprises inserting a heating element within the marginal and sealing area of said tube, heating the interior surfaces to soften the same, withdrawing the heating element and compressing the heated marginal surfaces to close the end of the tube and form a permanent seal thereon.



**2,715,088**  
**METHOD OF COATING PAPER WITH THERMO-PLASTIC RESINS**

John Robert Gunning, Georgetown, Ontario, Canada, assignor to Provincial Paper, Limited, Toronto, Ontario, Canada

Application January 15, 1951, Serial No. 206,020  
 Claims priority, application Canada June 2, 1950  
 5 Claims. (Cl. 154-93)



1. Process of coating paper with a thermoplastic resin comprising the steps of heating the resin to a condition of plasticity, then extruding the resin in the form of a plurality of thin closely spaced parallel filaments upon the surface of the paper, fusing said filaments into a continuous film and bonding the resin to the paper under pressure.

**2,715,089**  
**FLEXIBLE COVERING SHEET AND METHOD OF MAKING THE SAME**

Elliott W. Michener and Richard C. Franseen, St. Paul, Minn.

Application April 27, 1953, Serial No. 351,118  
 6 Claims. (Cl. 154-125)



1. A composite wrapper including a pair of flat, flexible outer sheets, an intermediate formable metallic foil sheet having a series of openings not less than 1/16th of an inch in diameter and width formed therein, and means for securing said outer sheets together through said openings in said intermediate sheet to provide a tough, flexible, composite foldable sheet wherein the intermediate sheet is protected by said outer sheets against breaking.

4. The method of making a covering sheet or wrapping consisting in providing unperforated continuous flexible plastic outer sheets having a transparent or translucent nature, then providing an intermediate metallic foil sheet, then forming a series of holes through the metallic sheet, then positioning the metallic sheet between the outer plastic sheets and laminating or fusing the outer sheets together through the holes formed through the intermediate metallic foil sheet, thereby providing a flexible wrapping sheet which may be used over and over without rupture and readily cleansed by wiping off the outer surface thereof.

**2,715,090**  
**ORGANIC PENICILLIN SALT SOLUTIONS HAVING A DELAYED ACTION AND PROCESS FOR MAKING SAME**

Henry Penau, Paris, Guy Hagemann, Vincennes, and Rene Claude, Paris, France, assignors to Les Laboratoires Francais de Chimiotherapie, Paris, France, a body corporate of France

No Drawing. Application April 15, 1950,  
 Serial No. 156,228

Claims priority, application France May 25, 1949  
 7 Claims. (Cl. 167-65)

1. A therapeutic preparation active against bacterial infections, comprising an injectable vehicle consisting of a mixture of propylene glycol and a miscible proportion of water, carrying in solution the reaction product of a penicillin salt and a quinine salt, said salts being present in about equimolecular amounts, the vehicle maintaining said reaction product in solution in vitro, said injectable vehicle, upon injection into human tissue, depositing said reactive product in such tissue, said reaction product precipitating in situ in such tissue and being slowly ab-

sorbed by the human system over a prolonged period of time, said reaction product being present in said vehicle in an amount sufficient to rapidly precipitate upon injection on contact with the body fluids.

**2,715,091**  
**DEXTRAN SULFATE AS ANTICOAGULANT, PROCESS OF PREPARING SAME, AND STERILE SOLUTION THEREOF**

Colin Robert Ricketts and Kenneth Walter William Henry Walton, Birmingham, England, assignors to National Research Development Corporation, London, England, a British corporation

No Drawing. Application November 18, 1950,  
 Serial No. 196,524

Claims priority, application Great Britain  
 November 28, 1949

9 Claims. (Cl. 167-65)

1. A process for preparing non-toxic anticoagulants for use with blood and plasma, comprising esterifying a dextran having an intrinsic viscosity of less than 0.12 but not lower than 0.02, with a sulphating agent to form a sulphuric acid ester, the sulphur content of which, calculated on its sodium salt, is more than 9 per cent, and converting such ester into a water-soluble salt.

**2,715,092**  
**ORGANIC PENICILLIN SALT SOLUTIONS AND METHOD OF MAKING SAME**

Henry H. Penau and Guy Hagemann, Paris, France, assignors to Les Laboratoires Francais de Chimiotherapie, Paris, France, a body corporate of France

No Drawing. Application April 1, 1952,  
 Serial No. 279,958

Claims priority, application France April 6, 1951  
 7 Claims. (Cl. 167-65)

1. An injectable therapeutic preparation for treating bacterial infections, comprising an aqueous solution of emetine hydrochloride, an equimolecular amount of sodium penicillin, and about 2% of gum arabic, dissolved in said solution, said solution retaining the reactive product of said emetine salt and said penicillin salt in solution in vitro only for a period of time sufficient to administer said preparation by injection, the amounts of said emetine salt and said penicillin salt in said solution being adjusted so that the penicillin concentration in said preparation is not less than about 100,000 units per cc., the sodium penicillin being dissolved in the emetine hydrochloride solution directly before injection.

**2,715,093**  
**ELECTROLYTIC PRODUCTION OF MOLYBDENUM POWDER AND COHERENT DEPOSITS**

Seymour Senderoff and Abner Brenner, Chevy Chase, Md., assignors to the United States of America as represented by the Secretary of Commerce

No Drawing. Application January 25, 1952,  
 Serial No. 268,324

11 Claims. (Cl. 204-10)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
 1. A process for obtaining molybdenum that comprises electrolyzing a bath including 15 to 40 percent, by weight, of potassium hexachloromolybdate (III) and 85 to 60 percent, by weight, of an alkali halide electrolyte, the electrolysis taking place in an atmosphere of an inert gas.

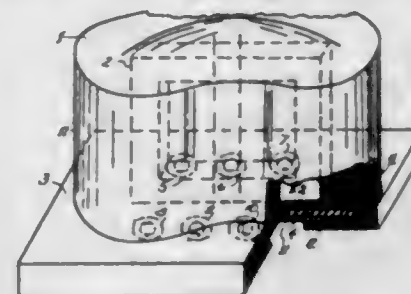
**2,715,094**  
**HERMETICALLY SEALED TRANSFORMERS**

George J. Szekely, Bloomsbury, N. J., assignor of one-half to Crest Laboratories, Incorporated, a corporation of New York, and one-half to S. K. Transformer Company, Bloomsbury, N. J.

Application October 31, 1952, Serial No. 317,995  
 4 Claims. (Cl. 204-20)

1. In a method for hermetically sealing an electrical apparatus of irregular shape, the steps of supporting said

apparatus on a base plate containing electric outlet terminals, coating the unit with an insulation closely following the contour of said shape, and coating said insulation

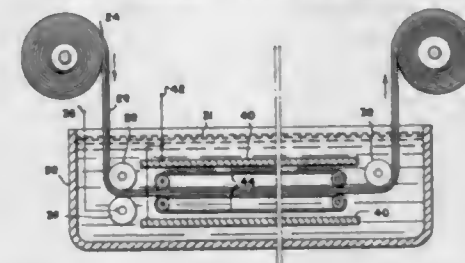


with a substantially electro-conductive layer extending over said coating on to said base plate whereby to seal the seam between insulation and base plate.

**2,715,095**  
**METHOD AND APPARATUS FOR ELECTROLYTIC TREATMENT OF SLIDE FASTENERS**

Charles C. Cohn, Atlantic City, N. J.

Application October 10, 1952, Serial No. 314,011  
 6 Claims. (Cl. 204-23)



1. A method of electrolytically treating slide fasteners of the zipper type having metallic interengaging elements secured to fabric tapes comprising supporting in an electrolytic bath four zipper tapes in the form of a pair of closed zippers by means engaging only the zipper tapes and not the elements secured thereto with the two closed zippers in flatwise engagement with each other and with the elements of one closed zipper intermeshing with the elements of the other closed zipper, positioning electrodes in the bath adjacent to the outwardly turned side of each of the closed zippers and spaced therefrom, and causing conductive engagement of at least one element of one of said closed zippers and of at most not more than a small portion of the number of elements immersed in the bath with a member carrying current for treatment.

**2,715,096**  
**ANTIMONY PLATING**

Don G. Burnside, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application January 22, 1953,  
 Serial No. 332,761

5 Claims. (Cl. 204-45)

1. An electrolytic solution comprising the following proportions:  
 Antimony trichloride----- 200-400 grams/liter  
 Sulfuric acid----- 130-190 cc./liter  
 Hydrofluoric acid (52%)----- 400-600 cc./liter  
 Water----- Balance

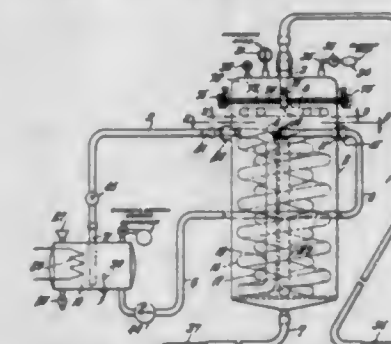
**2,715,097**  
**APPARATUS FOR DIALYZING FLUIDS**

John Ralph Guarino, Kew Gardens, N. Y., assignor, by direct and mesne assignments, to Dialyzer Company of America, Inc., New York, N. Y., a corporation of New York

Application March 20, 1953, Serial No. 343,671  
 8 Claims. (Cl. 210-8.5)

1. In an apparatus for dialyzing fluids, the combination of a container, a vessel for a supply of a dialyzing

medium, a first conduit connected to the container for receiving and introducing into the container the fluid to be dialyzed, a disperser at the inlet discharge end of said first conduit, a second conduit connected to the lower end of the container for removing the fluid after it has been dialyzed, a third conduit connected to said vessel and having inlet and outlet discharge ends ex-



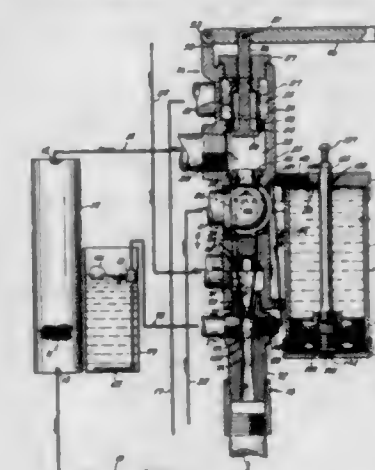
tending into and disposed in said container, and a fourth conduit composed of a semipermeable membrane disposed in the container and connecting the outlet and inlet discharge ends of said third conduit and disposed in the path of the fluid being dialyzed, said disperser directing the fluid to be dialyzed freely through said container into contact with the outer surface of said fourth conduit.

**2,715,098**  
**BASE EXCHANGE WATER TREATMENT APPARATUS**

Robert A. Whitlock, Jr., Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois

Continuation of application Serial No. 134,733, December 23, 1949. This application February 2, 1953, Serial No. 334,582

19 Claims. (Cl. 210-24)



1. Base exchange liquid treatment apparatus comprising a regenerant tank, a reaction tank having an untreated liquid inlet and a treated liquid outlet, inlet valve mechanism, a supply line connecting said valve mechanism to a supply of untreated liquid under pressure, conduits from said valve mechanism to said untreated liquid inlet and said treated liquid outlet, a service pipe connected with the conduit which extends between the inlet valve mechanism and the treated liquid outlet, said inlet valve including a chamber in constant communication with said supply line, and a valve member in said chamber selectively movable in said chamber in response to differences in pressure in said conduits between a service position closing the conduit to the treated liquid outlet and opening the conduit to the untreated liquid inlet to direct untreated liquid to the untreated liquid inlet and a regeneration position closing the conduit to the untreated liquid inlet and opening the conduit to the treated liquid outlet to direct untreated liquid to the treated liquid outlet, an injector interposed in the conduit which extends between the inlet valve mechanism and the treated liquid outlet







than 100,  $m$  is an integer from 1 to 2 inclusive, and  $Y$  is selected from the group consisting of bromine and iodine atoms, by heating said compounds at a temperature of at least 50° C. in the presence of a free radical generator.

2,715,114

## PHENOLIC RESINS

Rodney M. Huck, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 19, 1952, Serial No. 310,564

8 Claims. (Cl. 260—57)

1. A process for preparing a fusible phenolic resin which comprises reacting 1 mol of a monohydric phenol taken from the group consisting of phenol, cresols and xylenols with from 0.75 to 0.85 mol of an aldehyde taken from the group consisting of furfural and aliphatic saturated unsubstituted aldehydes containing from 1 to 4 carbon atoms at a pH of 8 to 11 and a temperature of 90° to 110° C. for from 30 to 15 minutes, cooling the reaction medium to 40° C. to 50° C., adjusting the pH of the reaction medium to 1 to 3 and completing the condensation reaction by heating at 60 to 110° C., and dehydrating the reaction product.

2,715,115

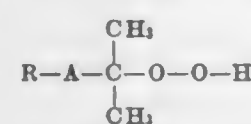
## CATALYST SYSTEM FOR THE EMULSION COPOLYMERIZATION OF BUTADIENE AND STYRENE

Joseph A. Blanchette, Springfield, and Roger G. Richards, Granby, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 30, 1952, Serial No. 317,822

4 Claims. (Cl. 260—84.3)

4. A process for the copolymerization of styrene and butadiene in an aqueous emulsion system which comprises dissolving from 0.01 to 0.1 part of a sodium alkyl benzene sulfonate in which the alkyl groups contain from 10 to 20 carbon atoms and from 0.05 to 1.0 part of a sodium salt of a naphthalene sulfonic acid-formaldehyde condensate in from 100 to 150 parts of water, dissolving from 0.25 to 0.5 part of a catalyst in the styrene and adding thereto from 0.5 to 1.0 part of an alkyl mercaptan containing from 10 to 20 carbon atoms in the alkyl group, mixing the two solutions with agitation and adding the butadiene thereto, heating the resultant reaction mixture to polymerization temperature, adding to the reaction mixture an aqueous solution of sodium formaldehyde sulfoxylate over an extended period of time while maintaining the reaction temperature substantially constant and thereafter continuing the reaction at substantially the same temperature until the reaction is substantially complete, the said catalyst being taken from the group consisting of compounds having the formula



wherein A is taken from the group consisting of benzene and cyclohexane rings and R is taken from the group consisting of hydrogen and alkyl groups containing from 1 to 5 carbon atoms, the weight ratio of catalyst to sulfoxylate being substantially 5 to 1 and the entire polymerization system containing less than 10 parts per million of the transition elements of the periodic system, the sum total of styrene and butadiene monomer equaling 100 parts.

2,715,116  
EMULSION POLYMERISATION OF STYRENE COMPOUNDS

Henry Malcolm Hutchinson, Banstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application August 25, 1952, Serial No. 306,300

Claims priority, application Great Britain

November 20, 1948

9 Claims. (Cl. 260—91.5)

1. In a process for the aqueous emulsion polymerisation of monomeric polymerisable material comprising a major proportion of a styrene compound selected from the class consisting of styrene, alpha-methylstyrene and the corresponding chlorine, methyl and ethyl nuclear substituted styrenes and alpha-methylstyrenes at a pH not less than 3, the step of effecting the polymerisation in the presence, as emulsifying agent, of a compound selected from the group consisting of the alkali metal, amine and ammonium salts of monoesters of alkanols of 5-32 carbon atoms with a dicarboxylic acid selected from the group consisting of non-hydroxylated benzene dicarboxylic acids, non-hydroxylated naphthalene dicarboxylic acids, maleic, fumaric, citraconic, itaconic and mesaconic acids and saturated non-hydroxylated aliphatic alpha-omega dicarboxylic acids of 2 to 12 carbon atoms and delta<sup>4</sup>-tetrahydrophthalic acid, 1-methyl-delta<sup>4</sup>-tetrahydrophthalic acid, 3,6-endomethylene-delta<sup>4</sup>-tetrahydrophthalic acid and 3,6-endoethylene-3-methyl-6-isopropyl-delta<sup>4</sup>-tetrahydrophthalic acid, in an amount of 0.25-10% by weight of the aqueous phase.

2,715,117

## METHODS OF BULK POLYMERIZATION

Alfred Eugène Marius Baeyaert, Bron, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain Chauny & Cirey, Paris, France

No Drawing. Application March 10, 1953, Serial No. 341,609

7 Claims. (Cl. 260—92.8)

1. In the production of a solid polymer by bulk polymerization from a liquid monomer in which it is insoluble, and in which the polymerization proceeds until the polymerization mass has the appearance of a powder, but contains a substantial percentage of monomer capable of undergoing polymerization, the steps that comprise enclosing the monomer in a polymerization vessel with round objects capable of rolling along the bottom of said vessel but restricted in movement to the lower volume of said vessel, putting all the solid particles of polymer into a state of activity which resembles fluidity or liquidity, as the mass becomes powdery, by producing relative motion between the round objects and the bottom of the vessel to cause the round objects to move within, while being restricted in their motion to, the lower portion of the volume of the liquid-solid polymerization mass, and maintaining said state of the polymerization mass during the continuance of the polymerization.

2,715,118

## SUSPENSION POLYMERIZATION USING SYNTHETIC CALCIUM PHOSPHATE

John Marshall Grim, Lancaster, Pa., assignor to Koppers Company, Inc., a corporation of Delaware

Application September 19, 1951, Serial No. 247,325

22 Claims. (Cl. 260—93.5)

1. In a process for preparing polymer beads the step of polymerizing in a stable aqueous suspension a polymerizable composition comprising at least one polymerizable ethylenic monomer, said suspension being stabilized during polymerization by means of a synthetic calcium phosphate prepared by a metathetical reaction wherein said phosphate is precipitated, an anionic surface-active

agent, calcium chloride in an amount of from 5-15% by weight where 100% equals 10 moles calcium chloride per 6 molecular equivalents of phosphate radical (PO<sub>4</sub>) present in the phosphate and calcium carbonate in an amount of from about 1 to 15% by weight of the calcium phosphate present.

2,715,119

## PREPARATION OF AMIDES

Theodor Wieland, Mainz, and Richard Schring, Ingelheim am Rhein, Germany, assignors to "C. H. Boehringer Sohn," Ingelheim am Rhein, Germany, a partnership

No Drawing. Application March 15, 1951,

Serial No. 215,866

Claims priority, application Germany April 4, 1950

5 Claims. (Cl. 260—112)

1. The method of producing organic amides which comprises reacting a compound selected from the group consisting of ammonia and amines of the formula ZNH<sub>2</sub> and (Z)<sub>2</sub>NH wherein Z is a hydrocarbon radical, with a mixed external anhydride formed by a monocarboxylic acid selected from the group consisting of lower alkanolic acids, benzoic acid, and phenyl lower alkanolic acids having at least two carbon atoms in their molecule and a compound selected from the group consisting of mono-amino-monocarboxylic acids and peptides having at least one peptide group in their molecule, and separating the reaction product in the form of the desired amide from the reaction mass.

2,715,120

## MONOAZO-DYESTUFFS

Rudolf Ruegg, Basel, Arthur Buehler, Rheinfelden, and Eduard Moser, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

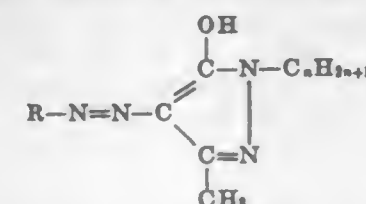
No Drawing. Application July 17, 1951,

Serial No. 237,301

Claims priority, application Switzerland July 20, 1950

13 Claims. (Cl. 260—162)

3. A monoazo dyestuff of the formula



wherein  $n$  represents an integer which is at least 4 and at most 12, and R represents an aromatic radical containing at least one sulfonic acid group, at least one six-membered carbocyclic nucleus and at most two such nuclei condensed with one another.

2,715,121

## ALKYL SUGAR DERIVATIVES AND THEIR PREPARATION

William Lawrence Glen, Bale D'Urfe, Quebec, Gordon S. Myers and Richard J. Barber, Ville St. Laurent, Quebec, and Gordon A. Grant, Montreal, Quebec, Canada, assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 9, 1950,

Serial No. 184,122

14 Claims. (Cl. 260—209)

9. The process comprising reacting a hexose of the group consisting of glucose, fructose, sucrose and invert sugar with acetone in the presence of a mild condensing agent consisting essentially of zinc chloride to obtain the corresponding diacetone hexose, alkylating said diacetone compound with an alkylating agent in the presence of solid alkali hydroxide to form an alkyl ether of said diacetone hexose, and hydrolyzing said alkyl ether derivative in the

2,715,122

## EXTRACTION OF SAPONINS FROM YUCCA BACCATA

Edward S. Rothman, Philadelphia, and Monroe E. Wall, Oreland, Pa., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application September 5, 1952,

Serial No. 308,174

3 Claims. (Cl. 260—210.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for isolating steroidal saponin comprising subjecting a substantially aqueous saponin-containing extract of *Yucca baccata* leaves to extraction with benzene, whereby to remove impurities while retaining the saponin in the aqueous phase; then extracting the aqueous phase with a water-immiscible alcohol having 4 to 6 carbon atoms, whereby to obtain an alcohol phase containing the saponin, and separating the saponin from this alcohol phase.

2,715,123

## METHOD FOR CONDUCTING THE AMADORI REARRANGEMENT OF N-GLYCOSIDES

John E. Hodge, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 15, 1951,

Serial No. 256,587

16 Claims. (Cl. 260—211)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method comprising subjecting a glycosylamine to the presence of an active methylene compound which possesses an active hydrogen atom linked to a carbon atom in the alpha position to an unsaturated linkage in a non-acid reaction medium in the presence of a secondary amine thereby to effect the structural rearrangement of said glycosylamine from aldose to ketose form.

2,715,124

## MANUFACTURE OF FREE-FLOWING WATER-SOLUBLE CARBOXYALKYL CELLULOSE ETHERS

Herbert C. Miller, Jr., Hopewell, Va., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 29, 1953,

Serial No. 364,960

11 Claims. (Cl. 260—232)

1. A process for converting fibrous carboxyalkyl cellulose derivatives into free-flowing substantially granular powder which comprises agitating a loose fibrous mass comprising a water-soluble carboxyalkyl cellulose derivative moist with an aqueous alcohol and containing water and alcohol in such proportions that the mass would normally dry to a loose fibrous product, simultaneously introducing thereto a dispersed stream of aqueous fluid until the amount of water introduced is sufficient to form with the aqueous alcohol present in the mass an active solvent for the carboxyalkyl cellulose derivative, said active solvent containing at least about 67.5% by weight of water, maintaining the total liquid content in the mass below about 4 parts by weight based on the dry weight of the carboxyalkyl cellulose derivative, continuing agitation until the fibrous structure of the mass is substantially destroyed and the carboxyalkyl cellulose derivative is converted into a mass of separate, discrete gel particles, discontinuing agitation while the mass is still substantially in the form of separate, discrete gel particles and before said gels coalesce into doughy masses, and drying the gels thus formed to obtain a free-flowing substantially granular powder.



2,715,125

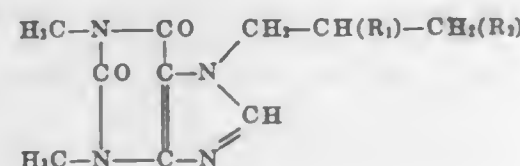
## 7-HYDROXYPROPYL THEOPHYLLINE DERIVATIVES AND PRODUCTION THEREOF

Robb V. Rice, Hasbrouck Heights, N. J., assignor to Gane's Chemical Works, Inc., Carlstadt, N. J., a corporation of New York

No Drawing. Application March 20, 1953, Serial No. 343,787

8 Claims. (Cl. 260—256)

1. The highly water soluble, stable and neutral derivatives of theophylline, suitable for oral and parenteral administration, having the following chemical structure:



where  $R_1$  and  $R_2$  are radicals selected from the group consisting of  $-H$  and  $-OH$ , in which when  $R_1$  is  $-H$ ,  $R_2$  is  $-OH$  and vice versa.

4. A process for the preparation of 7-hydroxy-propyl theophylline compounds which comprises treating one molar equivalent of theophylline with 1.05 to 1.50 molar equivalents of a monohalogenated propanol and 1.05 to 1.50 molar equivalents of an alkali metal hydroxide, using water as the solvent.

2,715,126

## PRODUCTION OF 4-AMINO-3-SULFO-1,8-NAPHTHALIMIDES

John F. Mulvaney, Berkeley Heights, and Marvin O. Shrader, Westfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 20, 1951, Serial No. 232,664

5 Claims. (Cl. 260—281)

1. Process for the production of 4-amino-3-sulfo-1,8-naphthalimides by sulfonation of 4-amino-1,8-naphthalimides in which the imide nitrogen is substituted by a radical selected from the class consisting of alkyl, cycloalkyl, aralkyl and aryl radicals which comprises subjecting such naphthalimide in the presence of a normally liquid inert solvent to the action of chlorosulfonic acid at a temperature ranging from 95 to 125° C.

2,715,127

## PROCESS FOR THE PREPARATION OF N,N'-DIPHENYL PERYLENE DIIMID AND THE CHLORINATED DERIVATIVES THEREOF

Juerg A. Meier, Cranford, and Marvin O. Shrader, Westfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 3, 1951, Serial No. 235,094

10 Claims. (Cl. 260—281)

1. The process of producing N,N'-diphenyl perylene diimid which comprises heating perylene tetracarboxylic acid anhydride with an excess of aniline of no more than 100 per cent over that theoretically required for reaction with the anhydride in a high boiling inert organic solvent and in the presence of a dehydrating metal halide.

2,715,128

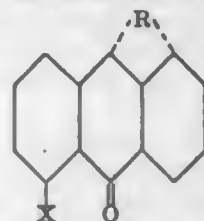
## ANTHRONE DERIVATIVES

Paul Grossmann, Binningen, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 6, 1953, Serial No. 366,385

Claims priority, application Switzerland July 16, 1952 9 Claims. (Cl. 260—303)

1. An anthrone derivative of the formula



wherein X represents an acylamino radical, the acyl group of which is aliphatic monocarboxylic acid acyl containing at the most six carbon atoms, and R represents the atoms necessary to complete a five-membered heterocyclic ring selected from the group consisting of the isothiazole, thiophene and pyrazole rings.

2,715,129

## PROCESS FOR PRODUCING 5-HYDROXY-TRYPTAMINE

Kenneth E. Hamlin, Lake Bluff, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application October 9, 1951, Serial No. 250,573

11 Claims. (Cl. 260—319)

1. The process which comprises intimately admixing 5-benzyloxyindole with formalin and dimethylamine, heating the resulting 5-benzyloxygramine with a cyanide salt, reducing the resulting 5-benzyloxyindole-3-acetamide, hydrogenating the resulting 5-benzyloxytryptamine to produce 5-hydroxytryptamine.

2,715,130

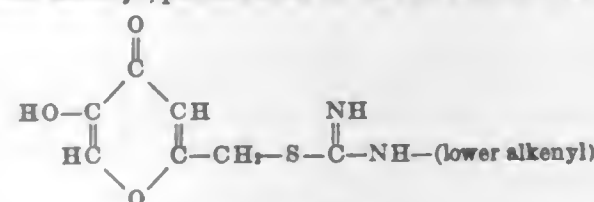
## 2(5'-HYDROXY-4'-OXO-2'-γ-PYRANYLMETHYL)-2-THIO-3-(LOWER ALKENYL) PSEUDOUREAS

Carl Peter Krimmel, Mundelein, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 17, 1954, Serial No. 411,011

3 Claims. (Cl. 260—345.9)

1. A 2-(5'-hydroxy-4'-oxo-2'-γ-pyranylmethyl)-2-thio-3-(lower alkenyl)pseudourea of the structural formula



2,715,131

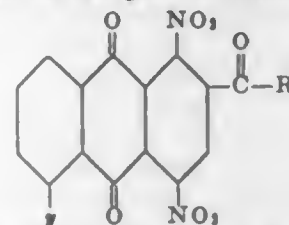
## PRODUCTION OF NITROGENOUS ANTHRA-QUINONE COMPOUNDS

Friedrich Ebel, Mannheim-Feudenheim, and Walter Rupp, Ludwigshafen (Rhine)-Oppau, Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhein, Bundesrepublik Deutschland

No Drawing. Application December 31, 1952, Serial No. 329,099

Claims priority, application Germany January 22, 1952 12 Claims. (Cl. 260—376)

1. A compound of the general formula



wherein y stands for a member of the class consisting of

hydrogen and the nitro group, and R for a member selected from the class consisting of hydrogen, methyl, ethyl and hydroxy groups.

2,715,132

## UNSATURATED FATTY ACID ESTERS OF ALLOXY HYDROXYBUTENES

Daniel Swern, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application December 12, 1952, Serial No. 325,740

6 Claims. (Cl. 260—410.6)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. An unsaturated fatty acid ester of alloxy hydroxybutene.

2,715,133

## ORGANOSILYLAMINES

John L. Speier, Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application June 30, 1950,

Serial No. 171,553

6 Claims. (Cl. 260—448.2)

1. A compound of the formula



where  $a$  has a value from 1 to 2,  $b$  has a value from 0 to 2 the sum of  $a+b$  being not greater than 3, R is selected from the group consisting of alkyl, monocyclicaryl hydrocarbon, and alkoxy radicals, and R' is selected from the group consisting of alkyl, cycloparaffin, monocyclicaryl hydrocarbon radical, and hydroxyalkyl radicals where the OH group is at least beta to the nitrogen.

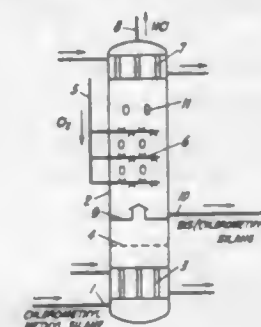
2,715,134

## CHLORINATION OF CHLOROMETHYLMETHYLSILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

Application June 13, 1951, Serial No. 231,377

4 Claims. (Cl. 260—448.2)



1. The method of preparing poly(monochloromethyl)silanes which comprises continually charging into a reaction zone chlorine and a chloromethylmethylsilane of the general formula  $(CH_3)_a(CH_2Cl)_bSiCl_{4-a-b}$  where  $a$  has a value of from 1 to 3,  $b$  has a value of from 1 to 2, and  $a+b$  has a value of from 2 to 4, each inclusive, maintaining the temperature of the reaction zone at between the boiling points of the chloromethylmethylsilane charged and of the chlorinated product containing one more chlorine atom per silicon than the chloromethylmethylsilane charged, whereby poly(monochloromethyl)silanes having a higher degree of substitution of monochloromethyl groups per silicon atom than the chloromethylmethylsilane charged are produced and condensed upon formation, and are continually removed from the reaction zone.

2,715,135

## REACTION PRODUCTS OF GLYCOLS AND VINYL TRICHLOROSILANE

Marvin C. Brooks, Packanack Lake, and Roswell H. Ewart, Bloomfield, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 8, 1951, Serial No. 255,534

5 Claims. (Cl. 260—448.8)

1. The product formed by the reaction of an aliphatic dihydric alcohol with vinyltrichlorosilane with the liberation of hydrogen chloride, the mole ratio of alcohol hydroxyl groups furnished by said alcohol to chlorine atoms furnished by said vinyltrichlorosilane being greater than 1.3:1, said product being a free-flowing liquid at ambient temperatures.

2,715,136

## METHOD OF PREPARING DIALKYL THIONOCHLOROPHOSPHATES

Arthur Dock Fon Toy, Chicago, and Guy A. McDonald, Chicago Heights, Ill., assignors to Victor Chemical Works, a corporation of Illinois

No Drawing. Application April 29, 1949,

Serial No. 90,558

10 Claims. (Cl. 260—461)

1. The method of simultaneously preparing a dialkyl thionochlorophosphate and thiophosphoryl chloride which comprises reacting phosphorus pentachloride with a member of the class consisting of dialkyl thionothiophosphoric acid and the alkali metal salts thereof in a volatile inert liquid diluent, removing the resulting member of the class consisting of metal chloride and hydrogen chloride, and distilling off and recovering said diluent and the thiophosphoryl chloride product from the residual dialkyl thionochlorophosphate.

2,715,137

## PRODUCTION OF NITRILES

Harry B. Copelin, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 19, 1952,

Serial No. 321,510

22 Claims. (Cl. 260—465.8)

1. A process for the production of a nitrile which comprises reacting a nitrile forming metal cyanide with an aliphatic organic compound containing at least one halogen atom of atomic weight not less than 35, and having not more than two of said halogen atoms on a single carbon atom, at least one of said halogen atoms being linked to a non-tertiary carbon atom, in a liquid reaction mixture initially containing not less than about 40% by weight of at least one amide selected from the group consisting of the N-dialkyl amides of formic, acetic and propionic acids which contain not more than two carbon atoms in each N-alkyl radical.

2,715,138

## PRODUCTION OF ADIPONITRILE

George B. Crane, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 30, 1954,

Serial No. 426,934

5 Claims. (Cl. 260—465.8)

1. In the process for making adiponitrile by the reaction of 1,4-dichlorobutane with sodium cyanide in a reaction solvent consisting essentially of wet adiponitrile, the step of adding calcium chloride to the reaction solvent to improve the yield and suppress the by-products of the reaction.



2,715,139

## AROMATIC ETHER-ESTERS OF DIGLYCOLIC ACID

John D. Brandner, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 25, 1950,

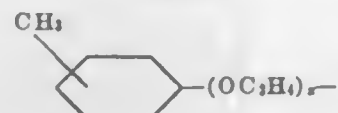
Serial No. 158,090

6 Claims. (Cl. 260-484)

1. A diester of diglycolic acid which conforms to the formula



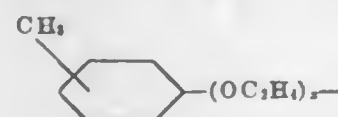
in which R is a radical selected from the group consisting of



and



wherein  $x$  is an integer greater than 0 and less than 3,  $m$  is a whole number from 0 to 4,  $n$  is a whole number from 0 to 2, and the sum of  $m+n$  is from 1 to 4; and  $\text{R}'$  is a radical selected from the group consisting of



and



wherein  $x$  is an integer greater than 0 and less than 3,  $m$  is a whole number from 0 to 4,  $n$  is a whole number from 0 to 2, the sum of  $m+n$  is from 1 to 4, and  $2m+3n$  is at least 3.

2,715,140

REGENERATION OF VINYL ACETATE CATALYST  
William H. Vining, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington Del., a corporation of Delaware

No Drawing. Application December 12, 1952,  
Serial No. 325,701

3 Claims. (Cl. 260-498)

1. In the manufacture of vinyl acetate by reacting acetylene and acetic acid vapor in the presence of a catalyst consisting of active charcoal impregnated with zinc acetate the regeneration of said catalyst by treatment with superheated steam at a temperature between 400 to 900° C. for a sufficient time to regenerate its essential catalytic activity and thereafter treating said catalyst with acetic acid.

2,715,141

## OPTICALLY ACTIVE ISOPROPYL ARTERENOL

Geza S. Delmar, Baie d'Urfe, Quebec, and Ernest Nell Macallum, Lachine, Quebec, Canada, assignors to Delmar Chemicals Limited, Lachine, Quebec, Canada, a corporation of Canada

No Drawing. Application March 27, 1952,  
Serial No. 278,954

4 Claims. (Cl. 260-501)

1. A process for deriving a salt of 1-isopropylarterenol comprising reacting a mixture of equivalent amounts of

racemic isopropyl arterenol sulfate and d-tartaric acid dissolved in water with sufficient barium hydroxide to neutralize the sulfate present and form a precipitate of barium sulfate while the racemic isopropyl arterenol d-tartrate remains in solution, separating the precipitate of barium sulfate formed, and concentrating the solution of racemic isopropyl arterenol d-tartrate, resolving the concentrate by fractional crystallization from a solvent, removing the crystals of d-isopropyl arterenol-d-tartrate, concentrating the filtrate to obtain the 1-isopropyl arterenol d-tartrate, and reacting said 1-isopropyl arterenol d-tartrate with a salt selected from the group consisting of potassium sulfate and barium chloride to form the corresponding salt.

2,715,142

## PROCESS FOR PREPARING VINYL SULFONAMIDES

Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 23, 1954,  
Serial No. 412,109

8 Claims. (Cl. 260-556)

1. A vapor phase process for converting ammonium vinyl sulfonate to vinyl sulfonamide which comprises heating said sulfonate to a temperature of from 250 to 400° C. in the presence of a small amount of a material taken from the group consisting of sulfur and substituted phenols which will not vaporize at the temperature used.

2,715,143

## PROCESS FOR THE MANUFACTURE OF TETRALONES SUBSTITUTED IN THE 1-POSITION

Cyril Grob, Basel, Switzerland, assignor to Organon Inc., Orange, N. J., a corporation of New Jersey

No Drawing. Application September 23, 1949,  
Serial No. 117,486

Claims priority, application Netherlands October 2, 1948  
4 Claims. (Cl. 260-590)

1. A method of producing a tetralone compound substituted in 1-position by an alkyl group, comprising introducing into tetralone-2 substituted in positions 5 and 8 by alkoxy groups, an alkyl group in 1-position by treating an alkali metal reaction product of said 5,8-dialkoxy tetralone-2 in a liquid dispersing agent in which said alkali metal compound is insoluble, with an alkyl halide.

2,715,144

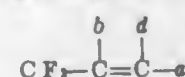
## HYDROLYSIS OF UNSATURATED FLUORINE-CONTAINING ETHERS

Robert P. Ruh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 2, 1950,  
Serial No. 165,873

2 Claims. (Cl. 260-593)

1. A method of producing fluorine-containing aldehydes and ketones that comprises subjecting a fluorine-containing ether having the general formula



in which one of the substituents  $b$  and  $d$  is a member of the group consisting of hydrogen and halogens of atomic weight less than 80 and the other is OR, and  $a$  is a member of the group consisting of hydrogen,  $-\text{CF}_3$ , and

halogens of atomic weight between 35 and 80, provided that  $a$  is not halogen when  $d$  is OR, wherein R is the residue formed by the removal of one hydroxyl group from an acyclic hydroxy-hydrocarbon having not more than four carbon atoms to the action of water in the presence of a strong mineral acid of the group consisting of sulfuric and hydriodic.

2,715,145

## MANUFACTURE OF PHENOL

Thomas Bewley, Epsom, Bertram Ernest Victor Bowen, Tonbridge, Kent, Peter Lionel Bramwyche, London, and Geoffrey William Jackson, Southborough, Kent, England, assignors, by mesne assignments, to Hercules Powder Company, a corporation of Delaware

No Drawing. Application May 29, 1950,  
Serial No. 165,101

Claims priority, application Great Britain June 3, 1949

8 Claims. (Cl. 260-621)

1. In the process for the manufacture of phenol by the decomposition of isopropyl benzene peroxides with an acidic catalyst whereby there is formed a decomposition reaction mixture comprising acetone, alpha methyl styrene, phenol, acetophenone and para alpha cumyl phenol, and wherein the acetone, alpha methyl styrene, phenol and acetophenone are substantially separated from said decomposition reaction mixture to leave a residue containing said para alpha cumyl phenol, the improvement which comprises pyrolyzing said residue at a temperature between about 200° and about 400° C. to form additional quantities of phenol and alpha methyl styrene.

## ELECTRICAL

2,715,148

## ELECTRIC STORAGE BATTERY

Carl Gritman and Charles A. Toce, Sunland, and Robert Broussard, Glendale, Calif., assignors to Electro-Acid Corporation, a corporation of Texas

No Drawing. Application April 20, 1953,  
Serial No. 349,944

3 Claims. (Cl. 136-26)

1. In a storage battery, a fluid containing case, a positive plate composed principally of lead dioxide and a negative plate composed principally of sponge lead suspended in said case and disposed out of physical contact with each other, and an electrolyte filling said case and comprising a dilute solution of sulphuric acid having a specific gravity of about 1.275 and about 0.05% to 0.15% by weight of selenium compound of the group selenic acid and selenious acid.

2,715,149

## ELECTRIC STORAGE BATTERY

John H. Joynt, Alexandria, Va., assignor to The Electro-Acid Corporation, a corporation of Texas

No Drawing. Application April 29, 1953,  
Serial No. 352,037

8 Claims. (Cl. 136-26)

1. An electrolyte for a storage battery comprising dilute sulphuric acid in the approximate proportions by volume of one-third sulphuric acid and two-thirds water, together with a water-soluble germanium-containing compound present in the approximate percentage by weight ranging from about 0.05% to about 0.2%.

2,715,146  
PROCESS AND CATALYST FOR METHYLENE CHLORIDE PRODUCTION  
Edward Boaden Thomas and Frank Hindley, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application May 17, 1950,  
Serial No. 162,606  
Claims priority, application Great Britain June 1, 1949  
1 Claim. (Cl. 260-658)

Process for the production of methylene chloride with relatively small simultaneous production of more highly chlorinated products, which comprises bringing methyl chloride and chlorine together in liquid sulphur monochloride maintained between 65 and 75° C.

2,715,147  
SYNTHESIS OF SUBSTITUTED CYCLO-OCTATETRAENES

Arthur C. Cope, Belmont, and Mark R. Kinter, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

No Drawing. Application January 19, 1951,  
Serial No. 206,924  
8 Claims. (Cl. 260-668)

1. The method of preparing phenylcyclooctatetraene which comprises heating cyclooctatetraene in a solution of a reactant of the formula RM in which R is the phenyl radical and M is a member of the group consisting of lithium and sodium in an inert atmosphere to obtain a mixture of phenylcyclooctatetraene and organometallic complexes, cooling the reaction products, decomposing the complexes so formed by hydrolysis, and separating the phenylcyclooctatetraene from the other reaction products.

2,715,150  
ELECTRIC STORAGE BATTERY  
Carl Gritman, Sunland, Robert Broussard, Glendale, and Charles A. Toce, Sunland, Calif., and John H. Joynt, Alexandria, Va., assignors to Electro-Acid Corporation, a corporation of Texas

No Drawing. Application April 28, 1953,  
Serial No. 351,744  
3 Claims. (Cl. 136-27)  
1. A storage battery electrolyte comprised of dilute sulphuric acid together with about 0.05% to 0.2% by weight of a water-soluble tellurium compound selected from the group consisting of telluric acid, tellurous acid, tellurium di-bromide, tellurium di-chloride, tellurium tetrachloride and tellurium tetra-iodide.

2,715,151  
ELECTRIC STORAGE BATTERY AND METHOD  
Carl Gritman, Sunland, Robert Broussard, Glendale, and Charles A. Toce, Sunland, Calif., and John H. Joynt, Alexandria, Va., assignors to Electro-Acid Corporation, a corporation of Texas

No Drawing. Application July 14, 1953,  
Serial No. 347,982  
9 Claims. (Cl. 136-27)

1. In the production of an electric storage battery of the lead-lead peroxide-sulphuric acid type, the method of preliminarily treating the active plate materials thereof, apart from and before they are applied to the plates themselves, comprising subjecting plate material selected from the group consisting of powdered lead, sponge lead and powdered lead peroxide to electrolytic action in the presence of a sulphuric acid electrolyte and soluble compound of an element selected from the group consisting of selenium, tellurium and germanium, for a time sufficient to plate onto the particles of the active material, a thin film of the plating material.

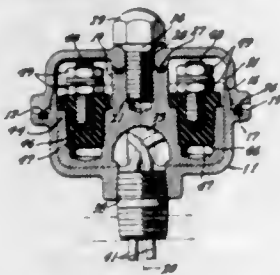


2,715,152

## SEALED CONTAINER

Vernon W. Balzer, Van Nuys, Calif., assignor to Hallett Manufacturing Company, Inglewood, Calif., a corporation of California

Application June 18, 1951, Serial No. 232,224  
2 Claims. (Cl. 174-59)



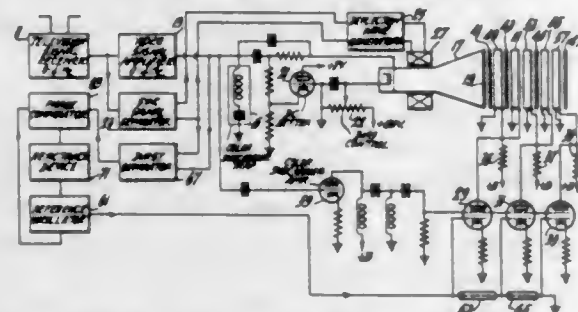
1. A sealed container comprising a generally cylindrical housing having an open face with a circumjacent rim, a continuous annular portion of said housing rim being formed as a portion of a spherical surface centered on the axis of said housing, said housing having a boss extending from the bottom thereof toward said open face, outer annular sealing means on said housing rim, inner annular sealing means on said boss, a cap disposed over said open face and engaging said sealing means to seal said housing closed, a continuous annular portion of said cap being formed as a portion of a conical surface of axis coinciding with said housing axis, said conical portion of said cap annularly engaging said spherical portion of said housing rim to effect a complete electrical seal or contact around said housing between said housing rim and said cap, and a bolt passing through said cap and through said inner annular sealing means and threaded into said boss.

2,715,153

## COLOR TELEVISION IMAGE REPRODUCTION

George Clifford Szklal, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 1, 1952, Serial No. 269,551  
9 Claims. (Cl. 178-5.4)



1. Apparatus for reproducing color images from brightness detail signals and color detail signals comprising, means responsive to said brightness detail signals for developing a black and white image, a plurality of polarizing plates, a plurality of polarization rotating electro-optical devices, said plates and said devices positioned along an optical axis of said black and white image, and means responsive to said color detail signals to energize said polarization rotating electro-optical devices in a manner to vary the polarization rotation of said black and white image in correspondence with color changes in successive elemental areas of said image.

2,715,154

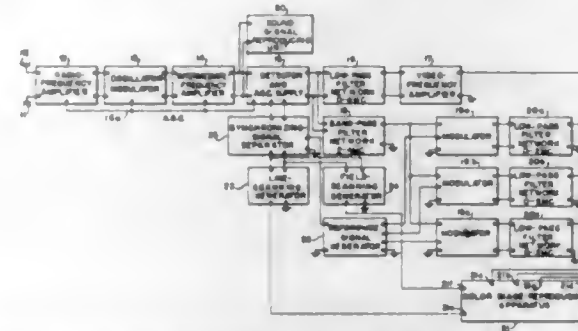
## COLOR IMAGE-REPRODUCING APPARATUS

Arthur V. Loughren, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application March 28, 1952, Serial No. 279,086  
8 Claims. (Cl. 178-5.4)

1. In a color-television receiver of the image-projection type, color image-reproducing apparatus comprising:

circuit means for supplying three signals individually representative of the intensities of three predetermined primary colors of a color image to be reproduced; an image-display screen; three image-reproducing cathode-ray devices having individual beam-deflection circuits and individually responsive to said signals for developing substantially monochromatic color images individually rep-



representative of said primary colors of said image; an optical system for projecting said reproduced images on said screen, said optical system including lens means having a focal length varying with wave length and dichroic mirror means intermediate said devices and said lens means for reflecting said reproduced images to said lens means; said devices being spaced from said lens means by different distances proportioned in accordance with the equation

$$d = \frac{(i)(f_A)}{(i-f_A)}$$

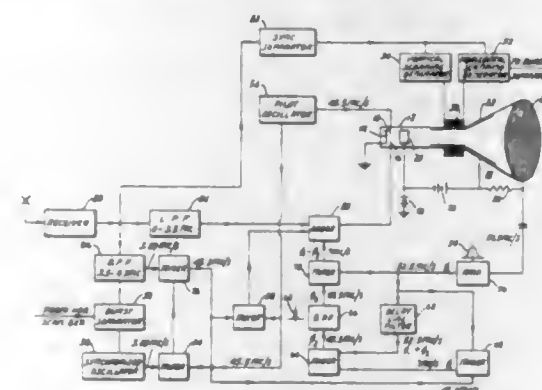
where the parameters are as defined in the specification, to compensate for said variation in focal length; and adjustable line-scanning and field-scanning signal-supply circuits coupled to said beam-deflection circuits for adjusting the relative dimensions of said reproduced images to values directly proportional to said distances individually corresponding thereto for compensating for said different distances to register said images on said screen.

2,715,155

## ELECTRICAL SYSTEMS

James S. Bryan, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application July 11, 1952, Serial No. 298,248  
16 Claims. (Cl. 178-5.4)



1. An electrical system comprising a source of a first signal having a first given nominal frequency value and undergoing frequency variations about said nominal frequency value and having phase variations determined by the said frequency variations, means to derive from said first signal a second signal having a second nominal frequency value and having frequency variations about said second nominal frequency value determined by the frequency variations of said first signal, said second signal having first phase variations determined by the phase variations of said first signal and having second phase variations determined by the frequency variations of said first signal and by said deriving means, means to derive a first heterodyne signal from said second

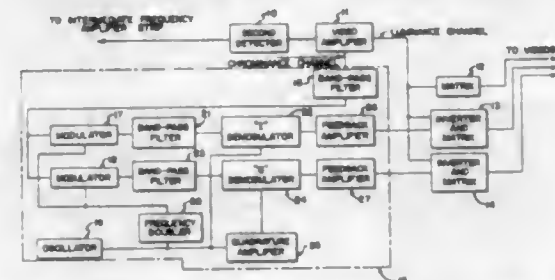
signal and a third signal having a third nominal frequency value and frequency variations about said third nominal frequency value and phase variations as determined by the frequency and phase variations of said first signal, said first heterodyne signal having a fourth nominal frequency value and having phase variations determined by the said second phase variations of said second signal, and means to combine said first signal and said first heterodyne signal to produce a second heterodyne signal having a fifth nominal frequency value, said second heterodyne signal having frequency variations about said fifth nominal value determined by the said first mentioned frequency variations and having phase variations substantially equal to the difference between the phase variations of said first signal and the phase variations of said first heterodyne signal.

2,715,156

## CHROMINANCE CHANNEL CIRCUITS

Arthur L. Hammond, Los Angeles, Calif., assignor to Hoffman Radio Corporation, a corporation of California

Application January 18, 1954, Serial No. 404,545  
4 Claims. (Cl. 178-5.4)



1. A phase restorer circuit for employment in the I and Q demodulator branches of the chrominance channel of a color television receiver to restore the phase relationships between the chroma sidebands and the chroma sub-carrier to those existing immediately prior to the selection of such sidebands and carrier by a chrominance channel selective filter, said phase restorer circuit including, in combination, a modulator stage having two input terminals and an output terminal, a phase restorer filter having sideband phase shift characteristics corresponding to those of said chrominance channel selective filter, a local oscillator, and a frequency multiplier, said local oscillator being coupled through said frequency multiplier to one of said input terminals of said modulator, the remaining input terminal of said modulator being adapted for coupling to said chrominance channel selective filter, and said phase restorer filter being coupled to said output terminal of said modulator.

2,715,157

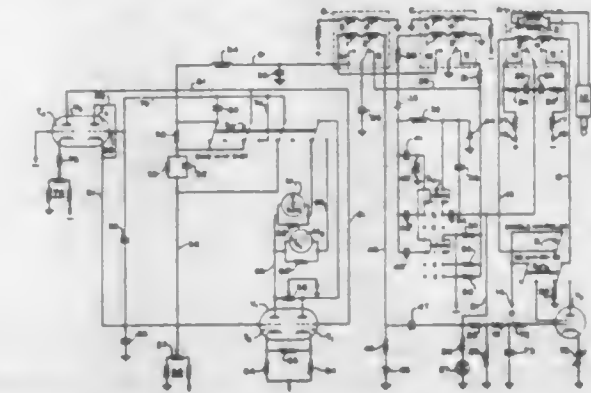
## TELEGRAPH SIGNAL BIAS AND DISTORTION METER

William D. Cannon, Metuchen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application March 5, 1954, Serial No. 414,418  
20 Claims. (Cl. 178-69)

1. In a telegraph bias meter for indicating the amount of marking or spacing bias present in incoming permutation code signals, a timing capacitor for temporarily storing a charge corresponding to the length of each individual spacing signal as received, means responsive to a signal transition from marking to spacing for applying to said capacitor a charging potential to cause the voltage across the capacitor to rise proportionally with time during the interval of each said spacing signal, an integrating capacitor and means responsive to a succeeding transition from spacing to marking for transferring the charge on said timing capacitor to said integrating capacitor, means including said integrating

capacitor and a source of reference voltage representing an unbiased spacing signal interval for determining the magnitude and polarity of the difference voltage between said reference voltage and the voltage appearing across said integrating capacitor representing the average length of the individual spacing signals being received, an indicating device controlled by said difference voltage for indicating the amount of marking

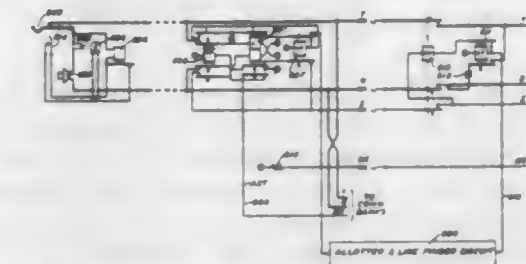


or spacing bias present in said signals, and means for preventing the charge on said integrating capacitor from leaking off to said indicating device comprising vacuum tube structure having anode, cathode and control electrodes and including circuit connections for applying said difference voltage to a control electrode of the vacuum tube structure and for energizing said indicating device from an anode-cathode circuit of said structure.

2,715,158

## SIGNALLING SYSTEM

John A. Hall, Summit, N. J., assignor to Stromberg-Carlson Company, a corporation of New York  
Application October 31, 1951, Serial No. 254,058  
3 Claims. (Cl. 179-18)



1. In a dial telephone system, a common battery subscriber's station, a line circuit therefor including connections for transmitting current of a first polarity to said station, selectors for extending connections from said station each including connections for transmitting current of a second polarity to said station, connectors accessible to said selectors each including connections for transmitting current of a second polarity to said station and means for reversing the polarity thereof, trunk circuits leading to long lines accessible to said selectors each including connections for transmitting current of a first polarity to said station and means for reversing the polarity thereof, said subscriber's station including a dial for controlling said selectors and said connectors, a start dial signal, and polarized means responsive to the polarity of current transmitted to said station for controlling said signal.

2,715,159

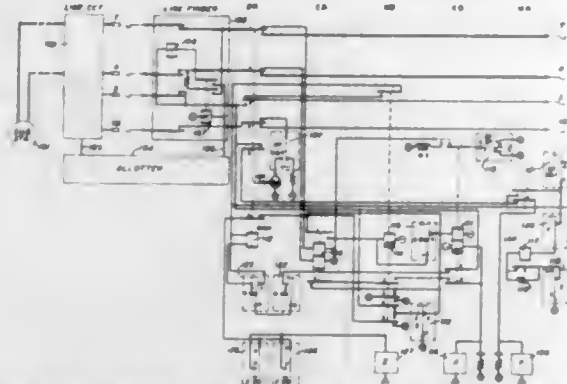
## TELEPHONE SYSTEM

William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application November 20, 1952, Serial No. 321,548  
16 Claims. (Cl. 179-18)

3. In a telecommunication system, a switch having a set of brushes, a bank of terminals in cooperative relationship with said brushes, said terminals being arranged in a plurality of rows each having a plurality of termi-



nals, said switch having means to move said brushes in a primary movement into cooperative relationship with a given row of said terminals and in a secondary movement into cooperative relationship with given terminals in said selected row, a release magnet for said switch, a resistor, means for conjointly energizing said release

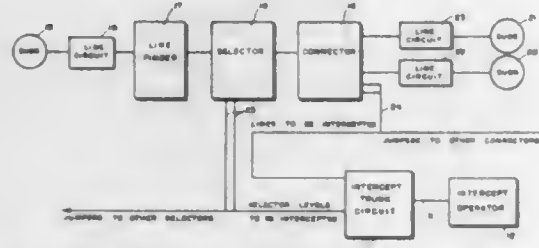


magnet and through said resistor said means for moving said brushes in a primary direction and means responsive to release of said brushes in their secondary direction for shunting said resistor to increase the energization of said means to further move said brushes in their primary direction.

2,715,160

**INTERCEPTING TRUNK CIRCUIT**

William W. Pharis, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application July 26, 1952, Serial No. 301,011  
9 Claims. (Cl. 179-27)



2. In an automatic telephone system of the type having selector circuits and connector circuits, with each connector circuit having a transmission bridge and a ring tripping relay, each of said connector and selector circuits having tip, ring and sleeve leads and a plurality of tip, ring and sleeve terminals, the intercept trunk circuit directly connected to selected ones of the tip, ring and sleeve terminals of both selector circuits and connector circuits to be intercepted including in combination, an intercept operator trunk line, intercept operator signal means, an intercept operator cord circuit, first means responsive to the positioning of the connector at the selected connector terminals to be intercepted and operative to activate said signal means, second means responsive to the positioning of the selector at selected terminals to be intercepted in a selector level and operative to activate said signal means and connect the selected terminals to said intercept operator trunk line and to also connect a busy signal to the selected ones of the sleeve terminals of the connector circuit, and third means responsive to the connection of said intercept operator's cord circuit with said trunk line to deactivate said signal means, said first means when operated being effective to connect a busy signal to the selected ones of the sleeve terminals of the selector circuit.

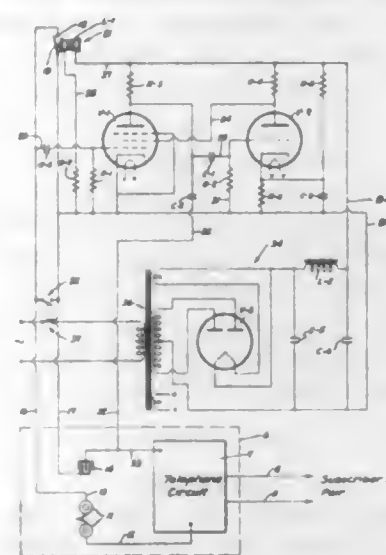
2,715,161

**TELEPHONE DEVICE**

Irving Lutz and Julian H. Silverman, Oakland, Calif.; said Silverman assignor to said Lutz  
Application December 31, 1952, Serial No. 328,896  
5 Claims. (Cl. 179-84)

1. In telephone apparatus including a subscriber's bell ringing circuit and bell therein, first means adapted for

connection in said circuit and being responsive to an incoming ringing signal to open the circuit to and thereby prevent ringing of said bell, second means coacting with

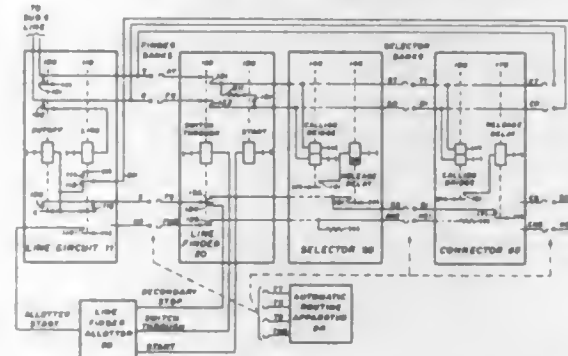


said first means to introduce an advising signal into said circuit, and timing means functioning after the duration of a predetermined time to render inoperative said first and second means and restore bell ringing operation.

2,715,162

**AUTOMATIC ROUTINE APPARATUS**

Sherman B. Weiner, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application September 21, 1954, Serial No. 457,389  
17 Claims. (Cl. 179-175.2)



1. In a telephone system, a line finder, a line finder operative to connect with said line circuit, automatic routine apparatus, means for connecting said automatic routine apparatus to said line circuit, means in said automatic routine apparatus for testing said line circuit, means in said automatic routine apparatus for thereafter causing said line finder to connect with said line circuit, and means in said automatic routine apparatus for thereafter testing said line finder.

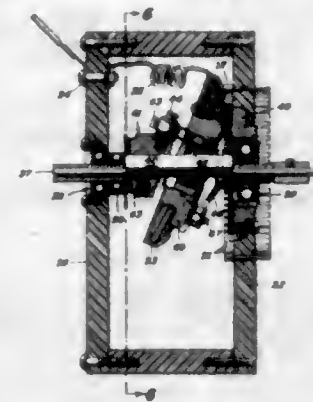
2,715,163

**HIGH SPEED SAMPLING SWITCH**

Thomas J. Haviland, Brookville, Md., assignor to the United States of America as represented by the Secretary of the Navy  
Application August 25, 1952, Serial No. 306,165  
1 Claim. (Cl. 200-27)

An electrical switch comprising, a first panel, a plurality of spaced annularly arranged contacts mounted on said first panel, a second panel spaced from said first panel and cooperating therewith to define a housing, a shaft having an eccentric intermediate portion in the housing, a spherical bearing mounted on said eccentric portion, a switch element including a disk having a conductive rim mounted thereon and electrically insulated therefrom, said rim being selectively engageable with said contacts, said disk being mounted for rotating motion upon said spherical bearing, an arm fixed on said eccentric portion of said shaft between said disk and said

first panel, a first roller mounted on said arm and bearing on said disk, an angle block fixed to said eccentric portion adjacent said second panel, a pair of rollers mounted

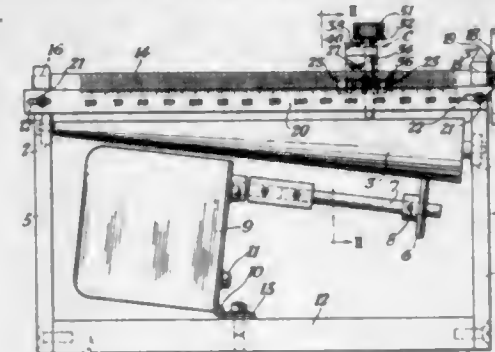


on said angle block and bearing on said disk, a first annular gear mounted on said first panel, and a second annular gear mounted on said disk and meshing with said first gear to prevent rotation of said disk.

2,715,164

**CODE GENERATING DEVICE**

Andrew Hufnagel, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania  
Application May 21, 1952, Serial No. 289,066  
3 Claims. (Cl. 200-30)



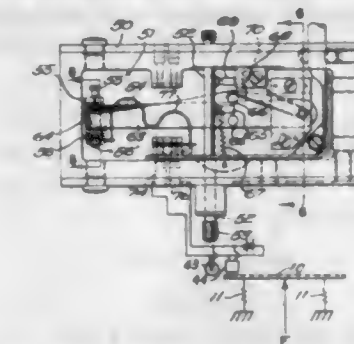
1. A code generating device comprising a tapered roller which is rotatably mounted and driven at a constant angular velocity, a threaded shaft which is rotatably mounted parallel to the uppermost element of said tapered roller, means for at times rotating said threaded shaft, a movable carriage having an operatively connected cam and friction wheel rotatably mounted therein and a contact assembly including a first and second contact members mounted thereon, said carriage being provided with a threaded portion engaging and cooperating with said threaded shaft so that when said threaded shaft is rotated said carriage moves axially along said threaded shaft, the parts of said carriage being so proportioned that said friction wheel is biased into engagement with said tapered roller by the weight of said carriage, said first contact member adapted to be actuated by said cam, said second contact member adapted to be engaged by said first contact member when said first contact member is actuated by said cam, and means for adjusting the spacing between said contact members.

2,715,165

**ECCENTRIC TOLERANCE INDICATOR**

Roger E. Matter and Raymond H. Miller, Cranston, R. I., assignors to Federal Products Corporation, a corporation of Rhode Island  
Application March 16, 1953, Serial No. 342,396  
10 Claims. (Cl. 200-61.41)

1. An eccentric tolerance indicator comprising mounting means, spaced abutments, means coupling said abutments a finite distance apart for simultaneous movement, said abutments movably mounted for frictional engagement with said mounting means, actuating means movably mounted between said abutments for engagement

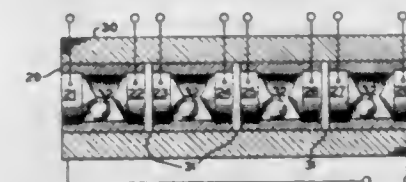


gement and oscillate therebetween, and indicating means responsive to excessive oscillation of said actuating means.

2,715,166

**ELECTROMAGNETIC RELAY**

Clyde J. Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York  
Application December 3, 1952, Serial No. 323,808  
2 Claims. (Cl. 200-103)



1. An electromagnetic relay of the class described comprising a coil, a housing for radially supporting said coil, a plurality of armatures, a plurality of pairs of tapered pole members positioned in a spaced relationship within said housing so that the apices of each pair of said pole members are separated a distance less than the diameter of one of said armatures, each of said armatures being loosely arranged within said housing intermediate a related pair of said pole members and being movable to electrically connect a related pair of said pole members in response to an energizing current through said coil, and means for electrically insulating each pair of said plurality of pairs of pole members one from the other so as to provide a corresponding number of separate switches.

2,715,167

**THERMOSTATIC SWITCH**

Charles S. Mertler, Mansfield, Ohio, assignor to Stevens Manufacturing Company, Inc., Lexington, Ohio, a corporation of Ohio  
Application July 25, 1950, Serial No. 175,696  
24 Claims. (Cl. 200-138)



1. An electrical switch comprising an over-center spring, means supporting said spring at only one end thereof, means providing an electrical contact on said spring adjacent the other end thereof, a second electrical contact supported for engagement by the first-mentioned contact, an elongated non-stressed bimetallic member having a planar portion adapted to flex relative to said spring in response to changes in temperature, means supporting said bimetallic member in non-stressed condition and in a position for good heat exchange relationship with a surface subject to variations in temperature, motion transmitting means intermediate the said planar por-



tion of the bimetallic member and said spring exerting force upon the latter when the said bimetallic member flexes a predetermined amount thereby snapping said spring over-center to effect movement of the contact thereon relative to said second contact, and means acting on said spring to effect automatic resetting of the latter to its initial position after flexure of said bimetallic member has been reduced below said predetermined spring-operating amount.

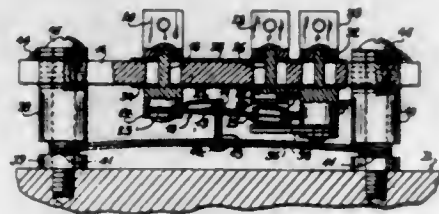
2,715,168

**ELECTRIC SWITCH**

Charles S. Mertler, Mansfield, Ohio, assignor to Stevens Manufacturing Company, Inc., Lexington, Ohio, a corporation of Ohio

Application October 29, 1952, Serial No. 317,475

21 Claims. (Cl. 200—138)



2. An electric switch comprising an over-center spring having a disk portion provided with a convex-concave curvature adapted to be reversed upon application of a predetermined force thereto, means supporting said spring at a single location adjacent the circumference of said disk portion thereof, contact means connected with said spring adjacent the circumference of said disk portion and diametrically opposite said supporting means location and free to move from one to the other of two positions upon reversal of curvature of said disk portion of said spring, a stationary contact adapted to be engaged by said contact means in one position of said spring, thermal responsive means having a portion adapted to move relative to said spring in response to changes in temperature and exert force on one side of said disk portion of said spring to effect reversal of the direction of curvature thereof thereby rapidly moving said contact means from one to the other of its two positions, and means engaging the other side of said disk portion of said spring and applying a restoring force thereto for return of said spring and contact means to their initial positions when the force exerted by said thermal responsive means is reduced below a predetermined value.

2,715,169

**SWITCH CONTACT**

Vernon L. High, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application July 21, 1950, Serial No. 175,054

5 Claims. (Cl. 200—166)



1. A switch contact of the class described, comprising a flat base member having a depression therein defined by side edges and a bottom wall, a contact disk having a frusto-conical peripheral wall inlaid in said depression with the bottom of said disk engaging said bottom wall of said depression, a bead in the face of said base member adjacent said depression engaging said frusto-conical peripheral wall on the contact disk, said bead having a serration formed therein between the sides thereof by plastically deforming the metal of the bead adjacent said engaging edge to secure said contact firmly in place.

2,715,170

**METHOD AND MEANS FOR INDUCTIVELY HEATING NARROW ELONGATED PORTIONS OF CYLINDRICAL BODIES**

Phillips N. Sorensen, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Original application April 7, 1949, Serial No. 86,066. Divided and this application September 14, 1950, Serial No. 184,745

9 Claims. (Cl. 219—10.53)



2. In a high-frequency inductor, three parallel-extending, spaced conductors electrically connected in a parallel electric circuit at their respective ends, the central conductor only of said three conductors being generally centrally divided whereby said inductor may be electrically energized and a pair of rigid conductors extending transversely, one from each side of the conductor-division point, providing both electrical connections and physical support for said inductor.

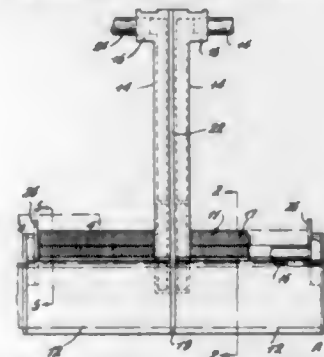
2,715,171

**HIGH-FREQUENCY INDUCTOR ARRANGEMENT**

James W. Williamson, Warrensville Heights, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Application October 7, 1953, Serial No. 384,546

2 Claims. (Cl. 219—10.79)



1. In a high-frequency inductor adapted to heat narrow, elongated portions on a metallic workpiece comprising first and second conductors angularly connected to each other, said first conductor being generally elongated and having a narrow elongated workpiece-facing surface, magnetically-permeable material positioned about the surfaces of said first conductor other than said workpiece-facing surface and along at least portions of its length, an end of said material being adjacent the point of connection of said conductors and flux-shielding means for said end, the improvement which comprises said second conductor having transverse dimensions at least as great as the transverse dimensions of said magnetic material and forming said flux-shielding means.

2,715,172

**DEEP-HOLE ELECTRODE**

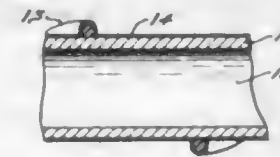
John S. Larkins, Jr., Detroit, Mich., assignor to Elox Corporation of Michigan, Clawson, Mich., a corporation of Michigan

Application November 28, 1952, Serial No. 323,101

6 Claims. (Cl. 219—15)

1. An electrode for cutting deep holes in metal workpieces by electrical discharge therefrom comprising, an elongated body member of electrically conductive material, a passageway in said body member to provide flow of coolant into the hole, a guide member of dielectric material secured to said body member and adapted to

engage the wall of said hole thereby to provide clearance between said wall and said body for flow of coolant out



of said hole and to center said body in said hole during cutting.

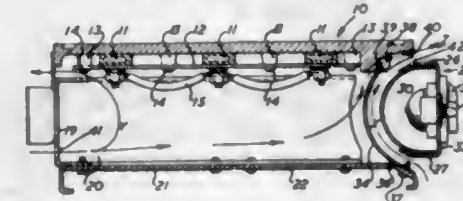
2,715,173

**PANCAKE GRILL CONTROL HOUSING CONSTRUCTION**

William James Farquharson, Toronto, Ontario, Canada

Application June 14, 1951, Serial No. 231,551

1 Claim. (Cl. 219—19)



A cooking grill construction, comprising in combination: a grill plate having heating means therefor; means for supporting said grill plate; an outer wall having an upper edge outwardly spaced from a marginal edge of the grill plate to define a slot therebetween; an inner shield having an upper edge spaced from the said marginal edge of said grill plate to define an opening therebetween through which heated air from the under surfaces of said grill plate may pass; and means supporting said inner shield in spaced apart relation to said outer wall to define a passageway therebetween through which cool exterior air may be drawn to said opening by the escape of heated air from the latter; said means for supporting the grill plate being in the form of an inner housing and said outer wall forming a part of an outer housing; and orifices in said inner housing permitting air to flow into the interior thereof and when heated, to flow toward the said opening between the grill plate and the inner shield.

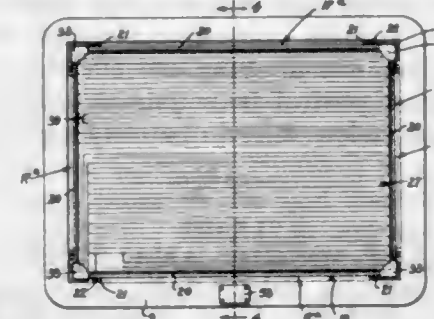
2,715,174

**ELECTRICAL RESISTANCE SPACE HEATERS**

Max Nathanson, Montreal, Quebec, Canada

Application April 6, 1953, Serial No. 346,999

19 Claims. (Cl. 219—19)



17. In a heater of the character described, a plate member provided with marginal walls defining a recess, panel supporting insulators arranged in said recess in spaced relation to each other and adjacent said walls, resiliently yieldable cushioning spacers arranged between and in contact with opposing surfaces of said walls and said insulators, the cushioning spacers associated with each insulator being separated by intervening air spaces from the cushioning spacers associated with the next adjacent insulators and a heat radiating panel supported in said recess in spaced relation to said plate member and said walls by supporting engagement of the marginal portions of said panel with said insulators.

2,715,175

**ICE CREAM SPOON**

James H. Jacobson, Chicago, Ill.

Application June 9, 1952, Serial No. 292,406

2 Claims. (Cl. 219—21)



1. A dipping spoon for thermoplastic materials, comprising: an insulating handle portion having a hollow passage therein and an electric socket at one end; electric leads within the passage connected to said socket; a removable spoon portion including a heat conducting bowl and a heat conducting shank, the shank including a portion having a hollow chamber adjacent to the outer end thereof and a connector extending into the chamber and having its outer end removably received in said socket; an electric heating element carried by the connector and extending into the chamber; and means operatively associated with said spoon portion shank and said heating element for adjusting the position of the heating element relative to the chamber for controlling heat transfer to the shank and thus to the bowl of the spoon portion.

2,715,176

**HEATING METHOD AND APPARATUS AND CONTROL MEANS THEREFOR**

Fritz Schöberle, Hamburg, Germany

Application February 2, 1953, Serial No. 334,418

8 Claims. (Cl. 219—37)



1. Heating apparatus comprising, in combination, a support; electrical heating means located on said support and having a free top face against which a subject to be heated is placed; a plate mounted on said support adjacent said heating means for substantially vertical movement upwardly to and downwardly from a rest position where said plate is located above the level of said top face of said heating means; a switch located in the circuit of said heating means and being movable between closed and open positions for turning said heating means on and off, respectively; a pendulum connected to said switch for moving the same between said closed and open positions thereof; an arm fixed to said pendulum and engaging a stationary part of said support; and connecting means interconnecting said pendulum and plate for vertical movement together and supporting said pendulum for free swinging movement so that upon movement of said plate said arm co-operates with said stationary part of said support for swinging said pendulum to operate said switch.

2,715,177

**SPACE HEATER ATTACHMENT**

Albert A. Pfingsten, Green Bay, Wis.

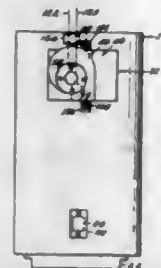
Application March 18, 1953, Serial No. 343,013

10 Claims. (Cl. 219—39)

8. A space heating device, comprising: a tubular heat-storage tank having water therein; electrical means for



heating said water; means including a belt-like channelized member and side wall portions of said tank defining an air duct against and substantially around the outer surface of the side walls of said tank, said duct having an inlet opening and outlet opening through the ends of said duct; complementary clamping means on the ends of said belt-like member for drawing said member securely around said tank; a housing divided into two



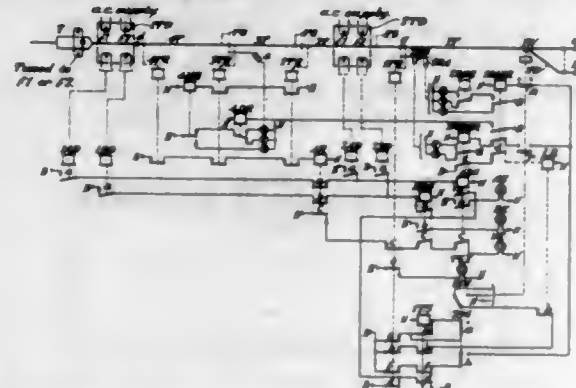
compartments, one of said compartments having a shutter controlled port communicable with the atmosphere, and the other compartment having a shutter controlled port communicable with the atmosphere and also an aperture open to the atmosphere; a pair of passageways projecting from said housing, each passageway communicating with one of said openings and one of said compartments; a blower connected to said aperture; and means for supporting said housing adjacent said openings.

2,715,178

## TRAIN DESCRIBER SYSTEM

William Bruce Coughlin, New York, N. Y., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application June 16, 1951, Serial No. 231,951  
7 Claims. (Cl. 246—124)



1. A train describer system for a stretch of railway track traversed by trains equipped with devices which identify the routes for such trains, an approach zone in said stretch, a wayside station at a point in said stretch at one end of said approach zone, a first transmitter at a point in said stretch at the other end of said approach zone, a second transmitter at a point within said approach zone, a storage indicator at said station adapted to store the route indications only one at a time, and to display each indication when stored, train carried means for momentarily and selectively actuating each transmitter upon the passage of a train to identify such train, means controlled by each transmitter when actuated for correspondingly actuating said indicator, said first transmitter being effective only if actuated when the approach zone is not occupied, and means for releasing said indicator to cancel the stored indication when a train enters the portion of track adjacent said station.

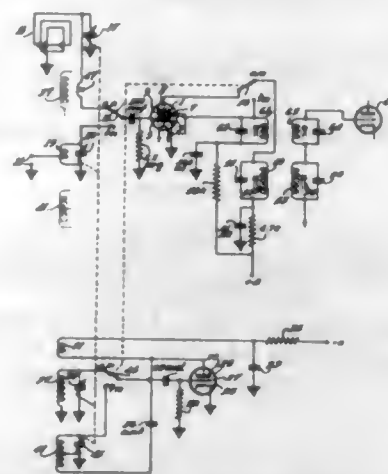
2,715,179

## SUPERHETERODYNE MIXER CIRCUIT

Edwin Cornet, Bellmawr, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application June 28, 1951, Serial No. 234,038  
7 Claims. (Cl. 250—20)

1. In a signal receiving system an electronic device comprising a cathode, an anode, a control grid and screen

grid electrodes, first and second output circuits the second of which is connected permanently to said screen grid, a source of operating potential for said anode and screen grid connected with said first and second output circuit,



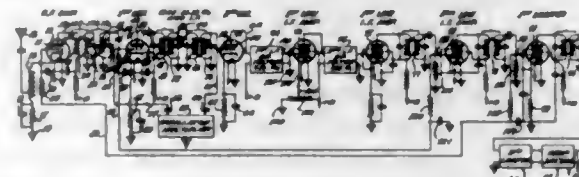
and switch means for connecting said anode to the first of said circuits for screen grid operation therewith or to said screen grid for triode operation with said second circuit.

2,715,180

## NARROW-BAND COMMUNICATION RECEIVERS

AND THE LIKE

Roy A. Beers, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application November 20, 1951, Serial No. 257,343  
7 Claims. (Cl. 250—20)



1. In a high-frequency signal receiving system, the combination with a signal conveying channel comprising a radio-frequency amplifier stage, a succeeding mixer stage and successive signal stages, of means for applying automatic gain control potentials to said amplifier and mixer stages in sequence comprising, means for deriving automatic gain control potential in the system at one of said successive signal stages in said channel, said last named means being responsive to a predetermined low signal level for effecting application of automatic gain control potentials to said amplifier stage, and additional means at another of said signal stages successively less advanced in said signal conveying channel with respect to said mixer stage for deriving and effecting application of automatic gain control potentials to said mixer stage in response to a predetermined relatively high signal level.

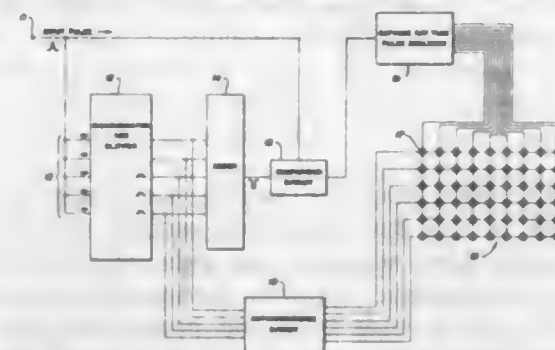
2,715,181

## PULSE HEIGHT ANALYZER

William E. Glenn, Jr., Schenectady, N. Y., and Almon E. Larsh, Jr., Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission  
Application November 18, 1952, Serial No. 321,257  
5 Claims. (Cl. 250—27)

1. An improved pulse height analyzer comprising an input terminal adapted to receive a voltage pulse to be analyzed, a discriminator having a plurality of channels connected to said input terminal and producing identical pulses from each channel triggered by said input pulse, an adding circuit combining the output pulses of said discriminator, a comparison circuit connected to said input circuit and to said adding circuit for producing a pulse equal to the difference between said input pulse and said combined discriminator pulses, a pulse analyzer con-

nected to said comparison circuit and having a plurality of output circuits corresponding to different input voltages and energizing one of said circuits in accordance with the pulse from said comparison circuit, a matrix including a plurality of coincidence circuits and having vertical and horizontal channels with the vertical channels connected one to each output circuit of said pulse analyzer, and an



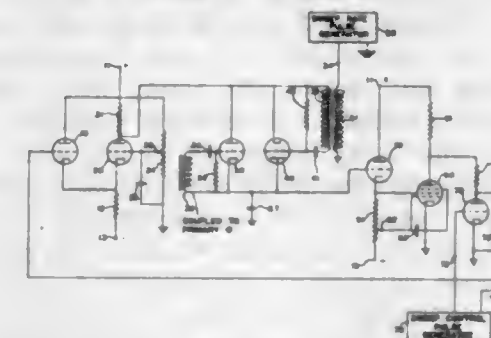
anticoincidence circuit connected to the output circuits of said discriminator and having a plurality of output circuits connected one to each of said matrix horizontal channels, said anticoincidence circuit energizing a single output circuit having a voltage level corresponding to the combined input signal thereto whereby one input pulse operates a single coincidence circuit or said matrix as an indication of the height of said input pulse.

2,715,182

## VARIABLE RATE SWEEP VOLTAGE GENERATOR

Amasa S. Bishop, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application April 3, 1945, Serial No. 586,418  
4 Claims. (Cl. 250—27)



1. In sweep voltage developing apparatus, energy storage means, differential amplifier means, means for impressing a portion of the energy stored in the said storage means upon the differential amplifier means, clamping circuit means including a plurality of thermionic tubes, means for impressing signals developed by the differential amplifier upon the clamping circuit, means for impressing an electrical pulse upon the clamping circuit whereby said clamping circuit is responsive for the duration of said pulse to the said electrical signals impressed thereon by the differential amplifier, cathode follower means, means for impressing signals developed by the clamping circuit upon the cathode follower means, amplifier means responsive to the output of the said cathode follower means, and means for utilizing energy from said amplifier means to control the rate of storage of energy of said energy storage means.

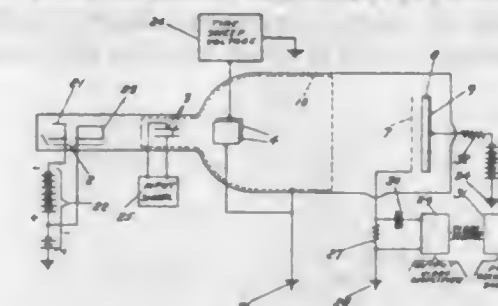
2,715,183

## ELECTRON DISCHARGE DEVICES

Hans Klempner, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
Application November 25, 1947, Serial No. 787,873  
7 Claims. (Cl. 250—27)

1. An electron discharge device circuit comprising an electron gun for projecting a beam of electrons; a poten-

tial storing target having a potential storing surface in the path of projection of said beam; an electrode closely adjacent and capacity coupled to said surface; said potential storing surface being disposed between said electron gun and said electrode; a source of fixed voltage coupled to said electrode and said gun for applying a predetermined fixed



voltage positive with respect to said gun to said electrode; an electron permeable collector means closely adjacent and spaced from said target surface on the side thereof facing said gun; and means directly electrically connected to said collector means including means for deriving an output signal therefrom.

2,715,184

## AERIALS

Edward Cecil Cork, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain  
Application September 24, 1947, Serial No. 775,783  
Claims priority, application Great Britain October 1, 1946  
5 Claims. (Cl. 250—33)



1. An aerial coupled with apparatus for operation in a wide band of frequencies extending over at least 8 per cent of the mean frequency in the range of said band, said aerial comprising a thin conductor having one end coupled to said apparatus and its other end left free, a plurality of series capacities having small impedances at the operating wavelength compared with the impedance of said conductor without said capacities, said capacities having magnitudes increasing towards the free end of said conductor and being disposed along the length of said conductor at intervals smaller than one quarter of the operating wavelength, said intervals and the magnitudes of said capacities being proportioned to tune said aerial for operation in said band with a reflection coefficient of less than 10 per cent.

2,715,185

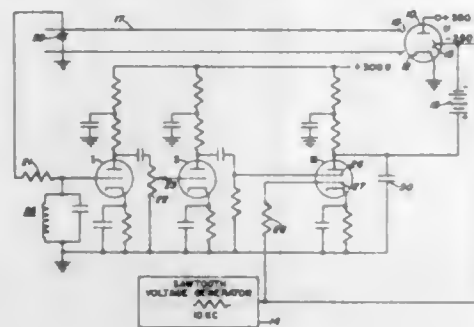
## AUTOMATIC CONTROL SYSTEM

Conrad W. Roeschke, Albuquerque, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission  
Application October 7, 1952, Serial No. 313,460  
3 Claims. (Cl. 250—36)

1. A system of apparatus for controlling the central frequency of a klystron oscillator operating in a chosen mode and provided at least with an anode, a grounded cathode and a repeller electrode comprising, in combination, sources of positive and negative voltages for the anode and the repeller electrode respectively, means for



modulating the repeller voltage at a chosen frequency thereby correspondingly modulating the frequency and energy output of the oscillator, means for transmitting the energy radiated, detection means included in the transmitting means for deriving a voltage representing the modulation component of the transmitted energy to the exclusion of other components thereof including a parallel resonant circuit in shunt with the detection means



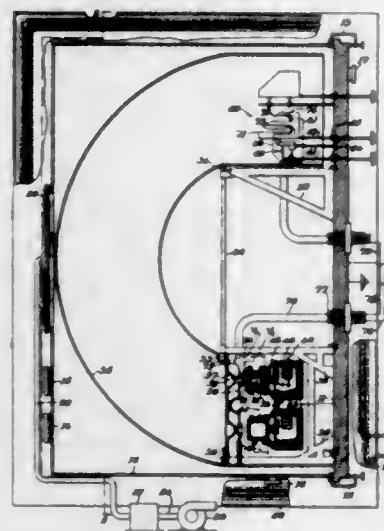
and tuned to the modulation frequency, means for amplifying the voltage across the shunt circuit and a mixing circuit including a vacuum tube having an anode, two grids and a cathode, power supplies for said amplifying means and said vacuum tube, one of said grids receiving the amplified voltage while the other grid receives from the modulating means a voltage in phase with the modulating voltage, the anode-cathode path of said tube being in series with the source of repeller voltage.

2,715,186

**ISOTOPE SEPARATING APPARATUS**

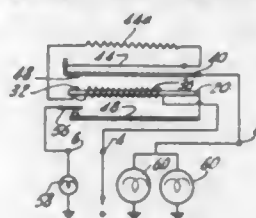
Harvard L. Hull and Stephen M. MacNelle, Oak Ridge, Tenn., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application October 21, 1946, Serial No. 704,574  
5 Claims. (Cl. 250-41.9)



1. In an isotope separator, apparatus for projecting a beam of positive ions of the material the isotopes of which are to be separated, comprising, in combination, a container for said material in its solid state, means associated with said container for radiating heat onto said material for vaporizing the same, an ionization chamber communicating with said container for receiving said vapor, means for ionizing said vapor within said ionization chamber, said chamber being apertured at one end to allow ions to escape therefrom in the form of a beam, an accelerating electrode system, including two apertured electrodes sequentially spaced adjacent said chamber, for withdrawing a beam of positive ions from said chamber and through the apertures in said electrodes, and means for controlling said heat radiating means in response to the drain current to the first of said electrodes.

2,715,187  
**ELECTROMAGNETIC FLASHER**  
Joseph Schmidinger, Lake George, N. Y.  
Application August 19, 1952, Serial No. 305,103  
13 Claims. (Cl. 307-132)

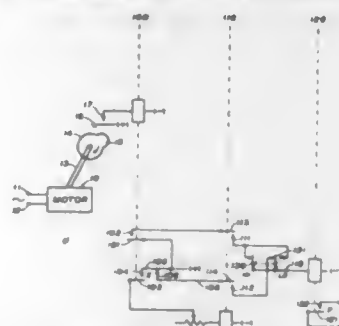


12. In an electromagnetic switch, an insulating support formed with a flat supporting surface and with an upstanding shoulder adjacent one side of said surface, a flat core of magnetic material having the contour of the letter U with a wide base and broad legs, the base of the core adjacent one leg lying flush on said flat supporting surface and against said shoulder, a thin sheet of insulating material overlying the part of said core disposed on said surface and the adjacent leg of the core, the insulating sheet being bent through a right angle at the junction of the flat surface and shoulder and extending beyond the shoulder, a plate of magnetic material overlying the part of said insulating sheet disposed on said core, means passing through aligned holes in said core, sheet and plate and serving to clamp said plate, sheet and core to said insulating support, a flat armature spring-mounted on said plate over a leg of said core and adapted when in attracted position to engage the flat surface of the other leg of the core, a coil insulatedly wound on the core, one end of said coil being electrically connected to said core, an eyeleted projection integral with said plate and upstanding therefrom, an expansible wire insulatedly anchored intermediate its ends in the eyelet of said projection and secured at one end under tension to the free end of said armature, the tension in said wire opposing said spring and acting when the wire is cool to hold the armature in retracted position, the other end of said wire being connected to said core, the part of the wire between the point of anchorage in the eyelet and the core being under no appreciable longitudinal tension and serving as a ballast resistor, the part of said insulating sheet extending beyond said shoulder serving to support said ballast resistor part of said wire, and at least two terminals mounted on said insulating support, one of said terminals being connected to the other end of said coil and another of said terminals being connected through said clamping means to said plate.

2,715,188

**PULSE GENERATOR**

Donald F. Jamieson, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York  
Application March 9, 1954, Serial No. 415,111  
3 Claims. (Cl. 307-132)

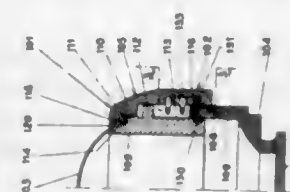


3. A variable percentage make pulse source including in combination, a first source of intermittently pulsed current having a fixed percentage make interval, a second source of continuous current, a first set of pulsing contacts including a pair of make contacts, a second set of pulsing contacts including a pair of preliminary make

contacts and a pair of break contacts, means to operate said first and second set of contacts during the make interval of said first current source in a manner to close the make contacts of said first and second sets of contacts and open the break contacts after the closure of the preliminary make contacts of said second contact set, a relay, a rheostat, means to connect the operate winding of said relay in series with said rheostat to said second current source through said pair of preliminary make contacts to thereby energize the operating coil of said relay during the make interval of said first current source, said rheostat being adjustable to vary the operate time of said relay and at the same time vary the current flow through said relay and hence the relay saturation and its release time, said relay having first and second pairs of make contacts, a common output pulse lead, a double pole double throw range switch, means to connect said output lead through one pole of said switch in one position to the first pair of make contacts of said relay and the make contacts of said first set of contacts to said second current source, means to connect said output lead through the other pole of said switch in the one position to the second pair of make contacts of said relay and the pair of break contacts of said second set of contacts to said second current source whereby an intermittent pulsed current is produced in said output lead with a percentage make interval variably determined by the adjustment of said rheostat as affecting both the operate and release time of said relay with said switch in the one position, and means to connect said output lead through only one pole of said switch in the other position to the first pair of make contacts of said relay and the make contacts of said first set of contacts to said second current source whereby an intermittent pulsed current is produced in said output lead with a percentage make interval variably determined by the adjustment of said rheostat as affecting the operate time only of said relay with said switch in the other position.

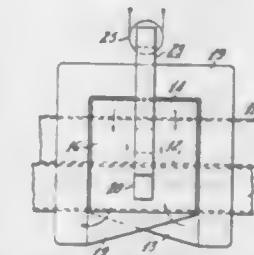
2,715,189  
**APPARATUS FOR EMITTING AND RECEIVING ELASTIC WAVES**

Ivan H. Ots, Mont-sur-Marchienne, Belgium, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium, a company of Belgium  
Application September 11, 1951, Serial No. 246,014  
Claims priority, application France September 14, 1950  
7 Claims. (Cl. 310-8.7)



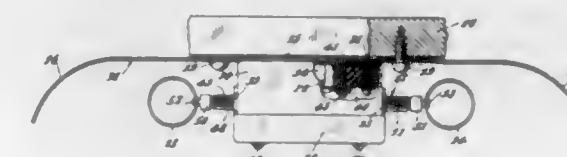
1. In apparatus for emitting and receiving elastic waves such as supersonic waves, the combination of a vibratile member and wave transmitting means comprising a hollow liquid container and a body of liquid through which said waves are transmitted confined in the container, said container comprising an annular wall, one end of said container being closed by said vibratile member a highly elastic membrane having a highly variable surface area, closing the opposite end of the container, said membrane being joined at its periphery to said annular wall with a fluid-tight seal, said annular wall comprising two inter-fitting annular wall members which are movable relatively to one another in an axial direction to vary the volume encompassed by said annular wall between a maximum volume and a minimum volume, thereby to vary the degree of turgescence of said membrane, and means for providing a fluid-tight seal between said annular wall members.

2,715,190  
**DUAL FLOW DIRECT CURRENT LINEAR ELECTROMAGNETIC PUMP**  
Edward F. Brill, Brookfield, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application November 24, 1953, Serial No. 393,985  
9 Claims. (Cl. 310-11)



1. A multiple flow linear direct current dynamoelectric machine comprising a plurality of conduits each for containing electrically conductive fluid of separate fluid flow circuits, said fluid serving as armatures for said machine conducting armature current transversely of the fluid flow, a field conductor arranged to form a conductor turn adjacent said armatures, means forcing fluid through one of said conduits, and means applying a magnetic field through the moving fluid to cause armature current to be generated therein which flows through the fluid of another of said conduits and through the field conductor to produce a magnetic field through said armatures which reacts with said armature current in said other conduit to force said fluid to flow through said other conduit.

2,715,191  
**MAGNETOSTRICTIVE TRANSDUCER**  
Leslie A. MacDonald, New Hyde Park, N. Y., and Lawrence H. Kelly, Orange, N. J., assignors to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey  
Application October 19, 1953, Serial No. 386,862  
12 Claims. (Cl. 310-26)



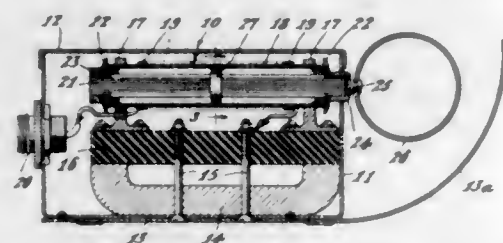
1. In a motion detection system employing sound waves having a given frequency, a transducer comprising a coil, a rod of magnetostrictive material located within said coil, and cylindrical resonating means mechanically coupled to said rod and having a predetermined natural frequency of vibration substantially equal to said given frequency, said rod and said resonating means forming a vibrating system having a natural frequency of vibration substantially equal to said given frequency.

2,715,192  
**TRANSDUCER**  
Lawrence H. Kelly, Orange, N. J., assignor to American District Telegraph Company, Jersey City, N. J., a corporation of New Jersey  
Application December 3, 1953, Serial No. 395,893  
8 Claims. (Cl. 310-26)

1. An electro-mechanical transducer, comprising an elongated hollow coil, an elongated magnetostrictive member extending within said coil and having one end projecting therefrom, resilient means forming the sole support for said magnetostrictive member connected di-



rectly thereto and supporting the same close to but out of contact with said coil, and a resonant member fixed

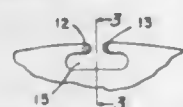


to said one end of the magnetostrictive member and movable therewith.

### 2,715,193 MOTOR STATOR AND METHOD OF MANUFACTURE

Duward C. Staley, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 2, 1954, Serial No. 413,609  
3 Claims. (Cl. 310—217)



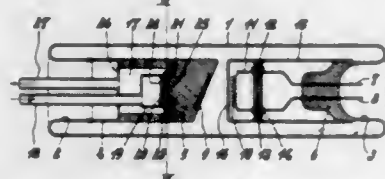
1. In the method of manufacturing for a core member having winding slots in one edge thereof, the steps comprising, assembling together in axial aligned engaging relation a plurality of sheet laminations each having an opening from which winding slots radiate with the winding slots axially aligned and having other axially aligned openings immediately adjacent the outer peripheral edge of the laminations to effect a longitudinally extending passage through the lamination assembly contoured to provide a thin heat fusible web at the peripheral edge of the laminations, and applying a fusing heat to the said web to effect separation of the periphery of the laminations at the said opening concurrently with fusion of the laminations along the opening edges thus created.

### 2,715,194 X-RAY TUBE COMPRISING A LIQUID COOLED ANODE

Bart Combee and Jacobus Marinus Houtman, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 19, 1952, Serial No. 321,420  
Claims priority, application Netherlands  
December 3, 1951

4 Claims. (Cl. 313—32)

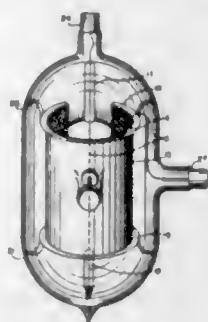


1. An X-ray tube comprising an envelope, a cathode, an anode facing the cathode, said anode having a hollow recessed portion on the side thereof remote from said cathode, means coupled to said hollow recessed portion for introducing a cooling medium therein to cool the anode, a spraying device positioned in said recessed portion to circulate said cooling medium over a maximum surface area of said recessed portion of said body, said spraying device including a perforated member having a plurality of openings therein and spaced from a wall portion of said recessed portion, and a movable guide member mounted in the space between said wall portion and said perforated member and adapted to be set into motion by said cooling medium whereby the cooling medium will flow with high turbulence over the surface area to be cooled without forming a laminar layer thereon to effect maximum heat transfer from said anode to said cooling medium.

### 2,715,195 PHOTON-COUNTER WITH ADJUSTABLE THRESHOLD

Herbert Friedman, Arlington, Va.

Application July 19, 1946, Serial No. 684,907  
1 Claim. (Cl. 313—93)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

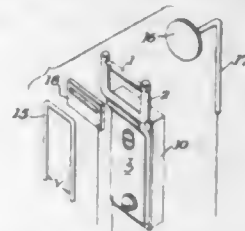


A Geiger counter of adjustable frequency threshold comprising an envelope having at least a portion thereof transparent over a range of radiation frequencies, a cathode within the envelope having a photo emissive surface positioned to receive radiation through said envelope portion and responsive over a range of received radiation frequencies to emit photo electrons at a velocity determined by the incident radiation frequency, an anode facing and parallel the photo emissive surface of the cathode, a Geiger counting gaseous filling in the envelope comprising an ionizable gas with a minor amount of quenching gas, and a photo electrically inactive grid electrode structure interposed between the cathode and anode and adjacent the former operative under negative bias selectively to prevent entry of low velocity electrons from the cathode in the grid-anode space.

### 2,715,196 ELECTRON EMITTER

John D. Reid, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application February 21, 1946, Serial No. 649,404  
1 Claim. (Cl. 313—305)



In electromagnetic isotope separating apparatus, ion producing mechanism comprising an electron emissive filament in the form of a cylindrical tantalum rod having tapered ends, the taper on one of said ends being longer than the taper on the other of said ends, means for bombarding said filament with electrons to heat said filament to electron emissive temperature, and a yoke member of molybdenum having apertures in the legs thereof for receiving the tapered ends of said filament, said yoke member being resilient to provide for springing apart the legs thereof to facilitate removal and replacement of said rod.

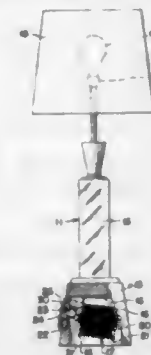
### 2,715,197 LIGHTING DEVICE

Warren Du Broff, Highland Park, and  
Malkin A. Pearlman, Chicago, Ill.

Application February 10, 1954, Serial No. 409,488  
3 Claims. (Cl. 315—282)

1. The combination with a lighting device including a body and an incandescent lamp, of a voltage regulating unit comprising an auto-transformer mounted within said body and in circuit with the incandescent lamp for varying the voltage across the lamp and thereby its illu-

minating intensity, and control means connected to said auto-transformer extending thru said body and termi-

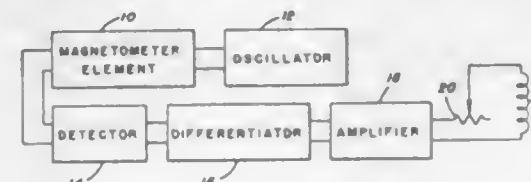


nating externally thereof for operating the voltage regulating unit within the body of the device to vary the illuminating intensity of said incandescent lamp.

### 2,715,198 EDDY-CURRENT COMPENSATOR

Walter E. Tolles, Mineola, N. Y., assignor to the United States of America as represented by the Secretary of the Navy

Application August 14, 1944, Serial No. 549,433  
2 Claims. (Cl. 317—123)

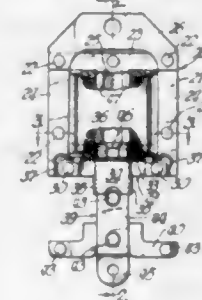


1. In a magnetometer system in an aircraft having plane conductors in its structure, means for compensating, at a chosen point in relation to said plane conductors, the magnetic fields due to eddy currents flowing in the plane conductors as a result of a change in attitude of said aircraft, comprising a magnetometer arranged to provide an output voltage proportional to the resulting flux normal to the plane conductor, means for differentiating the output of the magnetometer, means for amplifying the differentiated output, a compensator coil, and means for applying the amplified signal to said coil for producing a magnetic field opposing the field due to said eddy currents at the chosen point.

### 2,715,199 SOLENOID

Edward A. Bogue, South Bend, Ind., and Charles W. Musser, Niles, Mich., assignors to ETC, Inc., Niles, Mich., a corporation of Illinois

Application January 23, 1952, Serial No. 267,742  
9 Claims. (Cl. 317—191)



8. A solenoid comprising a magnetic frame having a base portion with side portions extending therefrom in spaced relation and in the same direction, a coil having a central opening and located in the frame so that the central opening extends along and between the side portions of the frame, an armature having a leg movable into and from the coil opening and a head portion movable into and from engagement with the ends of the side portions of the frame, and a spool of insulating material

having a hollow portion extending through the coil opening so as to provide a support for the coil, said hollow portion of the spool also surrounding the armature leg and having internally raised rib portions extending longitudinally of the inner surface thereof to provide guide bearing surfaces for the armature leg, the said hollow portion of the spool and the armature leg being directly associated with one another throughout the greater portion of the length of the coil, said armature leg being rectangular in section and having four corners, and the hollow portion of the spool having a rectangular opening, and said raised rib portions being at the four corners of the hollow portion of the spool to provide thickened bearing portions at the corners which have sliding engagement with the four corners of the armature leg.

### 2,715,200 IGNITION ELECTRODE UNIT

John H. Flynn, New Rochelle, N. Y.

Application March 27, 1952, Serial No. 278,935  
4 Claims. (Cl. 317—83)

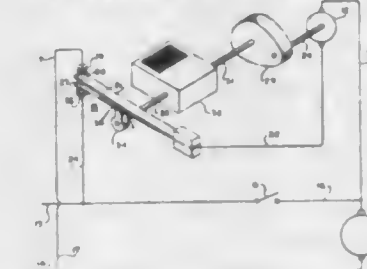


1. A long ignition electrode unit for gas burners in bakery ovens and the like, comprising two apertured ceramic end pieces of which the aperture of at least one end piece has a longitudinal key way; a mounting sleeve interposed between and abutting said end pieces and interlocked with at least said one end piece against rotation relative thereto; an electrical conductor extending through said sleeve with clearance therefrom and being axially slidably received intermediate its ends in the apertures in said end pieces, said conductor having a key received in the key way of said one end piece, and opposite shoulders of which one shoulder engages the outer end of a certain end piece and the other shoulder is outwardly spaced from the other end piece; and a spring interposed between said other shoulder and other end piece and adapted resiliently to hold said end pieces and sleeve in said abutting relation and take up all differential expansion of said conductor and sleeve on subjection of the unit to heat.

### 2,715,201 MOTOR CONTROL SYSTEM

Siegfried E. Manecke, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 15, 1952, Serial No. 320,651  
4 Claims. (Cl. 318—102)



1. In a motor control system, the combination of a primary motor having relatively low impedance, an auxiliary motor having relatively high impedance, a pair of main conductors constituting a source of power for the motors, a main control switch in one of said main conductors for controlling operation of the primary motor, switching means movable to a first station for connecting said auxiliary motor across the main conductors and in series with said main control switch, said switching means being movable to a second station for connecting said auxiliary mo-

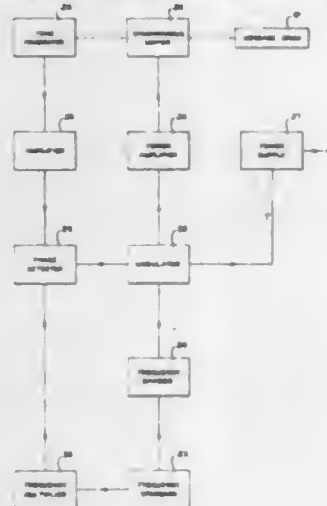


tor in shunt across the main control switch and in series with said primary motor and means driven by the auxiliary motor for actuating the switching means alternately to its first and second stations.

2,715,202

**ELECTRIC MOTOR SPEED REGULATION**

Frank T. Turner, Hampton Bays, Leon G. Pollard, Southampton, and Clarence R. Delbert, Water Mill, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York  
Application September 7, 1951, Serial No. 245,544  
14 Claims. (Cl. 318—175)

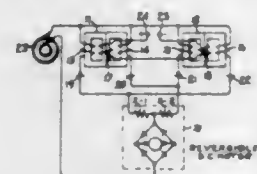


1. An electrical circuit arrangement for controlling the position of an electric motor rotor relative to the position of an ideal rotating electric field, comprising a source of a first signal having a frequency proportional to the angular velocity of said motor rotor and a phase proportional to the angular position of said motor rotor relative to the angular position of said ideal rotating field, said source of said first signal comprising a capacity tone generator having a stator member and having a rotating member driven by said electric motor, a source of a second signal having a frequency and phase proportional to the frequency and phase, respectively, of said ideal rotating field, a phase sensitive detector circuit, means to apply said first and second signals to said detector circuit thereby to produce an error voltage having a magnitude proportional to the phase difference between said signals and a polarity dependent on the time relationship between said signals, control means to adjust the angular position of said motor rotor relative to the angular position of said ideal rotating field, and means to apply said error voltage to said control means in a sense to maintain the relationships between the angular velocities and relative angular positions, respectively, of said motor rotor and ideal rotating field substantially constant.

2,715,203

**ELECTRIC MOTOR CONTROL CIRCUIT USING SATURABLE REACTORS**

Raymond E. Morgan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York  
Application June 17, 1950, Serial No. 169,847  
15 Claims. (Cl. 318—207)



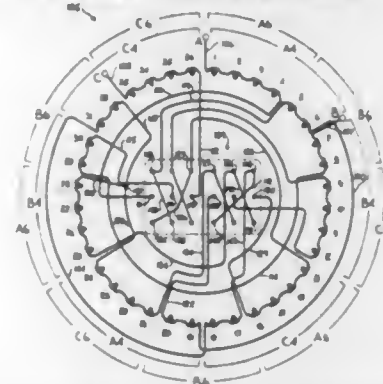
1. An electric control circuit for use with an alternating voltage source comprising saturable reactor apparatus having two pairs of reactance windings and means for controlling the level of magnetic saturation of said

reactor apparatus in accord with an electric signal, each reactance winding of each said pairs being connected in parallel with a reactance winding of the opposite pair, an output network including a pair of impedances each connected in separate series circuit relation with a respective parallel connected two of the four reactance windings and each said series circuits adapted to be connected across a same alternating voltage source, separate current rectifying means in circuit relation with each reactance winding and poled to provide simultaneous currents flowing in both impedances which reverse direction together with the alternations in polarity of an interconnected alternating voltage source, each said pair of reactance windings being connected in reversed flux relation with respect to said control means whereby an electric signal supplied to said control means retards the reactor saturation caused by one reactance winding pair while accelerating the reactor saturation caused by the other reactance winding pair to provide a difference in current flowing in said impedances which varies during each source voltage alternation in accord with the magnitude of an electric signal supplied to said control means, said load network being energized in response to said current difference.

2,715,204

**TWO-SPEED POLYPHASE INDUCTION MOTOR**

Charles S. Siskind, West Lafayette, Ind.  
Application July 6, 1954, Serial No. 441,199  
5 Claims. (Cl. 318—224)



1. A two-speed polyphase motor wherein both speeds are obtained with a single stator winding, characterized by: circumferentially adjacent coils of the stator winding being series connected in large and small groups with a plurality of adjacent small groups disposed between pairs of adjacent large groups; an input lead for each current phase, each said lead being connected with one end of a coil group; certain of said coil groups circumferentially spaced from one another around the stator being connected with one another; and the thus connected groups being so disposed that leads from the ends of the coil groups not connected to the mains or to other coil groups may be connected to the terminals of a multiple pole double-throw switch to be thereby connectible with one another in one closed position of the switch to produce one number of true poles of like polarity for each input lead and an equal number of consequent poles, to provide high speed operation, and in the other closed position of the switch to produce a larger number of true poles of like polarity for each input lead and an equal larger number of consequent poles, to provide slow speed operation.

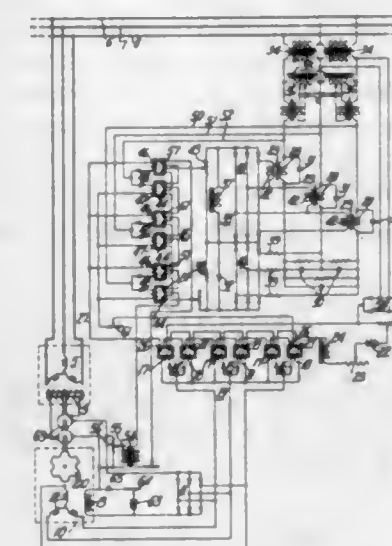
2,715,205

**REGULATING SYSTEM WITH EXCITER FIELD WINDING IN SERIES WITH ALTERNATOR FIELD WINDING**

William L. Ringland, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application May 18, 1953, Serial No. 355,480  
5 Claims. (Cl. 322—28)

1. In a regulating system for controlling an electrical characteristic of a dynamoelectric machine having a field

winding, the combination of an alternating current generator serving as an exciter for said dynamoelectric machine, said generator having a field winding connected in series with said field winding of said dynamoelectric machine so that transient currents induced in said field winding of said dynamoelectric machine during normal operation thereof are also carried by said field winding of said

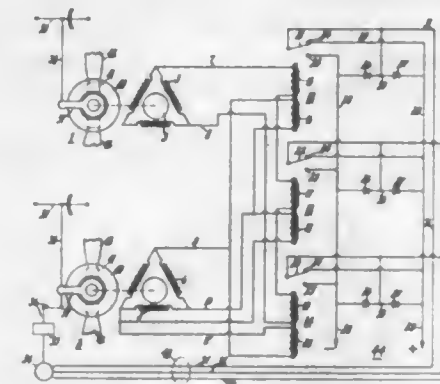


alternating current generator to vary the voltage thereof in anticipation of the regulating action of the system, a rectifier connecting said generator to said field windings to supply excitation current thereto, and means connected to said dynamoelectric machine responsive to the regulated characteristic thereof to cause said generator to vary the excitation current supplied to said field windings.

2,715,206

**SYNCHRONIZING APPARATUS**

James W. Light, Greenville, and Howard M. Geyer, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application November 23, 1951, Serial No. 257,871  
9 Claims. (Cl. 322—36)

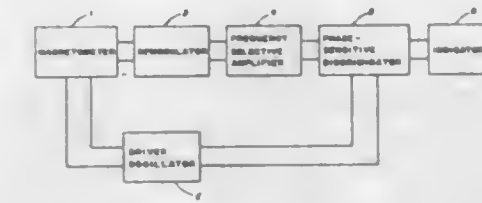


1. In apparatus for controlling the synchronous operation of a plurality of rotating elements, the combination including, manually operated means for selecting the desired speed level, electric adjusting means operable on the manually operated selecting means of one element for matching that element operation with the operation of another element as a reference speed source, said electric means including a multi-phase alternator driven at a speed proportional to the element speed, a plurality of double winding electromagnetic relays, the windings of each relay being arranged in voltage assisting relation, one winding of each of said relays being individually energized by a respective phase of said alternator, and means energizing the other winding of each of said electromagnetic relays with a common reference signal derived from said reference speed source, said relays being actuated by the coincidence of said two signals in said windings to cause actuation of the adjusting means for said manually operated means.

2,715,207

**WAVE-TRAIN DETECTOR**

Otto H. Schmitt, Port Washington, N. Y., assignor to the United States of America as represented by the Secretary of the Navy  
Application August 14, 1944, Serial No. 549,450  
4 Claims. (Cl. 324—43)

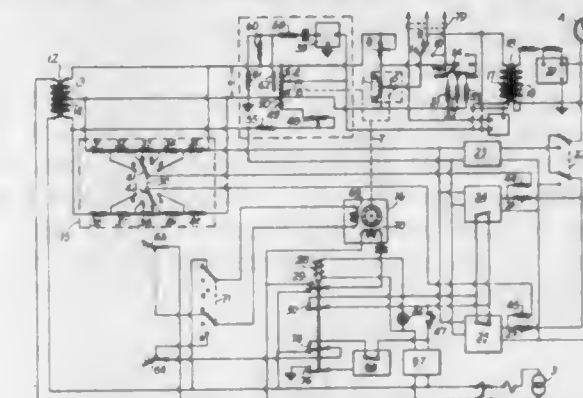


1. In a magnetometer system having a magnetometer driven by an oscillator and generating a signal composed of a carrier frequency forming wave-trains at double the oscillator frequency having alternate peak voltages producing a frequency component equal to that of said oscillator with an amplitude and phase in accordance with the strength and polarity respectively of the magnetic field being measured; a wave-train detector comprising a demodulator for separating the envelope frequency comprising the wave-trains from the carrier frequency of the signal, a frequency-selective amplifier responsive primarily to the fundamental oscillator frequency, a phase-sensitive discriminator connected to said frequency-selected amplifier for receiving said selected frequency and to said oscillator to receive said oscillator frequency for comparing the phase of the selected envelope frequency with that of the oscillator frequency, and an indicator responsive to said discriminator for indicating the amplitude and relative phase of the signal provided by the frequency-selective amplifier.

2,715,208

**POTENTIOMETER LINEARITY TESTER**

Monson H. Hayes, Binghamton, N. Y., assignor to Link Aviation, Inc., Binghamton, N. Y., a corporation of New York  
Application February 2, 1954, Serial No. 407,683  
12 Claims. (Cl. 324—63)



12. Means for testing the linear characteristics of variable potential dividers and for indicating the performance thereof within preselected limits of tolerance to a predetermined norm comprising, means for connecting a potential divider of unknown linearity in parallel circuit relation with a potential divider of predetermined characteristics, means for applying substantially identical potentials from a common source across both of said potential dividers, means for tapping intermediate potentials of like magnitude from corresponding portions of both dividers, means for adjusting the currents flowing through each of said dividers to produce equal potentials of a different magnitude at another tapped position of each divider, means for deriving selected reference potentials of substantially opposite phase from said applied identical potentials and of a magnitude proportional to said preselected limits of tolerance, means for simultaneously changing corresponding taps of said



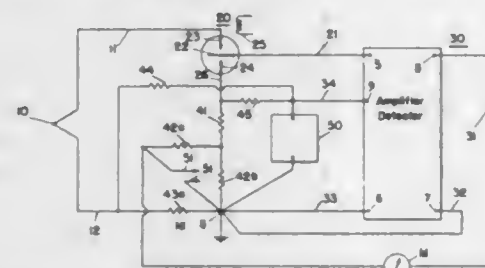
potential dividers progressively from one position to another, and means for summing the potentials between corresponding tap positions of both of said potential dividers with said selected reference potentials of substantially opposite phase to produce a deviation indication whenever the sum of said oppositely phased potentials exceeds zero.

2,715,209

## ZERO-POINT ADJUSTING CIRCUIT

Albert J. Williams, Jr., Philadelphia, and William Russell Clark, Jenkintown, Pa., assignors to Leeds and Northrop Company, Philadelphia, Pa., a corporation of Pennsylvania

Application March 10, 1951, Serial No. 214,892  
10 Claims. (Cl. 324—99)



2. In a system for measuring the unknown electrical output of a source, a vibrator having spaced separate contacts and a common contact alternately connecting to each of said separate contacts, an electrical resistance in series circuit with said source of unknown output and said separate contacts of said vibrator, a compensating voltage source having one terminal connected to an intermediate point of said electrical resistance and voltage-dropping means connected between the other terminal of said compensating voltage source and said electrical resistance for developing in said series circuit a first voltage across one portion of said resistance and for developing a second voltage of opposite polarity from said first voltage across a second portion of said resistance, a feedback circuit connected to the junction of said portions of the resistance and across at least part of said resistance to develop a feedback voltage effectively opposing in said series circuits a signal voltage corresponding with said unknown output, means to indicate the magnitude and polarity of said feedback voltage, and an amplifier energizing said feedback circuit and having its input circuit connected between said junction and the common contact of the vibrator for response to any difference between the applied signal voltage and the feedback voltage and for operation of said indicating means about a zero point determined by the relative magnitudes of said first and second voltages.

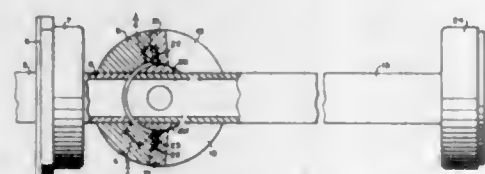
2,715,210

## ELECTRICAL SWITCHING DEVICE

Edward F. McClain, Washington, D. C.

Application September 18, 1945, Serial No. 617,157  
8 Claims. (Cl. 333—7)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. An electrical switching device for selectively coupling energy in a first hollow rectangular dielectric-filled waveguide to one of several adjacent hollow rectangular dielectric-filled waveguides including a radio frequency choke mounted on an end of said first waveguide and comprising a block mounted on each side wall of said first waveguide adjacent an end thereof, said blocks having opposed curved surfaces on their inner faces lying in

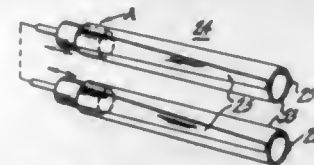
a common cylindrical surface of revolution, said blocks having slots formed in the opposing faces thereof and extending parallel to the adjacent edges of the supporting side walls, said slots having a depth substantially electrically equivalent to a quarter wavelength of the wavelength of the electrical energy to be coupled, a pivotable hollow rectangular dielectric-filled wave guide pivotally mounted at one end on the axis of said cylindrical surface of revolution, a circular radio frequency choke mounted at the opposite end of said pivotable waveguide from that on which it is pivotally supported, and a plurality of radially disposed hollow rectangular dielectric-filled waveguides located adjacent said opposite end of said pivotable waveguide so as to be successively aligned with the end thereof as said waveguide is pivoted.

2,715,211

## ULTRA HIGH FREQUENCY TUNING SYSTEMS

Tomomi Murakami, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application February 2, 1950, Serial No. 142,012  
4 Claims. (Cl. 333—82)



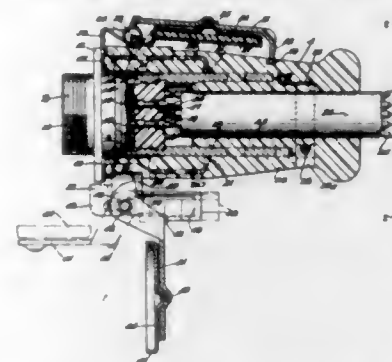
1. A variable tuning device for ultra high frequency signal circuits, comprising in combination, a tubular supporting member of insulating material, a pair of thin tapered conductive elements insulated from each other throughout their length and mounted substantially on diametrically opposite sides and exteriorly of said supporting member, and a conductive core element slidably mounted within said supporting member and movable with respect to said elements from end to end, whereby the resonant frequency of said device can be adjusted within a predetermined frequency range.

2,715,212

## ELECTRICAL CONNECTORS

George J. Swanson, Unadilla, and William A. Uline and Edward Kokalas, Sidney, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware

Application February 15, 1951, Serial No. 211,144  
21 Claims. (Cl. 339—60)



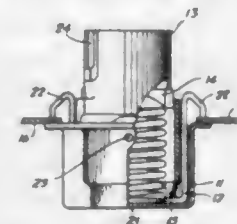
1. An electrical connector embodying two complementary separable units, each of said units comprising a rigid tubular shell, the end portion of one of said shells having a sliding telescopic fit within an end portion of the other of said shells and said shells having cooperating means thereon for holding the same against relative rotation while permitting relative axial movement thereof, and a covering of resilient material on only said one of said shells, said covering being radially spaced from said one shell adjacent one end of the latter to form an annular recess for receiving a bare end portion of said other of said shells and exerting a compressive force on said bare end portion to yieldably resist axial assembly and separation of said units.

2,715,213

## LIGHT SOCKET ASSEMBLY HAVING MEANS TO MOUNT IT IN AN APERTURED PANEL

William MacA. Barbour, Dayton, Ohio

Application November 4, 1949, Serial No. 125,529  
7 Claims. (Cl. 339—126)



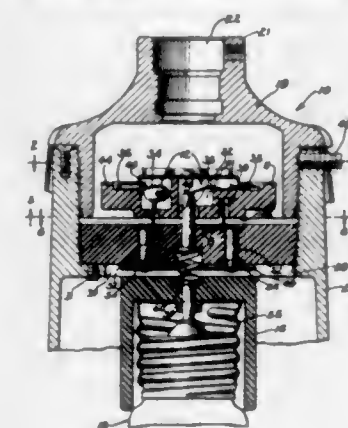
1. An electric lamp socket, including a cup-shaped base presenting an outwardly flanged edge, a hanger bail received in said base and surrounded thereby and presenting lateral fingers to overlie the flange on said base, a barrel the inner end of which is received in said base in vertically spaced relation to said hanger bail therein, means for fixing said barrel with respect to said base, means to mount an electric lamp in the outer end of said barrel, a contact member slidably mounted in said barrel to be engaged by the lamp base, means formed on the interior of the barrel for limiting outward movement of the contact member relatively to the barrel, and a duofunctional spring interposed between said contact member and said hanger bail, said spring serving the dual purpose of urging said contact member outward to maintain engagement with the lamp base and of resisting relative axial motion between said hanger bail and said base.

2,715,214

## DETACHABLE TERMINAL ASSEMBLY FOR ELECTRICAL LIGHTING FIXTURE

Arthur I. Appleton, Northbrook, Ill.

Application July 22, 1950, Serial No. 175,419  
4 Claims. (Cl. 339—180)



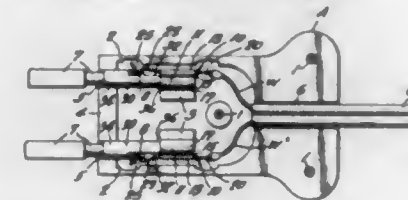
1. A detachable terminal assembly for lighting fixtures, said assembly comprising the combination of a supporting canopy, a first terminal block fixed to said canopy and having an inside face enclosed by said canopy and an outside face exposed through the entrance to said canopy, said inside face having recesses therein, said first terminal block also having relatively narrow concentric apertures therein communicating between respective ones of said recesses and the outside face of said block, contact elements in the form of cantilever supported resilient arms located within said recesses but totally behind said apertures, a second terminal block having means for mounting the same within a lighting fixture detachably secured to said canopy, and coacting slip type contact elements fixed to said second terminal block in concentric projecting relation with each other, said coacting contact elements being telescopically housed within said narrow apertures and disposed in substantially perpendicular abutting relation with said resilient arms when said terminal blocks are in assembled relation.

2,715,215

## ELECTRICAL SOCKET CONTACT

Laurence H. Flora, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application March 24, 1952, Serial No. 278,161  
2 Claims. (Cl. 339—191)



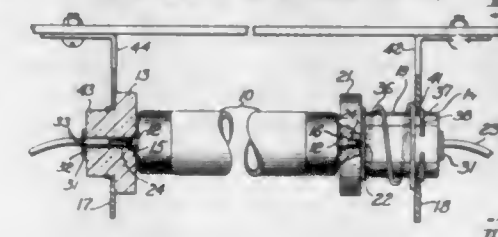
1. A socket contact comprising two parts in assembled relation, one of said parts comprising a piece of sheet metal bent to provide a base and a pair of arms projecting from said base and defining an expansible split tubular body of generally D-shaped cross section, a spring finger projecting from one end of said base, the other of said parts of the socket contact comprising a substantially tubular sheet metal barrel, said barrel having a tubular forward end and a rearward end portion of generally D-shaped cross section telescoped within said tubular body of generally D-shaped cross section such that said parts are retained against rotation relatively to each other in assembled relation, means retaining said parts against axial displacement relatively to each other in such assembled relation comprising a lug on one part positioned in an aperture in the other part, said barrel having an intermediate portion provided with a slot extending along the underside of said projecting spring finger, said spring finger cooperating with said barrel in providing means for engaging a pin contact inserted in said tubular forward end of said barrel.

2,715,216

## INSULATOR AND SOCKET ASSEMBLY FOR FLUORESCENT TUBES

James A. Howenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio

Application October 18, 1952, Serial No. 315,501  
1 Claim. (Cl. 339—275)



A terminal for an end of an electrical conductor which comprises a tubular funnel-shaped contact member having an elongated shank and an enlarged flared end portion, one end of the conductor extending into the shank of the contact member and terminating at the flared end portion thereof, and a thin coating of solder covering the inner and outer surfaces of the flared end and shank of said funnel-shaped member, the solder surface adjacent said conductor joining the shank and conductor and securing the contact member on the conductor and forming an electrical connection therebetween, said coating covering the end of said conductor at the base of said flared portion of the contact member.

2,715,217

## SHIFT INDICATOR

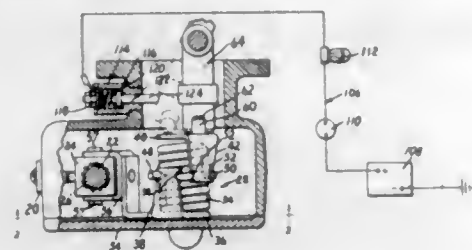
Robert C. Russell, South Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application January 2, 1953, Serial No. 329,345  
9 Claims. (Cl. 340—52)

1. In combination with a pre-select shifting mechanism for a change speed transmission, means, engageable with



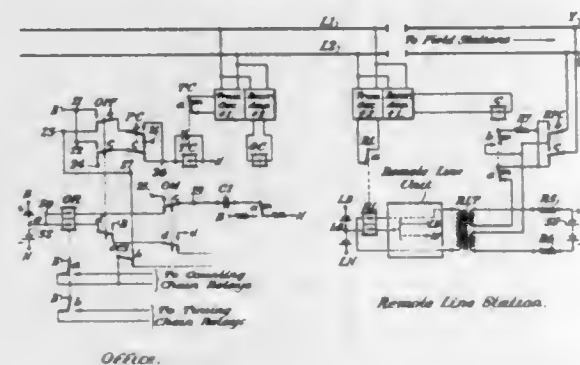
the change speed transmission shiftable to alter the transmission speed ratio, and an electrical circuit including a source of electrical current, a signal light and a switch



arranged in series, said switch being engageable by the shiftable means to complete the circuit therethrough to ground and provide for current flow therethrough effective to light up the signal light.

### 2,715,218 SYNCHRONIZING CIRCUITS FOR REMOTE CONTROL SYSTEMS

Field Curry, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania  
Application August 10, 1954, Serial No. 448,796  
11 Claims. (Cl. 340—163)



1. In a remote control system, including an office and a plurality of stations connected by a communication channel, at least a portion of which is a direct current line circuit, said office and each said station being equipped with similar coding units for transmitting and receiving selective codes between said office and any one of said stations, each said coding unit having associated therewith a line relay operable to a normal and a reverse position to receive a selective code and to activate the

corresponding coding unit, each said line relay occupying its normal position during intervals when there is no coding action over said communication channel and said coding units are in an at-rest condition; means to synchronize the resetting of said coding units to their at-rest condition if a code is interrupted by a fault, said means comprising a circuit means at said office effective initially to operate the office line relay to its reverse position if not already occupying that position and effective after a preselected period of time to operate said office line relay to its normal position, another circuit means at said office to effect the opening of the direct current line circuit portion for said preselected period of time to cause all station line relays to operate to their reverse position, and then to effect the closing of said direct current line circuit to cause all said station line relays to operate to their normal position at substantially the same time as said office line relay is operated to its normal position, thereby synchronizing the resetting action of all coding units to their at-rest condition.

### 2,715,219 COMBINED RADAR RANGE AND SPEED INDICATOR

Walter Otto and Jacob S. Herson, Dayton, Ohio  
Application September 12, 1946, Serial No. 696,384  
3 Claims. (Cl. 343—8)

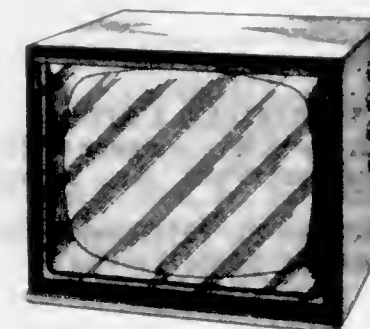


1. In a conventional radar system having means for repeatedly radiating short pulses of energy and means for receiving reflected pulses, and also having means for generating a voltage varying linearly with time and initiated at the time of each radiated pulse, a speed indicating circuit comprising limiting means for converting all received reflected pulses to pulses of the same amplitude, means for combining said linearly varying voltage and said limited pulses to produce pulses having amplitudes proportional to range, means for selecting the range pulses corresponding to a particular reflecting object, means for integrating said selected range pulses to produce a direct voltage proportional to the peak values thereof, and means for differentiating said direct voltage to produce a voltage proportional to the rate of change thereof.

## DESIGNS

AUGUST 9, 1955

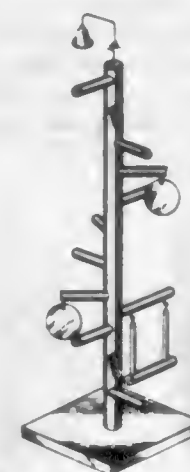
175,290  
CABINET FOR A TELEVISION RECEIVER  
Eugene Aeschliman, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware  
Application May 19, 1954, Serial No. 30,566  
Term of patent 14 years  
(Cl. D56—4)



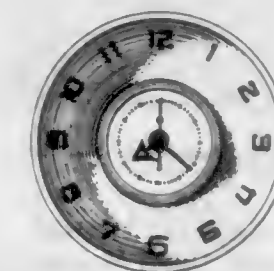
175,291  
HOLDER FOR FISHING POLES AND RODS  
Edwin M. Ammon, Kansas City, Mo. and Howard J. Griffith, Shawnee, Kans.  
Application May 17, 1954, Serial No. 30,537  
Term of patent 3½ years  
(Cl. D31—4)



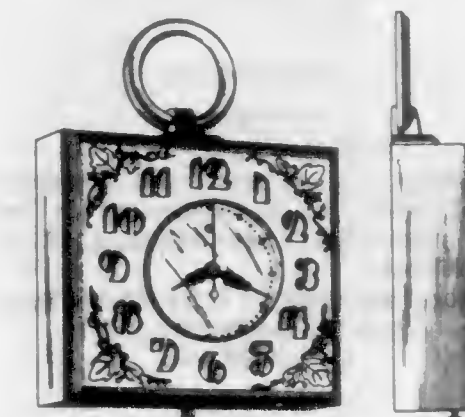
175,292  
AVIARY PERCH  
Kenneth J. Austgen, Hammond, Ind.  
Application September 9, 1954, Serial No. 32,202  
Term of patent 7 years  
(Cl. D31—2)



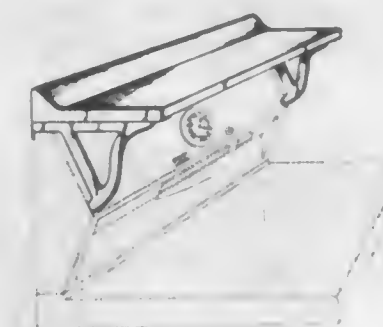
175,293  
CLOCK  
Leo Ivan Bruce, Framingham, Mass., assignor to General Electric Company, a corporation of New York  
Application June 30, 1954, Serial No. 31,233  
Term of patent 3½ years  
(Cl. D42—7)



175,294  
CLOCK  
Leo Ivan Bruce, Framingham, and Phillip Frederick Huy, Framingham Center, Mass., assignors to General Electric Company, a corporation of New York  
Application June 30, 1954, Serial No. 31,234  
Term of patent 3½ years  
(Cl. D42—7)



175,295  
COMBINED RANGE TOP UNIT AND SHELF  
Robert H. Caldwell, Lookout Mountain, Tenn.  
Application February 24, 1954, Serial No. 29,184  
Term of patent 3½ years  
(Cl. D81—25)

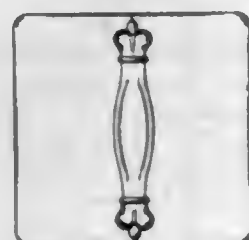




175,296  
**PICTURE FRAME**  
 Henry J. Chrzan, Detroit, Mich.  
 Application August 2, 1954, Serial No. 31,690  
 Term of patent 14 years  
 (Cl. D29—20)



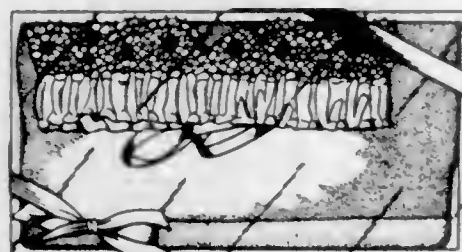
175,297  
**CIGAR HUMIDOR**  
 John G. Clarke, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio  
 Application November 19, 1954, Serial No. 33,163  
 Term of patent 7 years  
 (Cl. D85—2)



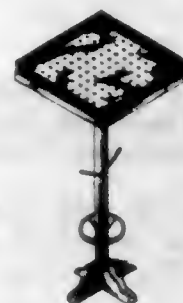
175,298  
**CAMERA TRIPOD HEAD**  
 Bruce H. Dalton, Los Angeles, and Edward V. Lewis, North Hollywood, Calif., assignors to The Houston Fearless Corporation, Los Angeles, Calif., a corporation of California  
 Application September 7, 1954, Serial No. 32,166  
 Term of patent 14 years  
 (Cl. D61—1)



175,299  
**HOSIERY PACKAGE**  
 William De Mond, Los Angeles, Calif.  
 Application November 9, 1954, Serial No. 33,042  
 Term of patent 14 years  
 (Cl. D58—12)



175,300  
**STAND**  
 Paul S. Farbush, St. Louis, Mo.  
 Application March 5, 1954, Serial No. 29,356  
 Term of patent 3½ years  
 (Cl. D33—8)



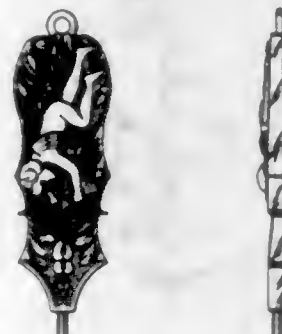
175,301  
**VAPORIZER UNIT**  
 Roy Robert Fisher, Paris, Ky., assignor to Electric Steam Radiator Corporation, Paris, Ky., a corporation of Kentucky  
 Application October 12, 1954, Serial No. 32,637  
 Term of patent 14 years  
 (Cl. D83—1)



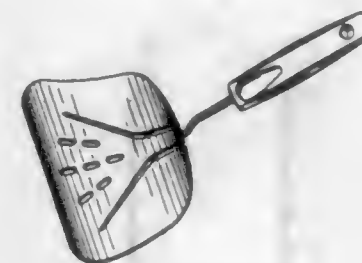
175,302  
**HOOK**  
 James G. Gale, Kansas City, Mo., assignor to Newman Manufacturing and Sales Company, Kansas City, Mo., a corporation of Missouri  
 Application May 18, 1955, Serial No. 36,080  
 Term of patent 14 years  
 (Cl. D54—11)



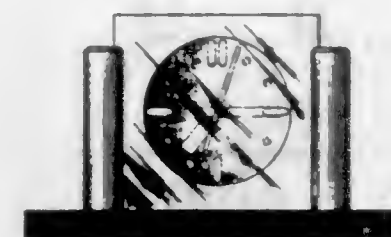
175,303  
**PENDANT CHARM**  
 Jules Gerson, Forest Hills, N. Y.  
 Application February 21, 1955, Serial No. 34,612  
 Term of patent 14 years  
 (Cl. D45—17)



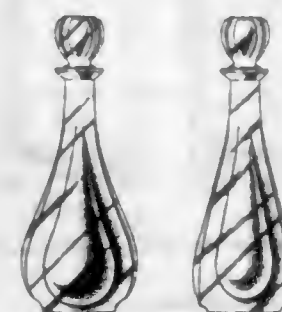
175,304  
**MEAT LIFTER**  
 Charlotte P. Gorin, Seattle, Wash., assignor to Foley Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota  
 Application December 29, 1954, Serial No. 33,730  
 Term of patent 14 years  
 (Cl. D44—29)



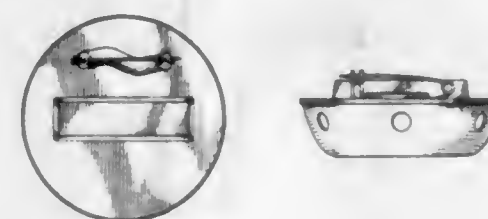
175,305  
**CLOCK**  
 Walter F. Hall, Jr., Pawtucket, R. I.  
 Application January 25, 1955, Serial No. 34,200  
 Term of patent 14 years  
 (Cl. D42—7)



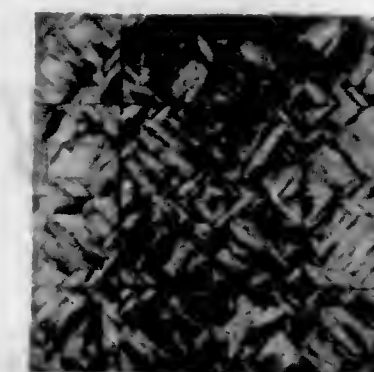
175,306  
**DECANTER**  
 Robert E. Hennessy, Summit, N. J., assignor to National Distillers Products Corporation, New York, N. Y.  
 Application December 20, 1954, Serial No. 33,607  
 Term of patent 3½ years  
 (Cl. D58—6)



175,307  
**COMBINATION CARRYING AND DRYING CONTAINER FOR ARTIFICIAL FLY BAIT**  
 James R. Hofflines and Charles C. Thomas, Detroit, Mich., assignors to Plasti-Print, Incorporated, a corporation of Michigan  
 Application December 15, 1953, Serial No. 28,080  
 Term of patent 7 years  
 (Cl. D58—12)



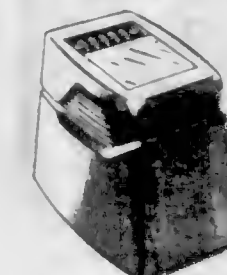
175,308  
**LINOLEUM OR SIMILAR ARTICLE**  
 George W. Johnson, San Francisco, Calif., assignor to Pabco Products Inc., San Francisco, Calif., a corporation of Delaware  
 Application February 1, 1954, Serial No. 28,763  
 Term of patent 7 years  
 (Cl. D92—17)



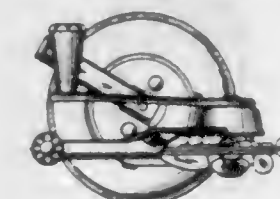
175,309  
**GIRDLE**  
 Ethel R. Kaupp, New York, N. Y.  
 Application March 31, 1955, Serial No. 35,298  
 Term of patent 3½ years  
 (Cl. D20—2)



175,310  
**TIME STAMP**  
 George H. Kress, Johnson City, and Jack W. Stringer, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York  
 Application May 2, 1955, Serial No. 35,781  
 Term of patent 14 years  
 (Cl. D64—10)



175,311  
**CAN OPENER**  
 George A. Lehmann, Ferguson, Mo., assignor to The Dazey Corporation, St. Louis, Mo., a corporation of Missouri  
 Application April 29, 1955, Serial No. 35,751  
 Term of patent 14 years  
 (Cl. D22—2)

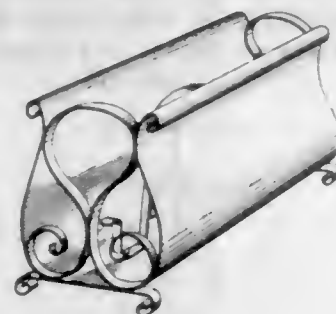




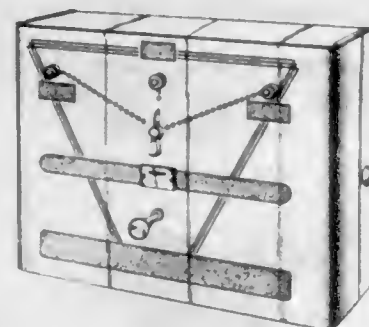
175,312  
SHOE OR SIMILAR ARTICLE  
Roy Maling, Brookline, Mass.  
Application June 2, 1954, Serial No. 30,777  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D7-5)



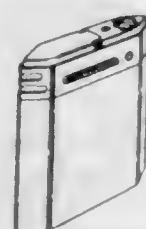
175,313  
MAGAZINE RACK OR THE LIKE  
Herman P. Malls, Baltimore, Md.  
Application March 18, 1954, Serial No. 29,603  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D33-2)



175,314  
COIN CONTROLLED PERFUME DISPENSER  
James A. McDevitt, Philadelphia, Pa.  
Application May 6, 1954, Serial No. 30,361  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D52-3)



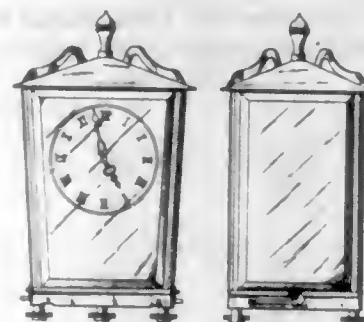
175,315  
COMBINED POCKET LIGHTER AND ELECTRIC  
FLASH LAMP  
Hans Hubert Quandt, Karlsruhe, Germany, assignor to  
Rudolf Mohr, Karlsruhe, Germany  
Application April 4, 1955, Serial No. 35,345  
Term of patent 14 years  
(Cl. D48-27)



175,316  
LEASH HANDLE  
Ralph Roccia, Camden, N. J.  
Application May 11, 1954, Serial No. 30,415  
Term of patent 7 years  
(Cl. D38-1)



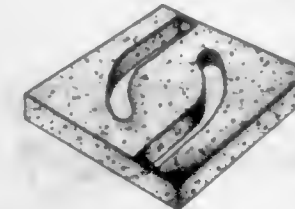
175,317  
CLOCK CASE  
Charles H. Schatz, Black Forest, Germany  
Application October 8, 1954, Serial No. 32,597  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D42-7)



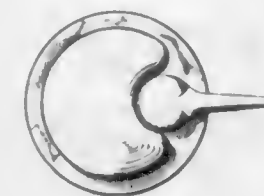
175,318  
FLASHLIGHT  
John C. Schmidt, Chicago, Ill., assignor to Zenith Radio  
Corporation, a corporation of Illinois  
Application March 15, 1955, Serial No. 35,052  
Term of patent 14 years  
(Cl. D48-24)



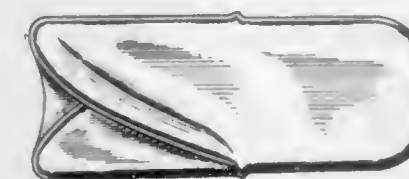
175,319  
BUILDING BRICK  
Byron E. Scott, St. Paul, Minn.  
Application June 1, 1953, Serial No. 25,285  
Term of patent 7 years  
(Cl. D18-2)



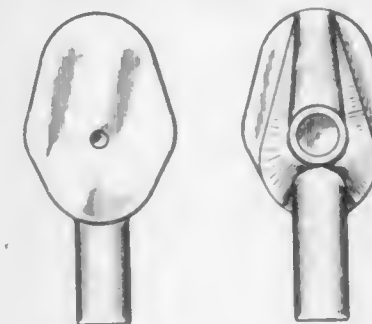
175,320  
DROP DISPENSING BOTTLE  
Cyrus D. Smith, Warrington, Fla.  
Application June 25, 1954, Serial No. 31,170  
Term of patent 7 years  
(Cl. D62-2)



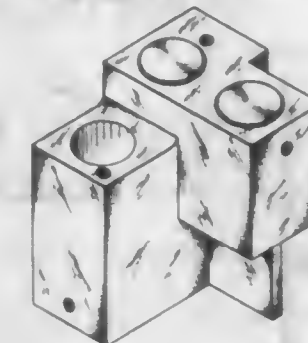
175,321  
SPECTACLE CASE OR THE LIKE  
Raymond F. E. Stegeman, Greece, N. Y., assignor to  
Bausch & Lomb Optical Company, Rochester, N. Y., a  
corporation of New York  
Application September 2, 1954, Serial No. 32,146  
Term of patent 7 years  
(Cl. D57-1)



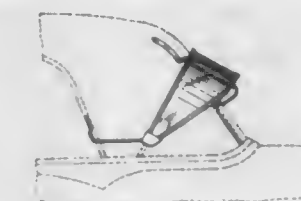
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RETINOSCOPE HEAD  
Raymond F. E. Stegeman, Greece, N. Y., assignor to  
Bausch & Lomb Optical Company, Rochester, N. Y., a  
corporation of New York  
Application December 29, 1954, Serial No. 33,740  
Term of patent 14 years  
(Cl. D57-1)



175,323  
ELECTRIC DESALTER  
Ralph L. Stephenson, Berkeley, Calif.  
Application April 12, 1954, Serial No. 29,965  
Term of patent 14 years  
(Cl. D16-2)



175,324  
REAR WINDOW VISOR FOR AUTOMOBILES  
James T. Sullivan, Kansas City, Mo.  
Application June 29, 1953, Serial No. 25,709  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D14-6)



175,325  
FILING CABINET  
Miroslav J. Svestka, Washington, D. C.  
Application August 16, 1954, Serial No. 31,882  
Term of patent  $3\frac{1}{2}$  years  
(Cl. D33-3)



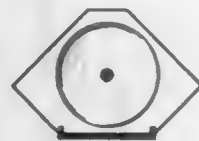
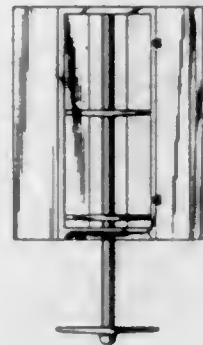
175,326  
PORTABLE POWER TOOL  
Bernard A. Swanson, Sacramento, Calif.  
Application January 29, 1954, Serial No. 28,748  
Term of patent 14 years  
(Cl. D54-13)



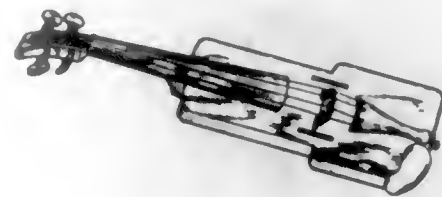


175,327  
**CORNER CABINET WITH REVOLVING SHELVES**  
 Harry R. Trout and Frederick M. Hill, Pittsburgh, Pa.,  
 assignors to American Radiator & Standard Sanitary  
 Corporation, Pittsburgh, Pa., a corporation of Dela-  
 ware

Application January 2, 1953, Serial No. 22,974  
 Term of patent 14 years  
 (Cl. D33—19)



175,328  
**VIOLIN**  
 George E. Van Pelt, Tucson, Ariz.  
 Application October 20, 1954, Serial No. 32,740  
 Term of patent 14 years  
 (Cl. D56—1)



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Merrill, Grant. 1,410, Cl. 47—62.

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2: 2,714,767	95- 4: 5: 2,714,841	174: 2,714,906	81: 2,714,957	109: 2,715,110	217: 2,715,193
1: 2,714,768	11: 2,714,842	145- 1: 2,714,907	158: 2,714,958	253- 77: 2,715,011	311- 90: 2,715,053
8: 3: 2,714,769	75: 2,714,845	146- 171: 2,714,908	214: 2,714,959	254- 67: 2,715,012	313- 32: 2,715,194
8: 5: 2,714,770	97-46: 07: 2,714,846	213: 2,714,909	227: 2,714,960	106: 2,715,013	98: 2,715,195
9: 2,714,771	98- 58: 2,714,847	148- 6: 24: 2,715,083	403: 2,714,961	139: 1: 2,715,014	305: 2,715,196
43: 2,714,772	115: 2,714,848	150- 2: 1: 2,714,910	437: 2,714,962	255- 15: 2,715,015	305: 2,715,197
86: 2,714,773	99- 2: 2,715,067	52: 2,714,912	24: 2,715,096	256- 65: 2,715,017	315- 282: 2,715,197
104: 2,714,774	144: 2,715,068	152- 213: 2,714,913	2: 2,715,099	257- 55: 2,715,018	317- 83: 2,715,200
144: 2,714,775	100- 113: 2,714,849	222: 2,714,914	31: 2,714,963	241: 2,715,019	123: 2,715,198
10: 2,714,776	101- 96: 2,714,850	153- 1: 2,714,915	131: 2,714,964	260- 45: 4: 2,715,111	191: 2,715,199
17: 2: 2,714,777	329: 2,714,851	35: 2,714,916	211- 113: 2,714,965	45: 7: 2,715,112	318- 102: 2,715,201
42: 12: 2,714,778	415: 1: 2,714,852	2: 2,714,917	214- 38: 2,714,967	46: 5: 2,715,113	175: 2,715,202
42: 23: 2,714,779	103- 37: 2,714,853	48: 2,714,918	82: 2,714,968	57: 2,715,114	207: 2,715,203
131: 2,714,780	41: 2,714,854	73: 2,714,919	653: 2,714,969	84: 3: 2,715,115	224: 2,715,204
5: 2,714,781	52: 2,714,855	79: Re.24,051	10: 79: 2,715,171	91: 5: 2,715,116	322- 28: 2,715,206
19: 2,714,782	126: 2,714,856	44: 2,715,086	15: 2,715,172	92: 8: 2,715,117	36: 2,715,206
77: 2,714,783	128: 2,714,857	83: 2,715,087	19: 2,715,173	112: 2,715,119	63: 2,715,206
124: 2,714,784	136: 2,714,858	93: 2,715,088	210: 5: 2,715,122	162: 2,715,120	90: 2,715,209
62: P.P.1, 409	257: 2,714,860	125: 2,715,089	2: 2,715,174	209: 2,715,121	333- 7: 2,715,210
78: 2,714,785	106- 10: 2,715,069	155- 63: 2,714,920	21: 2,715,175	210: 5: 2,715,122	82: 2,715,211
23: 2,714,786	42: 2,715,070	105: 2,714,921	37: 2,715,176	211: 2,715,123	339- 60: 2,715,212
142: 2,714,787	270: 2,715,072	106: 2,714,922	39: 2,715,177	232: 2,715,124	126: 2,715,213
170: 2,714,789	263: 2,715,073	131: 2,714,923	16: 2,714,971	256: 2,715,125	180: 2,715,214
178: 2,714,790	21: 2,714,861	139: 2,714,925	91: 2,714,972	281: 2,715,127	191: 2,715,215
185: 2,714,791	48: 2,714,862	160- 191: 2,714,926	221- 174: 2,714,973	303: 2,715,128	275: 2,715,216
263: 2,714,791	111- 99: 2,714,863	161- 15: 2,714,927	222- 94: 2,714,974	319: 2,715,129	52: 2,715,217
57: 2,714,792	113- 35: 2,714,864	164- 111: 2,714,928	205: 2,714,975	345: 9: 2,715,130	163: 2,715,218
	114- 5: 2,714,865	166- 33: 2,714,929	306: 2,714,976	376: 2,715,131	343- 8: 2,715,219
			424: 5: 2,714,977	410: 6: 2,715,132	346- 82: 2,715,054
				448: 2: 2,715,133	139: 2,715,055

## CLASSIFICATION OF DESIGNS

D 7- 5: Des. 175,312	D31- 2: Des. 175,292	D42- 7: Des. 175,293	D48- 27: Des. 175,315	D57- 1: Des. 175,322	D81- 25: Des. 175,295
D14- 6: Des. 175,324	4: Des. 175,291	Des. 175,294	D52- 3: Des. 175,314	D58- 6: Des. 175,305	D83- 1: Des. 175,301
D16- 2: Des. 175,325	D33- 2: Des. 175,313	Des. 175,305	D54- 11: Des. 175,302	12: Des. 175,299	D85- 2: Des. 175,297
D18- 2: Des. 175,309	3: Des. 175,325	Des. 175,317	13: Des. 175,326	Des. 175,307	D92- 17: Des. 175,306
D20- 2: Des. 175,311	8: Des. 175,300	D44- 29: Des. 175,304	D56- 1: Des. 175,328	D61- 1: Des. 175,298	
D22- 2: Des. 175,311	19: Des. 175,327	D45- 17: Des. 175,303	4: Des. 175,290	D62- 2: Des. 175,320	
D29- 20: Des. 175,296	D38- 1: Des. 175,316	D48- 24: Des. 175,318	D57- 1: Des. 175,321	D64- 10: Des. 175,310	



## TRADEMARKS NOTICES

### Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

TM 369,079 ("Turtles" and design), DeMet's, Inc., Candy; TM 420,577 (Turtles), same; TM 420,578 (Representation of three turtles), same; TM 521,291 (Turtle design), same, filed Oct. 17, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c2232, *DeMet's, Inc. v. Andes Candies, Inc.* Consent decree; defendant enjoined and restrained from using the word "Turtles"; counterclaim dismissed with prejudice May 13, 1955.

TM 420,577. (See TM 369,079.)

TM 420,578. (See TM 369,079.)

TM 431,160 (Ace), A. W. Fruh, doing business as A. W. Fruh & Co., Electric burglar alarms and accessories, etc., filed June 10, 1955, D. C., W. D. Pa. (Pittsburgh), Doc. 13499, *A. W. Fruh & Co. v. Ace Burglar Alarm Co.*

TM 521,291. (See TM 369,079.)

TM 554,811 (Dacron), E. I. du Pont de Nemours and Co., Synthetic polyester fibers for generalized use in the industrial arts; TM 555,085, same, Yarns of synthetic fibers, filed Nov. 30, 1954, D. C., S. D. N. Y., Doc. 97/128, *E. I. du Pont de Nemours and Co. v. Sanitary Sleep Products, Inc.* Stipulation and order of dismissal (notice June 6, 1955).

TM 555,085. (See TM 554,811.)

TM 571,798 (Roquefort), The Community of Roquefort, Cheese, filed May 24, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18220-BH, *The Community of Roquefort, France, et al. v. Scott's Food Products et al.*

TM 594,000 ("Dream Stuff" and design), Marilyn Gorman, doing business as The Marilyn Shoppe, Perfume, filed June 4, 1955, D. C., S. D. N. Y., Doc. 101/97, *The Marilyn Shoppe v. The Andrew Jergens Co.*

### Roster of Attorneys and Agents

The Patent Office has recently published a new edition of the *Roster of Attorneys and Agents Registered to Practice Before the U. S. Patent Office*.

This edition like the preceding one is an extract of the official Roster maintained by the Patent Office and contains the name and address of all individuals and firms registered in the Patent Office on May 1, 1955. This publication is composed of three sections (1) Individuals in the United States, (2) Firms and (3) Individuals in Foreign Countries. Each section contains Part I, Arranged Alphabetically, and Part II, Arranged Geographically.

This publication may be purchased from the Superintendent of Documents, Washington 25, D. C., for \$1.00 per copy. Remittance in the form of check or money order should be payable to the Superintendent of Documents.

T. B. MORROW,  
Executive Officer.

### Use of Split Patent Office Coupons

Effective immediately the practice of accepting one-half of a Patent Office coupon at one-half face value in the payment of fees is discontinued.

July 19, 1955. T. B. MORROW,  
Executive Officer.

### CONDITION OF TRADEMARK APPLICATIONS AS OF JULY 15, 1955

Total number of applications awaiting action (excluding renewals and republications)..... 11, 120  
Date of oldest new application..... Feb. 1, 1955  
Date of oldest amended application..... Feb. 2, 1955

TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....	2-1-55	2-23-55
II. SHRYOCK, R. F. (Acting), Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....	2-1-55	2-2-55
III. WENDT, C. M. (Acting), Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.	2-1-55	2-7-55
Renewals (All Classes).....	5-26-55	6-7-55
Republications (All Classes).....	5-3-55	6-15-55

Applications Filed During Week Ended July 15, 1955—421

Registrations Issued..... 354—No. 610,158 to No. 610,511  
Renewals Issued..... 79



## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5. As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 636,447. Siemens-Planawerke Aktiengesellschaft Fuer Kohlefabrikate, Mettingen, near Augsburg, Germany. Filed Oct. 9, 1952.

# SIGRI

Applicant claims ownership of German Reg. No. 619,851, dated May 3, 1952.

For Artificial and Amorphous Carbon and Graphite for Further Use in the Industrial Arts.

SN 659,881. Mycalex Corporation of America, Clifton, N. J. Filed Jan. 21, 1954.

# 400

For Glass-Bonded Mica in Sheet and Tube Form. Use since Sept. 22, 1944.

SN 662,974. Adru Granite Inc., Montreal, Quebec, Canada. Filed Mar. 22, 1954.

# Highland Grey

The word "Grey" is disclaimed apart from the mark shown. Applicant claims ownership of Canadian Reg. No. N. S. 37,677, dated Feb. 6, 1951.

For Granite Used for Monuments and Sold in the Rough Semi-Finished and Finished State.

SN 669,350. Northrup, King & Co., Minneapolis, Minn. Filed July 2, 1954.

# Rainbow

For Flower Seeds. Use since June 11, 1954.

TM 48

SN 674,396. The Kendall Company, Walpole, Mass. Filed Oct. 6, 1954. Sec. 2(f).

# KENDALL

Applicant claims ownership of Reg. Nos. 508,593, 518,074, and 387,797.

For Jewelers Cotton, Industrial Cotton, and Cotton for Miscellaneous Uses.

Use since Mar. 21, 1940.

SN 677,113. Westchester Plastics, Inc., Mamaroneck, N. Y. Filed Nov. 22, 1954.

# FORMACOLOR

For Thermoplastic Resins. Use since July 26, 1954.

SN 677,114. Westchester Plastics, Inc., Mamaroneck, N. Y. Filed Nov. 22, 1954.

# PLIOTHENE

For Thermoplastic Resins. Use since June 27, 1949.

SN 677,115. Westchester Plastics, Inc., Mamaroneck, N. Y. Filed Nov. 22, 1954.

# UNICOLOR

For Thermoplastic Resins. Use since June 7, 1947.

SN 677,256. Wasco Flashing Co., Cambridge, Mass. Filed Nov. 24, 1954.

# Wascolite Acrylic Sheet

The words "Acrylic Sheet" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 550,045, 586,035, and others.

For Acrylic Resin Plastic Material, in Sheet Form. Use since June 1, 1954.

SN 677,391. Cellusnede Products, Inc., Rockford, Ill. Filed Nov. 29, 1954.

# FIRE-FLOCK

For Flocking Material, Consisting of Short Cut Fibres. Use since Feb. 24, 1954.

AUGUST 9, 1955

U. S. PATENT OFFICE

TM 49

SN 678,466. Mead's Angus Mesa, Inc., Albuquerque, N. Mex. Filed Dec. 16, 1954. SN 680,141. Benjamin Foster Company, Philadelphia, Pa. Filed Jan. 19, 1955.



For Cattle. Use since November 1953.

### CLASS 4

SN 661,781. Colonial Refining and Chemical Company, Cleveland, Ohio. Filed Mar. 1, 1954.

# GLAZOLEUM

For Linoleum Finish or Dressing Having Non-Slip Characteristics. Use since Jan. 4, 1954.

SN 678,213. Grace-Lee Products Inc., Minneapolis, Minn. Filed Dec. 13, 1954.

# GLEE

For Liquid Floor Wax. Use since on or about Nov. 1, 1954.

SN 678,470. Joe B. Olkowiak, d. b. a. Haze-Fade Co., St. Louis, Mo. Filed Dec. 16, 1954.

# HAZE-FADES

For Liquid Furniture Cleaner and Polish. Use since September 1944.

SN 679,764. Jerome M. Frank, d. b. a. Frank Products, Beverly Hills, Calif. Filed Jan. 12, 1955.

# PORT-A-SHINE

For Shoe Polishing Kit and Accessories, Including Shoe Stand and Shoe Polish. Use since Sept. 29, 1954.

### CLASS 5

SN 674,471. Lobe-Stik, Pasadena, Calif. Filed Oct. 7, 1954.

# LOBE-STIK

For Liquid Adhesive for Securing Ear Rings and Ear Dangles to the Ears. Use since on or about Mar. 3, 1954.

# "Duct-Fas"

For Adhesives for Securing Insulation Materials to Metal Surfaces.

Use since June 15, 1954.

SN 682,531. Angier Products, Inc., Cambridge, Mass. Filed Mar. 1, 1955. Sec. 2(f).



The drawing is lined for the color red. For Adhesives and Coatings—Namely, Industrial Rubber, Latex and Resin Cements, Pressure Sensitive Cements, Paper Coatings, Laminates for Uniting the Elements of Laminated Structures, Sealants for Sealing Receptacles, Tie Coats for Attaching Sheet Material to Underlying Supporting Structures, and Resin Emulsions. Use since in the year 1931.

### CLASS 6

SN 677,870. Donco, Inc., Englewood, Colo. Filed Dec. 7, 1954.



For Rodent Poisons, Insecticides, and the Like. Use since on or about Aug. 16, 1954.

### CLASS 7

SN 663,683. Samson Cordage Works, Boston, Mass. Filed Mar. 31, 1954.

# SILVER LAKE

For Ropes and Cords, and Clothes, Sash, Utility, and Masons' Lines. Use since January 1870.

SN 668,327. The Linen Thread Co., Inc., New York, N. Y. Filed June 16, 1954.

# EDERER

For Twines. Use since in 1881.

### CLASS 8

SN 676,350. Colibri Lighters Limited, London, England. Filed Oct. 11, 1954.

# MONOPOL

Applicant claims ownership of British Reg. Nos. 552,469, dated July 6, 1934, and 699,509, dated July 3, 1951. For Pyrophoric Lighters for Smokers and Parts of Such Lighters.



## CLASS 9

SN 660,645. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Feb. 5, 1954. Sec. 2(f).



Applicant claims ownership of Reg. Nos. 133,238, 545,547, and others; and also of the mark shown in Reg. No. 309,804, now expired.

For Firearms and Ammunition.  
Use since Aug. 17, 1933.

## CLASS 10

SN 675,021. Smith-Douglass Company, Incorporated, Norfolk, Va. Filed Oct. 18, 1954.



Applicant disclaims the words "Tobacco Fertilizer" apart from the mark as shown.  
For Fertilizers.  
Use since in the spring of 1940.

SN 678,759. M. C. Boyle Phosphate Company, Chicago, Ill. Filed Dec. 22, 1954.

# BROWN SUGAR

For Rock Phosphate, Used as a Fertilizer and Plant Food.  
Use since Dec. 21, 1953.

## CLASS 11

SN 674,467. Interchemical Corporation, New York, N. Y. Filed Oct. 7, 1954.



For Carbon Paper and Typewriter Ribbon.  
Use since July 29, 1948.

## CLASS 12

SN 646,036. Perinol Products Co., Inc., New York, N. Y. Filed Apr. 27, 1953.



The stippling on the drawing is to indicate the use of color. Applicant claims ownership of Reg. No. 509,029.

For Mineral Waterproofing Surfacing Material Sold in Powdered Form.  
Use since Feb. 19, 1946.

SN 653,344. Standard Sash and Door Corporation, Derry, N. H. Filed Sept. 17, 1953.

# "Win-Tite"

For Doors, Windows, Sash, and Screens.  
Use since June 10, 1948.

SN 658,170. American Bitumuls & Asphalt Company, San Francisco, Calif. Filed Dec. 18, 1953. Sec. 2(f).



Applicant claims ownership of Reg. Nos. 513,010 and 215,916.  
For Emulsified Road Oil Useful for Manufacturing Asphaltic Concrete.  
Use since July 1934.

SN 659,937. Logan Co., Louisville, Ky. Filed Jan. 22, 1954.



For Ornamental Railings and Porch Columns.  
Use since Oct. 1, 1953; and on Jan. 1, 1926, as to "Logan."

SN 672,356. Southwestern Petroleum Co., Inc., d. b. a. The Zone Co., Fort Worth, Tex. Filed Aug. 27, 1954.

# ZONE

## SNOW CAP ROOF COATING

The words "Roof Coating" are disclaimed except in combination with the mark as shown. Applicant claims ownership of Reg. No. 370,201.

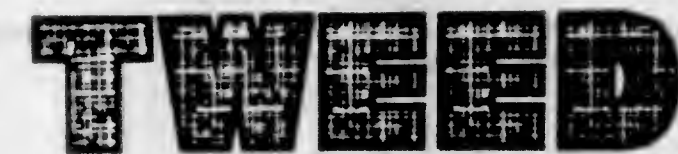
For Plastic Emulsion and Asbestos Fibered White Roof Coating.  
Use since Apr. 19, 1954.

SN 673,968. British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Filed Sept. 29, 1954. SN 678,985. Gladding, McBean & Co., Los Angeles, Calif. Filed Dec. 27, 1954.

# NU-VIT

For Wall and Floor Tile and Tile Trim Shapes.  
Use since Oct. 6, 1954.

SN 679,683. Roddis Plywood Corporation, Marshfield, Wis. Filed Jan. 10, 1955.



For Panelling.  
Use since May 18, 1954.

The drawing is lined for red. Applicant claims ownership of Reg. Nos. 570,714 and 584,163.  
For Cedar Sidewall Shakes.  
Use since June 3, 1954.

SN 677,138. Celanese Corporation of America, New York, N. Y. Filed Nov. 23, 1954.

# MARCOLITA

For Reinforced Plastic Sheets and/or Sheeting.  
Use since Apr. 20, 1954.

SN 677,337. Midwest Industrial Products Corp., Chicago, Ill. Filed Nov. 26, 1954.

# Z-40

For Coal Tarpitch Emulsion Sealer.  
Use since Apr. 30, 1953.

SN 678,119. Owen Marshall Jones, Seattle, Wash.; to Vermiculite Manufacturing Co., Seattle, Wash. Filed Dec. 10, 1954.

# Z-BRICK

For Building Bricks.  
Use since Dec. 1, 1954.

SN 678,950. American Bitumuls & Asphalt Co., Wilmington, Del. Filed Dec. 27, 1954.



For Bituminous Construction and Surfacing Compositions.  
Use since July 23, 1954.

SN 679,841. The B. F. Goodrich Company, New York, N. Y. Filed Jan. 13, 1955.

# RHO-C

For Acoustic Structures and Particularly Enclosures Transparent to Sound Waves.  
Use since prior to Feb. 7, 1953.

SN 680,725. The Celotex Corporation, Chicago, Ill. Filed Jan. 31, 1955.

# ACOUSTI-LUX

For Translucent Acoustical Correction Wall or Ceiling Units.  
Use since Dec. 23, 1954.

SN 681,008. Aaron Gordon, Berkeley, Calif. Filed Feb. 3, 1955.

# CHEMONITE

Applicant claims ownership of Reg. No. 343,681.  
For Lumber, Wooden Poles and Posts and Other Wood Products Treated With a Chemical Preparation as Protection Against Fire, Marine Borer, Termite, and Various Other Insects and Fungi.  
Use since Apr. 1, 1936.

SN 681,121. R. O. W. Sales Co., Ferndale, Mich. Filed Jan. 24, 1955.



The words "Window Balance" are disclaimed apart from the mark as shown.  
For Window Balances, Wooden Windows, Guide Rails, Window Sashes, and Window Frames.  
Use since Dec. 13, 1954.



## CLASS 13

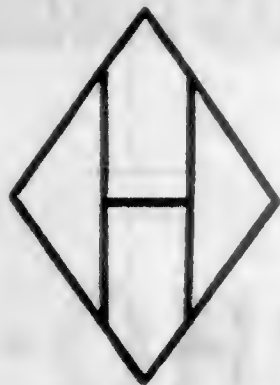
SN 663,490. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 29, 1954.

# FOLIATOR

For Aspirating Devices for Connection to a Hose or Faucet for Siphoning Solutions Into the Line.  
Use since Jan. 5, 1954.

## CLASS 14

SN 675,255. The Bingham-Herbrand Corporation, Toledo, Ohio. Filed Oct. 22, 1954.



Applicant claims ownership of Reg. No. 130,511.  
For Commercial Unfinished Forgings Including Axles, Camshafts, Connecting Rods, Crankshafts, Knuckle Pins, Knuckle Supports, Levers, Spindles, and Yokes.  
Use since July 1, 1908.

## CLASS 15

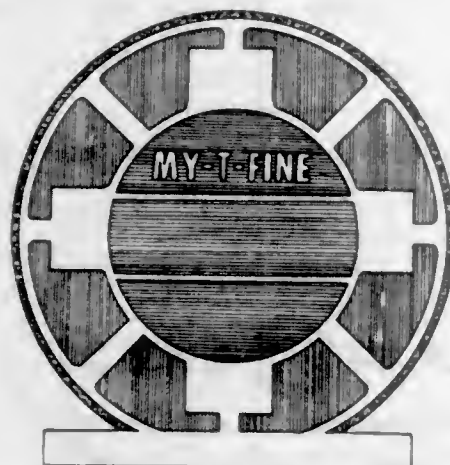
SN 657,829. Deep Rock Oil Corporation, Tulsa, Okla. Filed Dec. 11, 1953.

# DR-2

For Additive in a Gasoline-Type Motor Fuel To Increase Power Output.  
Use since on or about Nov. 20, 1953.

## CLASS 16

SN 668,940. St. Louis Paint Manufacturing Company, d. b. a. My-T-Fine Paint Mfg. Co., St. Louis, Mo. Filed June 25, 1954.



The drawing is lined for red, blue, and yellow. Applicant claims ownership of Reg. No. 585,535.  
For Enamels, House Paints, Floor Enamels, Varnishes, Creosote Paints, Brick, Stucco, and Masonry Paints, Flat Oil Paints, Aluminum Paints, and Similar Goods.  
Use since May 14, 1954.

## CLASS 18

SN 649,882. Healthways, Los Angeles, Calif. Filed July 6, 1953.

# HEALTHWAYS

## ATHRID

For Liquid Medicinal Preparation for the Treatment of Athlete's Foot.  
Use since Jan. 15, 1952.

SN 663,444. Crestmont Laboratories, Inc., Philadelphia, Pa. Filed Mar. 29, 1954.

## Vegorvite

Applicant claims ownership of Reg. No. 580,464.  
For Preparation for the Prophylaxis and Treatment of Metabolic Deficiencies, and Useful in Conditions of Inadequate Food Intake Such as Pregnancy, Old Age and Convalescence.  
Use since July 1953.

SN 665,498. Iowa Cooperative Association, d. b. a. Diamond Laboratories, Des Moines, Iowa. Filed Apr. 30, 1954.

D·L·V



For Hog Cholera Vaccine.  
Use since December 1949.

SN 665,623. Meyer Chemical Company, Detroit, Mich. Filed May 3, 1954.

## ALMETUSSIN

For Expectorant With Codeine.  
Use since Mar. 22, 1954.

SN 677,430. Merck & Co., Inc., Rahway, N. J. Filed Nov. 29, 1954.

## ALFLORONE

For Hormonal Compound for Medicinal and Pharmaceutical Use.  
Use since Nov. 12, 1954.

SN 679,996. International Minerals & Chemical Corporation, Chicago, Ill. Filed Jan. 17, 1955.

## DynaFOS

For Dicalcium Phosphate, Principally Used as an Animal and Plant Food Supplement.  
Use since Dec. 24, 1954.

SN 680,022. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 17, 1955.

## AMOEBOCILLIN

For Antibiotic Preparation.  
Use since Sept. 22, 1954.

SN 680,023. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 17, 1955.

## UROBIOTIC

For Antibiotic Preparation.  
Use since Sept. 29, 1954.

SN 680,024. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 17, 1955.

## TOCLASE

For Cough Preparation.  
Use since Dec. 21, 1954.

SN 680,025. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 17, 1955.

## TUCLASE

For Cough Preparation.  
Use since Sept. 30, 1954.

SN 680,875. Eastern Trading Company, New York, N. Y. Filed Feb. 1, 1955.

## CARRY AID

For Medicinal Preparation for Use in the Treatment of Sunburn, Cuts, Abrasions and the Like.  
Use since Jan. 11, 1955.

SN 680,930. Amos R. Beamon, d. b. a. Marina Products Co., Los Angeles, Calif. Filed Feb. 2, 1955.

## MARINA

For Dietary Food Supplement in Tablet Form.  
Use since Dec. 25, 1953.

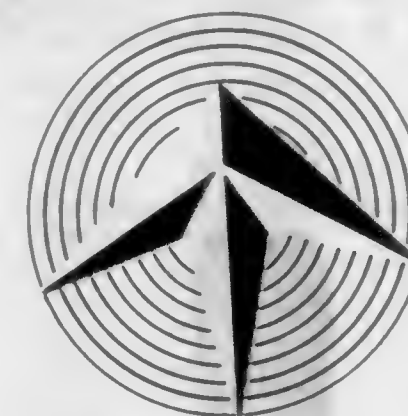
SN 681,025. McNeil Laboratories, Incorporated, Philadelphia, Pa. Filed Feb. 3, 1955.

## BUTIBEL

For Antispasmodic-Sedative Preparations, in Liquid and Tablet Form.  
Use since Oct. 21, 1954.

## CLASS 19

SN 668,019. Coachcraft, Ltd., Hollywood, Calif. Filed June 10, 1954.



For Automobile Accessories—Namely, Motor Vehicle Air Conditioners, and Top of Car Luggage Carriers.  
Use since Feb. 4, 1940.

SN 669,871. The Dow Mechanical Corporation, Thompsonville, Conn. Filed July 13, 1954.

## TEEN-O-METER

For Speed Control Devices for Vehicles.  
Use since June 29, 1954.

SN 669,872. The Dow Mechanical Corporation, Thompsonville, Conn. Filed July 13, 1954.

## ACCEL-O-METER

For Speed Control Devices for Vehicles.  
Use since June 29, 1954.

SN 670,168. Coachcraft, Ltd., Hollywood, Calif. Filed July 19, 1954.

*Coachcraft*

For Automobile Accessories—Namely, Motor Vehicle Air Conditioners, and Top of Car Luggage Carriers.  
Use since February 1940.

SN 676,292. American Machine & Foundry Company, New York, N. Y. Filed Nov. 9, 1954.



Applicant claims ownership of Reg. Nos. 168,740, 441,863, and others.  
For Bicycles and Parts Thereof.  
Use since on or about Oct. 3, 1951.



## CLASS 21

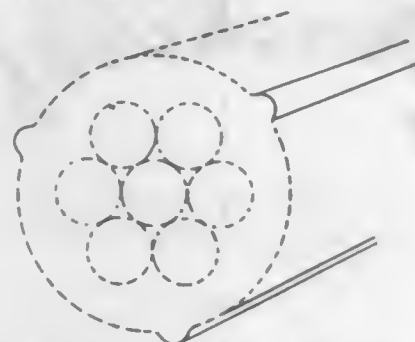
SN 636,654. Royal Vacuum Cleaner Company, Cleveland, Ohio, to Royal Appliance Mfg. Co., Cleveland, Ohio. Filed Oct. 15, 1952.



The trademark consists in the word "Royal" and the configuration of a crown on generally vertically extending parallel side stripe areas colored red and black separated by adjacent narrow parallel stripes of black and a light color, so provided as to furnish a right-hand wide red stripe, a narrow black stripe, a narrow light stripe, and a left-hand wide black stripe with the wide red stripe, narrow black stripe and narrow light stripe terminating in a black trapezoidal base section which merges into the lower end of the wide black stripe. Applicant claims ownership of Reg. Nos. 342,473, 342,513, and 360,639.

For Electrically Operated Suction Cleaners and Parts Thereof.  
Use since December 1949.

SN 640,402. Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Filed Jan. 6, 1953.



The trademark consists of three longitudinal ribs spaced approximately 120° apart and applied to the outer periphery of the insulated cable covering.

For Insulated Electric Conductor Cables.  
Use since Oct. 31, 1952.

SN 657,690 C. Conradty, Nurnberg, Germany. Filed Dec. 9, 1953.

# Ocelit

Applicant claims ownership of German Reg. No. 239,637, dated Dec. 9, 1919.

For Carbon Pencils for Arc Lamps and Batteries; Carbon Cylinders; Carbon Plates, Carbon Rods; Carbon Electrodes for Primary Cells, for Storage Batteries, for Liquid-Phase and Solid-Phase Electrolytic Processes; Carbon Brushes for Dynamos and Motors, for Starters and Igniting Apparatus; Copper and Metal Brushes Serving as Current Take-Off De-

VICES; Sliding and Pressure Contacts, Carbon Sealing Gaskets, Incandescent Carbons and Heating Rods for Heating Apparatus; Resistance Carbons for Lightning-Protection and Electro-Chemical Purposes; Artificial Graphite; Plates, Electrodes, Rods; Carborundum Rods and Molded Rods Made From Silicon Carbide; Electric Furnaces for the Production of Artificial Graphite and Carborundum.

SN 665,590. The General Tire & Rubber Company, Akron, Ohio. Filed May 3, 1954.

# HIGHWAY

For Storage Batteries.  
Use since Feb. 28, 1947.

SN 667,488. The Alliance Manufacturing Company, Alliance, Ohio, to The Alliance Manufacturing Company (formerly Jectum Corporation), Newark, Ohio. Filed June 2, 1954.



For Electric Motor Powered Garage Door Operators and Electrical Controls Therefor.  
Use since on or about May 14, 1954, on garage door operators.

SN 675,770. Diamond Wire & Cable Company, Sycamore, Ill. Filed Nov. 1, 1954.

# DIAMOND DTX

Applicant claims ownership of Reg. Nos. 228,662 and 430,407.  
For Insulated Wire and Cable.  
Use since on or about June 1, 1948.

SN 676,492. General Cable Corporation, New York, N. Y. Filed Nov. 12, 1954.

# BUTARONE

For Insulated Electrical Conductors.  
Use since July 12, 1954.

SN 679,376. Dormeyer Corporation, Chicago, Ill. Filed Jan. 4, 1955.

# HURRI-HOT

For Electrically Heated Cups, and Parts Thereof.  
Use since Sept. 1, 1954.

SN 680,284. Martinus Dyrud, d. b. a. Dyrud Laboratories, Prairie du Chien, Wis. Filed Jan. 21, 1955.

# Silver Maid

For Magnesium Tray Which Functions as an Electrical Anode When Placed in Solution and Which Acts Electro-Chemically To Clean Silverware.  
Use since Dec. 1, 1954.

SN 680,625. Ooram GmbH Kommanditgesellschaft, Berlin, Germany. Filed Jan. 27, 1955.



The drawing is lined for the colors orange and blue. Applicant claims ownership of German Reg. No. 361,046, dated Dec. 14, 1926, and U. S. Reg. No. 597,025.

For Electric Ray Lamps, Drying Ray Lamps, Electric Lamps, Gaseous Discharge Lamps, Especially Fluorescent and Incandescent Lamps, Electrical Display and Advertising Signs, Parts and Fittings for Above.

SN 680,838. Zenith Radio Corporation, Chicago, Ill. Filed Jan. 31, 1955.

# CINE'LENS

For Television Receiving Sets and Parts Thereof, Particularly Low-Transmission Filter Faceplates for Television Receiving Sets.  
Use since July 29, 1954.

## CLASS 22

SN 645,294. Electro-Snap Switch & Mfg. Co., Chicago, Ill. Filed Apr. 15, 1953.

# SEA SKATE

For Coin-Controlled Amusement Game Device Simulating a Boat Ride.  
Use since Feb. 2, 1953.

SN 680,378. Albert J. Fihe, d. b. a. Fihe Enterprises, Burbank, Calif. Filed Jan. 24, 1955.

# Telecast

For Fishing Reels and Line.  
Use since Mar. 10, 1949.

SN 680,382. Glenn Products, Inc., Cincinnati, Ohio. Filed Jan. 24, 1955.

# "DIAL-A-DEPTH"

For Float Used in Fishing.  
Use since May 1, 1953.

TM 697 O. G.—6

SN 680,420. John R. Sitton, Jr., d. b. a. Gameco, Houston, Tex. Filed Jan. 24, 1955.

# RADIOACTIVE

For Uranium Mining Game With a Board and Game Pieces.  
Use since Dec. 5, 1954.

SN 680,913. Suburban Toy & Manufacturing Corp., Pittsburgh, Pa. Filed Feb. 1, 1955.

# HI! SPORT

For Children's Golf and Baseball Sets.  
Use since Dec. 30, 1954.

SN 681,073. C. B. Donald Company, St. Paul, Minn. Filed Feb. 4, 1955.

# SHAKE

For Parlor Game Employing a Playing Field, Dice, and Markers.  
Use since July 13, 1954.

SN 681,090. Klein's Sporting Goods, Inc., Chicago, Ill. Filed Feb. 4, 1955.



For Fishing Rods.  
Use since Dec. 20, 1953.

SN 681,099. Nocona Leather Goods Company, Nocona, Tex. Filed Feb. 4, 1955.

# CINCHER

Applicant claims ownership of Reg. No. 598,449.  
For Football Shoulder Pads.  
Use since December 1953.



SN 681,100. The Pedersen Manufacturing Company, Wilton, Conn. Filed Feb. 4, 1955.

# PROSONIC

For Golf Clubs.  
Use since Dec. 28, 1954.

## CLASS 23

SN 639,337. Nordberg Manufacturing Company, Milwaukee, Wis. Filed Dec. 11, 1952.

# GANDY

For Track-Working Equipment—Namely, Movable Cranes for Operating on Tracks, Rails, and Track Right-of-Way, for Raising, Lowering, or Moving Material or Objects Located on or Adjacent Railroad Tracks and Track Rights of Way, and for Handling, Inserting, and Removing Railroad Ties.  
Use since on or about Aug. 19, 1952.

SN 640,897. Aljay Products, Inc., New York, N. Y. Filed Jan. 19, 1953.



For Miniature Fire Extinguishers.  
Use since Jan. 7, 1953.

SN 642,322. The Torrington Company, Torrington, Conn. Filed Feb. 16, 1953. Sec. 2(f).



The terms "Cold Swaged," "Best Quality," "Machine Needles," "Est. 1866" and the blue background are disclaimed apart from the mark as shown. The drawing is lined for blue.  
For Sewing Machine Needles.  
Use since Oct. 1, 1940.

SN 651,128. Emil A. Rodin, Los Angeles, Calif. Filed July 30, 1953.

# Screw Ball

For Hand Tools—Namely, Ratchet Screw Drivers.  
Use since Jan. 9, 1953.



Priority is claimed under Sec. 44(d), based on co-pending application Ser. No. 623,016, filed Dec. 29, 1951. French application filed July 13, 1951; Reg. No. 413,524, dated July 13, 1951.

For Non-Electric Servo-Motors, Mechanically, Pneumatically and Hydraulically Operated Governors for Mechanical Control Systems for Aeronautic Purposes.

SN 655,970. Favta Aktiengesellschaft, Frauenfeld, Thurgau, Switzerland. Filed Nov. 6, 1953.

# Darling

Applicant claims ownership of Swiss Reg. No. 139,546, dated Sept. 28, 1951.

For Sewing Machines With a Free Arm, Particularly for Portable Sewing Machines.

SN 661,004. The Conveyor Company, Vernon, Calif. Filed Feb. 12, 1954.

# MOBIL SWEEPER

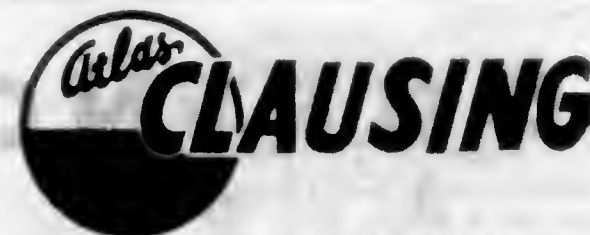
For Motor Operated Street Sweepers.  
Use since Mar. 24, 1950.

SN 662,662. Millers Falls Company, Greenfield, Mass. Filed Mar. 15, 1954.

# DYNO-MITE

Applicant claims ownership of Reg. No. 353,862.  
For Power Bits and Augers.  
Use since Jan. 13, 1954.

SN 662,835. Atlas Press Company, Kalamazoo, Mich. Filed Mar. 18, 1954.



For Lathes, Drill Presses, and Milling Machines.  
Use since Oct. 25, 1951.

SN 663,910. J. F. Hodgkins Company, Randolph, Maine. Filed Apr. 5, 1954.

# KENNELOY

For Pulley Blocks.  
Use since Mar. 17, 1954.

SN 667,344. Salem-Brosius, Inc., Pittsburgh, Pa. Filed May 28, 1954.

# MANIPULET

For Vehicle on Which Are Mounted Article Grasping Means for Handling and Positioning Work Pieces and Other Materials.

Use since Sept. 30, 1952.

SN 671,749. Imperial Knife Company, Inc., Providence, R. I. Filed Aug. 16, 1954.

# CADILLAC

For Stainless Steel Flatware.  
Use since Aug. 5, 1954.

SN 671,836. Landis Machine Company, Waynesboro, Pa. Filed Aug. 17, 1954. Sec. 2(f).

# LANDIS

Applicant claims ownership of Reg. Nos. 177,617, 429,522, and others.

For Cutter Heads, Thread-Cutting Machines, and Cutters Therefor, Collapsible Taps, Chaser Grinding Machines, Thread Grinding Machines, Roller Pipe Cutting Machines, and Thread Rolling Machines.

Use since October 1921 on cutter heads, thread-cutting machines and cutters therefor.

SN 673,249. Joseph J. Settelmayr, Chicago, Ill. Filed Sept. 15, 1954.

# MOTO-VENT

For Internal Combustion Engine Valve Unit and Crankcase Ventilation.

Use since Nov. 1, 1931.

SN 674,418. Robbins & Myers, Inc., Springfield, Ohio. Filed Oct. 6, 1954.

# TAKE IT UP WITH ROBBINS & MYERS

For Cranes and Hoists.  
Use since Sept. 21, 1953.

# SWIM-KLEEN

For Suction Pump-Type Cleaner for Use in Cleaning Swimming Pools.  
Use since Oct. 11, 1954.

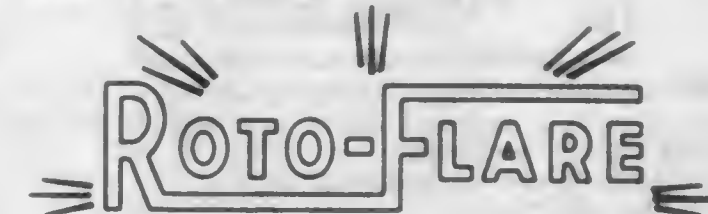
SN 677,682. Tel-E-Lect Products, Inc., Minneapolis, Minn. Filed Dec. 2, 1954.

# Tel-E-Lect

Applicant claims ownership of Reg. No. 539,299.  
For Derrick Mounting Attachments for Trucks To Provide a Swingable Axis of Pivot for the Derrick for the Facilitation of Movement of the Derrick Between Operative and Stored Positions.

Use since on or about June 15, 1954.

SN 678,245. Metro Tool & Engineering Co., Minneapolis, Minn. Filed Dec. 13, 1954.



For Safety Signals of the Type Including a Vane-Equipped Air Motor Having Light Reflective Surfaces on Said Vanes.  
Use since Sept. 21, 1954.

SN 678,274. Superior Screw & Mfg. Co., Inc., Chicago, Ill. Filed Dec. 13, 1954.

# "MAGIC HAND"

For Claw-Type Hand Tool for Gripping and Picking Up Objects in Inaccessible Places.  
Use since Oct. 22, 1954.

SN 679,568. Fish Carburetor Corporation, Daytona Beach, Fla. Filed Jan. 7, 1955.



For Internal Combustion Engine Carburetors.  
Use since June 2, 1954.



SN 680,392. Kiekhaefer Corporation, Cedarburg, Wis. Filed Jan. 24, 1955.

**SUPER SILENT SIX**

The drawing is lined for gold. Applicant disclaims the word "Six."

For Outboard Motors and Parts Thereof.  
Use since Dec. 22, 1954.

SN 680,605. Georg Jensen Inc., New York, N. Y. Filed Jan. 27, 1955.



The abbreviation "Inc." is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 148,928, 540,621, and others.

For Bottle Openers and Pocket Knives.  
Use since July 1942.

SN 680,679. Lord Manufacturing Company, Erie, Pa. Filed Jan. 28, 1955.

**DYNAFLEX**

For Engine Mountings and Parts Thereof.  
Use since November 1954.

**CLASS 24**

SN 672,412. Herbert Glatt, d. b. a. Magla Products, Newark, N. J. Filed Aug. 30, 1954.

**OLIUM**

For Iron Board Pads.  
Use since June 20, 1954.

**CLASS 25**

SN 634,427. Wright Products, Inc., St. Paul Park, Minn. Filed Aug. 25, 1952.



The trademark consists of the word "Wright," with a checkerboard design forming a portion of the background.

For Tubular Latches for Screen, Storm, or Combination Doors; Push-Pull Latches for Screen, Storm, or Combination Doors; Bore-In Latches for Screen, Storm, or Combination Doors; Window Locking Latches; Locking Lever and Lock Plate for Windows and Key Locking Latch for Knobs.  
Use since June 25, 1952.

**CLASS 26**

SN 660,417. Logistics Research Inc., Redondo Beach, Calif. Filed Feb. 1, 1954.

**LOGRINC**

For Automatic Graph Plotter-Followers.  
Use since Apr. 8, 1953.

SN 661,961. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 3, 1954.

**MINI-PILOT**

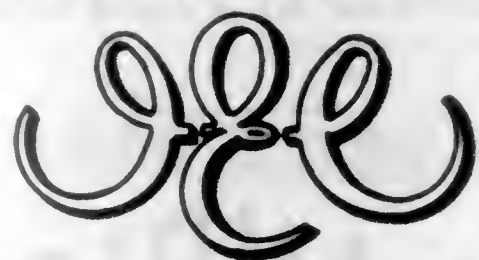
For Thermoelectric Generators Including a Combined Thermocouple and a Gaseous Fuel Burner.  
Use since Dec. 21, 1953.

SN 663,757. Universal Controls Corporation, Dallas, Tex. Filed Apr. 1, 1954.

**DRAGNET**

For Leak Testers and Detectors for Piping and Pipe Lines.  
Use since Feb. 8, 1954.

SN 676,632. International Equipment Company, Boston, Mass. Filed Nov. 15, 1954.



Applicant claims ownership of Reg. No. 295,576. For Centrifuges, Centrifugal Separators, Centrifuge Accessories and Equipment, Bottle Shaking Machines, and Microtomes Especially for Laboratory Use.  
Use since April 1916.

SN 677,126. Agfa Camera-Werk Aktiengesellschaft, Munich, Germany. Filed Nov. 23, 1954.

**Variomat**

Applicant claims ownership of German Reg. No. 625,172, dated Aug. 23, 1952.  
For Photographic Printing Frames.

SN 677,397. Dexter Folder Company, Pearl River, N. Y. Filed Nov. 29, 1954.

**Filmsart**

Applicant claims ownership of Reg. Nos. 520,724 and 551,626.

For Apparatus for Cutting Individual Frames and/or Strips of Microfilm From a Supply Length of Such Film and Inserting the Same Between the Piles of Multi-Ply Jacket Forming Cards.  
Use since July 29, 1953.

SN 678,174. The Ahrendt Instrument Company, College Park, Md. Filed Dec. 13, 1954.



For Fire Control Computers and Components, Dead Reckoning Computing and Plotting Systems, Gyro Stabilizing Systems, Data Conversion and Recording Systems, Guided Missile Control Systems, Servomechanism Testing Equipment and Like Equipment Made to Customer Specification.  
Use since January 1952.

SN 678,926. Otto Fennel Söhne, Kommandit-Gesellschaft, Kassel, Germany. Filed Dec. 24, 1954.

**Fennel**

For Instruments Used for Geodetic Surveys—Namely, Transits, Theodolites, Tacheometers, Levelling Instruments, Telescopes and Parts Thereof, and Measuring Steel Tapes.  
Use since 1851.

SN 679,102. International Business Machines Corporation, New York, N. Y. Filed Dec. 29, 1954.

**Cardatype**

Applicant claims ownership of Reg. No. 570,957. For Accounting Machines and Record Perforating Machines.  
Use since Feb. 23, 1954.

SN 679,609. Shuron Optical Company, Inc., Geneva, N. Y. Filed Jan. 7, 1955.

**RONSTRONG**

Applicant claims ownership of Reg. Nos. 377,228, 589,384, and others. For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.  
Use since July 22, 1936.

SN 679,610. Shuron Optical Company, Inc., Geneva, N. Y. Filed Jan. 7, 1955.

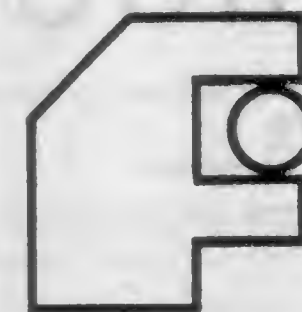
**RONBAR**

Applicant claims ownership of Reg. Nos. 377,228, 589,384, and others. For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.  
Use since 1933.

**RONKING**

Applicant claims ownership of Reg. Nos. 377,228, 589,384, and others. For Ophthalmic Mountings and Parts Thereof—Namely, Spectacle Frames.  
Use since May 4, 1936.

SN 679,836. Fortuna-Werke Spezialmaschinenfabrik Aktien-gesellschaft, Stuttgart-Bad Cannstatt, Germany. Filed Jan. 13, 1955.



Applicant claims ownership of German Reg. No. 665,681, dated Nov. 2, 1954.

For Dynamic Balancing Machines; Time Measuring Switches; Measuring Apparatus, Machines and Instruments for Measuring Length, Angle, Tension, Stress and Strain, Volume, Weight, Liquid and Gas Level, Pressure, Light Intensity, Heat, Speed and Acceleration—Namely, Callipers and Parts Thereof, Calliper Gauges, Thickness Gauges, Hole Gauges, Micrometers, Planimeters, Dial Indicators, Sextants, Tensometers, Gas Meters, Weighing Machines, Manometers, Voltmeters, Photometers, Actinometers, Exposure Meters and Speedometers, Time Registering Instruments; Surface Finish Testing and Measuring Instruments; Straddle Gauges, Thread Measuring Instruments, Taper Testing Instruments, Comparators, Radius Deviation Instruments, Instruments for Measuring and Checking Plane Surface and Edge Parallelism, Dimensional Gauges, Levels, Rules, Measuring Tape, Control Instruments for Controlling the Dimensions of Objects, Measuring Instruments for Measuring Objects, Gauges for Measuring and Comparing the Dimensions of Objects, Temperature Control Devices, Thermostat-Operated Mechanism for Automatically Adjusting the Temperature and Speed of Movement of Fluids and Teleindicator Mechanisms for Tools, Electrically and Pneumatically Operated Apparatus for Use in Automatically Measuring and Controlling the Work of Machine Tools.

SN 680,445. Auto-Photo Company, Los Angeles, Calif. Filed Jan. 25, 1955.

**PHOTOME**

For Photographic Apparatus and Parts Thereof and Accessories Thereof.  
Use since Jan. 3, 1955.

SN 680,499. H. Dudley Wright, d. b. a. Wright Engineering Company, Pasadena, Calif. Filed Jan. 25, 1955.

**DIGITRAN**

For Pressure Measuring Instruments.  
Use since June 1, 1951.



SN 680,500. H. Dudley Wright, d. b. a. Wright Engineering Company, Pasadena, Calif. Filed Jan. 25, 1955.

# DIGIPOT

For Visually Indicating Electrical Potentiometer Devices.  
Use since July 2, 1953.

SN 680,501. H. Dudley Wright, d. b. a. Wright Engineering Company, Pasadena, Calif. Filed Jan. 25, 1955.

# DIGICON

For Visually Indicating Electrical Contactor Devices.  
Use since Sept. 8, 1954.

SN 680,606. Georg Jensen Inc., New York, N. Y. Filed Jan. 27, 1955.



The abbreviation "Inc." is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 148,928, 540,621, and others.

For Magnifying Glasses.  
Use since July 1942.

SN 680,615. Link Aviation, Inc., Binghamton, N. Y. Filed Jan. 27, 1955.

# RESOMAX

For Potentiometers.  
Use since Jan. 3, 1955.

SN 680,786. Okula Narodni Podnik, also named Okula National Corporation, Nyrsko, Czechoslovakia. Filed Jan. 31, 1955.

# OLONIT

Applicant claims ownership of Czechoslovakian Reg. No. 151,030, dated July 8, 1952.

For Spectacles and Spectacle Frames Particularly Such Made From Synthetic Materials.

SN 680,964. Obex Manufacturing Co., Inc., Lynbrook, N. Y. Filed Feb. 2, 1955.



For Cameras, and Parts Thereof.  
Use since Jan. 5, 1948.

SN 681,005. Gardner-Denver Company, Denver, Colo. Filed Feb. 3, 1955.

# THRIFTMETER

For Compressor Control and Regulating Unit.  
Use since Aug. 10, 1954.

SN 681,827. American Optical Company, Southbridge, Mass. Filed Feb. 17, 1955.

# WISP-A-LITE

For Sunglasses and Parts Thereof.  
Use since December 1954.

SN 681,958. The Upjohn Company, Kalamazoo, Mich. Filed Feb. 18, 1955.

# Turfometer

For Device To Aid in the Calculating of Surface Areas.  
Use since Nov. 4, 1954.

SN 682,078. Sterling Ross Shelden, d. b. a. Shelden's Minerals Agency, Denver, Colo. Filed Feb. 21, 1955.

# "S-49er"

For Geiger Counters.  
Use since Jan. 14, 1955.

SN 682,245. Rolf E. Darbo, d. b. a. Rolf Darbo Enterprises, Madison, Wis. Filed Feb. 24, 1955.

# COLD CUP

For Devices for Determining the Freezing Point of Liquids.  
Use since November 1953.

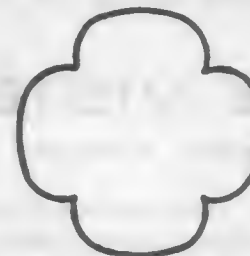
SN 687,160. Wilhelm Witt, d. b. a. Iloca Camera, Hamburg, Germany. Filed May 9, 1955.

# Iloca

For Cameras.  
Use since June 15, 1949.  
Subj. to Intf. with Reg. No. 548,823.

## CLASS 27

SN 681,261. Enicar S. A. (Enicar Ag.) (Enicar Ltd.), Lengnau, near Bienne, Switzerland. Filed Feb. 8, 1955.



Applicant claims ownership of Swiss Reg. No. 152,978, dated Sept. 25, 1954.  
For Watch Casings.

## CLASS 28

SN 670,764. H. Weinreich Company Inc., Philadelphia, Pa. Filed July 28, 1954.

# Queen of Hearts

For Bracelets, Brooches, Finger Rings, Earrings, Locket, Necklaces, Ornamental Pins, Anklets, and Barrettes, Wholly or Partly Plated With Precious Metals.  
Use since on or about Apr. 26, 1954.

SN 670,765. H. Weinreich Company Inc., Philadelphia, Pa. Filed July 28, 1954.



For Bracelets, Brooches, Finger Rings, Earrings, Locket, Necklaces, Ornamental Pins, Anklets, and Barrettes, Wholly or Partly Plated With Precious Metals.  
Use since on or about Apr. 26, 1954.

## CLASS 29

SN 665,104. E Z Paints Corporation, Milwaukee, Wis. Filed Apr. 23, 1954.

# Dezyn Kotr

For Clamp for Attaching a Design Paint Roller to a Conventional Paint Roller.  
Use since Apr. 13, 1954.

SN 677,828. Nishan G. Tersian, d. b. a. Tersian Applicator Company, Arlington, Mass. Filed Dec. 6, 1954.



For Hand-Manipulated Wax Applicator and Polisher for Floors.  
Use since May 22, 1954.

## CLASS 31

SN 646,936. General Motors Corporation, Detroit, Mich. Filed May 13, 1953.

# FRIGIDAIRE

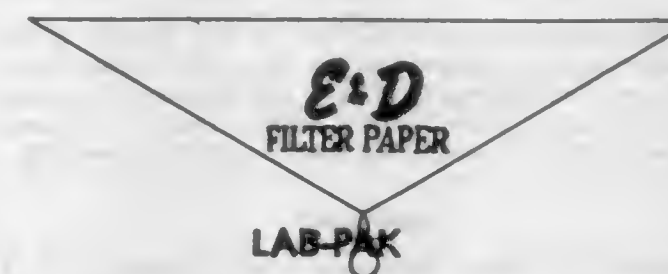
Applicant claims ownership of Reg. No. 137,502.  
For Refrigerators, Mechanical Refrigerating Apparatuses of All Types Both Household and Commercial, and Parts Thereof.  
Use since on or shortly after Sept. 21, 1918.

SN 669,977. The Eaton-Dikeman Company, Mount Holly Springs, Pa. Filed July 14, 1954.

# Flavor Saver

For Coffee Filter.  
Use since Apr. 14, 1954.

SN 669,978. The Eaton-Dikeman Company, Mount Holly Springs, Pa. Filed July 14, 1954.



No claim is made to the words "Filter Paper" apart from the mark shown.  
For Laboratory Filter Papers.  
Use since Apr. 23, 1954.

SN 673,632. Dole Refrigerating Company, Chicago, Ill. Filed Sept. 23, 1954.

# Heat-Cel

Applicant claims ownership of Reg. Nos. 594,861 and 601,028.  
For Refrigeration System Equipment—Namely, Automatic Defrosting Units.  
Use since Aug. 27, 1954.



SN 674,389. C. V. Hill & Company, Inc., Trenton, N. J. Filed Oct. 6, 1954. SN 673,712. Adams Engineering Co., Inc., Miami, Fla. Filed Sept. 24, 1954.

## MELT-O-CYCLE

For Defrosting Units for Refrigerating Systems.  
Use since Sept. 20, 1954.

SN 674,523. Metal Textile Corporation, Roselle, N. J. Filed Oct. 8, 1954.

## HI-THRUPUT

For Mist Eliminators Comprising a Pad Formed From Multiple Layers of Knitted Wire Mesh for Use in Fractionating Towers, Evaporators, and Other Types of Vessels and Operative To Separate Entrained Liquid Particles From a Gas Stream.

Use since on or about Nov. 28, 1952.

SN 678,692. Tri-State Distributors, Inc., Delphos, Ohio, by change of name Tri-State Electric Mfg. Co. Filed Dec. 20, 1954.

## Quality Living

For Home Freezers.  
Use since May 18, 1954.

### CLASS 32

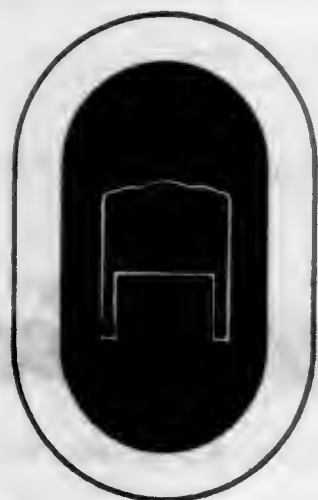
SN 652,352. Smilow-Thielle Modern Interiors, New York, N. Y. Filed Aug. 26, 1953.

## prize modern

For Household Furniture for Any of the Various Rooms of an Apartment or a House and for Any of the Various Parts of a House, and Embracing Chairs and Benches, Ottomans, Settees, Lounges, Sofas, Tables, Beds, Desks, Bookcases, Cabinets, Buffets, Hassocks, Dressers, and Floor Screens.

Use since June 11, 1953.

SN 669,810. Sedgwick Furniture Corp., Brooklyn, N. Y. Filed July 12, 1954. Sec. 2(f).



For Headboards for Beds.  
Use since Apr. 15, 1947.



No claim is made to the words "Exclusive With ABC" apart from the mark as shown.

For Plastic Webbing Woven to Size and Merchandised in That Form for Aluminum Summer Furniture.  
Use since Sept. 8, 1954.

SN 676,580. Acme Visible Records, Inc., Crozet, Va. Filed Nov. 15, 1954.

## ACME VISIBLE

Applicant claims ownership of Reg. Nos. 342,738, 435,709, and others.

For Filing Cabinets, Visible Record Cabinets, Stands for Filing Cabinets and Visible Record Cabinets, Visible Record and Index Sectional Units, Visible Record and Index Portable Trays, Visible Record and Index Rotary Stands, Visible Record and Index Desk Stands, Desk Stand Tables, Telephone Wall Brackets, Visible Record and Index Frames, and Key Shelf Directory Units.

Use since Apr. 1, 1954.

SN 677,475. Amberg File and Index Company, Kankakee, Ill. Filed Nov. 30, 1954.



Applicant claims ownership of Reg. Nos. 430,911 and 501,652.

For Paper and Chipboard Transfer Cases and Files, Chipboard Files, Letter and Legal Size Box Files, Binders' Board Card Index Trays Having an Agate Paper Covering, and Cabinets Covered To Simulate Leather for Storing Phonograph Records.

Use since Jan. 20, 1942, on cabinets covered to simulate leather for storing phonograph records.

SN 678,752. Universal-Rundle Corporation, New Castle, Pa. Filed Dec. 21, 1954.



Applicant claims ownership of Reg. No. 525,531.  
For Undersink Steel Kitchen Cabinets.  
Use since July 1953.

### CLASS 33

SN 664,952. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Apr. 21, 1954.



The word "Ground," the word "Polished" and the representation of the grinding process are disclaimed for the purpose of this registration apart from the mark as shown. Applicant claims ownership of Reg. Nos. 285,973, 555,641, and others.

For Plate Glass.  
Use since Apr. 7, 1954.

### CLASS 34

SN 612,704. Radiant-Aire Corporation, Michigan City, Ind. Filed Apr. 16, 1951.

## RADIANT-AIRE

For Home Heating Fuel Burning Furnaces and Burners for Such Furnaces.  
Use since Apr. 4, 1951.

SN 654,307. Emerson Radio and Phonograph Corporation, New York, N. Y. Filed Oct. 7, 1953. Sec. 2(f).



Applicant claims ownership of Reg. No. 563,207.  
For Room Air Conditioners.  
Use since Oct. 5, 1953.

SN 657,447. Joseph M. North, Phoenix, Ariz. Filed Dec. 4, 1953.

## NORTH-AIRE

For Forced Draft Evaporative Air Cooler for Automobiles and Like Vehicles.  
Use since Apr. 15, 1953.

SN 663,536. The Trane Company, La Crosse, Wis. Filed Mar. 29, 1954.

## Delta Flo

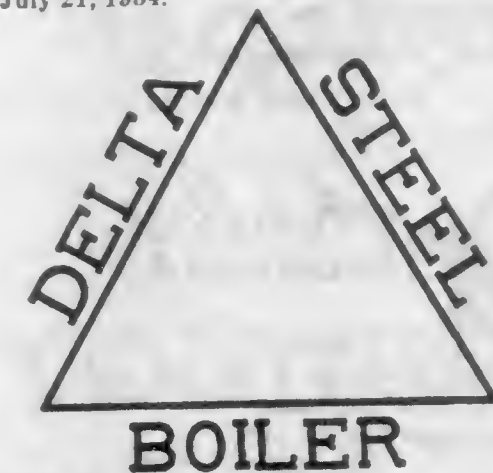
For Heat Exchangers, Fin and Tube Coils, Heating Coils, Cooling Coils, and Heat Transfer Fins.  
Use since Mar. 16, 1954.  
Subj. to Intf. with SN 670,397.

SN 670,044. Fitzgibbons Boiler Co. Inc., New York, N. Y. Filed July 15, 1954. Sec. 2(f).

## FITZGIBBONS

Applicant claims ownership of Reg. Nos. 179,800, 217,589, and 366,985.  
For Steam and Hot Water Boilers.  
Use since November 1886.

SN 670,397. Wm. C. Zingheim Company, Inc., Chicago, Ill. Filed July 21, 1954.



No claim is made to the words "Steel" and "Boiler" except as associated with the trademark.  
For Boilers, Heating and Ventilating Apparatus.  
Use since Nov. 17, 1952.  
Subj. to Intf. with SN 663,536.

SN 671,748. Imperial Chemical Industries Limited, London, England. Filed Aug 16, 1954.

## ALUMBRO

For Boiler Tubes, and Condenser Tubes.  
Use since June 13, 1928.

SN 678,975. Dresser Industries, Inc., Bradford, Pa. Filed Dec. 27, 1954.



Applicant claims ownership of Reg. Nos. 153,840 and 546,774.

For Centrifugal Air and Gas Blowers and Exhausters, and Rotary Positive Air and Gas Blowers and Exhausters.  
Use since Sept. 28, 1954, on centrifugal blowers.



## CLASS 35

SN 680,015. O. K. Ko-Op Rubber Welding System, Littleton, Colo. Filed Jan. 17, 1955.



Applicant claims ownership of Reg. No. 585,141.  
For Automobile Tires and Tubes.  
Use since on or about Dec. 20, 1954.

SN 680,016. O. K. Ko-Op Rubber Welding System, Littleton, Colo. Filed Jan. 17, 1955.



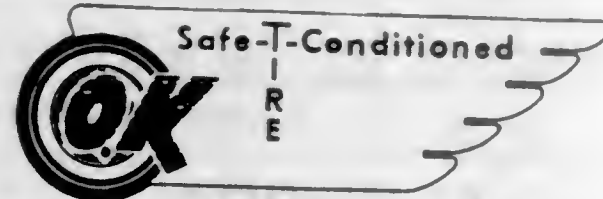
Applicant claims ownership of Reg. No. 585,141.  
For Automobile Tires and Tubes.  
Use since on or about Dec. 20, 1954.

SN 680,018. O. K. Ko-Op Rubber Welding System, Littleton, Colo. Filed Jan. 17, 1955.



Applicant claims ownership of Reg. No. 585,141.  
For Automobile Tires and Tubes.  
Use since on or about Dec. 20, 1954.

SN 680,019. O. K. Ko-Op Rubber Welding System, Littleton, Colo. Filed Jan. 17, 1955.



Applicant claims ownership of Reg. No. 585,141.  
For Automobile Tires and Tubes.  
Use since on or about Dec. 20, 1954.

## CLASS 37

SN 656,357. Inlander-Steindler Paper Company, Chicago, Ill. Filed Oct. 23, 1953.



Applicant claims ownership of the mark shown in expired Reg. No. 166,367.  
For Wrapping Paper.  
Use since Aug. 15, 1922.

SN 658,721. Groveton Papers Co., Groveton, N. H. Filed Dec. 29, 1953.

# VANITY FAIR

Applicant claims ownership of Reg. No. 264,516.  
For Toilet Paper, Paper Napkins, Paper Towels, Facial Tissue, Tissue Paper, and Waxed Paper.  
Use since July 1, 1918.

SN 664,185. Standard Paper Corporation, New York, N. Y. Filed Apr. 8, 1954.

# "ARISTOCRAT"

For Adding and Calculating Machine Paper.  
Use since 1923.

SN 671,359. Modena Paper Mills, Incorporated, Modena, Pa. Filed Aug. 9, 1954. Sec. 2(f).

# MODENA

For Manifold, Mimeograph, Bond, Duplicator, and Off-Set Paper.  
Use since August 1941.

SN 677,312. Gettler-Montanye, Inc., Glyndon, Md. Filed Nov. 26, 1954. Sec. 2(f).

# RITE-EZEE

Applicant claims ownership of Reg. Nos. 343,631 and 515,370.  
For Pens for Writing—Namely, Mechanical Ball Point Pens.  
Use since April 1948.

SN 677,559. Fort Howard Paper Company, Green Bay, Wis. Filed Dec. 1, 1954.

# handinap

For Paper Napkins.  
Use since Nov. 8, 1954.

SN 677,560. Fort Howard Paper Company, Green Bay, Wis. Filed Dec. 1, 1954.

# HANDINAPS

Applicant claims ownership of Reg. No. 255,093, expired.  
For Paper Napkins.  
Use since Feb. 25, 1930.

SN 679,093. Fort Howard Paper Company, Green Bay, Wis. Filed Dec. 29, 1954.

# TISHU-NAP

For Paper Napkins.  
Use since Dec. 23, 1954.

## CLASS 38

SN 671,711. Associated Tobacco Manufacturers, Washington, D. C. Filed Aug. 16, 1954.

# TOBACCOSCOPE

For Semi-Monthly Publication for Disseminating Statistical Information on Tobacco Products Manufacture and Use.  
Use since Aug. 14, 1946.

SN 673,573. Coats & Clark Inc., New York, N. Y. Filed Sept. 22, 1954.

# STITCH<sup>in</sup>TIME

Applicant claims ownership of Reg. No. 365,692.  
For Sewing and Fancy Work Leaflet Issued Periodically.  
Use since in or about September 1938.

SN 677,983. Publishing and Research, Inc., d. b. a. Bellman Publishing Company, Lexington, Mass. Filed Dec. 8, 1954.



For Books and Pamphlets.  
Use since 1934.

## CLASS 39

SN 644,849. Lebow Bros. Inc., Baltimore, Md. Filed Apr. 7, 1953.

# Camelaire

For Suits and Top Coats for Men.  
Use since Aug. 8, 1952.

SN 645,874. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

# BRIGADOON

For Men's Clothing—Namely, Coats, Topcoats, and Suits.  
Use since Apr. 14, 1953.

SN 645,875. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

# regatta

For Men's Clothing—Namely, Coats, Topcoats, and Suits.  
Use since Apr. 14, 1953.

SN 645,878. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

# roamer

For Men's Clothing—Namely, Coats, Topcoats, and Suits.  
Use since Apr. 14, 1953.

SN 645,882. Eagle Clothes, Inc., Brooklyn, N. Y. Filed Apr. 24, 1953.

# Trafalgar

For Men's Clothing—Namely, Coats, Topcoats, and Suits.  
Use since Apr. 14, 1953.

SN 650,571. Bellcraft Manufacturing Company, Hartwell, Ga. Filed July 21, 1953.

# Bellcraft

For Sports Shirts for the Use of Men, Boys, and Children.  
Use since Mar. 12, 1953.

SN 653,234. Scott & Company, Limited, Boston, Mass. Filed Sept. 15, 1953. Sec. 2(f).

# Scott & Company

For Men's and Young Men's Suits, Topcoats, Overcoats, Sport Jackets, Trousers, Ties, and Hats.  
Use since April 1905.



SN 655,134. Hickey-Freeman Company, Rochester, N. Y. SN 661,666. The Seiby Shoe Company, Portsmouth, Ohio.  
Filed Oct. 21, 1953. Sec. 2(f). Filed Feb. 25, 1954.

**KURDAN-KASHMIR**

For Men's Suits and Coats.  
Use since in or about July 1928.

SN 655,605. Stefan Sender, New York, N. Y., to Alexander Back, d. b. a. Back Export & Import Co., New York, N. Y.  
Filed Oct. 30, 1953.



For Women's Hosiery.  
Use since in September 1951.

SN 661,476. A. I. Meyer Corporation, Boston, Mass. Filed Feb. 23, 1954.

**The FALCON**

For Men's and Boys' Rainwear—Namely, Coats and Jackets.  
Use since Jan. 6, 1954.

SN 661,500. Princess Royal Knitting Mills, Reading, Pa.  
Filed Feb. 23, 1954. Sec. 2(f).



Applicant claims ownership of the mark shown in Reg. No. 286,459.  
For Ladies' Hosiery.  
Use since June 5, 1930.

**Coach & Four**

Applicant claims ownership of Reg. No. 581,571.  
For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.  
Use since Oct. 27, 1953.

SN 661,711. The Joseph & Feiss Company, Cleveland, Ohio.  
Filed Feb. 26, 1954.

**Kirkshire**

For Men's Clothing—Namely, Suits, Topcoats, Overcoats, Sport Coats, and Slacks.  
Use since Mar. 2, 1948.

SN 661,878. Cutter Cravat, Inc., Chicago, Ill. Filed Mar. 2, 1954.

**Cutter Copy**

Applicant claims ownership of Reg. Nos. 415,739 and 529,298.  
For Cravats and Neckties.  
Use since June 1, 1953.

SN 662,006. Jeff-Richard, Inc., Philadelphia, Pa. Filed Mar. 4, 1954.

**Queenies**

For Children's Apparel—Namely, Coats, Jackets, and Snow-suits, Comprised of Leggings and Jackets.  
Use since Dec. 12, 1949.

SN 662,339. Seattle Quilt Manufacturing Co., Inc., Seattle, Wash. Filed Mar. 9, 1954.

**TRILUX**

For Hunters' Game Jackets Having a Water Repellent Exterior and a Game Pouch in the Back, for Use by Men or Women.  
Use since Dec. 31, 1953.

SN 662,424. Durham-Wyss, West Columbia, S. C. Filed Mar. 11, 1954. SN 664,203. American Girl Shoe Co., Boston, Mass. Filed Apr. 9, 1954.

**Sugar 'n Spice**

For Children's Panties, Slips, and Pajamas.  
Use since Jan. 15, 1954.

SN 663,179. Julius Garfinckel & Co., Incorporated, Washington, D. C. Filed Mar. 24, 1954.

**JULIUS GARFINCKEL & Co.**

"Julius Garfinckel" is the name of the founder of the applicant corporation.

For Bathing Suits, Belts, Coats, Gloves Made of Leather, Fabric or Combinations Thereof, Hats, Pajamas, Robes, Scarfs, Shoes, Socks, Suits, and Sweaters for Men, Women, Boys, and Girls; Blouses, Dresses, Gowns, Panties, Petticoats, Skirts, and Slips for Women and Girls; Brassieres, Bedjackets, Bridal Gowns, Bridal Vests, Corsets, Handkerchiefs, Hosiery, Negligees, Stoles, T-Shirts and Nurses' and Maids' Uniforms for Women; Shirts, Slacks, Ties, Underwear (Shorts and Shirts), Vests, and Jackets for Men and Boys; Dungarees for Boys; and Infants' Wear.

Use since Oct. 2, 1905.

SN 663,354. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed Mar. 26, 1954.

**Costume Keys**

For Ladies' Hosiery.  
Use since Feb. 10, 1953.

SN 663,361. Excellio Shirts, Inc., New York, N. Y. Filed Mar. 26, 1954.

**CHAMBRAY CHARTRES**

"Chambray" is disclaimed, apart from the mark as shown.  
For Men's and Boys' Negligee and Dress Shirts.  
Use since Mar. 5, 1954.

SN 663,876. Blue Bell, Inc., Greensboro, N. C. Filed Apr. 5, 1954.

**Wrangler Frontier Jeans**

The word "Jeans" is disclaimed apart from the mark. Applicant claims ownership of Reg. Nos. 441,727, 517,844, and 532,851.

For Ladies' and Girls' Dungarees.  
Use since Mar. 22, 1954.

**Cotillion Footwear**

The word "Footwear" is disclaimed apart from the mark as shown on the drawing.

For Ladies' and Misses' Shoes.  
Use since Nov. 17, 1952.  
Subj. to Int'l. with SN 686,918.

SN 664,962. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Filed Apr. 21, 1954.

**SOLAR**

For Boys' Plastic Boots and Plastic Helmets.  
Use since on or about Nov. 27, 1953.

SN 665,355. Ideal Shoe Company, Philadelphia, Pa. Filed Apr. 28, 1954.

**Wee debs**

For Shoes for Children.  
Use since Jan. 15, 1954.

SN 665,779. Quaker Shirt Corp., New York, N. Y. Filed May 5, 1954.

**Taylord**

For Men's Shirts.  
Use since Apr. 21, 1954.

SN 666,673. Loaf-Eez Sportswear Co., Scranton, Pa. Filed May 19, 1954.



The descriptive wording "Tailored By" and "Sportswear" are disclaimed from the trademark as shown.

For Men's, Ladies', Boys', Girls' Shorts, Slacks, Dungarees, Caps, Hats, Jackets, Shirts, Coats, Bib Overalls, Work Suits, Breeches, Mackinaws, Pea Coats, Aprons, Shopcoats, Pedal Pushers, Halters, Dresses, Blouses, Skirts.

Use since Mar. 1, 1949.



SN 666,916. Carmo Shoe Manufacturing Company, Union, Mo. Filed May 24, 1954.

*Stepees Pumps*

No claim is made to the word "Pumps" apart from the mark as shown. Applicant claims ownership of Reg. No. 375,531.

For Women's Shoes.  
Use since June 1936.

SN 669,264. The Hercules Trousar Company, Columbus, Ohio. Filed July 1, 1954.



The word "Slacks" is disclaimed apart from the mark as shown.

For Men's Trousers.  
Use since Jan. 26, 1954.

SN 669,431. W. T. Grant Company, New York, N. Y. Filed July 6, 1954.

*Pennleigh*

Applicant claims ownership of Reg. No. 292,535.  
For Articles of Wearing Apparel and Accessories for Men—Namely, Shoes, Slippers, Hose, Underwear, Pajamas, Outer Shirts, Sweaters, Trousers, Jackets, Surcoats, Hats, Swim Trunks, Neckties, Handkerchiefs, Suspenders, Belts, Garters, and Leather Gloves.

Use since July 1, 1925, on outer shirts, underwear, and pajamas.

SN 669,458. Merrimac Hat Corporation, New York, N. Y. Filed July 6, 1954. Sec. 2(f) as to "Merrimac."



The words "Velour Français" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 421,014.

For Women's and Children's Hats and Hat Bodies.  
Use since Jan. 1, 1950; and 1856 as to "Merrimac."

SN 669,984. General Garment Manufacturing Company, Incorporated, Petersburg, Va. Filed July 14, 1954.

**SATURDAY  
SHIRT**

The word "Shirt" is disclaimed apart from the mark shown.

For Men's, Boys', Women's, and Girls' Shirts.  
Use since June 4, 1954.

SN 670,455. Bear Brand Hosiery Co., Chicago, Ill. Filed July 23, 1954.

**VISTA**

For Women's Hosiery.  
Use since Mar. 11, 1954.

SN 670,680. Haspel Brothers, Inc., New Orleans, La. Filed July 27, 1954.

**SOLANO**

For Men's and Boys' Suits, Coats, Pants, Trousers, and Vests.  
Use since July 15, 1954.

SN 670,833. Hayward-Schuster Woolen Mills, Inc., East Douglas, Mass. Filed July 30, 1954.

**FROST FLEECE**

For Wool Men's, Women's, and Children's Outer Garments—Namely, Men's and Children's Jackets and Mackinaws and Women's and Children's Coats.  
Use since Jan. 16, 1950.

SN 672,130. Wispese Corp., New York, N. Y. Filed Aug. 23, 1954.

*Wispon*

Applicant claims ownership of Reg. No. 369,907.  
For Girdles and Briefs for Women's Wear.  
Use since June 14, 1954.

SN 673,184. Kay Windsor Frocks, Inc., Boston, Mass. Filed Sept. 14, 1954.

*Kay Windsor*

Applicant claims ownership of Reg. No. 394,885.  
For Misses', Women's, and Juniors' Dresses.  
Use since February 1940.

SN 675,043. Wispese Corp., New York, N. Y. Filed Oct. 18, 1954.

*Wee Wisp*

Applicant claims ownership of Reg. No. 369,907.  
For Girdles and Panty Girdles.  
Use since Sept. 16, 1951.

SN 675,044. Wispese Corp., New York, N. Y. Filed Oct. 18, 1954.

*Wispon*

Applicant claims ownership of Reg. No. 369,907.  
For Girdles, Panties, and Panty Girdles.  
Use since 1943.

SN 675,330. W. E. Stephens Mfg. Co., Nashville, Tenn. Filed Oct. 22, 1954.

*Brand*

For Dungarees for Men, Boys, Ladies, and Girls.  
Use since July 15, 1954.

SN 676,136. Rainfashions Fifth Avenue, Inc., New York, N. Y. Filed Nov. 5, 1954. Sec. 2(f).

*rainfashions  
Fifth avenue*

Applicant claims ownership of Reg. No. 427,701.  
For Women's, Misses', and Girls' Raincoats, Rain Jackets, Rain Capes, Rain Hoods, and Booties.  
Use since 1942.

SN 676,676. S. Stroock & Co., Inc., New York, N. Y. Filed Nov. 15, 1954.

*Camelcrest*

For Women's Outer Garments—Namely, Coats.  
Use since May 18, 1954.

*Kashmircrest*

For Women's Outer Garments—Namely, Coats.  
Use since Nov. 8, 1954.

SN 677,246. Russell-Newman Mfg. Co., Inc., Denton, Tex. Filed Nov. 24, 1954.

*LAZY PJ's*

For Women's Pajamas.  
Use since Oct. 29, 1954.

SN 677,662. Roger Kent, Inc., New York, N. Y. Filed Dec. 2, 1954.

*"Naturally Yours"*  
**THE JUDGE**

Applicant claims ownership of Reg. No. 602,191.  
For Men's Suits, Coats, and Slacks and Women's Slacks.  
Use since in the year 1938.

SN 677,908. Swirl, Inc., Easley, S. C. Filed Dec. 7, 1954.

*Swirl*

Applicant claims ownership of Reg. Nos. 553,692 and 560,342.  
For Women's and Misses' Textile Aprons.  
Use since Jan. 14, 1944.

SN 678,697. Gilbert B. Wagenfeld, d. b. a. Cellucap Manufacturing Company, Philadelphia, Pa. Filed Dec. 20, 1954.

*Cellucap*

For Disposable Caps Made Principally of Paper.  
Use since November 1954.



SN 679,066. Tempest Shirt Mfg. Co., Inc., Jesup, Ga. Filed Dec. 28, 1954.

# MR. MUSCLE

For Men's and Boys' Sport Shirts.  
Use since on or about Dec. 1, 1954.

SN 686,918. Odek Sales Corporation, New York, N. Y. Filed May 5, 1955.

# Cotillion

For Hosiery.  
Use since June 1953.  
Subj. to Intf. with SN 664,203.

## CLASS 40

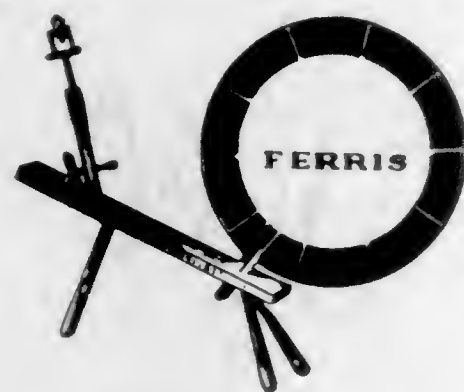
SN 675,881. Joseph Fleischer & Company, New York, N. Y. Filed Nov. 2, 1954. Sec. 2(f).

# Toppers

For Hair Toupees.  
Use since July 1, 1948.

## CLASS 42

SN 658,677. Wawak Company, Inc., also d. b. a. Ferris Woolen Company, Chicago, Ill. Filed Dec. 28, 1953. Sec. 2(f) as to "Ferris."



Applicant claims ownership of Reg. Nos. 408,611 and 547,686.  
For Woolen Piece Goods.  
Use since July 2, 1953; and since May 15, 1919, as to "Ferris."

SN 659,250. Elniger Mills, Inc., New York, N. Y. Filed Jan. 11, 1954.

# HUARAZA

For Piece Goods of Wool.  
Use since Jan. 12, 1953.

SN 665,993. Joseph Bancroft & Sons Co., Wilmington, Del. Filed May 10, 1954.

# BAN-LITE

For Shade Cloth.  
Use since Apr. 9, 1954.

SN 675,032. Jack Turk & Co., Inc., New York, N. Y. Filed Oct. 18, 1954.

# Kozee Komfort SMOOTHY

Applicant claims ownership of Reg. No. 415,823.  
For Blankets, Crib Blankets, Quilts, and Crib Quilts.  
Use since June 1, 1954.

SN 675,033. Jack Turk & Co., Inc., New York, N. Y. Filed Oct. 18, 1954.

# Kozee Komfort TUFFY

Applicant claims ownership of Reg. No. 415,823.  
For Blankets, Crib Blankets, Quilts, and Crib Quilts.  
Use since June 4, 1954.

SN 676,019. Wamsutta Mills, New Bedford, Mass. Filed Nov. 3, 1954.

# Blossom-Tones

For Sheets and Pillow Cases.  
Use since August 1951.

SN 677,613. Somersville Mfg. Co., Somersville, Conn. Filed Dec. 1, 1954.

# ALPAQUITA

For Men's Wear Cloth.  
Use since July 22, 1954.

SN 677,919. American Woolen Company, New York, N. Y., now by merger and change of name Textron American, Inc. Filed Dec. 8, 1954.

# Nub-Bloom

For Woolen Piece Goods.  
Use since Oct. 18, 1954.

## CLASS 43

SN 668,791. Societe Rhodiacta, Paris, France. Filed June 23, 1954.

# CRYLOR

Priority under Sec. 44(d). French application filed Feb. 12, 1954, Reg. No. 34,217, dated Feb. 12, 1954.  
For Threads and Yarns.

SN 672,574. Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Filed Sept. 1, 1954.



Applicant claims ownership of German Reg. No. 370,659, dated Mar. 3, 1927.  
For Threads and Yarns Composed of Artificial Silk.

## CLASS 44

SN 679,089. Exer-Ball, Inc., Cleveland, Ohio. Filed Dec. 29, 1954.

# Exer-Ball

For Compressible Therapeutic Ball Having a Finger Ring Formed Integral Therewith.  
Use since Oct. 16, 1953.

SN 680,184. Densco, Incorporated, Denver, Colo. Filed Jan. 20, 1955.

# Aquatrol

For Spray Attachments for Dental Handpieces.  
Use since Dec. 31, 1954.

SN 680,438. Vibra-Whirl and Company, d. b. a. Vibra-Whirl Mfg. Co., Panhandle, Tex. Filed Jan. 24, 1955.

# VIBRA-WHIRL

For Hydrotherapy Equipment in the Nature of a Bath Tub Having Liquid Agitating Apparatus as a Part Thereof.  
Use since Aug. 19, 1953.

## CLASS 45

SN 659,855. Arthur R. Flegal, d. b. a. One Way Products Company, Fresno, Calif. Filed Jan. 21, 1954.

# ONE WAY

For Maltless Soft Drinks.  
Use since Nov. 18, 1953.

SN 664,210. Blue Seal Extract Co., Inc., d. b. a. Blue Seal Extract Co., Cambridge, Mass. Filed Apr. 9, 1954.

# MINUTE MAN

Applicant claims ownership of the trademark shown in Reg. No. 297,589.  
For Soft Drinks, Syrups and Extracts for Making the Same.  
Use since Apr. 24, 1931.

SN 665,231. St. Louis Crystal Water and Soda Company, St. Louis, Mo. Filed Apr. 26, 1954.

# SEABREEZE

For Carbonated Beverage of the Tonic Water Type.  
Use since Feb. 1, 1954.

SN 668,517. Best Foods Limited, Wembley, Middlesex, England. Filed June 21, 1954.

# GEE-BEE

For Flavored Sugar Tablets Used in Making Soft Drinks.  
Use since November 1953.

SN 673,686. Charles L. Sandahl, d. b. a. Sandahl Beverages, Austin, Tex. Filed Sept. 23, 1954.

# KIP-UP

For Soft Drinks.  
Use since Aug. 9, 1954.

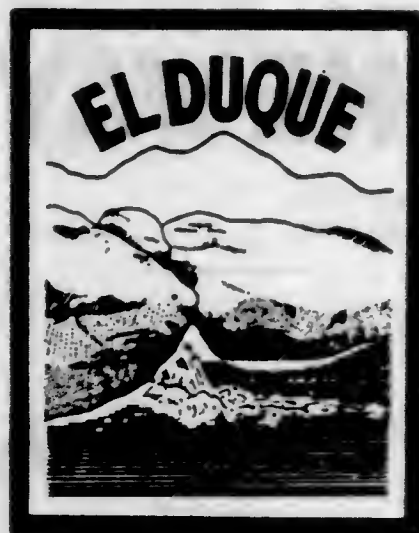
SN 677,349. Perkins Products Company, Chicago, Ill. Filed Nov. 26, 1954.

# Kand-Aid

For Powder Used in the Preparation of Soft Drinks.  
Use since at least as early as Sept. 10, 1954.



SN 677,484. Coco Rico Inc., Guaynabo, Puerto Rico. Filed Nov. 30, 1954. SN 648,322. Terry A. Newman, d. b. a. Newman Rice Mill, Alvin, Tex. Filed June 5, 1953.



"El Duque" means "The Duke."  
For Lemonade, Orangeade, and a Cola Flavored Soft Drink.  
Use since Sept. 15, 1941.

## CLASS 46

SN 636,067. Henry Denny and Sons Limited, London, England. Filed Oct. 2, 1952.



For Cooked Hams.  
Use since 1876.

SN 644,454. Reo Foods, Incorporated, Des Moines, Iowa. Filed Mar. 30, 1953.



For Fried Pork Rinds.  
Use since on or about June 2, 1948.  
Subj. to Intf. with SN 671,427.

SN 645,116. Consumers Cooperative Association, Kansas City, Mo. Filed Apr. 13, 1953. COLLECTIVE MARK. Sec. 2(f).

*Open Formula*

For Dog Food, Poultry Feed, and Livestock Feed.  
Use since October 1943.



The drawing is lined for red and blue.  
For Unspiced, Unseasoned, Uncooked, Unadulterated, Bulk Rice Sold in Large Bags, e. g., 100 Pounds.  
Use since Mar. 4, 1953.

SN 648,984. Donuts, Inc., Boston, Mass. Filed June 18, 1953.

*PIPIN' HOT*

For Partially Cooked Donuts.  
Use since Apr. 20, 1953.

SN 650,716. Klotz Confection Company, Louisville, Ky. Filed July 23, 1953.

*ICY ISLES*

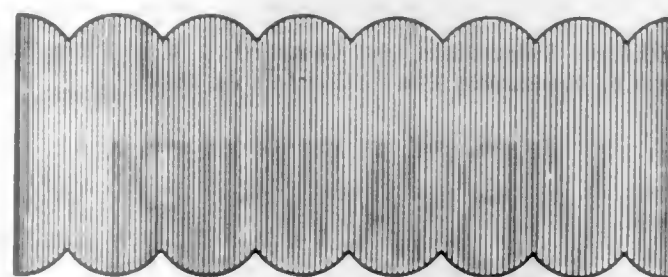
For Candy Bar.  
Use since May 7, 1953.

SN 653,836. J. C. Hering, d. b. a. J. C. Hering Company, Los Angeles, Calif. Filed Sept. 28, 1953. Sec. 2(f).

*Full o' Flavor*

Applicant claims ownership of Reg. No. 400,287.  
For Fresh Vegetables—Namely, Carrots and Celery.  
Use since Mar. 22, 1940.

SN 656,207. The Carey Salt Company, Hutchinson, Kans. Filed Nov. 12, 1953.



The lining is for red. Applicant claims ownership of Reg. Nos. 541,271, 186,970, and others.  
For Salt—Namely, Table Salt, Curing Salt, and Livestock Salt.  
Use since March 1953.

SN 663,559. Breuninger Brothers, Coatesville, Pa. Filed Mar. 30, 1954. SN 666,484. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.



The word "Burger" is disclaimed apart from the mark as shown.

For Seasonings for Foods, Particularly Meats, Which Seasoning Seals in the Natural Flavors of the Food and Gives the Food a Charcoal Broiled Appearance and Flavor.  
Use since May 7, 1953.

SN 664,373. Fred Wolferman, Inc., Kansas City, Mo. Filed Apr. 12, 1954. Sec. 2(f).

*FEW-CAL*

For Bread and Salad Dressing.  
Use since August 1935.

SN 664,753. Golden Lantern Corporation, d. b. a. The Golden Lantern Restaurant, Denver, Colo. Filed Apr. 19, 1954.

*DINE'R-TAKE*

For Frozen Packaged Chicken Pie, Tuna Pie, and Fried Chicken.  
Use since Jan. 1, 1954.

SN 666,480. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

*AMETHINE*

For Food Colors.  
Use since as early as January 1907.

SN 666,481. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

*PERSIAN*

For Food Colors.  
Use since as early as January 1907.

SN 666,483. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

*CITROLINE*

For Food Colors.  
Use since as early as January 1907.

*MARSILINE*

For Food Colors.  
Use since as early as January 1907.

SN 666,951. Hawley & Hoops, Inc., Newark, N. J. Filed May 24, 1954.

*STAR BURSTS*

Applicant claims ownership of Reg. No. 51,431.  
For Candy.  
Use since May 14, 1954.

SN 668,051. Richmond-Chase Company, San Jose, Calif. Filed June 10, 1954.

*Diet Delight*

Applicant makes no claim herein to any exclusive right to use the word "Diet." Applicant claims ownership of Reg. Nos. 433,701, 551,876, and others.

For Artificially Sweetened Canned Fruits Packed in Water; for Canned Fruits Without Added Sugar; for Canned Vegetables Packed Without Added Salt; for Canned Tomato Juice Packed Without Added Sugar or Salt; and for Dietetic Salad Dressings—Namely, Whipped Dressing, Chefs Herb Dressing, and Bleu Cheese Dressing.

Use since Apr. 11, 1946; and July 1919, as to "Delight."

SN 675,971. Des Moines Packing Company, Des Moines, Iowa. Filed Nov. 3, 1954.



The drawing is lined for red and blue, but no claim is made to color.

For Prepared Meats—Namely, Braunschweiger, Cooked Salami, Bologna, Frankfurters, Pickle and Pimiento Loaf, and Macaroni and Cheese.

Use since Sept. 21, 1954.

SN 666,483. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

SN 678,077. G. W. Hume Company, San Francisco, Calif. Filed Dec. 9, 1954. Sec. 2(f).

*SOLANO*

For Canned Fruits and Vegetables.  
Use since June 1, 1886.



SN 679,693. Wedgworth Produce, Inc., Palm Beach, Fla. Filed Jan. 10, 1955.

**RSW**

The drawing is lined for red, but color is not claimed as a feature.  
For Fresh Vegetables.  
Use since Nov. 15, 1949.

SN 680,361. Campbell Soup Company, Camden, N. J. Filed Jan. 24, 1955. Sec. 2(f).

**Franco-American**

Applicant claims ownership of Reg. Nos. 84,312, 210,013, and 384,422.  
For Spaghetti, Spaghetti Sauce, Macaroni, and Beef Gravy.  
Use since in or about May 1911 on spaghetti.

SN 680,594. Foremost Dairies, Inc., Jacksonville, Fla. Filed Jan. 27, 1955.



Applicant claims ownership of Reg. Nos. 301,356, 601,918, and others.

For Homogenized Sterilized Whole Milk, Fresh Milk Including Also Homogenized Vitamin-D Fresh Milk, Evaporated Milk, Buttermilk, Chocolate Flavored Milk, Cream, Including Light and Heavy Cream, Sour Cream, Cottage Cheese, and Ice Cream.

Use since May 19, 1954, on homogenized sterilized whole milk.

SN 680,876. Albert Ehlers, Inc., Brooklyn, N. Y. Filed Feb. 1, 1955.

**GOLD GIANT**

Applicant claims ownership of Reg. Nos. 385,076 and 540,669.  
For Rice.  
Use since Jan. 18, 1955.

SN 681,318. Whiz Fish Products Company, Inc., Seattle, Wash. Filed Feb. 8, 1955.

**TUNA  
DERBY**

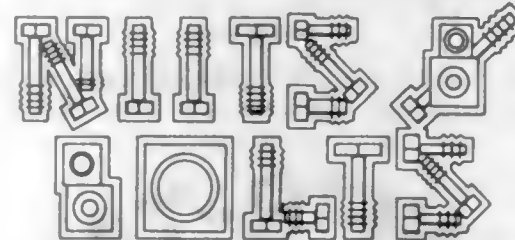
Applicant claims ownership of Reg. No. 517,404.  
For Canned Tuna Fish.  
Use since June 1951.

SN 681,405. Bernard A. Bernard, d. b. a. Canine Food & Products Company and B. A. Bernard Packing Co., Philadelphia, Pa. Filed Feb. 10, 1955.

**Cadillac**

For Dog Food.  
Use since Nov. 29, 1954.

SN 681,569. Betty A. Backus, Bethel, Kans. Filed Feb. 14, 1955.



For Party Mix of Seasoned Cereals, Nutmeats, and Pretzels.  
Use since Jan. 28, 1955.  
Subj. to Intf. with SN 687,386.

SN 681,626. Pelolan Fruit Distributors, Dinuba, Calif. Filed Feb. 14, 1955.

**PELCO**

For Fresh Grapes and Fresh Deciduous Fruits.  
Use since June 1947.

#### CLASS 47

SN 620,640. Wilen Brothers, Inc., Philadelphia, Pa. Filed Oct. 29, 1951.

**WILEN  
49**

For Wines—Namely, Barberone, Muscatel, Port, White Port, Sherry, White Tokay, and Zinfandel.  
Use since on or about Feb. 8, 1946; and Dec. 1, 1933, as to "Wilen."

SN 655,528. Glazer Wholesale Drug Co. of New Orleans, Inc., New Orleans, La. Filed Oct. 29, 1953.



The drawing is lined for gold.  
For Wine.  
Use since May 13, 1953.

SN 660,685. Weibel Champagne Vineyards, d. b. a. Golden Empire Champagne Vaults, Mission San Jose, Calif. Filed Feb. 5, 1954.

**CHATEAU  
Louis d'Or**

For Champagnes.  
Use since 1943.

#### CLASS 48

SN 664,510. Canadian Ace Brewing Co., d. b. a. Prima Bismarck Brewing Company, Chicago, Ill. Filed Apr. 14, 1954.

**Prima**

For Beer.  
Use since on or about October 1936.

#### CLASS 49

SN 660,663. Melrose Distillers, Inc., New York, N. Y. Filed Feb. 5, 1954.

**VSR**

For Whiskey.  
Use since May 1, 1941.

#### CLASS 50

SN 666,330. Alex W. Block & Co., Inc., Chicago, Ill. Filed May 14, 1954.

**"Trim-A-Teria"**

For Christmas Tree Ornaments—Namely, Glass Balls, Tinsel, and Icicles.  
Use since May 6, 1954.

SN 669,569. Patchogue-Plymouth Mills Corporation, New York, N. Y. Filed July 7, 1954.

**STAND-E-Z-MAT**

No claim is made to the word "Mat" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 194,044 and 607,119.  
For Floor Mats of Rubber Composition.  
Use since June 12, 1923.

SN 672,708. Western Newspaper Union, New York, N. Y. Filed Sept. 2, 1954.

**THE  
WNU ORIGINAL  
DURETYPE**

For Plastic Printing Plates.  
Use since June 3, 1954.

SN 675,331. David B. Tasler, New York, N. Y. Filed Oct. 22, 1954.

**Advertype**

For Printers' Type on Film To Make Photocopies.  
Use since December 1952.

SN 675,803. Krohome Industries, Walnut Creek, Calif. Filed Nov. 1, 1954.

**KROHOME**

For Swimming Pool Covers.  
Use since on or about Aug. 24, 1950.

#### CLASS 51

SN 668,860. Harry Roth, New York, N. Y. Filed June 24, 1954.

**TRYPSODENT**

For Dentifrice.  
Use since Apr. 14, 1953.

SN 669,404. Compagnie du Razvite Société à Responsabilité Limitée, Colombes (Seine), France. Filed July 6, 1954.

**RAZVITE**

Applicant claims ownership of French Reg. No. 423,757, dated Nov. 21, 1952.  
For Shaving Creams and Shaving Soap.



SN 670,068. Sonya Rose, Beverly Hills, Calif. Filed July 15, 1954.

# PERMA BROW

For Transparent Liquid Film for Application to Pencilled Eyebrows.  
Use since Oct. 7, 1952.

SN 678,123. Lee Limited, Beverly Hills, Calif. Filed Dec. 10, 1954.

# DEMI-CURL

For Hair Wave Setting Lotion.  
Use since Nov. 24, 1954.

SN 678,124. Lee Limited, Beverly Hills, Calif. Filed Dec. 10, 1954.

# DEMI-PERM

For Hair Wave Setting Lotion.  
Use since Nov. 24, 1954.

SN 678,125. Lee Limited, Beverly Hills, Calif. Filed Dec. 10, 1954.

# DEMI-WAVE

For Hair Wave Setting Lotion.  
Use since Nov. 24, 1954.

## SERVICE MARKS

### CLASS 100

SN 586,675. Duncan Hines Institute, Inc., Ithaca, N. Y., from Adventures in Good Eating, Inc. Filed Oct. 22, 1949. CERTIFICATION MARK.



The name "Duncan Hines" is that of the president of the original applicant.  
For Restaurant, Lodging, and Vacation Resort Services.  
Use since Aug. 31, 1949.

### CLASS 52

SN 678,214. Grace-Lee Products Inc., Minneapolis, Minn. Filed Dec. 13, 1954.

# REET

For Composition for Use as a Bowl Cleaner and Disinfectant.  
Use since on or about Dec. 1, 1954.

SN 679,138. Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Filed Dec. 30, 1954.

# POWERSOL

The drawing is lined for purple for background purposes. No claim is made, however, to the color purple. Applicant claims ownership of Reg. Nos. 537,857, 538,937, and 571,934.  
For Solvent-Type Plate Cleaner for Use in the Graphic Arts.  
Use since September 1954.

SN 681,013. Stanley J. Holuba, d. b. a. Stanson Chemicals, Jersey City, N. J. Filed Feb. 3, 1955.

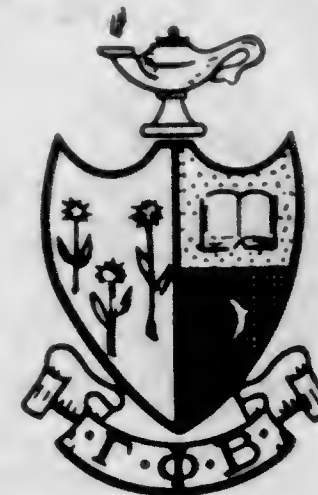
# STANZALL

Applicant claims ownership of Reg. No. 566,215.  
For Detergent for Washing Clothes, Dishes, Painted Surfaces, Woodwork, and for General Household Cleaning.  
Use since May 12, 1951.



For Technical Consulting Services—Namely, the Furnishing of Data and Advice in Connection With the Cleaning, Treating, and Finishing of Metal and Metal Products.  
Use since June 7, 1936.

SN 644,841. Grand Council of Gamma Phi Beta, Chicago, Ill. Filed Apr. 7, 1953. COLLECTIVE MARK.



Applicant claims ownership of Reg. No. 299,989, expired.  
For Sponsoring Civic Projects, Underprivileged Child and Youth Welfare Work, Promoting Educational, Medical and Recreational Facilities and Programs for Children, Furthering the Civic and Educational Ideals of the Fraternity.  
Use since at least as early as 1910.

SN 665,052. "NAF," Asusa, Calif. Filed Apr. 22, 1954.



For Providing Fishing Information to Members in Accordance With Their Individual Needs and Requests.  
Use since Mar. 25, 1954.

### CLASS 101

SN 661,488. Roy H. Odom, d. b. a. Gulf South Advertising Agency, Baton Rouge, La. Filed Feb. 23, 1954.



The portrait shown is that of the applicant.  
For Advertising the Goods of Others Through the Media of Television, Radio, and Publications.  
Use since June 26, 1953.

### CLASS 107

SN 637,425. Brown's Velvet Ice Cream, Inc., New Orleans, La. Filed Oct. 31, 1952.



For Entertainment Service in the Nature of Educational, Informative, Musical and Theatrical Productions Rendered by Means of Audio and Video Broadcasts.  
Use since Jan. 7, 1952.

SN 660,716. General Teleradio, Inc., New York, N. Y. Filed Feb. 8, 1954.

# Allen Granger

For Dramatico-Musical Radio Presentation Featuring Stars of Stage and Screen.  
Use since Sept. 14, 1953.



# TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

## CLASS 1

- 610,158. JANE-ART ETC. AND DESIGN. Jane-Art Inc. SN 661,278. Pub. 4-19-55. Filed 2-18-54.  
610,159. MAGMASTER AND DESIGN (REPRESENTATION OF BANNER AND OVAL). Michigan Chemical Corporation. SN 663,488. Pub. 4-26-55. Filed 3-29-54.  
610,160. CENTI-SEED. L. L. Patten, d. b. a. The Patten Seed Company. SN 663,595. Pub. 4-19-55. Filed 3-30-54.  
610,161. BONNIE BURNS. Anthracite Equipment Corporation. SN 663,763. Pub. 4-26-55. Filed 4-2-54.  
610,162. TAPESTRY. Donovan Industries, Inc. SN 672,142. Pub. 5-10-55. Filed 8-24-54.  
610,163. "HYDE-RIDE" AND AN ASTERISK. Feldt Manufacturing Company, Inc. SN 672,275. Pub. 5-10-55. Filed 8-26-54.  
610,164. ACETA AND DESIGN (REPRESENTATION OF A TRIANGLE). Farbenfabriken Bayer Aktiengesellschaft. SN 672,573. Pub. 4-5-55. Filed 9-1-54.

## CLASS 2

- 610,165. CANDLE VASE. Candle Vase, Inc. SN 617,225. Pub. 5-17-55. Filed 8-2-51.  
610,166. B-FLEX. Bemis Bro. Bag Company. SN 632,502. Pub. 5-10-55. Filed 7-14-52.  
610,167. SKOTCH KADDY. The Hamilton Metal Products Company. SN 663,367. Pub. 5-17-55. Filed 3-26-54.  
610,168. BLUE RIBBON AND DESIGN (EMBLEM). Butler Manufacturing Company. SN 665,801. Pub. 5-10-55. Filed 5-6-54.  
610,169. CARIS-ART AND DESIGN (REPRESENTATION OF A GLOBE). Caris-Art, Inc. SN 668,234. Pub. 5-17-55. Filed 6-15-54.  
610,170. "CELLO-FACE." Mason Envelope Co., Inc. SN 670,687. Pub. 5-17-55. Filed 7-27-54.  
610,171. JOVARDE. Greenpoint Casket Company. SN 670,784. Pub. 5-10-55. Filed 7-29-54.

## CLASS 3

- 610,172. REPRESENTATION OF HOUR GLASS. The Osborne Company. SN 633,866. Pub. 5-3-55. Filed 8-13-52.  
610,173. LIBERTY TRUTH JUSTICE EQUALITY F. O. E. AND DESIGN (REPRESENTATION OF AN EAGLE). Grand Aerie Fraternal Order of Eagles. SN 640,209. Pub. 4-13-54. Filed 12-31-52.

## CLASS 4

- 610,174. TOLA. Sidney E. Walker. SN 659,108. Pub. 5-17-55. Filed 1-6-54.  
610,175. "COPS." G. N. Coughlan Company. SN 673,011. Pub. 5-10-55. Filed 9-10-54.  
610,176. STANLEY IN DIAMOND DESIGN. Stanley Home Products, Inc. SN 674,032. Pub. 5-17-55. Filed 8-30-54.

## CLASS 5

- 610,177. PENN-STANDARD THERMO DYNAMIC CEMENT. Penn-Standard Sole Cementing Process, Inc. SN 638,494. Pub. 5-10-55. Filed 11-22-52.  
610,178. PRESTO-SET. United States Plywood Corporation. SN 658,421. Pub. 5-17-55. Filed 12-22-53.  
610,179. ENVA-LOK. National Starch Products Inc. SN 670,298. Pub. 5-10-55. Filed 7-20-54.  
610,180. HEMCO AND DESIGN. Marasco Shoe Machinery Corporation. SN 672,829. Pub. 5-10-55. Filed 9-7-54.  
610,181. MITTEN-STAY. Frank P. Mitten, d. b. a. Mitten Mfg. Co. and as Mitten's Display Letters. SN 673,371. Pub. 5-10-55. Filed 9-17-54.

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## CLASS 6

- 610,182. GLYCO MIST. James Varley & Sons, Inc. SN 647,460. Pub. 5-10-55. Filed 5-21-53.  
610,183. PARE. Wilbert W. Haase Co. SN 659,715. Pub. 5-10-55. Filed 1-19-54.  
610,184. SOFTIZE. Avochem, Inc. SN 664,834. Pub. 5-10-55. Filed 4-20-54.  
610,185. HORIZO. Diamond Alkali Company. SN 666,830. Pub. 5-3-55. Filed 5-21-54.  
610,186. EXTRACTO CARLOS CASADO AND DESIGN (SUN AND STAR). S. A. Carlos Casado, Ltda. SN 669,485. Pub. 5-10-55. Filed 7-6-54.  
610,187. EXTRACTO TANEXTRA AND DESIGN (SUN AND STAR). S. A. Carlos Casado, Ltda. SN 669,486. Pub. 5-10-55. Filed 7-6-54.  
610,188. REE-DRAPE. Riverside Manufacturing Company. SN 670,239. Pub. 5-10-55. Filed 7-19-54.  
610,189. EDOLAN. Farbenfabriken Bayer Aktiengesellschaft. SN 670,716. Pub. 5-3-55. Filed 6-22-54.  
610,190. VYGEN. The General Tire & Rubber Company. SN 670,782. Pub. 5-10-55. Filed 7-29-54.  
610,191. MF. American Brake Shoe Company. SN 672,036. Pub. 5-10-55. Filed 8-23-54.  
610,192. TULOMA. Tuloma Gas Products Company. SN 672,194. Pub. 5-10-55. Filed 8-24-54.  
610,193. NEUTRAGRAPH. Brown-Forman Distillers Corporation. SN 672,216. Pub. 5-10-55. Filed 8-25-54.  
610,194. 425. American Cyanamid Company. SN 672,481. Pub. 5-10-55. Filed 8-31-54.  
610,195. DESIGN OF STAR. Faultless Starch Company. SN 672,649. Pub. 5-17-55. Filed 9-2-54.  
610,196. NYLOFIL. Sandoz Chemical Works, Inc. SN 672,690. Pub. 5-17-55. Filed 9-2-54.  
610,197. BANALOUSE. American Scientific Laboratories, Inc. SN 672,715. Pub. 5-17-55. Filed 9-3-54.  
610,198. EUREKATAN. Taylor, White Extracting Company. SN 672,985. Pub. 5-17-55. Filed 9-9-54.  
610,199. SEABLUE. Paddock of Texas. SN 673,855. Pub. 5-10-55. Filed 9-27-54.

## CLASS 8

- 610,200. PUFF-A-LITE. The Peco Manufacturing Company. SN 673,859. Pub. 5-10-55. Filed 9-27-54.

## CLASS 10

- 610,201. FERT-O-FISH AND DESIGN. Sea-Land Products Co. SN 663,312. Pub. 4-26-55. Filed 3-25-54.  
610,202. FLO-CROP. Jaffee Cotton Products Mfg. Co., Inc. SN 663,918. Pub. 4-19-55. Filed 4-5-54.  
610,203. H AND DESIGN. A. H. Hoffman, Inc. SN 672,151. Pub. 5-10-55. Filed 8-24-54.  
610,204. TETRA LIFE AND DESIGN. Uriel F. Martinson, d. b. a. Tetra-Life Products. SN 672,303. Pub. 5-10-55. Filed 8-26-54.

## CLASS 11

- 610,205. LECTRICOPY. Columbia Ribbon & Carbon Manufacturing Co., Inc. SN 635,685. Pub. 5-3-55. Filed 9-24-52.  
610,206. ZIRCO. Advance Solvents & Chemical Corporation. SN 674,547. Pub. 5-10-55. Filed 10-11-54.  
610,207. SARAL. Sara B. Albertis. SN 681,393. Pub. 5-10-55. Filed 2-10-55.

## CLASS 12

- 610,208. UNION MADE ETC. AND DESIGN. General Plywood Corporation. SN 649,502. Pub. 5-17-55. Filed 6-29-53.

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- 610,209. MASTER. Master Metal Strip Service, Inc. SN 651,712. Pub. 5-10-55. Filed 8-12-53.  
610,210. CLEMENTS MODULAR PANELS ETC. AND DESIGN. MacMillan Clements. SN 656,381. Pub. 5-17-55. Filed 11-16-53.  
610,211. CONDOR AND DESIGN. S. A. Eteco (European Overseas Trading Company). SN 659,694. Pub. 5-10-55. Filed 11-20-53.  
610,212. HOME-WAY. GBH-Way Homes, Inc. SN 664,148. Pub. 5-3-55. Filed 4-8-54.  
610,213. AJAX. Salvador Mathews Zveibil. SN 665,331. Pub. 5-3-55. Filed 4-27-54.  
610,214. SNAP ON. Gustin-Bacon Manufacturing Company. SN 665,354. Pub. 5-3-55. Filed 4-28-54.  
610,215. RHM BROAD-BAND. Rodman H. Martin Co., Inc. SN 666,766. Pub. 5-10-55. Filed 5-20-54.  
610,216. RHM MEDIUM-BAND. Rodman H. Martin Co., Inc. SN 666,767. Pub. 5-10-55. Filed 5-20-54.  
610,217. FLAGSTONE. Armstrong Cork Company. SN 667,203. Pub. 5-10-55. Filed 5-27-54.  
610,218. CONSTEL. N. V. Betonfabriek "De Meteor." SN 668,460. Pub. 5-10-55. Filed 6-18-54.  
610,219. GRANCO. Granite City Steel Company. SN 668,839. Pub. 5-3-55. Filed 6-24-54.  
610,220. HOLIDAY. EFCC Corporation. SN 670,470. Pub. 5-3-55. Filed 7-23-54.  
610,221. TERRA-TILE. Robbins Floor Products, Inc. SN 670,508. Pub. 5-10-55. Filed 7-23-54.  
610,222. DE SPHINX. Naamloze Vennootschap Kristal. Glas- en Aardewerkfabrieken "De Sphinx" Voorheen Petrus Regout & Co. SN 672,590. Pub. 5-3-55. Filed 9-1-54.  
610,223. WALL-TITE. Metalcraft Engineering Co. SN 672,902. Pub. 5-3-55. Filed 9-8-54.  
610,224. OXFORD. The Ohio Clay Company. SN 672,970. Pub. 5-10-55. Filed 9-9-54.  
610,225. CHIEFTAN. The Ruberoid Co. SN 673,384. Pub. 5-10-55. Filed 9-17-54.  
610,226. SUBURBAN. The Ruberoid Co. SN 673,385. Pub. 5-10-55. Filed 9-17-54.  
610,227. ANDREA FINGERTROL AND DESIGN. Andrea Manufacturing Corp. SN 674,367. Pub. 5-17-55. Filed 10-6-54.  
610,228. RAYNOR DOORS AND DESIGN. Raynor Manufacturing Company. SN 675,723. Pub. 5-3-55. Filed 10-29-54.  
610,229. AIR-LITE. Philrico Company. SN 675,827. Pub. 5-3-55. Filed 11-1-54.  
610,230. STUDIO BRICK. Studio Brick, Inc. SN 676,244. Pub. 5-17-55. Filed 11-8-54.  
610,231. DURAFLEX. The Duraflex Company. SN 676,364. Pub. 5-17-55. Filed 11-10-54.  
610,232. TRI-TRAC. Chamberlin Company of America. SN 676,603. Pub. 5-3-55. Filed 11-15-54.  
610,233. CROWNTREE. Chester B. Stem, Inc. SN 676,764. Pub. 5-17-55. Filed 11-16-54.  
610,234. OLD KENTUCKY. Kentucky Flooring Company of Virginia, Incorporated. SN 676,809. Pub. 5-17-55. Filed 11-17-54.  
610,235. TEMPCO IN A DIAMOND DESIGN. Mervin J. Stillwell, d. b. a. Modern Building Specialties. SN 676,845. Pub. 5-10-55. Filed 11-17-54.  
610,236. FULITE. Schacht Associates, Inc. SN 677,174. Pub. 5-17-55. Filed 11-23-54.  
610,237. TWINSTILE. Schacht Associates, Inc. SN 677,175. Pub. 5-17-55. Filed 11-23-54.

## CLASS 13

- 610,238. HYDROPAD. Cook Electric Company. SN 659,989. Pub. 8-17-54. Filed 1-25-54.  
610,239. FLEX'ATOR. Hunter Spring Company. SN 666,024. Pub. 12-21-54. Filed 5-10-54.  
610,240. SHU-LOK. Talon, Inc. SN 672,546. Pub. 4-26-55. Filed 8-31-54.  
610,241. NIAGARA ECONO-STITCH. Enterprise Wire Co. SN 674,148. Pub. 4-26-55. Filed 10-1-54.

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- 610,242. KITCHENAID. The Hobart Manufacturing Company. SN 674,594. Pub. 4-26-55. Filed 10-11-54.  
610,243. VS IN TRIANGLE DESIGN. Vol-Shan Manufacturing Company, Inc. SN 674,779. Pub. 4-26-55. Filed 10-13-54.  
610,244. VOI-SHAN. Vol-Shan Manufacturing Company, Inc. SN 674,781. Pub. 4-26-55. Filed 10-13-54.  
610,245. JACK-O. Emil Schmid. SN 675,102. Pub. 4-26-55. Filed 10-19-54.  
610,246. "TRUCO." Wheel Trueing Tool Company. SN 675,191. Pub. 4-26-55. Filed 10-20-54.  
610,247. ECLIPSE. John C. Kupferle Foundry Company. SN 675,212. Pub. 4-26-55. Filed 10-21-54.

## CLASS 14

- 610,248. INCONEL "W." The International Nickel Company, Inc. SN 673,182. Pub. 5-10-55. Filed 9-14-54.  
610,249. INCO INCONEL W AND DESIGN. The International Nickel Company, Inc. SN 673,183. Pub. 5-10-55. Filed 9-14-54.  
610,250. UNILOX. Universal-Cyclops Steel Corporation. SN 673,632. Pub. 5-10-55. Filed 9-22-54.

## CLASS 15

- 610,251. MOLYFLO. Molyflo Corporation. SN 632,627. Pub. 5-3-55. Filed 7-16-52.  
610,252. ALLIED POWERTANE. The Allied Petroleum Co., Inc. SN 672,992. Pub. 4-5-55. Filed 9-10-54.  
610,253. PUROKLEAR. The Pure Oil Company. SN 673,766. Pub. 5-3-55. Filed 9-24-54.  
610,254. SHELLMAX. Shell Oil Company. SN 675,171. Pub. 5-3-55. Filed 10-20-54.  
610,255. PUROKNIT. The Pure Oil Company. SN 675,908. Pub. 5-3-55. Filed 11-2-54.

## CLASS 16

- 610,256. PHELAN'S RAPID-SEAL AND DESIGN. Phelan-Faust Paint Mfg. Co. SN 665,137. Pub. 5-10-55. Filed 4-23-54.  
610,257. PAD-O-PAQUES. Finishline Laboratories, Inc. SN 667,947. Pub. 5-10-55. Filed 6-9-54.  
610,258. PENNPRIME. The Pennsylvania Salt Manufacturing Company. SN 669,286. Pub. 5-17-55. Filed 7-1-54.  
610,259. TRI CHEM LIQUID EMBROIDERY. Tri-Chem, Inc. SN 670,817. Pub. 5-10-55. Filed 7-29-54.  
610,260. HAMP-TONE AND DESIGN. Arthur R. Lieberman, d. b. a. Hampton Paint Mfg. Co. SN 675,898. Pub. 5-17-55. Filed 11-2-54.  
610,261. HAMMERMATIC. Rexton Finishes, Incorporated. SN 675,917. Pub. 5-3-55. Filed 11-2-54.  
610,262. WALL-GLO. Watson-Standard Company. SN 675,937. Pub. 5-17-55. Filed 11-2-54.  
610,263. 3M COMPANY AND DESIGN. Minnesota Mining & Manufacturing Company. SN 676,328. Pub. 5-10-55. Filed 11-9-54.  
610,264. HEIRLOOM. McCloskey Varnish Company. SN 676,512. Pub. 5-17-55. Filed 11-12-54.  
610,265. E & S DURABLE. Ernecke & Salmstern Company. SN 676,797. Pub. 5-17-55. Filed 11-17-54.  
610,266. VINELAST. C. A. Woolsey Paint & Color Co. Inc. SN 676,852. Pub. 5-17-55. Filed 11-17-54.  
610,267. MODERN PAINTER'S. Standard Industrial Products, Inc. SN 677,179. Pub. 5-17-55. Filed 11-28-54.  
610,268. HYPERFORMANCE. The Kansas Paint & Color Company. SN 677,226. Pub. 5-17-55. Filed 11-24-54.  
610,269. RE-JUV-O. Miller's Products, Inc. SN 677,388. Pub. 5-17-55. Filed 11-26-54.

## CLASS 18

- 610,270. ME-T-CO. J. D. Jewell, Inc. SN 664,670. Pub. 5-10-55. Filed 4-16-54.  
610,271. RAU-SED. Olin Mathieson Chemical Corporation. SN 673,118. Pub. 5-17-55. Filed 9-13-54.  
610,272. MAGIDERM. Universal Laboratory Company, Inc. SN 673,209. Pub. 4-26-55. Filed 9-14-54.



- 610,273. MOOSE. Jack Kubel, d. b. a. J. Kubel Company. SN 673,458. Pub. 5-10-55. Filed 9-20-54.
- 610,274. NUCLOMIN. Nutritional Concentrates, Inc. SN 673,750. Pub. 5-10-55. Filed 9-24-54.
- 610,275. A-F 25. New South Drug of Monroe, Louisiana. SN 673,852. Pub. 5-10-55. Filed 9-27-54.
- 610,276. KOBAR. Johnston Pharmaceutical Distributors, Inc. SN 673,922. Pub. 5-10-55. Filed 9-28-54.
- 610,277. AMBETROL. White Laboratories, Inc. SN 673,957. Pub. 5-10-55. Filed 9-28-54.
- 610,278. CHARM-ON. Penn Pharmaceutical Distributing Company. SN 674,008. Pub. 5-10-55. Filed 9-29-54.
- 610,279. PYDIRONE. George A. Breon & Company. SN 674,219. Pub. 5-10-55. Filed 10-4-54.
- 610,280. TISBEDONE. Ciba Limited. SN 674,226. Pub. 5-10-55. Filed 10-4-54.
- 610,281. NYTOL. Wernet Dental Mfg. Co., Inc., d. b. a. Hudson Products. SN 674,487. Pub. 5-17-55. Filed 10-7-54.
- 610,282. PROVERA. The Upjohn Company. SN 674,541. Pub. 5-17-55. Filed 10-8-54.
- 610,283. LARY-SED. Chicago Pharmacal Company. SN 674,563. Pub. 5-17-55. Filed 10-11-54.
- 610,284. CONTINIC. Chas. Pfizer & Co., Inc. SN 674,762. Pub. 5-17-55. Filed 10-13-54.

## CLASS 19

- 610,285. SPORT-O-BABE. Robert Siftar. SN 653,653. Pub. 5-17-55. Filed 9-23-53.
- 610,286. CARGO. Pacific Car and Foundry Company. SN 667,044. Pub. 5-17-55. Filed 5-25-54.
- 610,287. EMBASSY. Embassy Auto Seat Cover Co. SN 668,980. Pub. 5-17-55. Filed 6-28-54.
- 610,288. DESIGN OF HORSE AND SHIELD. Crotty Corporation. SN 669,865. Pub. 5-17-55. Filed 7-13-54.
- 610,289. DESIGN OF HORSE AND SHIELD. Crotty Corporation. SN 669,866. Pub. 5-17-55. Filed 7-13-54.
- 610,290. EXCEL, ETC. AND DESIGN OF SHIELD. Excel Body Corporation. SN 669,874. Pub. 5-17-55. Filed 7-13-54.
- 610,291. GENERAL RADIATOR AND DESIGN (REPRESENTATION OF RADIATOR). General Radiator, Inc. SN 669,985. Pub. 5-17-55. Filed 7-14-54.
- 610,292. SMITTY'S ARM-CAR-REST. Albert W. Smith. SN 673,873. Pub. 5-17-55. Filed 9-27-54.
- 610,293. OPEL. Adam Opel Aktiengesellschaft. SN 673,962. Pub. 5-17-55. Filed 9-29-54.

## CLASS 21

- 610,294. PATTERNIZER. The Miller Company. SN 633,620. Pub. 5-10-55. Filed 8-8-52.
- 610,295. UNIT-IZED. Setchell Carlson, Inc. SN 635,519. Pub. 5-3-55. Filed 9-20-52.
- 610,296. AICO AND DESIGN. The Ahrendt Instrument Company. SN 646,914. Pub. 5-10-55. Filed 5-13-53.
- 610,297. SAV-A-BATTERY. Electronic Devices, Inc. SN 647,278. Pub. 5-10-55. Filed 5-19-53.
- 610,298. ECETHERM. Firma C. Conradty. SN 648,157. Pub. 5-10-55. Filed 6-3-53.
- 610,299. "WATER MIZER." Fred A. Van Vooren, d. b. a. Van Vooren Products. SN 648,581. Pub. 5-10-55. Filed 6-10-53.
- 610,300. WIZARD. Western Auto Supply Company. SN 652,986. Pub. 5-10-55. Filed 9-9-53.
- 610,301. SA (FANCIFUL). Sanders Associates Incorporated. SN 653,033. Pub. 5-10-55. Filed 9-10-53.
- 610,302. MINIGAP. Cook Electric Company. SN 656,774. Pub. 5-3-55. Filed 11-23-53.
- 610,303. SCREW BALL. Radelco Manufacturing Co. SN 657,175. Pub. 5-3-55. Filed 11-30-53.
- 610,304. PERM-A-CAPS. Chicago Condenser Corporation. SN 658,179. Pub. 5-3-55. Filed 12-18-53.
- 610,305. WIRL-FLO. Air-Way Electric Appliance Corporation, now by change of name to Air-Way Industries, Inc. SN 662,914. Pub. 5-10-55. Filed 3-19-54.

- 610,306. DATACORD. Clevite Corporation. SN 674,320. Pub. 5-3-55. Filed 10-5-54.
- 610,307. HUNTER SINCE 1886 AND DESIGN. Hunter Fan and Ventilating Company. SN 674,465. Pub. 5-10-55. Filed 10-7-54.
- 610,308. GROUNDSAFE. Novelty Electric Company. SN 674,473. Pub. 5-3-55. Filed 10-7-54.
- 610,309. NOVELITE. Novellite Signs Animated Inc. SN 674,615. Pub. 5-17-55. Filed 10-11-54.
- 610,310. CHARGATROL. Assembly Products, Inc. SN 674,859. Pub. 5-17-55. Filed 10-14-54.
- 610,311. KBL-DUCT. BullDog Electric Products Co. SN 677,862. Pub. 5-10-55. Filed 12-7-54.
- 610,312. CERATAB. Stackpole Carbon Company. SN 678,050. Pub. 5-10-55. Filed 12-9-54.
- 610,313. MASTER-MAGIC. Oerlikon Tool & Arms Corporation of America. SN 678,250. Pub. 5-10-55. Filed 12-13-54.
- 610,314. THERMACTOR. Thermactor Company. SN 678,350. Pub. 5-10-55. Filed 12-14-54.

## CLASS 22

- 610,315. REPRESENTATION OF DEVIL'S HEAD. Lou J. Eppinger Manufacturing Co. SN 639,987. Pub. 5-10-55. Filed 12-24-52.
- 610,316. ROCKETS AWAY AND DESIGN. American Metal Specialties Corporation. SN 640,772. Pub. 5-10-55. Filed 1-15-53.
- 610,317. "PERMA-ROOT." Uneda Doll Company, Inc. SN 648,971. Pub. 5-10-55. Filed 6-17-53.
- 610,318. BUNNY. Lucky Bunny Ball Company. SN 652,422. Pub. 5-10-55. Filed 8-27-53.
- 610,319. SUPER MARKET. Selchow & Righter Company. SN 653,514. Pub. 5-10-55. Filed 9-21-53.
- 610,320. ASSEMBLY LINE. Selchow & Righter Company. SN 653,515. Pub. 5-10-55. Filed 9-21-53.
- 610,321. BLAST OFF THE MOVING PLANET SPACE GAME AND DESIGN. Selchow & Righter Company. SN 653,518. Pub. 5-10-55. Filed 9-21-53.
- 610,322. LAWRENCE TACKLE AND DESIGN. Herbert Rubin, d. b. a. Lawrence Tackle Mfg. Co. SN 657,236. Pub. 5-10-55. Filed 12-1-53.
- 610,323. ALPHASET. The Judy Company. SN 658,616. Pub. 5-10-55. Filed 12-28-53.
- 610,324. ANI-MOBILE. Earl & Arlington, Inc. SN 661,787. Pub. 5-10-55. Filed 3-1-54.
- 610,325. ROCKET ROCKY. Ende-Helmerling Toy Co. SN 662,430. Pub. 5-10-55. Filed 3-11-54.
- 610,326. JUNIOR CHEF. Argo Industries Corporation. SN 663,096. Pub. 5-10-55. Filed 3-23-54.
- 610,327. BARRECRAPERS. Barreca Products Co. Inc. SN 663,768. Pub. 5-10-55. Filed 4-2-54.
- 610,328. SAIL-FINS. W. J. Volt Rubber Corp. SN 663,852. Pub. 5-10-55. Filed 4-2-54.
- 610,329. SUN RAY HAMMOCK AND DESIGN. Salvatore A. Lovico, d. b. a. Durable Canvas Products Co. SN 664,161. Pub. 5-10-55. Filed 4-8-54.
- 610,330. SPIRA SEAL. Ruth I. Mezz, d. b. a. Health-O-Swim Nose Clip Co. SN 671,177. Pub. 5-10-55. Filed 8-5-54.
- 610,331. FISHIN' BUDDY. Charles G. Ford, d. b. a. Ford Aircraft Company. SN 672,069. Pub. 5-10-55. Filed 8-23-54.
- 610,332. SAV-A-LEG. The Seamless Rubber Company. SN 673,477. Pub. 5-10-55. Filed 9-20-54.
- 610,333. HAMMERIN' HANK. Clare J. Maginley, d. b. a. Hammerin' Hank Woodcrafters. SN 673,529. Pub. 5-10-55. Filed 9-21-54.
- 610,334. SELECT-A-TRAIN. Williams Manufacturing Company. SN 673,884. Pub. 5-10-55. Filed 9-27-54.
- 610,335. FIGHTING FISH AND DESIGN (REPRESENTATION OF A FISH). Fighting Fish Products. SN 678,908. Pub. 5-10-55. Filed 9-28-54.
- 610,336. LED-HED. Newton Line Company Incorporated. SN 674,006. Pub. 5-10-55. Filed 9-29-54.

- 610,337. DA'N NYT. United States Whip Company, d. b. a. U. S. Line Company. SN 674,483. Pub. 5-10-55. Filed 10-7-54.
- 610,338. GINEROO AND DESIGN (REPRESENTATION OF GAME CARDS). Ginnasta Corporation of America. SN 674,671. Pub. 5-10-55. Filed 10-12-54.
- 610,339. GREEN HEAD AND DESIGN (REPRESENTATION OF A DUCK'S HEAD). Louis Bicocchi, d. b. a. Green Head Duck Call Company. SN 674,724. Pub. 5-10-55. Filed 10-13-54.
- 610,340. SUPER STEERING AND DESIGN. S. L. Allen & Co., Inc. SN 674,861. Pub. 5-10-55. Filed 10-15-54.

## CLASS 23

- 610,341. PLOWRITE SHARE ATTACHMENT AND DESIGN. Farmers Tool and Equipment Company. SN 623,830. Pub. 5-17-55. Filed 1-21-52.
- 610,342. HI-JACK. American Logging Tool Co., now by change of name Evart Logging Co., to American Logging Tool Corporation. SN 638,345. Pub. 5-3-55. Filed 11-20-52.
- 610,343. COOPER CYCLO-MO. Cooper Manufacturing Company. SN 642,269. Pub. 5-17-55. Filed 2-16-53.
- 610,344. SKYHOOK P-W AND DESIGN. Pointer-Williamette Co., Inc. SN 644,060. Pub. 5-17-55. Filed 3-23-53.
- 610,345. SEVERANCE. Severance Tool Industries Inc. SN 645,838. Pub. 5-17-55. Filed 4-23-53.
- 610,346. UTICA. Utica Drop Forge & Tool Corporation. SN 647,734. Pub. 5-17-55. Filed 5-26-53.
- 610,347. LAWNCO WITHIN DESIGN. Lawn Supply Co. SN 652,024. Pub. 5-17-55. Filed 8-19-53.
- 610,348. U AND DESIGN. Unimatic Corporation. SN 654,763. Pub. 5-17-55. Filed 10-14-53.
- 610,349. UNIMATIC. Unimatic Corporation. SN 654,764. Pub. 5-17-55. Filed 10-14-53.
- 610,350. UNI-PASS AND DESIGN. Bowser, Inc. SN 657,680. Pub. 5-17-55. Filed 12-9-53.
- 610,351. REPRESENTATION OF A MAN'S TORSO. Nordberg Manufacturing Company. SN 659,946. Pub. 5-17-55. Filed 1-22-54.
- 610,352. GORTON AND DESIGN. George Gorton Machine Co. SN 661,795. Pub. 5-17-55. Filed 3-1-54.
- 610,353. METACONE. Metalastik Limited. SN 663,817. Pub. 5-17-55. Filed 4-2-54.
- 610,354. P & J 3U SPEED-FLEX. Niles-Bement-Pond Company. SN 664,547. Pub. 5-17-55. Filed 4-14-54.
- 610,355. ARGE AND DESIGN. T. H. Arge Co., Inc. SN 665,682. Pub. 5-17-55. Filed 5-4-54.
- 610,356. ATCO AND DESIGN. Atlas Hardware Co. SN 669,651. Pub. 5-17-55. Filed 7-9-54.
- 610,357. DESIGN OF HORSE AND SHIELD. Crotty Corporation. SN 669,868. Pub. 5-17-55. Filed 7-13-54.
- 610,358. RESILIMATIC. Jerome J. Sloyan, d. b. a. Automatic Motor Base Co. SN 670,384. Pub. 5-17-55. Filed 7-21-54.
- 610,359. BATTLE CREEK CONTINUOUS FLOW. Battle Creek Packaging Machines, Inc. SN 671,412. Pub. 5-17-55. Filed 8-10-54.
- 610,360. LANDIS WITHIN DESIGN. Landis Machine Company. SN 671,837. Pub. 5-17-55. Filed 8-17-54.
- 610,361. OIL MATE. Eddie S. Tubin. SN 672,121. Pub. 5-17-55. Filed 8-23-54.
- 610,362. HOSTESS. Modern Carpet Sweeper Co., Inc. SN 672,304. Pub. 5-17-55. Filed 8-26-54.
- 610,363. INSERT-O-MATIC AND DESIGN. Printing Devices, Inc. SN 672,314. Pub. 5-17-55. Filed 8-26-54.
- 610,364. PANZER. Copar, Incorporated. SN 672,382. Pub. 5-17-55. Filed 8-30-54.
- 610,365. CONVERT-O-JET. Dempster Mill Manufacturing Company. SN 672,499. Pub. 5-17-55. Filed 8-31-54.
- 610,366. CURITE. Curtiss-Wright Corporation. SN 673,083. Pub. 5-17-55. Filed 9-13-54.

## CLASS 26

- 610,367. STRAINALYZER. Electronic Tube Corporation. SN 606,213. Pub. 9-15-53. Filed 11-10-50.

- 610,368. SONA-STRETCHER. Kay Electric Company (N. J. corporation), to Kay Electric Company (partnership). SN 613,456. Pub. 5-10-55. Filed 5-3-51.
- 610,369. AUTOMAR. Automatic Projection Corp. SN 638,056. Pub. 5-17-55. Filed 11-14-52.
- 610,370. ELECTRO-PROBE. Instruments, Inc. SN 641,056. Pub. 5-10-55. Filed 1-21-53.
- 610,371. STERIL-CHEX. Aseptic-Thermo Indicator Co. SN 645,375. Pub. 5-10-55. Filed 4-16-53.
- 610,372. CINÉ-VOICE. Herndt-Bach, Inc. SN 654,513. Pub. 5-17-55. Filed 10-12-55.
- 610,373. HAMBLETONIAN ETC. AND DESIGN. Stanley F. Banks, to Peerless Camera Stores, Inc. SN 655,105. Pub. 5-10-55. Filed 10-21-53.
- 610,374. TRANS-VIEW AND DESIGN. Greene Dental Products. SN 658,280. Pub. 3-15-55. Filed 12-21-53.
- 610,375. SPA-CIT. Leona M. Lennemann. SN 661,810. Pub. 5-17-55. Filed 3-1-54.
- 610,376. THE METAL MASTERS. Nu-Line Screw Products Co. SN 662,240. Pub. 5-10-55. Filed 3-8-54.
- 610,377. BANKERS. Edward N. Heinz, Sr. SN 664,010. Pub. 5-10-55. Filed 4-6-54.
- 610,378. SUPREME. Compass Instrument & Optical Co., Inc. SN 667,383. Pub. 3-15-55. Filed 6-1-54.
- 610,379. ACTION-FIT AND DESIGN (REPRESENTATION OF A FOOTPRINT). Andrew M. Greve. SN 668,662. Pub. 5-3-55. Filed 6-22-54.
- 610,380. MIDGETESTER. Simpson Electric Company, a Division of American Gage & Machine Company. SN 669,925. Pub. 5-17-55. Filed 3-8-55.
- 610,381. REALIFE. Stephen E. Garutao. SN 670,560. Pub. 5-10-55. Filed 7-26-54.
- 610,382. PLANAR. Carl Zeiss. SN 671,477. Pub. 5-3-55. Filed 8-10-54.
- 610,383. HUDSON BAY. Refrigeration Systems, Inc., d. b. a. Hudson Bay Division. SN 672,685. Pub. 5-10-55. Filed 9-2-54.
- 610,384. TEMPROBE. Victory Engineering Corporation. SN 672,856. Pub. 5-17-55. Filed 9-7-54.
- 610,385. ECHO. A. B. Carlson & Co., Inc. SN 673,644. Pub. 5-17-55. Filed 9-23-54.
- 610,386. ELEVATOR. Quick-Set Inc. SN 678,864. Pub. 5-17-55. Filed 9-27-54.

## CLASS 29

- 610,387. REDDY AND DESIGN. Clean Home Products, Incorporated. SN 610,308. Pub. 8-19-52. Filed 2-20-51.
- 610,388. SCRATCH-FIX. Dupli-Color Products Co., Inc. SN 653,466. Pub. 5-3-55. Filed 9-21-53.
- 610,389. CRAFTWAY. American Brush Corporation. SN 672,204. Pub. 5-3-55. Filed 8-25-54.
- 610,390. RUFF & TUFF. W. E. Kautenberg Co. SN 673,836. Pub. 5-10-55. Filed 9-27-54.
- 610,391. TIME SAVER AND DESIGN (REPRESENTATION OF A CLOCK DIAL). W. E. Kautenberg Co. SN 673,837. Pub. 5-10-55. Filed 9-27-54.
- 610,392. COMMANDER. Stanley Home Products, Inc. SN 674,102. Pub. 4-26-55. Filed 9-30-54.
- 610,393. ADMIRAL. Stanley Home Products, Inc. SN 674,103. Pub. 5-3-55. Filed 9-30-54.

## CLASS 31

- 610,394. LIPMAN ICE BOY. Yates-American Machine Company. SN 650,759. Pub. 4-12-55. Filed 7-23-53.
- 610,395. LIPMAN ICE BOY. Yates-American Machine Company. SN 650,760. Pub. 4-12-55. Filed 7-23-53.
- 610,396. SOSOFT. Stover Water Softener Company. SN 656,910. Pub. 4-12-55. Filed 11-24-53.

## CLASS 32

- 610,397. PLANORAMA. T. Baumritter Co., Inc. SN 649,059. Pub. 4-26-55. Filed 6-19-53.
- 610,398. THE GUEST SLEEPER AND DESIGN. The International Bedding Company. SN 649,710. Pub. 5-10-55. Filed 7-2-53.



610,399. HIS & HER PILLOW MATES. Henry Sobel, d. b. a. King Mornheus Products. SN 672,912. Pub. 5-10-55. Filed 9-8-54.

610,400. VITA PEDIC. F. S. Harmon Manufacturing Company. SN 673,741. Pub. 5-10-55. Filed 9-24-54.

610,401. MAGNIVIDER. Visirecord, Inc. SN 673,954. Pub. 5-10-55. Filed 9-28-54.

## CLASS 35

610,402. UNIVERSAL AND DESIGN. A. A. Universal Tire & Rubber Co. Inc. SN 646,839. Pub. 7-6-54. Filed 5-12-53.

610,403. CHEVRON AND DESIGN. The Garlock Packing Company. SN 658,002. Pub. 5-17-55. Filed 12-15-53.

610,404. U. S. ROYAL MIDDLEWEIGHT. United States Rubber Company. SN 665,252. Pub. 5-3-55. Filed 4-26-54.

610,405. U. S. ROYAL WOODSMAN. United States Rubber Company. SN 665,253. Pub. 5-3-55. Filed 4-26-54.

610,406. ASBESTOCORK. Victor Manufacturing & Gasket Co. SN 669,589. Pub. 5-3-55. Filed 7-7-54.

610,407. ASBESTOPAC. Victor Manufacturing & Gasket Co. SN 669,590. Pub. 5-3-55. Filed 7-7-54.

610,408. DESIGN OF HORSE AND SHIELD. Crotty Corporation. SN 669,864. Pub. 5-17-55. Filed 7-13-54.

610,409. LOW BOY. The Dayton Rubber Company. SN 677,490. Pub. 5-3-55. Filed 11-30-54.

## CLASS 36

610,410. THE LIVING MEMORIAL. Schulmerich Electronics, Incorporated. SN 661,295. Pub. 4-19-55. Filed 2-18-54.

## CLASS 37

610,411. CAT CAY. The Cat Cay Realty Company, Limited. SN 639,802. Pub. 4-26-55. Filed 12-20-52.

610,412. AD-CELLO AND DESIGN. Fabricon Products, Inc. SN 651,509. Pub. 4-26-55. Filed 8-7-53.

610,413. DAVEY EST. 1842 AND DESIGN. The Davey Company. SN 653,196. Pub. 4-12-55. Filed 8-27-53.

610,414. UNIPAC. The Farm Bureau Life Insurance Company. SN 654,657. Pub. 4-19-55. Filed 10-13-53.

610,415. "TAUBMAN." Samuel Taubman. SN 655,281. Pub. 5-3-55. Filed 10-23-53.

610,416. FLORAL-TONE. Scott Paper Company. SN 656,740. Pub. 4-12-55. Filed 11-20-53.

610,417. COLOR-VU. Color-Vu Products Corp. SN 673,648. Pub. 4-19-55. Filed 9-23-54.

610,418. NU CLEAR SEAL. Carpenter Paper Company. SN 673,807. Pub. 4-19-55. Filed 9-27-54.

610,419. BALANCE SEAL AND DESIGN (REPRESENTATION OF A SEAL WITH A BALL). Mail-Well Envelope Company of Texas. SN 673,843. Pub. 4-19-55. Filed 9-27-54.

610,420. TENOR. Crocker, Burbank Papers Inc. SN 673,969. Pub. 4-26-55. Filed 9-29-54.

610,421. PETAL SOFT. Barclay Tissue Corporation. SN 674,790. Pub. 4-26-55. Filed 10-14-54.

610,422. COPYMORE. Graham Paper Company. SN 674,886. Pub. 4-26-55. Filed 10-15-54.

610,423. EDON. Fort Howard Paper Company. SN 674,957. Pub. 5-3-55. Filed 10-18-54.

610,424. CONVELOPE. Varco Incorporated. SN 675,035. Pub. 5-3-55. Filed 10-18-54.

610,425. PROMENADE. Sidney J. Burgoyne & Sons, Inc. SN 675,054. Pub. 5-3-55. Filed 10-19-54.

610,426. TUFF OAK. Gulf States Paper Corporation. SN 675,211. Pub. 5-3-55. Filed 10-21-54.

## CLASS 38

610,427. WOLFE'S PLAY-BY-COLOR AND DESIGN. Wolfe's Play-by-Color Piano Sales Promotion. SN 657,092. Pub. 5-10-55. Filed 11-27-53.

610,428. ADJUSTOMATIC. Charles A. Stephens, d. b. a. Charles A. Stephens Co. SN 674,196. Pub. 5-10-55. Filed 10-1-54.

610,429. COL-COR-A IN OVAL DESIGN. Color Corporation of America. SN 674,321. Pub. 5-10-55. Filed 10-5-54.

610,430. THE BRIDE'S DUTCH UNCLE. The Bride's Dutch Uncle, Inc. SN 674,441. Pub. 5-10-55. Filed 10-7-54.

610,431. BRONC BURNETT. Wilfred McCormick. SN 675,216. Pub. 5-10-55. Filed 10-21-54.

610,432. WASHINGTON MERRY-GO-ROUND. Andrew R. Pearson and Robert S. Allen. SN 675,224. Pub. 5-10-55. Filed 10-21-54.

610,433. MERRY-GO-ROUND. Andrew R. Pearson and Robert S. Allen. SN 675,225. Pub. 5-10-55. Filed 10-21-54.

610,434. PRUDENTIAL. Prudential Premium Co. SN 675,587. Pub. 5-10-55. Filed 10-27-54.

610,435. PICTORIAL LIVING. Hearst Publishing Company, Inc. SN 676,320. Pub. 5-10-55. Filed 11-9-54.

610,436. DELITONE. Van Baerle & Associates. SN 676,689. Pub. 5-10-55. Filed 11-15-54.

## CLASS 39

610,437. "KAMPUS GIRL." The Neatform Co. Inc. SN 528,303. Pub. 6-28-49. Filed 7-10-47.

610,438. SUN-SPORT. Sports-Styles, Inc. SN 629,066. Pub. 5-10-55. Filed 5-1-52.

610,439. JAN LESLIE. Dave Robins. SN 630,092. Pub. 6-10-53. Filed 5-22-52.

610,440. DARLENE AND DESIGN. M. K. M. Hoslery Mills, Inc. SN 642,824. Pub. 5-3-55. Filed 2-26-53.

610,441. DEMI-WRAP. Stix, Baer and Fuller Company. SN 645,199. Pub. 5-10-55. Filed 4-13-53.

610,442. NY-LO-KNIT. Carmi-Almsbrooke Corporation. SN 656,208. Pub. 7-6-54. Filed 11-12-53.

610,443. STA-UP-CIRCLE. The Warner Brothers Company. SN 660,241. Pub. 5-10-55. Filed 1-27-54.

610,444. JEAN BARTELME DESIGNS FOR MATERNITY. Jean B. Thompson, d. b. a. Jean Bartelme. SN 661,847. Pub. 5-10-55. Filed 3-1-54.

610,445. GLENCOL REFRESHABLE SLACKS AND DESIGN. Trouser Corp. of America. SN 674,203. Pub. 5-10-55. Filed 10-1-54.

610,446. GLEN-RON SLACKS AND DESIGN. Trouser Corp. of America. SN 674,204. Pub. 5-10-55. Filed 10-1-54.

610,447. "I APPEAL." Even-Pul Foundations, Inc. SN 674,735. Pub. 5-3-55. Filed 10-13-54.

610,448. RHAPSODY. Loomtogs, Inc. SN 674,896. Pub. 5-10-55. Filed 10-15-54.

610,449. BRAVALON. Phillip Shlansky & Sons, Inc. SN 675,835. Pub. 5-3-55. Filed 11-1-54.

610,450. SARRINA. Samette Manufacturing Company, Inc. SN 676,137. Pub. 5-10-55. Filed 11-5-54.

610,451. ACTION. The Lovable Brassiere Company. SN 676,735. Pub. 5-10-55. Filed 11-16-54.

610,452. FIRM-A-CURVE. The Lovable Brassiere Company. SN 676,736. Pub. 5-10-55. Filed 11-16-54.

610,453. INTERPLAY. The Lovable Brassiere Company. SN 676,737. Pub. 5-10-55. Filed 11-16-54.

610,454. LITTLE BARE. The Lovable Brassiere Company. SN 676,738. Pub. 5-10-55. Filed 11-16-54.

610,455. MIRANDA. George Adams. SN 676,854. Pub. 5-10-55. Filed 11-18-54.

610,456. SLEEPY TIME. Sleepy Time Togs Inc. SN 676,916. Pub. 5-10-55. Filed 11-18-54.

610,457. SAKSWEAR. Saks & Company. SN 677,004. Pub. 5-10-55. Filed 11-19-54.

610,458. COOLORINATES. White Stag Mfg. Co. SN 677,190. Pub. 5-10-55. Filed 11-23-54.

610,459. HANDOE. Hansen Glove Corporation. SN 677,215. Pub. 5-10-55. Filed 11-24-54.

610,460. PIQUENYLON. Hansen Glove Corporation. SN 677,217. Pub. 5-10-55. Filed 11-24-54.

## CLASS 40

610,461. SUPER-SPUN. The Narrow Fabric Company. SN 675,996. Pub. 5-10-55. Filed 11-3-54.

610,462. LOVELY-LADY. Sta-Rite Ginnie Lou, Inc. SN 676,016. Pub. 5-10-55. Filed 11-3-54.

610,463. CONTINENTAL SHOE LACES. The Continental Elastic Corporation. SN 676,306. Pub. 5-10-55. Filed 11-9-54.

## CLASS 42

610,464. HOUSE OF TERRY AND DESIGN. Frank H. Wheat, Jr. SN 640,593. Pub. 5-3-55. Filed 1-9-53.

610,465. CEL-A-CHROME. M. Hausman & Sons, Inc. SN 644,112. Pub. 5-3-55. Filed 3-24-53.

610,466. MOKO-DEEN AND DESIGN. Mook Bros. Inc. SN 652,211. Pub. 5-3-55. Filed 8-24-53.

610,467. MOKO-TWEED AND DESIGN. Mook Bros. Inc. SN 652,212. Pub. 5-3-55. Filed 8-24-53.

610,468. FLIK. Pellon Corporation. SN 673,196. Pub. 5-3-55. Filed 9-14-54.

610,469. COLOR PARADE. Linen Guild, Inc. SN 673,286. Pub. 5-3-55. Filed 9-16-54.

610,470. E. BRAUN & CO. E. Braun & Company, Inc. SN 674,030. Pub. 5-3-55. Filed 8-25-54.

610,471. WITHDRAWN.

## CLASS 46

610,472. DUNCAN HINES AND DESIGN. Hines-Park Foods, Inc. SN 592,907. Pub. 5-10-55. Filed 2-23-50.

610,473. SPACEMEN. Bowman Gum, Inc., now by change of name Connelly Containers, Inc. SN 623,234. Pub. 5-3-55. Filed 1-5-52.

610,474. SWEET SUE. Beasley-Bailey Poultry Co., Inc. SN 632,588. Pub. 6-30-53. Filed 7-16-52.

610,475. WINGER PROCESS ETC. AND DESIGN. Winger Dairy Products Processing and Manufacturing Corporation. SN 638,620. Pub. 5-17-55. Filed 11-25-52.

610,476. BLUBAUGH'S EARLY AMERICAN AND DESIGN. R. B. Blubaugh, d. b. a. Blubaugh Retail Bakeries. SN 642,260. Pub. 9-21-54. Filed 2-16-53.

610,477. KAOLA. The Hidden Company, d. b. a. Durkee Famous Foods. SN 650,172. Pub. 4-13-54. Filed 7-13-53.

610,478. MARK O' MERIT. Merit Packing Co. SN 652,874. Pub. 5-3-55. Filed 9-8-53.

610,479. REISMAN'S. J. Reisman & Sons, Inc., also known as J. Reisman & Sons Inc. and J. Reisman Sons Incorporated. SN 656,171. Pub. 5-3-55. Filed 11-10-53.

610,480. DIP-IT. Russell H. Rogers Corporation. SN 660,751. Pub. 5-3-55. Filed 2-8-54.

610,481. BB-GB AND DESIGN. Bertha Bares. SN 661,313. Pub. 5-10-55. Filed 2-19-54.

610,482. PIE TIME. Crystal Canning Company. SN 664,734. Pub. 5-10-55. Filed 4-19-54.

610,483. FOX HILL BRAND. Waynesboro Orchard Company. SN 666,236. Pub. 5-10-55. Filed 5-12-54.

610,484. WEAVER'S. Victor F. Weaver, Inc. SN 666,237. Pub. 5-10-55. Filed 5-12-54.

610,485. WEAVER'S AND DESIGN (REPRESENTATION OF A CHICKEN). Victor F. Weaver, Inc. SN 666,238. Pub. 5-10-55. Filed 5-12-54.

610,486. PLANET POPS. The Kroger Co. SN 667,964. Pub. 5-10-55. Filed 6-9-54.

610,487. FREDDY'S AND DESIGN. Freddy's Lefse, Inc. SN 670,349. Pub. 5-3-55. Filed 7-21-54.

610,488. CERATEX 77. J. R. Short Milling Company. SN 670,986. Pub. 5-10-55. Filed 8-2-54.

610,489. L. A. LEADER. Fernando Canning Company, Inc., d. b. a. Fernando Canning Co. SN 671,149. Pub. 5-10-55. Filed 8-5-54.

610,490. BAR S. Seattle Packing Company. SN 672,106. Pub. 5-17-55. Filed 8-23-54.

610,491. PIZZA-RETTES. Bella Products Co., Inc. SN 672,270. Pub. 5-10-55. Filed 8-26-54.

610,492. SEAFARER. San Juan Fishing & Packing Co. SN 673,302. Pub. 5-17-55. Filed 9-16-54.

610,493. AMERICANA. Schenley Import Corporation, also d. b. a. American Wine Company. SN 654,590. Pub. 5-10-55. Filed 10-12-53.

610,494. HI-TYPE AND DIAMOND DESIGN. Frank Paxton Lumber Company. SN 662,019. Pub. 4-19-55. Filed 3-4-54.

610,495. FIND-A-KEY. Leonard Van Dalen, d. b. a. Van Wood Manufacturing Company. SN 662,402. Pub. 4-26-55. Filed 3-10-54.

610,496. TENAPLAST. Tenak Products Company. SN 663,230. Pub. 4-26-55. Filed 3-24-54.

610,497. TENAPAK. Tenak Products Company. SN 663,231. Pub. 4-26-55. Filed 3-24-54.

610,498. NEFFSLABS AND DESIGN (REPRESENTATION OF DIAMOND BLOCKS). J. W. Neff Laboratories, Inc. SN 672,595. Pub. 5-3-55. Filed 9-1-54.

610,499. CHERYL CHASE. Maurice M. Talmage, d. b. a. Cheryl Chase. SN 659,832. Pub. 5-10-55. Filed 1-20-54.

610,500. HALKA AND DESIGN. Insular Trading Co., Inc. SN 671,034. Pub. 5-10-55. Filed 8-3-54.

610,501. BIFFY CAKE. Mystic Maid Co. SN 632,535. Pub. 5-10-55. Filed 7-14-52.

610,502. CLEO. Cleo Beauty Products Company. SN 642,017. Pub. 9-21-54. Filed 2-10-53.

610,503. CROTON TWIN AND DESIGN. Croton Industries Corporation. SN 659,224. Pub. 5-10-55. Filed 1-4-54.

610,504. DEL-MAR. East Coast Soap Corp. SN 663,647. Pub. 5-17-55. Filed 3-31-54.

610,505. LIQUID SAVABRUSH AND REPRESENTATION OF BRUSH. Schalk Chemical Company. SN 663,760. Pub. 5-10-55. Filed 3-15-54.

610,506. MAC'S MS PLUS AND DESIGN. Mac's Super Gloss Co., to Mac's MS Plus, Inc. SN 664,615. Pub. 5-17-55. Filed 4-15-54.

610,507. MAGNET. Swift & Company. SN 671,216. Pub. 5-17-55. Filed 8-5-54.

610,508. BOUNTY. The Procter & Gamble Company. SN 671,583. Pub. 5-10-55. Filed 8-12-54.

610,509. IN THE MOOD. The J. R. Watkins Company. SN 673,556. Pub. 5-10-55. Filed 9-21-54.



## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

### CLASS 2

610,510. Hart Metal Products Corporation, Elkhart, Ind.  
SN 653,973. Filed P. R. 9-30-53. Am. S. R. 5-31-55.

THE BOX WITH THE "BATTLESHIP-BOTTOM"

For Storage and Utility Boxes.  
Use since Sept. 14, 1953.

### Service Mark

### CLASS 105

610,511. Viking World Travel Service, Inc., New York, N. Y.  
SN 630,637. Filed P. R. 6-2-52. Am. S. R. 1-27-55.



For Travel Agency Services in Arranging for Package Visits  
to Foreign Cities.  
Use since May 27, 1952.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                                      |                                                                               |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 12,279. WELCOME SOAP AND DESIGN. Cl. 52. 6-2-85.                     | 324,847. MO-MAX. Cl. 14. 6-4-35.                                              |
| 12,336. RAHTJENS COMPOSITION. Cl. 16. 6-23-85.                       | 324,921. FARMSTEAD. Cl. 46. 6-4-35.                                           |
| 104,536. CAMEL. Cl. 46. 6-1-15.                                      | 324,922. DESIGN OF HOUSE. Cl. 46. 6-4-35.                                     |
| 104,537. DESIGN OF MAN RIDING DONKEY AND TWO CAMELS. Cl. 46. 6-1-15. | 324,956. GILBEY'S SPEY-ROYAL ETC. Cl. 49. 6-4-35.                             |
| 104,744. SYRACUSE. Cl. 30. 6-15-15.                                  | 325,050. DURACHROME. Cl. 12. 6-11-35.                                         |
| 104,745. O. P. CO. Cl. 30. 6-15-15.                                  | 325,230. STANDARD INVESTOR. Cl. 38. 6-18-35.                                  |
| 105,486. KONGOLENE KKK ETC. Cl. 51. 7-27-15.                         | 325,251. CARTER'S ETC. Cl. 18. 6-18-35.                                       |
| 106,220. RAIZ INDIA DEL DR. MORSE ETC. AND DESIGN. Cl. 18. 10-19-15. | 325,281. SURE WELD AND DESIGN. Cl. 14. 6-18-35.                               |
| 106,400. DREADNOUGHT. Cl. 23. 10-19-15.                              | 325,644. YORK. Cl. 36. 7-2-35.                                                |
| 106,501. REY. Cl. 7. 10-19-15.                                       | 325,757. MO-MAX. Cl. 23. 7-2-35.                                              |
| 106,642. GROS DELUCILE. Cl. 42. 10-26-15.                            | 325,784. "JUDGE FOR YOURSELF" LONDON'S AND DESIGN. Cl. 49. 7-2-35.            |
| 106,643. CHRISTIANA. Cl. 42. 10-26-15.                               | 325,899. BATES. Cl. 44. 7-9-35.                                               |
| 106,690. SCOTTISSUE. Cl. 37. 10-26-15.                               | 326,106. DRESS-ALONE. Cl. 39. 7-16-35.                                        |
| 106,768. CAMEL. Cl. 46. 10-26-15.                                    | 326,203. MORNING LUXURY. Cl. 46. 7-16-35.                                     |
| 106,793. NYLO. Cl. 15. 10-26-15.                                     | 326,237. DOVERCLIFF AND DESIGN. Cl. 37. 7-16-35.                              |
| 106,841. VITALIC. Cl. 35. 11-2-15.                                   | 326,352. SPIRITS BY ROSSVILLE ETC. AND DESIGN. Cl. 49. 7-23-35.               |
| 106,942. SLOGAN. Cl. 46. 11-9-15.                                    | 326,621. CURLY-TOP. Cl. 39. 7-30-35.                                          |
| 106,982. ASPIROL. Cl. 18. 11-9-15.                                   | 326,721. NANNETTE TODDLERS AND DESIGN. Cl. 39. 7-30-35.                       |
| 107,034. LA NOCTURNE. Cl. 51. 11-9-15.                               | 326,817. PARAPON. Cl. 6. 8-6-35.                                              |
| 322,314. OVER-TURE. Cl. 39. 3-5-35.                                  | 326,825. FOOT BALANCE. Cl. 39. 8-6-35.                                        |
| 323,308. VELLO. Cl. 16. 4-9-35.                                      | 327,079. SONOTONE. Cl. 44. 8-13-35.                                           |
| 323,628. BERKLEY SQUARE AND DESIGN. Cl. 28. 4-23-35.                 | 327,219. ORANO. Cl. 49. 8-20-35.                                              |
| 323,659. PERSIL HENKEL AND DESIGN. Cl. 52. 4-23-35.                  | 327,265. ULTROL. Cl. 15. 8-20-35.                                             |
| 324,098. WOOL-GORA. Cl. 42. 5-14-35.                                 | 327,553. 888. Cl. 37. 8-27-35.                                                |
| 324,142. BASQUETTE AND DESIGN. Cl. 39. 5-14-35.                      | 327,554. 777. Cl. 37. 8-27-35.                                                |
| 324,190. BECKOLIN. Cl. 16. 5-14-35.                                  | 328,026. DESIGN OF TWO SCROLLS, CIRCLE AND GEOMETRIC FIGURE. Cl. 37. 9-10-35. |
| 324,207. DR. EMERSON AND DESIGN. Cl. 39. 5-14-35.                    | 328,071. NAVONOD. Cl. 1. 9-17-35.                                             |
| 324,367. JIMMIE. Cl. 39. 5-14-35.                                    | 328,122. V. A. Cl. 18. 9-17-35.                                               |
| 324,454. BECKOLIN. Cl. 6. 5-21-35.                                   | 328,183. RUSCO ENGINEERED AND DESIGN. Cl. 19. 9-17-35.                        |
| 324,501. SOCIETY. Cl. 16. 5-21-35.                                   | 328,476. YANKYMAID. Cl. 44. 10-1-35.                                          |
| 324,610. SHELL DIESELIN. Cl. 15. 5-21-35.                            | 328,614. DOVAL. Cl. 1. 10-1-35.                                               |
| 324,761. FOAMALONE. Cl. 52. 5-28-35.                                 | 328,615. DOV. Cl. 1. 10-1-35.                                                 |
| 324,812. CARTER'S ETC. Cl. 18. 6-4-35.                               |                                                                               |

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|-------------------------------------------------------------|-----------------------------------------------------------------|
| 328,885. CINDY FROCKS AND DESIGN. Cl. 39. 10-8-35.          | 329,258. COCODRILO. Cl. 37. 10-22-35.                           |
| 328,909. POLAVA AND DESIGN. Cl. 39. 10-8-35.                | 329,376. LYRIC. Cl. 39. 10-29-35.                               |
| 329,120. VANITY. Cl. 23. 10-15-35.                          | 329,436. PHILIP MORRIS & CO. LTD. AND DESIGN. Cl. 17. 10-29-35. |
| 329,221. A GREGG PRODUCT ETC. AND DESIGN. Cl. 21. 10-22-35. | 329,608. PARK & TILFORD. Cl. 49. 11-5-35.                       |
| 329,226. DENTURINE ETC. Cl. 51. 10-22-35.                   | 329,650. CHAN-L-ITE. Cl. 21. 11-5-35.                           |
| 329,247. FIRST OVER THE BARS. Cl. 49. 10-22-35.             | 329,716. SOA. Cl. 6. 11-5-35.                                   |
| 329,257. AMOCO. Cl. 4. 10-22-35.                            | 329,847. MARLEY'S ETC. AND DESIGN. Cl. 46. 11-12-35.            |

## TRADEMARK REGISTRATIONS CANCELED

### Section 8

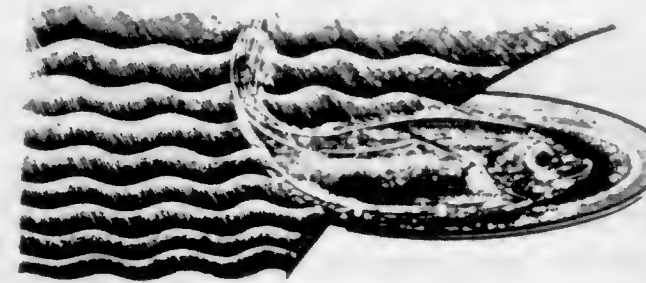
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|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 45,841. ARM AND HAMMER DESIGN WITHIN TRIANGLE. Cl. 27. 8-29-05.                | 232,076. GORTON-PEW FISHERIES CO. AND REPRESENTATION OF WHEEL AND FISH. Cl. 46. 8-30-27.  |
| 46,564. P. W. C. CO. Cl. 27. 9-26-05.                                          | 232,672. NEPTUNE. Cl. 46. 9-13-27.                                                        |
| 46,756. C. W. C. CO. AND CRESCENT AND STAR DESIGN. Cl. 27. 10-3-05.            | 232,673. OPAL. Cl. 46. 9-13-27.                                                           |
| 48,706. OMEGA. Cl. 14. 1-9-06.                                                 | 232,895. SMOKEES. Cl. 46. 9-20-27.                                                        |
| 49,187. REPRESENTATION OF ARM HOLDING BOW. Cl. 40. 1-30-06.                    | 233,202. JUNIOR. Cl. 23. 9-27-27.                                                         |
| 49,483. PERFECTION. Cl. 27. 2-6-06.                                            | 236,144. NATIONAL AND SHIELD DESIGN. Cl. 12. 12-6-27.                                     |
| 65,337. B&B. Cl. 27. 9-17-07.                                                  | 239,841. PARAPURA. Cl. 1. 3-13-28.                                                        |
| 66,950. H & R ARMS CO. AND REPRESENTATION OF TARGET. Cl. 9. 1-7-08.            | 240,639. REPRESENTATION OF INDIAN HEAD. Cl. 1. 4-3-28.                                    |
| 71,082. GLOSS LITE AND REPRESENTATION OF BARREL. Cl. 16. 10-27-08.             | 243,080. CALSOMA. Cl. 6. 6-12-28.                                                         |
| 86,412. PHILADELPHIA WATCH CASE CO. Cl. 27. 5-7-12.                            | 244,685. AMORSKIN. Cl. 6. 7-24-28.                                                        |
| 113,358. HALF-BACK. Cl. 39. 10-17-16.                                          | 247,220. SANETTE. Cl. 13. 9-25-28.                                                        |
| 114,068. AJAX. Cl. 14. 1-2-17.                                                 | 248,103. TECS. Cl. 2. 10-16-28.                                                           |
| 114,670. BULL AND REPRESENTATION OF BULL. Cl. 14. 1-2-17.                      | 249,037. RENAULT. Cl. 6. 11-6-28.                                                         |
| 115,423. JIFFY. Cl. 46. 2-6-17.                                                | 255,164. VERO. Cl. 46. 4-16-29.                                                           |
| 119,542. REPRESENTATION OF ARMS HOLDING INSULATING MATERIAL. Cl. 21. 11-27-17. | 257,074. SUC AND DIAMOND DESIGN. Cl. 33. 5-28-29.                                         |
| 121,451. KORRY-KROME AND DIAMOND DESIGNS. Cl. 39. 4-30-18.                     | 267,453. VOGUETTES WITHIN TRIANGLE AND REPRESENTATION OF STARS. Cl. 39. 2-18-30.          |
| 133,706. VICTORY. Cl. 40. 8-3-20.                                              | 267,454. VOGUE FORM WITHIN TRIANGLE AND REPRESENTATION OF STARS. Cl. 39. 2-18-30.         |
| 157,689. VICTORY. Cl. 40. 8-15-22.                                             | 274,579. CHOCOLAT SUNDAY. Cl. 46. 9-2-30.                                                 |
| 165,480. KILSCAB AND REPRESENTATIONS OF SHEEP AND COW. Cl. 6. 3-13-23.         | 292,337. SPECILUBE. Cl. 15. 3-15-32.                                                      |
| 170,515. BLUE LETTER. Cl. 46. 7-17-23.                                         | 296,278. CLOVER FARM. Cl. 35. 8-2-32.                                                     |
| 175,360. MESSENGER BOYS. Cl. 46. 11-6-23.                                      | 296,831. FAVORITE. Cl. 46. 8-23-32.                                                       |
| 176,574. SNOW FLAKE. Cl. 46. 11-27-23.                                         | 303,304. BAR-NONE. Cl. 46. 5-23-33.                                                       |
| 182,640. KILTIE KOOKIES. Cl. 46. 4-15-24.                                      | 313,766. IOFY. Cl. 28. 6-5-34.                                                            |
| 187,904. FOR-GET-ME-NOT. Cl. 46. 8-12-24.                                      | 330,904. DISDYE. Cl. 43. 12-17-35.                                                        |
| 188,605. 8830. Cl. 40. 9-2-24.                                                 | 332,233. WEST POINTER. Cl. 3. 2-4-36.                                                     |
| 188,847. 362. Cl. 40. 9-2-24.                                                  | 336,773. AMERICA'S FAVORITE HOUSEHOLD FUEL. Cl. 1. 7-14-36.                               |
| 188,850. 828. Cl. 40. 9-2-24.                                                  | 336,920. OP. Cl. 1. 7-21-36.                                                              |
| 194,820. RIGID TESTED CONSTRUCTION AND DESIGN. Cl. 3. 2-10-25.                 | 337,568. PO-DO. Cl. 23. 8-11-36.                                                          |
| 198,300. 802. Cl. 40. 5-12-25.                                                 | 338,877. FRANTONE AND REPRESENTATION OF MAN AND WOMAN DANCING. Cl. 39. 9-15-36.           |
| 198,348. 926. Cl. 40. 5-12-25.                                                 | 340,338. FAT MEN'S SHOP AND REPRESENTATION OF MAN. Cl. 39. 11-3-36.                       |
| 198,569. WARDROLA. Cl. 3. 5-19-25.                                             | 346,594. ROCKLYN FLEECE. Cl. 39. 6-1-37.                                                  |
| 200,376. KEYSTONE STANDARD. Cl. 27. 6-30-25.                                   | 348,572. WOOLZIE-WOOLZIE QUALITY BIRDS AND REPRESENTATION OF OWLS. Cl. 46. 8-3-37.        |
| 201,332. MEALTIME. Cl. 46. 7-21-25.                                            | 353,808. SPLENDORAY. Cl. 39. 1-8-38.                                                      |
| 202,318. AIR-SCALE. Cl. 13. 8-18-25.                                           | 355,616. STARGLO. Cl. 39. 3-22-38.                                                        |
| 205,822. SANETTE. Cl. 2. 11-17-25.                                             | 356,738. OCTINE. Cl. 6. 5-10-38.                                                          |
| 206,578. SUNDY-MONDY. Cl. 39. 12-8-25.                                         | 358,510. STRATCOLD. Cl. 23. 7-19-38.                                                      |
| 217,339. HIGH TIDE. Cl. 46. 8-31-26.                                           | 360,140. SHAG. Cl. 40. 9-6-38.                                                            |
| 218,624. "THE EXHIBITOR". Cl. 38. 9-28-26.                                     | 360,534. MEVAC. Cl. 23. 9-20-38.                                                          |
| 220,999. WOODMONT. Cl. 39. 11-23-26.                                           | 362,337. PLEATEES. Cl. 39. 11-15-38.                                                      |
| 221,158. KUMFORT-ARCH. Cl. 39. 11-23-26.                                       | 367,317. DON'T COUNT SHEEP FALL FAST ASLEEP! AND REPRESENTATION OF SHEEP. Cl. 32. 5-9-39. |
| 223,260. SENTINEL. Cl. 28. 1-25-27.                                            | 369,402. BUCKEYE CLIPPER AND REPRESENTATION OF WINGED GLOBE. Cl. 23. 7-25-39.             |
| 224,519. WHEARY AIRPLANE WARDROLETTE AND SHIELD DESIGN. Cl. 3. 3-1-27.         | 371,550. MILLFOLD. Cl. 37. 9-26-39.                                                       |
| 226,133. MG. Cl. 42. 3-29-27.                                                  | 373,473. VIKING. Cl. 46. 12-12-39.                                                        |
|                                                                                | 377,178. TRAY-SUITER. Cl. 3. 4-23-40.                                                     |
|                                                                                | 379,894. EASTMONT. Cl. 47. 7-30-40.                                                       |
|                                                                                | 381,730. DUFFELEG. Cl. 39. 10-1-40.                                                       |



- 383,226. WETHAFAST. Cl. 40. 11-26-49.  
 384,457. SLIMMERETTE. Cl. 39. 1-21-41.  
 386,489. CARBON BLAST. Cl. 6. 4-15-41.  
 387,517. PARA. Cl. 50. 5-20-41.  
 388,694. BEAR AND REPRESENTATION OF BEARS. Cl. 40. 7-8-41.  
 390,783. COLUMBIA AND REPRESENTATION OF WINGED GEAR AND STARS. Cl. 23. 10-7-41.  
 390,805. VARSITY. Cl. 40. 10-7-41.  
 391,359. PERMELL. Cl. 42. 11-4-41.  
 391,859. NYLURA. Cl. 39. 11-25-41.  
 392,844. SHEERVUE. Cl. 42. 1-13-42.  
 395,760. LA SAMBA. Cl. 39. 6-9-42.  
 401,586. ORA TON AND REPRESENTATION OF STAR. Cl. 29. 5-25-43.  
 402,899. CELOTEX. Cl. 12. 8-24-43.  
 403,375. STUDIOPHOT AND TRIANGULAR DESIGN. Cl. 26. 9-21-43.  
 404,208. ORLIS. Cl. 29. 11-9-43.  
 412,139. PLASTRON. Cl. 40. 2-20-45.  
 414,902. CLIPPER. Cl. 3. 7-3-45.  
 414,904. GAZELLE. Cl. 3. 7-3-45.  
 414,905. GOLDEN ARROW AND REPRESENTATION OF ARROW. Cl. 3. 7-3-45.  
 414,906. GREYMORE. Cl. 3. 7-3-45.  
 414,907. NAVIGATOR. Cl. 3. 7-3-45.  
 414,910. SEA GULL. Cl. 3. 7-3-45.  
 418,929. SPHERSCALE. Cl. 26. 1-15-46.  
 418,952. DAY=LITEDUST. Cl. 6. 1-15-46.  
 421,714. REG'LAR. Cl. 9. 6-11-46.  
 421,855. SWING KING. Cl. 32. 6-18-46.  
 423,084. DUNFIFE. Cl. 49. 8-20-46.  
 425,134. DINITROSOL. Cl. 6. 11-5-46.  
 428,148. ELGUANITE. Cl. 6. 3-11-47.  
 428,255. PARALLEL SPACED VERTICAL BARS. Cl. 3. 3-18-47.  
 433,806. KEVON. Cl. 6. 10-28-47.  
 433,815. BULL-DOZER. Cl. 9. 10-28-47.  
 433,863. DEHYDRAPAC. Cl. 2. 11-4-47.  
 434,215. TIN SOLDIER. Cl. 46. 11-11-47.  
 434,363. CHUMMIE. Cl. 39. 11-18-47.  
 434,869. A CAPITAL PICK. OUR COUNTRY'S PRIDE, AND REPRESENTATION OF CAPITOL. Cl. 44. 12-9-47.  
 435,286. QUALITONE. Cl. 37. 12-16-47.  
 435,921. AIR MAIL. Cl. 17. 1-13-48.  
 435,923. KENTUCKY LEADER. Cl. 17. 1-13-48.  
 436,051. BALLET. Cl. 43. 1-20-48.  
 436,054. TOURING. Cl. 43. 1-20-48.  
 436,066. HOME-TIES WITHIN CIRCLE AND REPRESENTATION OF HANDS HOLDING ROPE. Cl. 43. 1-20-48.  
 436,067. HOME-TIES WITHIN CIRCLE AND REPRESENTATION OF HANDS KNITTING. Cl. 43. 1-20-48.  
 507,120. SILVER BRUCE. Cl. 46. 3-1-49.  
 507,123. LAKE HEMET. Cl. 46. 3-1-49.  
 507,141. RESTAFFA AND REPRESENTATION OF GLOBE. Cl. 42. 3-1-49.  
 507,145. REPRESENTATION OF SUN AND STARS WITHIN OVAL. Cl. 46. 3-1-49.  
 507,147. CASERTA. Cl. 46. 3-1-49.  
 507,152. PICKARD CHINA AND SHIELD DESIGN. Cl. 30. 3-1-49.  
 507,157. THORO'BRED OF LEATHERS. Cl. 39. 3-1-49.  
 507,159. PEDEMODE. Cl. 39. 3-1-49.  
 507,171. SERVITOR "YOUR GUARANTOR OF SERVICE". Cl. 39. 3-1-49.  
 507,172. "STEELE-STYLE". Cl. 37. 3-1-49.  
 507,182. THE FARMERS' MUSEUM. Cl. 50. 3-1-49.  
 507,189. NORMIS. Cl. 27. 3-1-49.  
 507,193. DESKING. Cl. 37. 3-1-49.  
 507,194. FORTY BELOW. Cl. 39. 3-1-49.  
 507,203. DEVILISHLY SHEER. Cl. 39. 3-1-49.  
 507,205. LA JERSE. Cl. 42. 3-1-49.  
 507,209. BRIGAMOOD. Cl. 42. 3-1-49.  
 507,213. BIG CHIEF. Cl. 6. 3-1-49.  
 507,223. —DUROC—. Cl. 50. 3-1-49.  
 507,228. FAIR-N-COOLER. Cl. 39. 3-1-49.  
 507,234. SURF. Cl. 50. 3-1-49.  
 507,235. JACKS ARE BETTER AND REPRESENTATION OF JACK PLAYING CARDS. Cl. 39. 3-1-49.  
 507,241. GREEN COLORED WARP THREADS. Cl. 42. 3-1-49.  
 507,247. DUB-LUP. Cl. 39. 3-1-49.  
 507,251. PIONEER. Cl. 6. 3-1-49.  
 507,259. RUFFLE-FRAMED. Cl. 42. 3-1-49.  
 507,266. TIVOLI. Cl. 27. 3-1-49.  
 507,268. INTER-UP. Cl. 39. 3-1-49.  
 507,275. PARACORD. Cl. 42. 3-1-49.  
 507,276. MIFAVORITE. Cl. 39. 3-1-49.  
 507,278. SMILE SHAVE. Cl. 4. 3-1-49.  
 507,280. DYNOMATIC. Cl. 27. 3-1-49.  
 507,282. BETSYKNIT. Cl. 39. 3-1-49.  
 507,294. INTURA. Cl. 6. 3-1-49.  
 507,299. NEW ARRIVAL AND STORK DESIGN. Cl. 42. 3-1-49.  
 507,306. COFFETTE. Cl. 6. 3-1-49.  
 507,309. REPRESENTATION OF BUCCANEER FIGURE. Cl. 55. 3-1-49.  
 507,311. MIDWEST'S CLEAN-IT AND CROSS DESIGN. Cl. 4. 3-1-49.  
 507,312. METALLAC. Cl. 22. 3-1-49.  
 507,313. SAFETEE. Cl. 2. 3-1-49.  
 507,314. GAS-A-FIRE. Cl. 34. 3-1-49.  
 507,315. WIND-O-COOL WINDOW FAN. Cl. 34. 3-1-49.  
 507,318. GUM LINE AND REPRESENTATION OF ARROWS AND GUM LINE. Cl. 29. 3-1-49.  
 507,320. GRIP DEVELOPER. Cl. 22. 3-1-49.  
 507,321. THREE EVOLUTION METERS. Cl. 22. 3-1-49.  
 507,324. TELL-O-MAIL AND REPRESENTATION OF MAIL BOX. Cl. 2. 3-1-49.  
 507,327. WASHITA. Cl. 46. 3-1-49.  
 507,328. STRATHMORE SWEET AIDS AND SHIELD DESIGN. Cl. 46. 3-1-49.  
 507,331. NORWAY. Cl. 28. 3-1-49.  
 507,333. KREME KOMFORT. Cl. 6. 3-1-49.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 319,311. PHENSIC. Cl. 18. 11-20-34. Phensic Limited, Beecham (Northern) Limited, trading also as The Phensic Company, London, England. Corrected: In the Renewal Certificate, line 2, after "Limited," insert *trading also as The Phensic Company*; on the sheet containing the statement, upper left-hand corner thereof, below the word "RENEWED", after "Limited" insert *, trading also as the Phensic Company*.  
 601,920. T. M. DESIGN AND REPRESENTATION OF A FISH. Cl. 46. 2-8-55. René Jules Pierre Beaurain, Bologne-sur-Mer (Pas-de-Calais), France. Corrected: The mark should appear as shown below instead of as in the registration—



- 606,575. D. Cl. 10. 5-31-55. The Davison Chemical Corporation, now by merger W. R. Grace & Co., New York, N. Y. Corrected: In the certificate, line 4, strike out "of New York, N. Y."; line 5, before "a corporation" insert *of New York, N. Y.*; in the statement, first column, lines 1 to 5 should appear as shown below instead of as in the registration:

The Davison Chemical Corporation (Maryland Corporation), now by merger  
 W. R. Grace & Co. (Connecticut Corporation)  
 7 Hanover Square  
 New York 5, N. Y.

- 607,241. SKOOKUM CRAFT AND DESIGN. Cl. 22. 6-14-55. Aaron H. Fagergren, doing business as Skookum Craft Products, Shelton, Wash. Corrected: In the certificate, lines 3 and 14, and in the statement, column 1, line 1, name of registrant, for "Aaron T. Fagergren" read *Aaron H. Fagergren*; in the statement, line 3, for "Box 724" read *Box 274*.

- 608,189. DEK-AID. Cl. 12. 7-5-55. Asbestolith Manufacturing Corporation, Brooklyn, N. Y. Corrected: In the statement, column 1, line 3, street address of registrant, for "275 Kent St." read *257 Kent St.*

## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 6

- 103,786. Apr. 13, 1915. MacAndrews and Forbes Company, Camden, N. J. Pub. by American-LaFrance-Foamite Corporation, Elmira, N. Y.

# Foamite

For Fire-Extinguishing Compositions and Ingredients.

- 322,957. Mar. 26, 1935. E. I. du Pont de Nemours and Company, Wilmington, Del. Pub. by registrant.

# THERMOFLEX

For Chemicals Used as Antioxidants for Rubber.

### CLASS 9

- 325,488. June 25, 1935. Hercules Powder Company, Wilmington, Del. Pub. by registrant.

# Herco-Tube

For Electric Blasting Caps.  
 TM 697 O. G.—8

### CLASS 18

- 104,653. June 8, 1915. L. Sonneborn Sons, Inc., New York, N. Y. Pub. by registrant.

# GLORIA

For Mineral Oil Used as a Medicine and as an Essential Ingredient of Medicinal Preparations.

### CLASS 27

- 327,421. Aug. 27, 1935. Western Clock Company, Peru, Ill. Pub. by General Time Corporation, La Salle, Ill.

# TIDE

For Clocks and Watches.

### CLASS 42

- 322,431. Mar. 5, 1935. Atlas Fabrics Corp., New York, N. Y. Pub. by registrant.

# Zuki

For All Silk Piece Goods.



## LIST OF REGISTRANTS OF TRADEMARKS

- A. A. Universal Tire & Rubber Co. Inc., New York, N. Y. 610,402, pub. 7-6-54. Cl. 35.  
 Abbott Laboratories, North Chicago, Ill. 243,080, can. Cl. 6.  
 Adam Opel Aktiengesellschaft, Rüsselsheim am Main, Germany. 610,293, pub. 5-17-55. Cl. 19.  
 Adams, George, New York, N. Y. 610,455, pub. 5-10-55. Cl. 39.  
 Advance Solvents & Chemical Corp., New York, N. Y. 610,206, pub. 5-10-55. Cl. 11.  
 Ahrendt Instrument Co., The, College Park, Md. 610,296, pub. 5-10-55. Cl. 21.  
 Air Scale Co., The, Toledo and Delta, Ohio. 202,318, can. Cl. 13.  
 Air-Way Electric Appliance Corp., Toledo, Ohio, now by change of name to Air-Way Industries, Inc. 610,305, pub. 5-10-55. Cl. 21.  
 Air-Way Industries, Inc.: See—  
 Air-Way Electric Appliance Corp.  
 Ajax Metal Co., The, Philadelphia, Pa. 114,668, can. Cl. 14.  
 Ajax Metal Co., The, Philadelphia, Pa. 114,670, can. Cl. 14.  
 Albertis, Sara B., New York, N. Y. 610,207, pub. 5-10-55. Cl. 11.  
 Allen, Robert S.: See—  
 Pearson, Andrew R., and Allen.  
 Allen, S. L., & Co., Inc., Philadelphia, Pa. 610,340, pub. 5-10-55. Cl. 22.  
 Allied Petroleum Co., Inc., The, Denver, Colo. 610,252, pub. 4-5-55. Cl. 15.  
 American Brake Shoe Co., New York, N. Y. 610,191, pub. 5-10-55. Cl. 6.  
 American Brush Corp., Chicago, Ill. 610,389, pub. 5-3-55. Cl. 29.  
 American Crayon Co., The, Sandusky, Ohio. 326,237, ren. 7-16-55. Cl. 37.  
 American Crayon Co., The, Sandusky, Ohio. 327,553-4, ren. 8-27-55. Cl. 37.  
 American Cyanamid Co., New York, N. Y. 610,194, pub. 5-10-55. Cl. 6.  
 American Hominy Co., Chicago, Ill. 176,574, can. Cl. 46.  
 American-LaFrance-Foamite Corp.: See—  
 MacAndrews and Forbes Co.  
 American Logging Tool Co., now by change of name, Evart Logging Co., to American Logging Tool Corp., Evart, Mich. 610,342, pub. 5-3-55. Cl. 23.  
 American Logging Tool Corp.: See—  
 American Logging Tool Co.  
 American Metal Specialties Corp., Hatboro, Pa. 610,316, pub. 5-10-55. Cl. 22.  
 American Oil Co., The, New York, N. Y. 329,257, ren. 10-22-55. Cl. 4.  
 American Scientific Laboratories, Inc., Madison, Wis. 610,197, pub. 5-17-55. Cl. 6.  
 American Wine Co.: See—  
 Schenley Import Corp.  
 Amorskin Corp., New York, N. Y. 244,685, can. Cl. 6.  
 Anderson, Arthur A., d. b. a. Arthur Anderson Fish Co., Astoria, Oreg. 170,515, can. Cl. 46.  
 Anderson, Arthur, Fish Co.: See—  
 Anderson, Arthur A.  
 Andrea Mfg. Corp., Lynbrook, N. Y. 610,227, pub. 5-17-55. Cl. 12.  
 Animal Foods Co.: See—  
 Coan, N. C.  
 Animal Foods Co., d. b. a. Bar-None Sales Co., San Jose, Calif. 303,304, can. Cl. 46.  
 Anthracite Equipment Corp., Wilkes-Barre, Pa. 610,161, pub. 4-26-55. Cl. 1.  
 Arge, T. H., Co., Inc., Pasadena, Calif. 610,355, pub. 5-17-55. Cl. 23.  
 Argo Industries Corp., Woodside, N. Y. 610,326, pub. 5-10-55. Cl. 22.  
 Arkansas Co., Inc., Newark, N. J. 326,817, ren. 8-6-55. Cl. 6.  
 Armour and Co., Chicago, Ill. 507,147, can. Cl. 46.  
 Armstrong Cork Co., Lancaster, Pa. 610,217, pub. 5-10-55. Cl. 12.  
 Asbestolith Mfg. Corp., Brooklyn, N. Y. 608,189, cor. Cl. 12.  
 Aseptic-Thermo Indicator Co., Los Angeles, Calif. 610,371, pub. 5-10-55. Cl. 26.  
 Assembly Products, Inc., Chagrin Falls, Ohio. 610,310, pub. 5-17-55. Cl. 21.  
 Atlantic Refining Co., The, Philadelphia, Pa. 327,265, ren. 8-20-55. Cl. 15.  
 Atlas Fabrics Corp., New York, N. Y. 322,431, 12(c) pub. 8-9-55. Cl. 42.  
 Atlas Hardware Co., New York, N. Y. 610,356, pub. 5-17-55. Cl. 23.  
 Automatic Motor Base Co.: See—  
 Sloyan, Jerome J.  
 Automatic Projection Corp., New York, N. Y. 610,369, pub. 5-17-55. Cl. 26.  
 Avochem, Inc., Richfield, Minn. 610,184, pub. 5-10-55. Cl. 6.  
 Badger Plug Co., Appleton, Wis. 507,313, can. Cl. 2.  
 Banks, Stanley F., to Peerless Camera Stores, Inc., New York, N. Y. 610,373, pub. 5-10-55. Cl. 26.  
 Barclay Tissue Corp., Woodside, N. Y. 610,421, pub. 4-26-55. Cl. 37.  
 Bares, Bertha, Oakville, Conn. 610,481, pub. 5-10-55. Cl. 46.  
 Bar-None Sales Co.: See—  
 Animal Foods Co.  
 Barreca Products Co. Inc., New York, N. Y. 610,327, pub. 5-10-55. Cl. 22.  
 Barron Chemical Products Co.: See—  
 Barron, Edward T.  
 Barron, Edward T., d. b. a. Barron Chemical Products Co., Minneapolis, Minn. 386,489, can. Cl. 6.  
 Bartelme, Jean: See—  
 Thompson, Jean B.  
 Bartmann & Bixer, Inc., New York, N. Y. 507,259, can. Cl. 42.  
 Bates, C. J., & Son: See—  
 Bates, Hamilton C.  
 Bates, Hamilton C., d. b. a. C. J. Bates & Son, to C. J. Bates & Son, Chester, Conn. 325,899, ren. 7-9-55. Cl. 44.  
 Battle Creek Packaging Machines, Inc., Battle Creek, Mich. 610,359, pub. 5-17-55. Cl. 23.  
 Bauer, Arthur, Co., Inc., New York, N. Y. 507,280, can. Cl. 27.  
 Baumritter, T., Co., Inc., New York, N. Y. 610,397, pub. 4-26-55. Cl. 32.  
 Bear Mill Mfg. Co., Inc., New York, N. Y. 226,133, can. Cl. 42.  
 Beasley-Balley Poultry Co., Inc., Athens, Ala. 610,474, pub. 6-30-53. Cl. 46.  
 Beaurain, René J. P., Bologne-Sur-Mer (Pas-De-Calais), France. 601,920, cor. Cl. 46.  
 Beautymasters of Beverly Hills, Inc., Milwaukee, Wis. 507,333, can. Cl. 6.  
 Beck, Koller & Co., Inc., to Reichhold Chemicals, Inc., Detroit, Mich. 324,190, ren. 5-14-55. Cl. 16.  
 Beck, Koller & Co., Inc., to Reichhold Chemicals, Inc., Detroit, Mich. 324,454, ren. 5-21-55. Cl. 6.  
 Beecham (Northern Ltd.): See—  
 Phensic Ltd.  
 Bella Products Co., Inc., Somerville, Mass. 610,491, pub. 5-10-55. Cl. 46.  
 Belter, G. J., Electric Mfg. Co., The: See—  
 Belter, George J.  
 Belter, George J., d. b. a. The G. J. Belter Electric Mfg. Co., St. Louis, Mo. 507,315, can. Cl. 34.  
 Bemis Bro. Bag Co., St. Louis, Mo. 610,166, pub. 5-10-55. Cl. 2.  
 Benrose Fabrics Corp., New York, N. Y. 507,205, can. Cl. 42.  
 Berndt-Bach, Inc., Los Angeles, Calif. 610,372, pub. 5-17-55. Cl. 26.  
 Bicocchi, Louis, d. b. a. Green Head Duck Call Co., La Salle, Ill. 610,339, pub. 5-10-55. Cl. 22.  
 Big Chief Medicine Co.: See—  
 Scruggs, Barney T.  
 Bissell Carpet Sweeper Co., Grand Rapids, Mich. 329,120, ren. 10-15-55. Cl. 23.  
 Blubaugh, R. B., d. b. a. Blubaugh Retail Bakeries, Charleston, W. Va. 610,476, pub. 9-21-54. Cl. 46.  
 Blubaugh Retail Bakeries: See—  
 Blubaugh, R. B.  
 Bonney Forge & Tool Works: See—  
 Bonney Vise & Tool Works, Inc.  
 Bonney Vise & Tool Works, Inc., Philadelphia, Pa., New York, N. Y., and Allentown, Pa., to Bonney Forge & Tool Works, Allentown, Pa. 106,400, ren. 10-19-55. Cl. 23.  
 Borden Co., The: See—  
 Farmstead, Inc.  
 Bowman Gum, Inc., Philadelphia, Pa., now by change of name  
 Connelly Containers, Inc. 610,473, pub. 5-3-55. Cl. 46.  
 Bownes, Frank, Co., to The Modene Paint Co., Inc., Chelsea, Mass. 324,501, ren. 5-21-55. Cl. 16.  
 Bowser, Inc., Fort Wayne, Ind. 610,350, pub. 5-17-55. Cl. 23.  
 Braun, E., & Co., Inc., New York, N. Y. 610,470, pub. 5-3-55. Cl. 42.  
 Breon, George A., & Co., New York, N. Y. 610,279, pub. 5-10-55. Cl. 18.  
 Bride's Dutch Uncle, Inc., The, Boston, Mass. 610,430, pub. 5-10-55. Cl. 38.  
 Brown-Forman Distillers Corp., Louisville, Ky. 610,193, pub. 5-10-55. Cl. 6.  
 Buckeye Traction Ditcher Co., The, Findlay, Ohio. 360,534, can. Cl. 23.  
 Buckeye Traction Ditcher Co., The, Findlay, Ohio. 369,402, can. Cl. 23.  
 Bulldog Electric Products Co., Detroit, Mich. 610,311, pub. 5-10-55. Cl. 21.  
 Burgoyne, Sidney J., & Sons, Inc., Philadelphia, Pa. 610,425, pub. 5-3-55. Cl. 37.  
 Burlington Industries, Inc.: See—  
 Mallinson, H. R., & Co.  
 Butler Mfg. Co., Kansas City, Mo. 610,168, pub. 5-10-55. Cl. 2.  
 Calumet Refining Co., Chicago, Ill. 292,337, can. Cl. 15.  
 Campe Corp., The, New York, N. Y. 220,999, can. Cl. 39.  
 Canadian Mill & Elevator Co., to Oklahoma Flour Mills Co., El Reno, Okla. 106,942, ren. 11-9-55. Cl. 46.  
 Candle Vase, Inc., Detroit, Mich. 610,165, pub. 5-17-55. Cl. 2.  
 Carls-Art, Inc., Brooklyn, N. Y. 610,169, pub. 5-17-55. Cl. 2.  
 Carlson, A. B., & Co., Inc., Aurora, Ill. 610,385, pub. 5-17-55. Cl. 26.  
 Carmi-Ainsbrooke Corp., New York, N. Y. 610,442, pub. 7-6-54. Cl. 39.  
 Carpenter Paper Co., Omaha, Nebr. 610,418, pub. 4-19-55. Cl. 37.



## LIST OF REGISTRANTS OF TRADEMARKS

Carter Medicine Co., to Carter Products, Inc., New York, N. Y. 324,812, ren. 6-4-55. Cl. 18.  
 Carter Medicine Co., to Carter Products, Inc., New York, N. Y. 325,251, ren. 6-18-55. Cl. 18.  
 Carter Products, Inc.: See—  
 Carter Medicine Co.  
 Cat Cay Realty Co., Ltd., The, Nassau, Island of New Providence, Bahamas Islands, 610,411, pub. 4-26-55. Cl. 37.  
 Corloux Corp., The, Chicago, Ill. 402,890, can. Cl. 12.  
 Corvical Hygiene, Inc., New York, N. Y. 507,318, can. Cl. 29.  
 Chamberlin Co. of America, Detroit, Mich. 610,232, pub. 5-3-55. Cl. 12.  
 Cheryl Chase: See—  
 Talmage, Maurice M.  
 Chicago Condenser Corp., Chicago, Ill. 610,304, pub. 5-3-55. Cl. 21.  
 Chicago Pharmacal Co., Chicago, Ill. 610,283, pub. 5-17-55. Cl. 18.  
 Chickasha Milling Co., Chickasha, Okla. 507,327, can. Cl. 46.  
 Ciba Ltd., Basel, Switzerland. 610,280, pub. 5-10-55. Cl. 18.  
 Clean Home Products, Inc., Chicago, Ill. 610,387, pub. 8-19-52. Cl. 29.  
 Clements, MacMillan, Bethel, Conn. 610,210, pub. 5-17-55. Cl. 12.  
 Cleo Beauty Products Co., Boston, Mass. 610,502, pub. 9-21-54. Cl. 52.  
 Cleveland Twist Drill Co., The, Cleveland, Ohio. 324,847, ren. 6-4-55. Cl. 14.  
 Cleveland Twist Drill Co., The, Cleveland, Ohio. 325,757, ren. 7-2-55. Cl. 23.  
 Clevite Corp., Cleveland, Ohio. 610,306, pub. 5-3-55. Cl. 21.  
 Clover Farm Stores: See—  
 Grocers & Producers Co., The.  
 Coan, N. C., d. b. a. Animal Foods Co., San Jose, Calif. 296,831, can. Cl. 46.  
 Coffette Products, Inc., Brooklyn, N. Y. 507,306, can. Cl. 6.  
 Cohen, Isador H.: See—  
 Mandel & Cohen.  
 Color Corp. of America, Tampa, Fla. 610,429, pub. 5-10-55. Cl. 38.  
 Color-Vu Products Corp., New York, N. Y. 610,417, pub. 4-10-55. Cl. 37.  
 Columbia Axle Co., The, Cleveland, Ohio. 390,783, can. Cl. 23.  
 Columbia Ribbon & Carbon Mfg. Co., Inc., Glen Cove, N. Y. 610,205, pub. 5-3-55. Cl. 11.  
 Commercial Solvents Corp., Terre Haute, Ind. 328,352, ren. 7-23-55. Cl. 49.  
 Compania De Jarcla De Matanzas S. A.: See—  
 Raffloer, Erbsloh and Co.  
 Compass Instrument & Optical Co., Inc., New York, N. Y. 610,378, pub. 3-15-55. Cl. 26.  
 Comstock, W. H., Co. Ltd., The, Morristown, N. Y. 106,220, ren. 10-19-55. Cl. 18.  
 Connelly Containers, Inc.: See—  
 Bowman Gum, Inc.  
 Continental Elastic Corp., The, New Bedford, Mass. 610,463, pub. 5-10-55. Cl. 40.  
 Continental Rubber Works, Erie, Pa. 106,841, ren. 11-2-55. Cl. 35.  
 Cook Electric Co., Chicago, Ill. 610,238, pub. 8-17-54. Cl. 13.  
 Cook Electric Co., Chicago, Ill. 610,302, pub. 5-3-55. Cl. 21.  
 Cooper Mfg. Co., Marshalltown, Iowa. 610,343, pub. 5-17-55. Cl. 23.  
 Copar, Inc., College Park, Md. 610,364, pub. 5-17-55. Cl. 23.  
 Corley, Clifton, d. b. a. Marietta Mills, New York, N. Y. 507,223, can. Cl. 50.  
 Coughlan, G. N., Co., West Orange, N. J. 610,175, pub. 5-10-55. Cl. 4.  
 Crescent Watch Case Co., The, New York, N. Y. 46,756, can. Cl. 27.  
 Crocker, Burbank Papers Inc., Fitchburg, Mass. 610,420, pub. 4-26-55. Cl. 37.  
 Croton Industries Corp., New York, N. Y. 610,503, pub. 5-10-55. Cl. 52.  
 Crotty Corp., Quincy, Mich. 610,288-9, pub. 5-17-55. Cl. 19.  
 Crotty Corp., Quincy, Mich. 610,357, pub. 5-17-55. Cl. 23.  
 Crotty Corp., Quincy, Mich. 610,408, pub. 5-17-55. Cl. 35.  
 Crystal Canning Co., Traverse City, Mich. 610,482, pub. 5-10-55. Cl. 46.  
 Curtis, Davis & Co., Boston, Mass., to Lever Brothers Co., New York, N. Y. 12,270, ren. 6-2-55. Cl. 52.  
 Curtis 1000 Inc., Hartford, Conn. 435,286, can. Cl. 37.  
 Curtiss-Wright Corp., Christstad, N. J. 610,366, pub. 5-11-55. Cl. 23.  
 Davey Co., The, Jersey City, N. J. 610,413, pub. 4-12-55. Cl. 37.  
 Davidson Chemical Corp., The, New York, N. Y., now by merger W. R. Grace & Co. 606,575, cor. Cl. 10.  
 Day-Brite Lighting, Inc.: See—  
 Day-Brite Reflector Co.  
 Day-Brite Reflector Co., to Day-Brite Lighting, Inc., St. Louis, Mo. 329,650, ren. 11-5-55. Cl. 21.  
 Dayton Rubber Co., The, Dayton, Ohio. 610,409, pub. 5-3-55. Cl. 35.  
 Defiance Dairy Products Co., The, Defiance, Ohio. 187,904, can. Cl. 46.  
 Defiance Dairy Products Co., The, Defiance, Ohio. 201,332, can. Cl. 46.  
 Delpark, Inc., New York, N. Y. 113,358, can. Cl. 39.  
 Dempster Mill Mfg. Co., Beatrice, Nebr. 610,365, pub. 5-17-55. Cl. 23.  
 Devon Products Co.: See—  
 Kazanjian, Charles G.  
 Diamond Alkali Co., Cleveland, Ohio. 610,185, pub. 5-3-55. Cl. 6.  
 Donovan, F. C., Inc., Boston, Mass. 328,071, ren. 9-17-55. Cl. 1.  
 Donovan, F. C., Inc., Boston, Mass. 328,614-15, ren. 10-1-55. Cl. 1.  
 Donovan Industries, Inc., New York, N. Y. 610,162, pub. 5-10-55. Cl. 1.  
 Dresner, S., & Son, Inc., Chicago, Ill. 332,233, can. Cl. 3.  
 Dregner, S., & Son, Inc., Chicago, Ill. 377,178, can. Cl. 3.  
 Dupli-Color Products Co., Inc., Chicago, Ill. 610,388, pub. 5-3-55. Cl. 29.  
 Du Pont, E. I., de Nemours and Co., Wilmington, Del. 322,957, 12(c) pub. 8-9-55. Cl. 6.  
 Durable Canvas Products Co.: See—  
 Lovico, Salvatore A.  
 Duraflex Co., The, Miami, Fla. 610,231, pub. 5-17-55. Cl. 12.  
 Durkee Famous Foods: See—  
 Glidden Co., The.  
 Dutcheas Underwear Corp., New York, N. Y. 353,808, can. Cl. 39.  
 Dutcheas Underwear Corp., New York, N. Y. 355,616, can. Cl. 39.  
 Dutcheas Underwear Corp., New York, N. Y. 362,337, can. Cl. 39.  
 Dutcheas Underwear Corp., New York, N. Y. 381,730, can. Cl. 39.  
 Dutcheas Underwear Corp., New York, N. Y. 384,457, can. Cl. 39.  
 Dutcheas Underwear Corp., New York, N. Y. 391,859, can. Cl. 39.  
 EFCO Corp., St. Louis, Mo. 610,220, pub. 5-3-55. Cl. 12.  
 Earl & Arlington, Inc., San Francisco, Calif. 610,324, pub. 5-10-55. Cl. 22.  
 East Coast Soap Corp., Brooklyn, N. Y. 610,504, pub. 5-17-55. Cl. 52.  
 East-Side Winery, Lodi, Calif. 379,894, can. Cl. 47.  
 Electronic Devices, Inc., Brooklyn, N. Y. 610,297, pub. 5-10-55. Cl. 21.  
 Electronic Tube Corp., Wyndmoor, Pa. 610,367, pub. 9-15-53. Cl. 26.  
 Elguanite Corp.: See—  
 Naugle, John J.  
 Ellery Products Mfg. Co. Inc., New York, N. Y. 391,359, can. Cl. 42.  
 Ellmore Silver Co., Inc., The, Meriden, Conn. 507,331, can. Cl. 28.  
 Embassy Auto Seat Cover Co., Valley Stream, N. Y. 610,287, pub. 5-17-55. Cl. 19.  
 Emerson Shoe Mfg. Co., Rockland, Mass. 221,158, can. Cl. 39.  
 Ende-Reinzerling Toy Co., Levittown, N. Y. 610,325, pub. 5-10-55. Cl. 22.  
 Enterprise Wire Co., Blue Island, Ill. 610,241, pub. 4-26-55. Cl. 13.  
 Eppinger, Lou J., Mfg. Co., Detroit, Mich. 610,315, pub. 5-10-55. Cl. 22.  
 Ernecke & Salmsteln Co., Chicago, Ill. 610,265, pub. 5-17-55. Cl. 16.  
 Evert Logging Co.: See—  
 American Logging Tool Co.  
 Even-Pul Foundations, Inc., New York, N. Y. 507,268, can. Cl. 39.  
 Even-Pul Foundations, Inc., New York, N. Y. 610,447, pub. 5-3-55. Cl. 39.  
 Excel Body Corp., Durant, Okla. 610,290, pub. 5-17-55. Cl. 19.  
 Exhibit Supply Co., Chicago, Ill. 507,320-1, can. Cl. 22.  
 Exhibitor, The, Philadelphia, Pa. 218,624, can. Cl. 38.  
 Fabicon Products, Inc., River Rouge, Mich. 610,412, pub. 4-28-55. Cl. 37.  
 Fagergren, Aaron H., d. b. a. Skookum Craft Products, Shelton, Wash. 607,241, cor. Cl. 22.  
 Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. 610,164, pub. 4-5-55. Cl. 1.  
 Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. 610,189, pub. 5-3-55. Cl. 6.  
 Farm Bureau Life Insurance Co., The, Columbus, Ohio. 610,414, pub. 4-19-55. Cl. 37.  
 Farmers' Museum, Inc., The, Cooperstown, N. Y. 507,182, can. Cl. 50.  
 Farmers Tool and Equipment Co., Emeryville, Calif. 610,341, pub. 5-17-55. Cl. 23.  
 Farmstead, Inc., to The Borden Co., New York, N. Y. 324,921-2, ren. 6-4-55. Cl. 46.  
 Faultless Rubber Co., The, Ashland, Ohio. 328,476, ren. 10-1-55. Cl. 44.  
 Faultless Starch Co., Kansas City, Mo. 610,105, pub. 5-17-55. Cl. 6.  
 Feldt Mfg. Co., Inc., Temple, Tex. 610,163, pub. 5-10-55. Cl. 1.  
 Fernando Canning Co.: See—  
 Fernando Canning Co., Inc.  
 Fernando Canning Co., Inc., d. b. a. Fernando Canning Co., San Fernando, Calif. 610,489, pub. 5-10-55. Cl. 46.  
 Fighting Fish Products, Cohocton, N. Y. 610,335, pub. 5-10-55. Cl. 22.  
 Finishline Laboratories, Inc., Syracuse, N. Y. 610,257, pub. 5-10-55. Cl. 16.  
 Firma C. Conradty, Nurnberg, Germany. 610,208, pub. 5-10-55. Cl. 21.  
 Flits Cotton Goods Co., Atlanta, Ga. 434,363, can. Cl. 39.  
 Fletcher Mfg. Co., Providence, R. I. 49,187, can. Cl. 40.  
 Flint, Frank C., d. b. a. Knit Goods Specialty Co., Chicopee Falls, Mass. 248,103, can. Cl. 2.  
 Ford Aircraft Co.: See—  
 Ford, Charles G.  
 Ford, Charles G., d. b. a. Ford Aircraft Co., Dallas, Tex. 610,331, pub. 5-10-55. Cl. 22.  
 Forster Mfg. Co., Inc., The, Strong and Farmington, Maine. 434,869, can. Cl. 44.  
 Fort Howard Paper Co., Green Bay, Wis. 610,423, pub. 5-3-55. Cl. 37.  
 Franklin Rayon Corp., Providence, R. I. 330,904, can. Cl. 43.

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Freddy's Lefse, Inc., North Fargo, N. Dak. 610,487, pub. 5-3-55. Cl. 46.  
 Friedman, J., & Co., New York, N. Y. 346,594, can. Cl. 39.  
 GBH-Way Homes, Inc., Walnut, Ill. 610,212, pub. 5-3-55. Cl. 12.  
 Garlock Packing Co., The, Palmyra, N. Y. 610,403, pub. 5-17-55. Cl. 35.  
 Garutso, Stephen E., Hollywood, Calif. 610,381, pub. 5-10-55. Cl. 26.  
 General Industries Co., The, Elyria, Ohio. 233,202, can. Cl. 23.  
 General Plywood Corp., Louisville, Ky. 610,208, pub. 5-17-55. Cl. 12.  
 General Radiator, Inc., Mount Vernon, Ill. 610,291, pub. 5-17-55. Cl. 19.  
 General Shoe Corp.: See—  
 Miller, I., and Sons Inc.  
 General Time Corp.: See—  
 Western Clock Co.  
 General Tire & Rubber Co., The, Akron, Ohio. 610,190, pub. 5-10-55. Cl. 9.  
 Gilbey, W. & A. Ltd.: See—  
 Williams, R. C. & Co., Inc.  
 Ginasta Corp. of America, New York, N. Y. 610,338, pub. 5-10-55. Cl. 22.  
 Gladding, McLean & Co., Los Angeles, Calif. 325,050, ren. 6-11-55. Cl. 12.  
 Gladstone Case Mfg. Co., Inc., Chicago, Ill. 414,902, can. Cl. 3.  
 Gladstone Case Mfg. Co., Inc., Chicago, Ill. 414,904-7, can. Cl. 3.  
 Gladstone Case Mfg. Co., Inc., Chicago, Ill. 414,910, can. Cl. 3.  
 Glidden Co., The, d. b. a. Durkee Famous Foods, Cleveland, Ohio. 610,477, pub. 4-13-54. Cl. 46.  
 Gorton, George, Machine Co., Racine, Wis. 610,352, pub. 5-17-55. Cl. 23.  
 Gorton-Pew Fisheries Co., Ltd., Gloucester, Mass. 232,076, can. Cl. 46.  
 Gorton-Pew Fisheries Co., Ltd., Gloucester, Mass. 232,072-3, can. Cl. 46.  
 Gorton-Pew Fisheries Co., Ltd., Gloucester, Mass. 232,895, can. Cl. 46.  
 Gould, Barbara, Inc.: See—  
 Woodworth, C. B., Sons Co.  
 Grace, W. R., & Co.: See—  
 Davidson Chemical Corp., The.  
 Graham Paper Co., St. Louis, Mo. 610,422, pub. 4-26-55. Cl. 37.  
 Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. 610,173, pub. 4-15-54. Cl. 3.  
 Grand Union Co., The, East Paterson, N. J. 326,203, ren. 7-18-55. Cl. 40.  
 Granite City Steel Co., Granite City, Ill. 610,219, pub. 5-3-55. Cl. 12.  
 Greenberger, Eva K., New York, N. Y. 340,338, can. Cl. 39.  
 Greene Dental Products, Hollywood, Calif. 610,374, pub. 3-15-55. Cl. 26.  
 Green Head Duck Call Co.: See—  
 Bicoch, Louis.  
 Greenpoint Casket Co., Brooklyn, N. Y. 610,171, pub. 5-10-55. Cl. 32.  
 Gregg Mfg. Co., The, Fredericktown, Ohio. 329,221, ren. 10-22-55. Cl. 21.  
 Greve, Andrew M., San Mateo, Calif. 610,379, pub. 5-3-55. Cl. 26.  
 Grocers & Producers Co., The, d. b. a. Clover Farm Stores, Cleveland, Ohio. 296,278, can. Cl. 35.  
 Grossman, Julius, Inc., Brooklyn, N. Y. 507,159, can. Cl. 39.  
 Gulf States Paper Corp., Tusculooa, Ala. 610,426, pub. 5-3-55. Cl. 37.  
 Gustin-Racon Mfg. Co., Kansas City, Mo. 610,214, pub. 5-3-55. Cl. 12.  
 Haase, Wilbert W., Co., Broadview, Ill. 610,183, pub. 5-10-55. Cl. 6.  
 Hamilton Metal Products Co., The, Hamilton, Ohio. 610,167, pub. 5-17-55. Cl. 2.  
 Hammerin' Hank Woodcrafters: See—  
 Maginley, Clare J.  
 Hammermill Paper Co., Erie, Pa. 328,026, ren. 9-10-55. Cl. 37.  
 Hampton Paint Mfg. Co.: See—  
 Lieberman, Arthur R.  
 Hansen Glove Corp., Milwaukee, Wis. 610,459-60, pub. 5-10-55. Cl. 39.  
 Harmon, F. S., Mfg. Co., Tacoma, Wash. 610,400, pub. 5-10-55. Cl. 32.  
 Harrington & Richardson Arms Co., Worcester, Mass. 421,714, can. Cl. 9.  
 Harrington and Richardson Arms Co., Worcester, Mass. 66,950, can. Cl. 9.  
 Hart Metal Products Corp., Elkhart, Ind. 610,510, Cl. 2.  
 Hartmann, Le Doux and Macker, to Red Hand Compositions Co., Inc., New York, N. Y. 12,336, ren. 6-23-55. Cl. 16.  
 Hausman, M., & Sons, Inc., New York, N. Y. 610,465, pub. 5-3-55. Cl. 42.  
 Health-O-Swim Nose Clip Co.: See—  
 Mezz, Ruth I.  
 Hearst Publishing Co., Inc., New York, N. Y. 610,435, pub. 5-10-55. Cl. 38.  
 Hecht Co., The: See—  
 Hub, The.  
 Hego Fabrics, Inc., New York, N. Y. 507,275, can. Cl. 42.  
 Heinz, Edward N., Sr., Oak Park, Ill. 610,377, pub. 5-10-55. Cl. 26.  
 Hemet Mutual Groves, Hemet, Calif. 507,123, can. Cl. 46.  
 Henkel & Cie. Gesellschaft mit Beschränkter Haftung, Dusseldorf-Holthausen, Germany. 323,659, ren. 4-23-55. Cl. 52.  
 Hercules Powder Co., Wilmington, Del. 325,488, 12(c) pub. 8-9-55. Cl. 9.  
 Hickey-Freeman Co., Rochester, N. Y. 507,228, can. Cl. 39.  
 Hills Brothers Co., The, New York, N. Y. 104,536-7, ren. 6-1-55. Cl. 46.  
 Hills Brothers Co., The, New York, N. Y. 106,768, ren. 10-26-55. Cl. 46.  
 Hines-Park Foods, Inc., Ithaca, N. Y. 610,472, pub. 5-10-55. Cl. 46.  
 Hobart Mfg. Co., The, Troy, Ohio. 610,242, pub. 4-26-55. Cl. 13.  
 Hoffman, A. H., Inc., Landisville, Pa. 610,203, pub. 5-10-55. Cl. 10.  
 Hollup Corp., to National Cylinder Gas Co., Chicago, Ill. 325,281, ren. 6-18-55. Cl. 14.  
 Hollywood Candy Co.: See—  
 Martocchio, E. A. Co.  
 Hope, Inc., to Whitehall Pharmacal Co., New York, N. Y. 320,226, ren. 10-22-55. Cl. 51.  
 House of Kraus, The, Pittsburgh, Pa. 313,766, can. Cl. 28.  
 Hub, The, also d. b. a. The Hecht Co., Baltimore, Md. 206,578, can. Cl. 39.  
 Hudson Bay Division: See—  
 Refrigeration Systems, Inc.  
 Hudson Products: See—  
 Wernet Dental Mfg. Co., Inc.  
 Hunter Baltimore Rye Distillery, Inc., Baltimore, Md., to Hunter-Wilson Distilling Co., Inc., Bristol, Pa. 329,247, ren. 10-22-55. Cl. 49.  
 Hunter Fan and Ventilating Co., Memphis, Tenn. 610,307, pub. 5-10-55. Cl. 21.  
 Hunter Spring Co., Landsdale, Pa. 610,239, pub. 12-21-54. Cl. 13.  
 Hunter-Wilson Distilling Co., Inc.: See—  
 Hunter Baltimore Rye Distillery, Inc.  
 Illinois Watch Case Co., Elgin, Ill. 507,266, can. Cl. 27.  
 Instruments, Inc., Tulsa, Okla. 610,370, pub. 5-10-55. Cl. 26.  
 Insular Trading Co., Inc., San Juan, Puerto Rico. 610,500, pub. 5-10-55. Cl. 51.  
 International Bedding Co., The, Baltimore, Md. 610,398, pub. 5-10-55. Cl. 32.  
 International Braid Co., Providence, R. I. 133,706, can. Cl. 40.  
 International Braid Co., Providence, R. I. 157,689, can. Cl. 40.  
 International Braid Co., Providence, R. I. 188,605, can. Cl. 40.  
 International Braid Co., Providence, R. I. 188,847, can. Cl. 40.  
 International Braid Co., Providence, R. I. 188,850, can. Cl. 40.  
 International Braid Co., Providence, R. I. 198,300, can. Cl. 40.  
 International Braid Co., Providence, R. I. 198,348, can. Cl. 40.  
 International Braid Co., Providence, R. I. 360,140, can. Cl. 40.  
 International Braid Co., Providence, R. I. 383,226, can. Cl. 40.  
 International Braid Co., Providence, R. I. 388,694, can. Cl. 40.  
 International Braid Co., Providence, R. I. 390,805, can. Cl. 40.  
 International Braid Co., Providence, R. I. 412,139, can. Cl. 40.  
 International Explosives Corp., Reno, Nev. 433,815, can. Cl. 9.  
 International Nickel Co., Inc., The, New York, N. Y. 610,248-9, pub. 5-10-55. Cl. 14.  
 International Paper Co.: See—  
 Southern Kraft Corp.  
 Interstate Household Maintenance, Inc.: See—  
 Lattner, Muriel I.  
 Interstate Laboratories: See—  
 Lattner, Muriel I.  
 Irvington Varnish & Insulator Co., Irvington, N. J. 119,542, can. Cl. 21.  
 Ivins, J. S., Son, Inc., Philadelphia, Pa. 182,040, can. Cl. 46.  
 Jaffee, Cotton Products Mfg. Co., Inc., Dallas, Tex. 610,202, pub. 4-19-55. Cl. 10.  
 Jane-Art Inc., Elmhurst, N. Y. 610,158, pub. 4-19-55. Cl. 1.  
 January and Wood Co., Maysville, Ky. 436,066-7, can. Cl. 43.  
 Jewell, J. D., Inc., Gainesville, Ga. 610,270, pub. 5-10-55. Cl. 18.  
 Johnston Pharmaceutical Distributors, Inc., Los Angeles, Calif. 610,276, pub. 5-10-55. Cl. 18.  
 Jo-N-Art Co., Inc., San Francisco, Calif. 507,247, can. Cl. 39.  
 Judy Co., The, Minneapolis, Minn. 610,323, pub. 5-10-55. Cl. 22.  
 K-K Shoe Co., Corry, Pa. 121,451, can. Cl. 39.  
 Kansas Paint & Color Co., The, Wichita, Kans. 610,268, pub. 5-17-55. Cl. 10.  
 Kautenberg, W. E., Co., Freeport, Ill. 610,390-1, pub. 5-10-55. Cl. 29.  
 Kay Electric Co., Pine Brook, N. J., to Kay Electric Co. 610,368, pub. 5-10-55. Cl. 26.  
 Kazanjian, Charles G., d. b. a. Devon Products Co., Philadelphia, Pa. 433,806, can. Cl. 6.  
 Kenmar Mfg. Co., The, East Palestine, Ohio. 421,855, can. Cl. 32.  
 Kentucky Flooring Co. of Virginia, Inc., Orange, Va. 610,234, pub. 5-17-55. Cl. 12.  
 Kesterman Bros. Mfg. Co., Providence, R. I. 223,260, can. Cl. 28.



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Keystone Watch Case Co., The, Philadelphia, Pa. 86,412, can. Cl. 27.  
 Keystone Watch Case Co., The, Philadelphia, Pa. 200,376, can. Cl. 27.  
 King Morpheus Products: See—  
 Sobel, Henry.  
 Knit Goods Specialty Co.: See—  
 Flint, Frank C.  
 Kongo Chemical Co., Inc.: See—  
 Kongo Products Co.  
 Kongo Products Co., Pittsburgh, Pa., to Kongo Chemical Co., Inc., New York, N. Y. 105,486, ren. 7-27-55. Cl. 51.  
 Kroger Co., The, Cincinnati, Ohio. 610,486, pub. 5-10-55. Cl. 46.  
 Kubel, J. Co.: See—  
 Kubel, Jack.  
 Kubel, Jack, d. b. a. Kubel Co., Omaha, Nebr. 610,273, pub. 5-10-55. Cl. 18.  
 Kupferle, John C., Foundry Co., St. Louis, Mo. 610,247, pub. 4-26-55. Cl. 13.  
 Landis Machine Co., Wayneboro, Pa. 610,360, pub. 5-17-55. Cl. 23.  
 Lattner, Muriel I., d. b. a. Interstate Laboratories, to Interstate Household Maintenance, Inc., Detroit, Mich. 324,761, ren. 5-28-55. Cl. 52.  
 Laucks, I. F., Inc., Seattle, Wash., to Monsanto Chemical Co., St. Louis, Mo. 323,308, ren. 4-9-55. Cl. 16.  
 Lawn Supply Co., Birmingham, Ala. 610,347, pub. 5-17-55. Cl. 23.  
 Lawrence Tackle Mfg. Co.: See—  
 Rubin, Herbert.  
 Leatherkraft, Inc., Minneapolis, Minn. 507,157, can. Cl. 39.  
 Lennemann, Leona M., Washington, D. C. 610,375, pub. 5-17-55. Cl. 26.  
 Lever Brothers Co.: See—  
 Curtis, Davis & Co.  
 Levy, Myron B., Co., Inc., New York, N. Y. 507,241, can. Cl. 42.  
 Leybro Mfg. Co., Inc., New York, N. Y. 507,276, can. Cl. 39.  
 Lieberman, Arthur R., d. b. a. Hampton Paint Mfg. Co., Hampton, Va. 610,260, pub. 5-17-55. Cl. 16.  
 Lilly, Ell, and Co.: See—  
 Lilly, Ell, and Co., The.  
 Lilly, Ell, and Co., The, to Ell Lilly and Co., Indianapolis, Ind. 106,982, ren. 11-9-55. Cl. 18.  
 Linen Guild, Inc., New York, N. Y. 610,460, pub. 5-3-55. Cl. 42.  
 Locatelli, Ercole H., d. b. a. Mattia Locatelli, New York, N. Y. 255,164, can. Cl. 46.  
 Locatelli, Mattia: See—  
 Locatelli, Ercole H.  
 London & Co., Inc., Elizabeth, N. J. 325,784, ren. 7-2-55. Cl. 49.  
 Loomtogs, Inc., New York, N. Y. 610,448, pub. 5-10-55. Cl. 39.  
 Lovable Brassiere Co., The, Atlanta, Ga. 610,451-4, pub. 5-10-55. Cl. 39.  
 Lovico, Salvatore A., d. b. a. Durable Canvas Products Co., Brooklyn, N. Y. 610,329, pub. 5-10-55. Cl. 22.  
 Lucky Bunny Bait Co., Chicago, Ill. 610,318, pub. 5-10-55. Cl. 22.  
 M. K. M. Hosiery Mills, Inc., Jamaica Plain, Boston, Mass. 610,440, pub. 5-3-55. Cl. 39.  
 MacAndrews and Forbes Co., Camden, N. J., and New York, N. Y., by American-LaFrance-Foamite Corp., Elmira, N. Y. 103,786, 12(c) pub. 8-9-55. Cl. 6.  
 Mac's MS Plus, Inc.: See—  
 Mac's Super Gloss Co.  
 Mac's Super Gloss Co., to Mac's MS Plus, Inc., Los Angeles, Calif. 610,506, pub. 5-17-55. Cl. 52.  
 Maginley, Clare J., d. b. a. Hammerin' Hank Woodcrafters, Danbury, Conn. 610,333, pub. 5-10-55. Cl. 22.  
 Maiden Form Brassiere Co., Inc., New York, N. Y. 322,314, ren. 3-5-55. Cl. 39.  
 Mail-Well Envelope Co. of Texas, Houston, Tex. 610,419, pub. 4-19-55. Cl. 37.  
 Mallinson, H. R., & Co., New York, N. Y., to Burlington Industries, Inc., Greensboro, N. C. 106,642-3, ren. 10-26-55. Cl. 42.  
 Mandel, Cohen, to Isador H. Cohen, New York, N. Y. 324,207, ren. 5-14-55. Cl. 39.  
 Many, Blanc & Co., Inc., Chicago, Ill., to Schenley Industries, Inc., New York, N. Y. 327,219, ren. 8-20-55. Cl. 49.  
 Marasco Shoe Machinery Corp., Lynn, Mass. 610,180, pub. 5-10-55. Cl. 5.  
 Marietta Mills: See—  
 Corley, Clifton.  
 Marley, Geo. J., to Marley Orchards, Inc., Yakima, Wash. 329,847, ren. 11-12-55. Cl. 46.  
 Marley Orchards, Inc.: See—  
 Marley, Geo. J.  
 Marshall Field & Co., Chicago, Ill. 392,844, can. Cl. 42.  
 Martin, Rodman H., Co., Inc., Philadelphia, Pa. 610,215-16, pub. 5-10-55. Cl. 12.  
 Martinson, Uriel F., d. b. a. Tetra-Life Products, Tarzana, Calif. 610,204, pub. 5-10-55. Cl. 10.  
 Martocchio, F. A., Co., d. b. a. Hollywood Candy Co., Minneapolis, Minn. 274,579, can. Cl. 46.  
 Mason Envelope Co., Inc., New York, N. Y. 610,170, pub. 5-17-55. Cl. 2.  
 Master Metal Products, Inc., Buffalo, N. Y. 205,822, can. Cl. 2.  
 Master Metal Products, Inc., Buffalo, N. Y. 247,220, can. Cl. 13.  
 Master Metal Strip Service, Inc., Chicago, Ill. 610,209, pub. 5-10-55. Cl. 12.  
 Matanzas Cordage Co.: See—  
 Raffoer, Erbsloh and Co.  
 McCloskey Yarnish Co., Philadelphia, Pa. 610,264, pub. 5-17-55. Cl. 16.

McCormick, Wilfred, Albuquerque, N. Mex. 610,431, pub. 5-10-55. Cl. 38.  
 McKesson & Robbins, Inc., New York, N. Y. 328,122, ren. 8-17-55. Cl. 18.  
 Merit Packing Co., Salinas, Calif. 610,478, pub. 5-3-55. Cl. 46.  
 Metalastik Ltd., Leicester, England. 610,353, pub. 5-17-55. Cl. 23.  
 Metalcraft Engineering Co., Lincoln, Nebr. 610,223, pub. 5-3-55. Cl. 12.  
 Metallac Archery Hunting String Co.: See—  
 Smith, Arthur L.  
 Meyers, Louis, & Son, Inc., New York, N. Y. 328,909, ren. 10-8-55. Cl. 39.  
 Mezz, Ruth I., d. b. a. Health-O-Swim Nose Clip Co., Brooklyn, N. Y. 610,330, pub. 5-10-55. Cl. 22.  
 Michigan Chemical Corp., St. Louis, Mo. 610,159, pub. 4-26-55. Cl. 1.  
 Midwest Clean-It Co.: See—  
 Young, Floyd S.  
 Miller Co., The, Meriden, Conn. 610,294, pub. 5-10-55. Cl. 21.  
 Miller, I., and Sons Inc., Long Island City, N. Y., to General Shoe Corp., Nashville, Tenn. 324,142, ren. 5-14-55. Cl. 39.  
 Miller's Products, Inc., Minneapolis, Minn. 610,269, pub. 5-17-55. Cl. 16.  
 Millfold Paper Products Inc., New York, N. Y. 371,550, can. Cl. 37.  
 Minnesota Mining & Mfg. Co., St. Paul, Minn. 610,263, pub. 5-10-55. Cl. 16.  
 Mitten, Frank P., d. b. a. Mitten Mfg. Co., and as Mitten's Display Letters, Redlands, Calif. 610,181, pub. 5-10-55. Cl. 5.  
 Mitten Mfg. Co.: See—  
 Mitten, Frank P.  
 Mitten's Display Letters: See—  
 Mitten, Frank P.  
 Modene Paint Co., Inc., The: See—  
 Bownes, Frank Co.  
 Modern Building Specialties: See—  
 Stillwell, Mervin J.  
 Modern Carpet Sweeper Co., Inc., Brooklyn, N. Y. 610,362, pub. 5-17-55. Cl. 23.  
 Molyflo Corp., Bloomfield, N. J. 610,251, pub. 5-3-55. Cl. 15.  
 Monsanto Chemical Co.: See—  
 Laucks, I. F., Inc.  
 Mook Bros. Inc., New York, N. Y. 610,466-7, pub. 5-3-55. Cl. 42.  
 Mooresville Mills, Inc., Mooresville, N. C. 507,209, can. Cl. 42.  
 Morris, Norman M., New York, N. Y. 507,180, can. Cl. 27.  
 Morris, Philip, & Co. Ltd., Inc., New York, N. Y. 329,436, ren. 10-29-55. Cl. 17.  
 Murphy, Brill & Sahner, Inc., New York, N. Y. 507,171, can. Cl. 39.  
 Mystic Maid Co., Glendale, Calif. 610,501, pub. 5-10-55. Cl. 52.  
 N. Y. Betonfabriek "De Meteor," De Steeg, Community of N. Rheden, Netherlands. 610,218, pub. 5-10-55. Cl. 12.  
 Naamloze Vennootschap Kristal, Glas- en Aardewerfabrieken "de Sphinx" Voorheen Petrus Regout & Co., Maastricht, Netherlands. 610,222, pub. 5-3-55. Cl. 12.  
 Nannette Mfg. Co., to Nannette Mfg. Co., Inc., Philadelphia, Pa. 326,106, ren. 7-16-55. Cl. 39.  
 Nannette Mfg. Co., to Nannette Mfg. Co., Inc., Philadelphia, Pa. 326,721, ren. 7-30-55. Cl. 39.  
 Nannette Mfg. Co., Inc.: See—  
 Nannette Mfg. Co.  
 Narrow Fabric Co., The, Reading, Pa. 610,461, pub. 5-10-55. Cl. 40.  
 National Airlines, Inc., Miami, Fla. 507,309, can. Cl. 55.  
 National Cylinder Gas Co.: See—  
 Hollup Corp.  
 National Paper Products Co., Inc., Brockton, Mass. 507,234, can. Cl. 50.  
 National Starch Products Inc., New York, N. Y. 610,179, pub. 5-10-55. Cl. 5.  
 National Tile Co., The, Anderson, Ind. 236,144, can. Cl. 12.  
 Naugle, John J., d. b. a. John J. Naugle Laboratory, New York, N. Y., to Elquanite Corp. 428,148, can. Cl. 6.  
 Naugle, John J., Laboratory: See—  
 Naugle, John J.  
 Neajon Hosiery Co., New York, N. Y. 338,877, can. Cl. 39.  
 Neatform Co., Inc., The, New York, N. Y. 610,437, pub. 6-28-49. Cl. 39.  
 Neff, J. W., Laboratories, Inc., Easton, Pa. 610,498, pub. 5-3-55. Cl. 50.  
 New South Drug of Monroe, Louisiana, Monroe, La. 610,275, pub. 5-10-55. Cl. 18.  
 Newton Line Co., Inc., Homer, N. Y. 610,336, pub. 5-10-55. Cl. 22.  
 New York Lubricating Oil Co., New York, N. Y. 106,793, ren. 10-26-55. Cl. 15.  
 Nislet Chemicals Corp., Niagara Falls, to Union Carbide and Carbon Corp., New York, N. Y. 329,716, ren. 11-5-55. Cl. 6.  
 Niles-Bement-Pond Co., West Hartford, Conn. 610,354, pub. 5-17-55. Cl. 23.  
 Nordberg Mfg. Co., Milwaukee, Wis. 610,351, pub. 5-17-55. Cl. 23.  
 Norwich Knitting Co., Norwich, N. Y. 507,282, can. Cl. 39.  
 Noveltie Signs Animated Inc., Los Angeles, Calif. 610,309, pub. 5-17-55. Cl. 21.  
 Novelty Electric Co., Philadelphia, Pa. 610,308, pub. 5-3-55. Cl. 21.  
 Nu-Line Screw Products Co., Minneapolis, Minn. 610,376, pub. 5-10-55. Cl. 26.  
 Nutritional Concentrates, Inc., New Lexington, Ohio. 610,274, pub. 5-10-55. Cl. 18.

## LIST OF REGISTRANTS OF TRADEMARKS

Oerlikon Tool & Arms Corp. of America, Asheville, N. C. 610,313, pub. 5-10-55. Cl. 21.  
 Ohio Clay Co., The, Garfield Heights, Ohio. 610,224, pub. 5-10-55. Cl. 12.  
 Oklahoma Flour Mills Co.: See—  
 Canadian Mill & Elevator Co.  
 Old Colony Shoe Co., Brockton, Mass. 326,825, ren. 8-6-55. Cl. 39.  
 Olin Mathieson Chemical Corp., New York, N. Y. 610,271, pub. 5-17-55. Cl. 18.  
 Onelda Community Ltd., Sherrill and Onelda, N. Y., and Northampton, Mass., to Onelda Ltd., Onelda and Sherrill, N. Y. 323,628, ren. 4-28-55. Cl. 28.  
 Onelda Ltd.: See—  
 Onelda Community Ltd.  
 Onondaga Pottery Co., Syracuse, N. Y. 104,744-5, ren. 6-15-55. Cl. 30.  
 Osborne Co., The, Clifton, N. J. 610,172, pub. 5-3-55. Cl. 3.  
 Oshkosh Trucks and Luggage, Oshkosh, Wis. 428,255, can. Cl. 3.  
 Owen, R. C., Co., Gallatin, Tenn. 435,921, can. Cl. 17.  
 Owen, R. C., Co., Gallatin, Tenn. 435,923, can. Cl. 17.  
 Pacific Car and Foundry Co., Seattle, Wash. 610,286, pub. 5-17-55. Cl. 19.  
 Padlock of Texas, Dallas, Tex. 610,199, pub. 5-10-55. Cl. 6.  
 Park & Tilford Distillers Corp.: See—  
 Park & Tilford Distillers, Inc.  
 Park & Tilford Distillers, Inc., to Park & Tilford Distillers Corp., New York, N. Y. 329,608, ren. 11-5-55. Cl. 49.  
 Patten, L. L., d. b. a. The Patten Seed Co., Lakeland, Ga. 610,160, pub. 4-19-55. Cl. 1.  
 Patten Seed Co., The: See—  
 Patten, L. L.  
 Paxton, Frank, Lumber Co., Kansas City, Mo. 610,494, pub. 4-19-55. Cl. 50.  
 Pearson, Andrew R., and Robert S. Allen, Washington, D. C. 610,432-3, pub. 5-10-55. Cl. 38.  
 Peco Mfg. Co., The, Bridgeport, Conn. 610,200, pub. 5-10-55. Cl. 8.  
 Peerless Camera Stores, Inc.: See—  
 Banks, Stanley F.  
 Pellon Corp., New York, N. Y. 610,468, pub. 5-3-55. Cl. 42.  
 Penn Pharmaceutical Distributing Co., Chicago, Ill. 610,278, pub. 5-10-55. Cl. 18.  
 Penn-Standard Sole Cementing Process, Inc., Philadelphia, Pa. 610,177, pub. 5-10-55. Cl. 5.  
 Penney, J. C., Co., New York, N. Y. 324,098, ren. 5-14-55. Cl. 42.  
 Penney, J. C., Co., New York, N. Y. 324,367, ren. 5-14-55. Cl. 39.  
 Pennsylvania Salt Mfg. Co., The, Philadelphia, Pa. 610,258, pub. 5-17-55. Cl. 16.  
 Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 610,284, pub. 5-17-55. Cl. 18.  
 Phelan-Faust Paint Mfg. Co., St. Louis, Mo. 610,256, pub. 5-10-55. Cl. 16.  
 Phensic Co., The: See—  
 Phensic Ltd.  
 Phensic Ltd., Beecham (Northern Ltd.), trading also as The Phensic Co., London, England. 319,311, cor. Cl. 18.  
 Philadelphia Watch Case Co., Riverside, N. J. 45,841, can. Cl. 27.  
 Philadelphia Watch case Co., Riverside, N. J. 46,564, can. Cl. 27.  
 Philadelphia Watch Case Co., Riverside, N. J. 49,483, can. Cl. 27.  
 Philadelphia Watch Case Co., Riverside, N. J. 65,337, can. Cl. 27.  
 Pickard, Inc., Antioch, Ill. 507,152, can. Cl. 30.  
 Pilbrico Co., Chicago, Ill. 610,229, pub. 5-3-55. Cl. 12.  
 Pocahontas Fuel Co., Inc., New York, N. Y. 336,773, can. Cl. 1.  
 Pocahontas Fuel Co., Inc., New York, N. Y. 336,920, can. Cl. 1.  
 Pointe-Williamette Co., Inc., Edmonds, Wash. 610,344, pub. 5-17-55. Cl. 23.  
 Printing Devices, Inc., Melrose Park, Ill. 610,363, pub. 5-17-55. Cl. 23.  
 Procter & Gamble Co., The, Cincinnati, Ohio. 610,508, pub. 5-10-55. Cl. 52.  
 Prudential Premium Co., Los Angeles, Calif. 610,434, pub. 5-10-55. Cl. 38.  
 Pure Oil Co., The, Chicago, Ill. 610,253, pub. 5-3-55. Cl. 15.  
 Pure Oil Co., The, Chicago, Ill. 610,255, pub. 5-3-55. Cl. 15.  
 Quick-Set Inc., Skokie, Ill. 610,386, pub. 5-17-55. Cl. 26.  
 Radelco Mfg. Co., Cleveland, Ohio. 610,303, pub. 5-3-55. Cl. 21.  
 Raffoer, Erbsloh and Co., New York, N. Y., to Compania De Jarcia De Matanzas S. A., also known as Matanzas Cordage Co., Habana, Cuba. 106,501, ren. 10-19-55. Cl. 7.  
 Raynor Mfg. Co., Dixon, Ill. 610,228, pub. 5-3-55. Cl. 12.  
 Red Hand Compositions Co., Inc.: See—  
 Hartmann, Le Doux, and Muecker.  
 Refrigeration Systems, Inc., d. b. a. Hudson Bay Division, Chicago, Ill. 610,383, pub. 5-10-55. Cl. 26.  
 Reichhold Chemicals, Inc.: See—  
 Beck, Koller & Co., Inc.  
 Reisman, J., Sons Inc.: See—  
 Reisman, J., & Sons, Inc.  
 Reisman, J., & Sons Inc.: See—  
 Reisman, J., & Sons, Inc.  
 Reisman, J., & Sons, Inc., also known as J. Reisman & Sons Inc., and J. Reisman Sons Inc., Philadelphia, Pa. 610,470, pub. 5-3-55. Cl. 46.  
 Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. 249,037, can. Cl. 6.  
 Renson & Stafford, Inc., New York, N. Y. 507,141, can. Cl. 42.

Rexton Finishes, Inc., Irvington, N. J. 610,261, pub. 5-3-55. Cl. 16.  
 Rich's, Inc., Atlanta, Ga. 329,376, ren. 10-29-55. Cl. 39.  
 Riverside Metal Co., The, Riverside, N. J. 48,706, can. Cl. 14.  
 Riverside Mfg. Co., St. Louis, Mo. 610,188, pub. 5-10-55. Cl. 6.  
 Robbins Floor Products, Inc., Tuscumbia, Ala. 610,221, pub. 5-10-55. Cl. 12.  
 Robins, Dave, Dallas, Tex. 610,439, pub. 6-18-53. Cl. 39.  
 Rogers, Russell H., Corp., Detroit, Mich. 610,480, pub. 5-3-55. Cl. 46.  
 Ro-Nat Sportswear, Inc., New York, N. Y. 395,760, can. Cl. 39.  
 Rosenau Bros., Inc., to Rosenau Brothers, Inc., Philadelphia, Pa. 326,621, ren. 7-30-55. Cl. 39.  
 Rosenau Bros., Inc., to Rosenau Brothers, Inc., Philadelphia, Pa. 328,885, ren. 10-8-55. Cl. 39.  
 Rosenau Brothers, Inc.: See—  
 Rosenau Bros., Inc.  
 Roundup Grocery Co., Spokane, Wash. 217,339, can. Cl. 46.  
 Ruberold Co., The, New York, N. Y. 610,225-6, pub. 5-10-55. Cl. 12.  
 Rubin, Herbert, d. b. a. Lawrence Tackle Mfg. Co., New York, N. Y. 610,322, pub. 5-10-55. Cl. 22.  
 Russell Mfg. Co., The, Middletown, Conn. 328,183, ren. 9-17-55. Cl. 19.  
 S. A. Carlos Casado, Ltda., Buenos Aires, Argentina. 610,186-7, pub. 5-10-55. Cl. 6.  
 S. A. Etico (European Overseas Trading Co.), Zwevegem, Belgium. 610,211, pub. 5-10-55. Cl. 12.  
 Saks & Co., New York, N. Y. 610,457, pub. 5-10-55. Cl. 39.  
 Samette Mfg. Co., Inc., Allentown, Pa. 610,450, pub. 5-10-55. Cl. 39.  
 Sanders Associates Inc., Nashua, N. H. 610,301, pub. 5-10-55. Cl. 21.  
 Sandoz Chemical Works, Inc., New York, N. Y. 610,196, pub. 5-17-55. Cl. 6.  
 San Juan Fishing & Packing Co., Seattle, Wash. 610,492, pub. 5-17-55. Cl. 46.  
 Schacht Associates, Inc., New York, N. Y. 610,236-7, pub. 5-17-55. Cl. 12.  
 Schalk Chemical Co., Los Angeles, Calif. 610,505, pub. 5-10-55. Cl. 52.  
 Schenley Import Corp., also d. b. a. American Wine Co., New York, N. Y. 610,493, pub. 5-10-55. Cl. 47.  
 Schenley Industries, Inc.: See—  
 Many, Blanc & Co., Inc.  
 Schmid, Emil, Washington, D. C. 610,245, pub. 4-26-55. Cl. 13.  
 Schulmerich Carillons, Inc.: See—  
 Schulmerich Electronics, Inc.  
 Schulmerich Electronics, Inc., to Schulmerich Carillons, Inc., Sellersville, Pa. 610,410, pub. 4-19-55. Cl. 30.  
 Schwarzstein, Daniel, d. b. a. Strathmore Products Co., Englewood, N. J. 507,328, can. Cl. 46.  
 Scott Paper Co., Chester, Pa. 610,416, pub. 4-12-55. Cl. 37.  
 Scott Paper Co., Chester, Pa. 100,690, ren. 10-26-55. Cl. 37.  
 Scruggs, Barney T., d. b. a. Big Chief Medicine Co., Charlotte, N. C. 507,213, can. Cl. 6.  
 Sea-Land Products Co., Waleria, Calif. 610,201, pub. 4-26-55. Cl. 10.  
 Seamless Rubber Co., The, New Haven, Conn. 610,332, pub. 5-10-55. Cl. 22.  
 Seattle Packing Co., Seattle, Wash. 610,490, pub. 5-17-55. Cl. 46.  
 Selchow & Righter Co., New York, N. Y. 610,319-21, pub. 5-10-55. Cl. 22.  
 Setchell, Carlson, Inc., New Brighton, Minn. 610,295, pub. 5-3-55. Cl. 21.  
 Severance Tool Industries Inc., Saginaw, Mich. 610,345, pub. 5-17-55. Cl. 23.  
 Shell Oil Co., San Francisco, Calif., to Shell Oil Co., New York, N. Y. 324,610, ren. 5-21-55. Cl. 15.  
 Shell Oil Co., New York, N. Y. 610,254, pub. 5-3-55. Cl. 15.  
 Shellmar Products Co., Mount Vernon, Ohio, to Shellmar Products Corp. 433,863, can. Cl. 2.  
 Shellmar Products Corp.: See—  
 Shellmar Products Co.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 165,480, can. Cl. 6.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 418,952, can. Cl. 6.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 425,134, can. Cl. 6.  
 Shinsky, Philip, & Sons, Inc., New York, N. Y. 610,449, pub. 5-3-55. Cl. 39.  
 Short, D. R., Milling Co., Chicago, Ill. 610,488, pub. 5-10-55. Cl. 46.  
 Siftar, Robert, Schenectady, N. Y. 610,285, pub. 5-17-55. Cl. 19.  
 Silver Bruce Packing Co., Fresno, Calif. 507,120, can. Cl. 46.  
 Simpson Electric Co., a Division of American Gage & Machine Co., Chicago, Ill. 610,380, pub. 5-17-55. Cl. 26.  
 Skookum Craft Products: See—  
 Fagergren, Aaron H.  
 Sleepy Time Togs Inc., New York, N. Y. 610,456, pub. 5-10-55. Cl. 39.  
 Sloyan, Jerome J., d. b. a. Automatic Motor Base Co., Windsor, N. J. 610,358, pub. 5-17-55. Cl. 23.  
 Smith, Albert W., Ontario, Calif. 610,202, pub. 5-17-55. Cl. 19.  
 Smith, Arthur L., d. b. a. Metallac Archery Hunting String Co., Pontiac, Mich. 507,312, can. Cl. 22.  
 Sobel, Henry, d. b. a. King Morpheus Products, New York, N. Y. 610,399, pub. 5-10-55. Cl. 32.  
 Sonneborn, L., Sons, Inc., New York, N. Y. 104,653, 12(c) pub. 8-9-55. Cl. 18.



## LIST OF REGISTRANTS OF TRADEMARKS

Sonotone Corp., Elmsford, N. Y. 327,079, ren. 8-13-55. Cl. 44.  
 Southern Kraft Corp., to International Paper Co., New York, N. Y. 329,258, ren. 10-22-55. Cl. 37.  
 Spinnerin Yarn Co. Inc., New York, N. Y. 436,051, can. Cl. 43.  
 Spinnerin Yarn Co. Inc., New York, N. Y. 436,054, can. Cl. 43.  
 Sports-Styles, Inc., Rockford, Ill. 610,438, pub. 5-10-55. Cl. 39.  
 Stackpole Carbon Co., St. Marys, Pa. 610,312, pub. 5-10-55. Cl. 21.  
 Stahl-Urban Co., Terre Haute, Ind., and Brookhaven, Miss. 507,194, can. Cl. 39.  
 Standard Industrial Products, Inc., Evansville, Ind. 610,267, pub. 5-17-55. Cl. 16.  
 Standard Milling Co., Chicago, Ill. 507,145, can. Cl. 46.  
 Standard & Poor's Corp.: See—  
 Standard Statistics Co.  
 Standard Statistics Co., to Standard & Poor's Corp., New York, N. Y. 325,230, ren. 6-18-55. Cl. 38.  
 Standard Unbreakable Watch Crystals, Inc., New York, N. Y. 257,074, can. Cl. 33.  
 Stanford Fruit Growers, Inc., Lake Alfred, Fla. 434,215, can. Cl. 46.  
 Stanley Home Products, Inc., Westfield, Mass. 610,176, pub. 5-17-55. Cl. 4.  
 Stanley Home Products, Inc., Westfield, Mass. 610,392, pub. 4-26-55. Cl. 29.  
 Stanley Home Products, Inc., Westfield, Mass. 610,393, pub. 5-3-55. Cl. 29.  
 Sta-Rite Ginnie Lou, Inc., Shelbyville, Ill. 610,462, pub. 5-10-55. Cl. 40.  
 Stauffer Chemical Co., San Francisco, Calif. 507,251, can. Cl. 6.  
 Steele, J. W., & Co., North Kansas City, Mo. 507,172, can. Cl. 37.  
 Stem, Chester B., Inc., New Albany, Ind. 610,233, pub. 5-17-55. Cl. 12.  
 Stephens, Charles A., d. b. a. Charles A. Stephens Co., Chicago, Ill. 610,428, pub. 5-10-55. Cl. 38.  
 Stephens, Charles A., Co.: See—  
 Stephens, Charles A.  
 Sterling Plastics Co., Union, N. J. 507,193, can. Cl. 37.  
 Stillwell, Mervin J., d. b. a. Modern Building Specialties, Robinson, Ill. 610,235, pub. 5-10-55. Cl. 12.  
 Stix, Baer and Fuller Co., St. Louis, Mo. 610,441, pub. 5-10-55. Cl. 39.  
 Stok-A-Fire Co., Inc. University City, Mo. 507,314, can. Cl. 34.  
 Stone, H., & Co., Ltd., Newark, N. J. 423,084, can. Cl. 49.  
 Stork Woolens, Inc., New York, N. Y. 507,299, can. Cl. 42.  
 Stover Water Softener Co., St. Charles, Ill. 610,396, pub. 4-12-55. Cl. 31.  
 Stratford Engineering Corp., Kansas City, Mo. 358,510, can. Cl. 23.  
 Strathmore Products Co.: See—  
 Schwarze, Daniel.  
 Strong Cobb & Co., Inc., Cleveland, Ohio. 507,294, can. Cl. 6.  
 Student, Erich, Cleveland, Ohio. 403,375, can. Cl. 26.  
 Studio Brick, Inc., Los Angeles, Calif. 610,230, pub. 5-17-55. Cl. 12.  
 Superior Felt & Bedding Co., Chicago, Ill. 367,317, can. Cl. 32.  
 Swedish Produce Co., The, Chicago, Ill. 373,473, can. Cl. 46.  
 Swift & Co., Chicago, Ill. 610,507, pub. 5-17-55. Cl. 52.  
 Talmage, Maurice M., d. b. a. Cheryl Chase, Chicago, Ill. 610,490, pub. 5-10-55. Cl. 51.  
 Talon, Inc., Meadville, Pa. 610,240, pub. 4-26-55. Cl. 13.  
 Taubman, Samuel, New York, N. Y. 610,415, pub. 5-3-55. Cl. 37.  
 Taylor, White Extracting Co., Camden, N. J. 610,198, pub. 5-17-55. Cl. 6.  
 Tell-O-Mail Co., Portland, Ore. 507,324, can. Cl. 2.  
 Tenak Products Co., Chicago, Ill. 610,496-7, pub. 4-26-55. Cl. 50.  
 Tetra-Life Products: See—  
 Martinson, Uriel F.  
 Thermactor Co., New York, N. Y. 610,314, pub. 5-10-55. Cl. 21.  
 Thompson, Jean B., d. b. n. Jean Bartelme, Northbrook, Ill. 610,444, pub. 5-10-55. Cl. 39.  
 Tri-Chem, Inc., West Orange, N. J. 610,259, pub. 5-10-55. Cl. 16.  
 Trouser Corp. of America, Scranton, Pa. 610,445-6, pub. 5-10-55. Cl. 39.  
 Tublin, Eddie S., Burbank, Calif. 610,361, pub. 5-17-55. Cl. 23.  
 Tuloma Gas Products Co., Tulsa, Okla. 610,192, pub. 5-10-55. Cl. 6.  
 Varco Inc., Chicago, Ill. 610,424, pub. 5-3-55. Cl. 37.  
 Veneeda Doll Co., Inc., New York, N. Y. 610,317, pub. 5-10-55. Cl. 22.  
 Unak Products Co., Inc., Oconomowoc, Wis. 507,278, can. Cl. 4.  
 Unimatic Corp., Tulsa, Okla. 610,348-9, pub. 5-17-55. Cl. 23.  
 Union Carbide and Carbon Corp.: See—  
 Niacet Chemicals Corp.  
 United States Gutta Percha Paint Co., Saco, Maine, and Providence, R. I. 71,082, can. Cl. 16.  
 U. S. Line Co.: See—  
 United States Whip Co.  
 United States Plywood Corp., New York, N. Y. 610,178, pub. 5-17-55. Cl. 5.  
 United States Rubber Co., New York, N. Y. 610,401-5, pub. 5-3-55. Cl. 35.  
 United States Whip Co., d. b. a. U. S. Line Co., Westfield, Mass. 610,337, pub. 5-10-55. Cl. 22.  
 Universal-Cyclops Steel Corp., Bridgeville, Pa. 610,250, pub. 5-10-55. Cl. 14.  
 Universal Laboratory Co., Inc., Indianapolis, Ind. 610,272, pub. 4-26-55. Cl. 18.  
 Upjohn Co., The, Kalamazoo, Mich. 610,282, pub. 5-17-55. Cl. 18.  
 Utica Drop Forge & Tool Corp., Utica, N. Y. 610,346, pub. 5-17-55. Cl. 23.  
 Valcott Hosiery Corp., New York, N. Y. 507,203, can. Cl. 39.  
 Valentine Laboratories, Inc., Chicago, Ill. 404,208, can. Cl. 29.  
 Van Baerle & Associates, Chicago, Ill. 610,436, pub. 5-10-55. Cl. 38.  
 Van Dalen, Leonard, d. b. a. Van Wood Mfg. Co., Haddonfield, N. J. 610,495, pub. 4-26-55. Cl. 50.  
 Van Vooren, Fred A., d. b. a. Van Vooren Products, East Moline, Ill. 610,299, pub. 5-10-55. Cl. 21.  
 Van Vooren Products: See—  
 Van Vooren, Fred A.  
 Van Wood Mfg. Co.: See—  
 Van Dalen, Leonard.  
 Varley, James, & Sons, Inc., St. Louis, Mo. 610,182, pub. 5-10-55. Cl. 6.  
 Victor Mfg. & Gasket Co., Chicago, Ill. 610,406-7, pub. 5-3-55. Cl. 35.  
 Victory Engineering Corp., Union, N. J. 610,384, pub. 5-17-55. Cl. 26.  
 Viking World Travel Service, Inc., New York, N. Y. 610,511, Cl. 105.  
 Visirecord, Inc., Copiague, N. Y. 610,401, pub. 5-10-55. Cl. 32.  
 Vogue Brassiere Mfg. Co., Newark, N. J. 267,453-4, can. Cl. 39.  
 Vol-Shan Mfg. Co., Inc., Culver City, Calif. 610,243-4, pub. 4-26-55. Cl. 13.  
 Volt, W. J., Rubber Corp., Los Angeles, Calif. 610,328, pub. 5-10-55. Cl. 22.  
 Walgreen Co., Chicago, Ill. 337,568, can. Cl. 23.  
 Walgreen Co., Chicago, Ill. 356,738, can. Cl. 6.  
 Walgreen Co., Chicago, Ill. 401,586, can. Cl. 29.  
 Walker, Sidney E., Dallas, Tex. 610,174, pub. 5-17-55. Cl. 4.  
 Warner Brothers Co., The, Bridgeport, Conn. 610,443, pub. 5-10-55. Cl. 39.  
 Watkins, J. R., Co., The, Winona, Minn. 610,509, pub. 5-10-55. Cl. 52.  
 Watson-Standard Co., Pittsburgh, Pa. 610,262, pub. 5-17-55. Cl. 16.  
 Waynesboro Orchard Co., Waynesboro, Pa. 610,483, pub. 5-10-55. Cl. 46.  
 Weaver, Victor F., Inc., New Holland, Pa. 610,484-5, pub. 5-10-55. Cl. 46.  
 Weiss, Theo., & Co., Inc., New Orleans, La. 507,235, can. Cl. 39.  
 Wenzel, H., Tent & Duck Co., St. Louis, Mo. 387,517, can. Cl. 50.  
 Wernet Dental Mfg. Co., Inc., d. b. a. Hudson Products, Jersey City, N. J. 610,281, pub. 5-17-55. Cl. 18.  
 Western Auto Supply Co., Kansas City, Mo. 610,300, pub. 5-10-55. Cl. 21.  
 Western Clock Co., Peru, by General Time Corp., La Salle, Ill. 327,421, 12(c) pub. 8-9-55. Cl. 27.  
 Weston Electrical Instrument Corp., Newark, N. J. 418,929, can. Cl. 26.  
 Wheary-Burge Trunk Co., Racine, Wis. 194,820, can. Cl. 3.  
 Wheary Trunk Co., Racine, Wis. 198,569, can. Cl. 3.  
 Wheary Trunk Co., Racine, Wis. 224,519, can. Cl. 3.  
 Wheat, Frank H., Jr., Los Angeles, Calif. 610,464, pub. 5-3-55. Cl. 42.  
 Wheel Trueing Tool Co., Detroit, Mich. 610,246, pub. 4-26-55. Cl. 13.  
 White Laboratories, Inc., Kenilworth, N. J. 610,277, pub. 5-10-55. Cl. 18.  
 White Stag Mfg. Co., Portland, Ore. 610,458, pub. 5-10-55. Cl. 39.  
 Whitehall Pharmacal Co.: See—  
 Hope, Inc.  
 Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. 115,423, can. Cl. 46.  
 Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. 175,360, can. Cl. 46.  
 Williams Mfg. Co., Chicago, Ill. 610,334, pub. 5-10-55. Cl. 22.  
 Williams, R. C., & Co., Inc., New York, N. Y., to W. & A. Gilbey Ltd., London, England. 324,956, ren. 6-4-55. Cl. 49.  
 Winger Dairy Products Processing and Mfg. Corp., Denver, Colo. 610,475, pub. 5-17-55. Cl. 46.  
 Wolfe's Play-By-Color Piano Sales Promotion, Irvington, N. J. 610,427, pub. 5-10-55. Cl. 38.  
 Wood, Charles E., Inc., New York, N. Y. 239,841, can. Cl. 1.  
 Wood, Charles E., Inc., New York, N. Y. 240,639, can. Cl. 1.  
 Woodworth, C. B., Sons Co., Rochester, to Barbara Gould, Inc., New York, N. Y. 107,034, ren. 11-9-55. Cl. 51.  
 Woolsey, C. A., Paint & Color Co. Inc., New York, N. Y. 610,266, pub. 5-17-55. Cl. 16.  
 Yates-American Machine Co., Beloit, Wis. 610,394-5, pub. 4-12-55. Cl. 31.  
 Yeckes Bros., Inc., New York, N. Y. 348,572, can. Cl. 46.  
 York Band Instrument Co., Grand Rapids, Mich. 325,644, ren. 7-2-55. Cl. 36.  
 Young, Floyd S., d. b. a. Midwest Clean-It Co., Lincoln, Nebr. 507,311, can. Cl. 4.  
 Zells, Carl, Oberkochen, Wurttemberg, Germany. 610,382, pub. 5-3-55. Cl. 26.  
 Zveibill, Salvador M., São Paulo, Brazil. 610,213, pub. 5-3-55. Cl. 12.

## PATENTS

### NOTICES

#### International Convention for the Protection of Industrial Property

##### Adherence of Italy to the London 1934 revision

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective July 15, 1955, of Italy to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ARTHUR W. CROCKER,

July 25, 1955.

Acting Commissioner of Patents.

#### Dedication

2,686,108.—William S. Hoffmeister, Tulsa, Okla. MICROFOSSIL PROSPECTING FOR PETROLEUM. Patent dated Aug. 10, 1954. Dedication filed July 5, 1955, by the assignee, Enko Research and Engineering Company.

Hereby dedicates to the public that portion of the term of said patent subsequent to July 5, 1955.

#### Disclaimers

2,454,515.—Edwin H. Land, Boston, Mass. LIGHT-POLARIZING SHEET OF MOLECULARLY ORIENTED TRANSPARENT LINEAR HIGH POLYMER DYED WITH DICHROIC SUBSTANCE AND PROCESS OF MANUFACTURE. Patent dated Nov. 23, 1948. Disclaimer filed July 21, 1955, by the assignee, Polaroid Corporation.

Hereby enters this disclaimer to claims 12 and 16 of said patent.

Re. 23,297.—Mark Hyman, Jr., Belmont, and Cutler D. West, Cambridge, Mass. SHEETLIKE LIGHT-POLARIZING COMPLEX OF IODINE AND A POLYVINYL COMPOUND WITH PROTECTIVE SURFACE BORIC ACID-POLYVINYL COMPOUND COMPLEX. Patent dated Nov. 28, 1950. Disclaimer filed July 21, 1955, by the assignee, Polaroid Corporation.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

#### New Applications Received During June 1955

Patents	6,921
Plants	8
Reissues	14
Designs	456
Total	7,399

#### Patents Available for Licensing or Sale

2,680,384. Pedal. Walter E. Horrocks, 1494 Rosewood Ave., Lakewood 7, Ohio.

2,696,674. Sheet Metal Marker (Sheet Metal Scribes for Sheet Metal Pattern Scribing). Roger Tilghman, 606 61st St., Capitol Heights, Washington 27, D. C.

2,706,959. Safety Mount for an Outboard Motor. Alva D. Downs, 705 Chandler St., Alice, Tex.

2,707,872. Lubrication of Knitting Machines. Robert F. McDaniel, Sr., 1238 Washington St., Henderson, Ky.

2,707,986. Resilient Support for Tractor Seat. Leslie W. Johnson, Minden, Nebr.

2,710,457. High Speed Drier Drive. Lukens Steel Company, Coatesville, Pa.

2,710,704. Ash Tray. Charles Webke, 60 48th St., Weehawken, N. J.

2,710,727. Film Guide for Developing Tanks. Raymond T. Orowick, 6036 S. Washtenaw Ave., Chicago, Ill.

2,712,404. Pack Frame (For Use by Hunters, Prospectors, Hikers, Etc., To Distribute the Load Evenly). Oscar Miller, Box 425, Oroville, Wash.

The following two patents are offered on reasonable terms by George A. Stasinos, 1105 West 11th Ave., Gary, Ind.

2,710,450. Ice Cream Block Marking Device.

2,710,460. Shoe or Slipper and the Like.

#### Classification Order No. 181

The following class transfers, for concurrent reclassification and examination of applications pending therein, are directed to take effect on Monday, August 8, 1955:

From Division 1 to Classification Division IV  
 Class 55, Harrows and Diggers, Subs. 1-8, 11-13, 19-49, 73-105, 122-131, and 149-154.  
 Class 97, Plows.

From Division 57 to Classification Division III  
 Class 164, Cutting and Punching Sheets and Bars.

M. C. ROSA,  
 Executive Examiner.

July 27, 1955.

#### Issue

Patents	510—No. 2,715,220 to No. 2,715,729, incl.
Designs	53—No. 175,329 to No. 175,381, incl.
Total	563



## Non-Proprietary Name

The Public Health Service has informed the Patent Office that the names listed below are under consideration with a view to their being selected by the World Health Organization as recommended international non-proprietary names. The World Health Organization submitted this information to the Public Health Service in accordance with procedures established by WHO and published in the Chronicle of the World Health Organization, volume 9, number 6, June 1955.

Objections to the selection of these names as recommended international non-proprietary names and comments in regard

thereto, may be made by any interested person before January 1956. All such objections and comments, as well as other communications concerning the names listed should be sent directly to the Director General, World Health Organization, Geneva, Switzerland.

All communications should include a clear identification of the individual or agency making the objections or comments, an explanation of the specific interest in the drug and its name, a citation of the non-proprietary name proposed, and a clear statement, in appropriate detail, of the objections or comments—legal, technical, scientific, or other—concerning the name under consideration.

Recommended International Non-Proprietary Name (Latin, English)	Chemical Name or Description
acebrocholium	acetodibromodihydrocholesterol
acebrochol	
acetaminosalolium	acetyl-4-aminophenyl salicylate
acetaminosalol	
acidum aminoaceticum	amino-acetic acid, glycocoll
amino-acetic acid	
acidum dehydrocholicum	
dehydrocholic acid	
acidum gentisicum	5-hydroxysalicylic acid
gentisic acid	
acidum glutamicum	glutamic acid
glutamic acid	
acidum lapanicum	3-(3-amino-2,4,6-triiodophenyl)-2-ethylpropanoic acid
lapanic acid	
acriflavini chloridum	mixture of the hydrochlorides of 3,6-diamino-10-methylacridinium chloride and 3,6-diamino-acridine
acriflavini chloridum	
aethacridinum	2-ethoxy-6,9-diaminoacridine
aethacridine	
aethoxazurutosidum	monomorpholyethyluratoside
aethoxazurutoside	
alcoholum benzylicum	phenylcarbinol
benzyl alcohol	
aldisulfonum natrium	disodium salt of 4,4'-diaminodiphenylsulfone formaldehydesulfoxylic acid
aldisulfone sodium	
allobarbitalum	5,5-diallylbarbituric acid
allobarbitol	
allocupreidum natrium	sodium cuproallylthioureidobenzoate
allocupreide sodium	
allomethadionum	3-allyl-5-methyloxazolidine-2,4-dione
allomethadione	
aminoaethylis nitrus	nitrate ester of aminoethanol
aminoethyl nitrate	
aminothiazolum	
aminothiazole	
amodiaquini hydrochloridum	7-chloro-4-(3'-diethylaminomethyl-4'-hydroxyanilino) quinoline dihydrochloride
amodiaquine hydrochloride	
antazolini hydrochloridum	2-N-benzylanilinomethylimidazoline hydrochloride
antazoline hydrochloride	
aprobarbitalum	allylisopropylbarbituric acid
aprobarbitol	
aurothioglycanidum	auromercaptoacetanilide
aurothioglycanide	
azamethoni bromidum	3-methyl-3-azapentane-1,5-bis (ethylmethyl-ammonium) bromide
azamethonium bromide	
bacitracinum	
bacitracin	
benethamini penicillinum	benzylpenicillin salt of N-benzyl-β-phenylethylamine
benethamine penicillin	
benzalkoni chloridum	mixture of alkylbenzyltrimethylammonium chlorides
benzalkonium chloride	
benzethoni chloridum	benzyltrimethyl - p - (1,1,3,3-tetramethylbutyl) phenoxyethoxyethylammonium chloride
benzethonium chloride	
benzododecinum	dimethylbenzylododecylammonium
benzododecinum	
benzoestrolum	3-ethyl-2,4-bis (p-hydroxyphenyl) hexane
benzoestrol	
benzpyrini bromidum	1-benzyl-3-(dimethylcarbamoyloxy)pyridinium bromide
benzpyrinium bromide	
bibrocatolum	bismuth derivative of tetrabromopyrocatechol
bibrocatol	
camphotamidum	camphosulfonyl-N-methylpyridine-β-diethylcarbonamide
camphotamide	
caramiphenil chloridum	diethylaminoethyl-1-phenylcyclopentane-1-carboxylate hydrochloride
caramiphenium chloride	
carbromalum	α-bromo-α-ethylbutyrylurea
carbromal	
cetobemidomum	4-m-hydroxyphenyl-1-methyl-4-propionylpiperidine
ketobemidone	
cetrimonium	cetyltrimethylammonium
cetrimonium	
cetylpyridini chloridum	
cetylpyridinium chloride	

Recommended International Non-Proprietary Name  
(Latin, English)

## Chemical Name or Description

chloramphenicolium	D(-)-threo-1-p-nitrophenyl-2-dichloroacetamido-1,3-propanediol
chloramphenicol	
chlorazodinum	α,α-azo-bis (chloroformamidine)
chlorazodin	
chloronaphazinium	2,2'-dichlorodithyl-β-naphthylamine
chloronaphazine	
chloropyrilenil citras	N,N-dimethyl-N'-(2-pyridyl)-N'-(5-chloro-2-thenyl) ethylenediamine citrate
chloropyrilenium citrate	
chlorquinaldolum	5,7-dichloro-8-hydroxy-2-methylquinoline
chlorquinaldol	
cinchocainil chloridum	hydrochloride of the β-diethylaminoethylamide of 2-butyloxycinchonic acid
cinchocainium chloride	
cinchophenum	2-phenylquinoline-4-carboxylic acid
cinchophen	
cocarboxylasum	pyrophosphoric ester of thiamine
cocarboxylase	
corticotrophinum	adrenocorticotrophic hormone
corticotrophin	
cyanocobalaminum	vitamin B <sub>12</sub>
cyanocobalamin	
cyclobarbitalum	5-(1-cyclohexenyl)-5-ethylbarbituric acid
cyclobarbitol	
cyclopentaminum	N,α-dimethylcyclopentylethylamine
cyclopentamine	
cyclopropanum	
cyclopropane	
decamethonum	decamethylene-1,10-bis(trimethylammonium)
decamethonium	
diphenylsulfonum	4,4'-diaminodiphenylsulfone
diphenylsulfone	
dichlorophenarsini hydrochloridum	3-amino-4-hydroxyphenyl dichlorarsine hydrochloride
dichlorophenarsine hydrochloride	
diethylcarbamazinum	1-diethylcarbamoyl-4-methylpiperazine
diethylcarbamazine	
digitoxosidum	one of the heterosides of the leaf of <i>Digitalis purpurea</i> L.
digitoxoside	
dihydrostreptomycinum	
dihydrostreptomycin	
dihydrotachyterolum	
dihydrotachyterol	
dihydroxyquinolinum	8-hydroxy-5,7-dihydroquinoline
dihydroxyquinoline	
dimenhydrinatum	2-(diphenylmethoxy)-N,N-dimethylethylammonium 8-chlorotheophyllinate
dimenhydrinate	
dimercaprolum	2,3-dimercaptopropanol
dimercaprol	
dimethiodalum natrium	sodium diiodomethanesulfonate
dimethiodal sodium	
dimethyltubocurarinil chloridum	
dimethyltubocurarinium chloride	
dimoxylinil phosphas	6,7-dimethoxy-1-(4'-ethoxy-3'-methoxybenzyl) 3-methylisoquinolinium phosphate
dimoxylinium phosphate	
diperodonil hydrochloridum	8-(1-piperidyl)-1,2-propanediol dicarbanilate hydrochloride
diperodon hydrochloride	
diphenanum	4-benzylphenyl carbamate
diphenan	
diphenhydramini hydrochloridum	β-benzhydryl 2-dimethylaminoethyl ether hydrochloride
diphenhydramine hydrochloride	
diprophyllinum	dihydroxypropyltheophylline
diprophylline	
disulfurum	tetraethylthiuram disulfide
disulfuram	
dixanthogenum	diethyldixanthogen
dixanthogen	
doxylaminil succinas	2-[α-(2-dimethylaminoethoxy)-α-methylbenzyl] pyridine succinate
doxylaminium succinate	
ethinyloestradiolum	17-ethinyl-3,17-dihydroxy-Δ-1,3,5-oestratriene
ethinyloestradiol	
eucatropinum	4-hydroxy-1,2,2,6-tetramethylpiperidine phenyl-glycollate
eucatropine	
fumagillinum	an antibiotic substance produced by certain strains of <i>Aspergillus fumigatus</i>
fumagillin	
furfurethoni iodidum	furfuryltrimethylammonium iodide
furfurethonium iodide	
glucosulfamidum	glucose sodium bisulfite compound of sulfanilamidomethanol
glucosulfamide	
glucosulfonum	p,p'-diaminodiphenylsulfone-N, N'-di-(glucose sodium sulfonate)
glucosulfone	
gonadotrophinum chorionicum	contains the gonad-stimulating substance obtained from the urine of pregnant women
gonadotrophin chorionic	
gonadotrophinum sericum	contains the follicle-stimulating substance obtained from the serum of pregnant mares
gonadotrophin serum	
gramicidinum	
gramicidin	
heptaminolum	2-amino-6-methylheptan-6-ol
heptaminol	
hexachlorophenum	di-(2-hydroxy-3,5,6-trichlorophenyl) methane
hexachlorophene	
hexamethonium	hexamethylene-1,6-bis(trimethylammonium)
hexamethonium	
hexobarbitalum	5-(1-cyclohexenyl)-1,5-dimethyl-barbituric acid
hexobarbitol	



Recommended International Non-Proprietary Name (Latin, English)	Chemical Name or Description
hexoestrolum hexoestrol homatropini methylbromidum homatropine methylbromide hyaluronidasum hyaluronidase hydralazinum hydralazine hydrocodoni bitartras hydrocodone bitartrate hydromorphoni hydrochloridum hydromorphone hydrochloride hydroxyprocalum hydroxyprocaline hydroxypyridini tartras hydroxypyridine tartrate hydroxytetraalum hydroxytetraalene ibrotamidum ibrotamide iodetrium iodeteryl iodophthaleinum natrium iodophthalein sodium iodothioracilum iodothioracil iproniazidum iproniazid isomethadonum isomethadone isoprenalinum isoprenaline khellinum khellin levomethorphanum levomethorphan maleylsulfathiazolum maleylsulfathiazole medrylamnum medrylamine mephensolum mephensin mepyraminum mepyramine meralluridum meralluride merbrominum merbromin mercaptaminum mercaptamine mercaptomerinum mercaptomerin mercaderamidum mercaderamide mercurobutolum mercurobutol mercurophyllinum mercurophylline metaraminoli bitartras metaraminol bitartrate methacholinii chloridum methacholinium chloride methandriolum methandriol methaphenilenum methaphenilene methapyrilenum methapyrilene metharbitalum metharbitol methenaminii tetralodidum methenaminium tetralodide methenaminum methenamine methestrol dipropionas methestrol dipropionate methiodalum natrium methiodal sodium methylbenzethonii chloridum methylbenzethonium chloride methylegometrinii tartras methylegometrinium tartrate methylphenobarbitalum methylphenobarbital methylrosanilini chloridum methylrosanilinium chloride methylthionilii chloridum methylthionilium chloride methylthioracilum methylthioracil monomethanolaminoli oleas monomethanolaminum oleate	3,4-di-(p-hydroxyphenyl)n-hexane  enzymes of various origins which depolymerize hyaluronic acid 1-hydrazinophthalazine dihydrocodeinone acid tartrate dihydromorphinone hydrochloride diethylaminoethanol 4-aminosalicylate tartrate ester of 3-hydroxypyridine 2-dimethylaminoethanol 4-n-butylaminosalicylate ethylisopropyl- $\alpha$ -bromacetamide ethyl diiodostearate disodium salt of tetraiodophenolphthalein 4-hydroxy-5-iodo-2-mercaptopyrimidine 1- $\alpha$ -nicotinyli-2- $\alpha$ -propylhydrazide 6-dimethylamino-4,4-diphenyl-5-methyl-3-hexanone (-) 1-m-hydroxyphenyl-2-amino-1-propanol hydrogen (+) tartrate 5,8-dimethoxy-3-methyl-6,7-furano-chromone, extracted from the fruits of <i>Ammi visnaga</i> (L.) Lam. (-) 3-methoxy-N-methylmorphinan maleyl-p-aminophenylsulfonamidothiazole $\beta$ -dimethylaminoethyl-p-methoxybenzhydryl ether 1,2-dihydroxy-3-(2'-methylphenoxy)propane N-p-methoxybenzyl-N',N'-dimethyl-N-2-pyridylethylenediamine mixture of methoxyoxymercuripropylsuccinylurea and theophylline disodium salt of 2,7-dibromo-4-hydroxy-mercurifluoresceine $\beta$ -mercaptoethylamine disodium salt of N-(3-carboxymethylmercaptomercuri-2-methoxy) propylcam- phoric acid hydroxymercuripropylamide of o-carboxyphenoxyacetic acid 4-tert-butyl-2-chloromercuriphenol mixture of the sodium salt of the $\beta$ -methoxy- $\gamma$ -hydroxymercuripropylamide of trimethylcyclopentanedicarboxylic acid and theophylline (-) 1-m-hydroxyphenyl-2-amino-1-propanol hydrogen (+) tartrate acetyl- $\beta$ -methylcholinium chloride 17 $\alpha$ -methyl-3 $\beta$ ,17 $\beta$ -dihydroxyandrostene-5 N,N-dimethyl-N-phenyl-N-(2-thienylmethyl) ethylenediamine N,N-dimethyl-N'-(2-pyridyl)-N'-(2-thienyl) ethylenediamine 5,5-diethyl-1-methyl barbituric acid hexamethylenetetraminium tetralodide hexamethylenetetramine 4,4'-(1,2-diethylethylene)di-o-cresol dipropionate sodium iodomethanesulfonate benzylidimethyl-2-[2-(p-1,3,3-tetramethyl-butyl-cresoxy) ethoxy] ethylammo- nium chloride 1-lysergic acid 2-butanolamide tartrate N-methyl-5-ethyl-5-phenylbarbituric acid crystal violet tetramethylthionilium chloride 4-methyl-2-thioracil

Recommended International Non-Proprietary Name (Latin, English)	Chemical Name or Description
nalorphinum nalorphine naphazolinum naphazoline natrii ascorbas sodium ascorbate natrii aurothiomalas sodium aurothiomalate natrii cyclamas sodium cyclamate natrii dehydrocholas sodium dehydrocholate natrii gentias sodium gentisate natrii morrhuas sodium morrhuate natrii stibogluconas sodium stibogluconate natrii tetradecylis sulfas sodium tetradecyl sulfate nicophollinum nicopholline nitrosulfathiazolum nitrosulfathiazole octamylaminum octamylamine oxapropanil iodidum oxapropanium iodide oxophenarsini hydrochloridum oxophenarsine hydrochloride oxycodoni hydrochloridum oxycodone hydrochloride oxydipentoni chloridum oxydipentonium chloride oxyphenoni bromidum oxyphenonium bromide oxytetraacyclinum oxytetraacycline paramethadionum paramethadione parethoxycalum parethoxycalene paroxypropionum paroxypropione pentaerithrityli tetranitras pentaerithrityl tetranitrate pentamethonium pentamethonium pentamidinum pentamidine pentobarbitalum pentobarbital phenacemidum phenacemide phenadoxonum phenadoxone phenicarbazidum phenicarbazide phenindaminum phenindamine pheniodolum natrium pheniodol sodium phenododecylinum phenododecylinium phenothiazinum phenothiazine phenolaminum phenolamine phenylbutazonum phenylbutazone pholcodinum pholcodine pholedrinii sulfas pholedrinium sulfate phthalylsulfathiazolum phthalylsulfathiazole piperocanil chloridum piperocaninium chloride piperoxani hydrochloridum piperoxan hydrochloride piridocanum piridocaine pregnenolum pregnenolone primaquinum primaquine probarbitalum natrium probarbital sodium procalnamidum procalnamide	N-allylnormorphine 2-(1-naphthylmethyl) imidazoline  mainly the sodium salt of aurothiomalic acid sodium cyclohexylsulfamate  sodium 5-hydroxysalicylate the sodium salts of the fatty acids of cod-liver oil sodium antimonylgluconate sodium 7-ethyl-2-methylundecyl-4-sulfate morpholine nicotinic acid amide 2-(p-nitrophenylsulfonamido) thiazole isoamylaminomethylheptane 1-dimethylaminomethylene-2,3-dioxopropane iodomethylate 3-amino-4-hydroxy-phenyl arsenoxide hydrochloride dihydrohydroxycodone hydrochloride 5,5'-bis(trimethylammonium)dipentyl ether dichloride diethyl-2-(hydroxyethyl)methylammonium bromide -phenyl- cyclohexylgly- colate an antibiotic substance produced by the growth of <i>Streptomyces rimosus</i> , or the same substance produced by any other means 3,5-dimethyl-5-ethylloxazolidine-2,4-dione diethylaminoethanol 4-ethoxybenzoate 4-hydroxypropionophenone  pentamethylene-1,5-bis(trimethylammonium) p'-p'-diamidino-diphenoxy-pentane 5-ethyl-5-(1-methylbutyl) barbituric acid phenylacetylurea 6-morpholino-4,4-diphenylheptan-3-one phenylsemicarbazide 2-methyl-0-phenyl-2,3,4,9-tetrahydro-1-pyridindene sodium $\alpha$ -phenyl- $\beta$ -(4-hydroxy-3,5-diodophenyl) propionate dodecylidimethyl-2-phenoxyethylammonium  2-(m-hydroxy-N-p-tolylanilinoethyl)-2-imidazoline 3,5-dioxo-1,2-diphenyl-4-n-butylpyrazolidine morpholinylethylmorphine $\beta$ -(p-hydroxyphenyl) isopropylmethylammonium sulfate (o-carboxybenzoyl)-p-aminophenyl-sulfonamido-thiazole 3-benzoyl-1-(2-methylpiperidino) propane hydrochloride 2-(1-piperidylmethyl)-1,4-benzodioxan hydrochloride $\beta$ -(2-piperidyl) ethyl o-aminobenzoate 3-hydroxy-20-keto-pregnene-5 8-(4-amino-1-methylbutylamino)-6-methoxyquinoline sodium derivative of 5-ethyl-5-isopropylbarbituric acid 4-amino-(2-diethylaminoethyl) benzamide



Recommended International Non-Proprietary Name (Latin, English)	Chemical Name or Description
procyclidinum procyclidine	1-phenyl-1-cyclohexyl-3-pyrrolidino-propan-1-ol hydrochloride
promethazini hydrochloridum promethazine hydrochloride	(dimethylamino-2'-methyl-2'-ethyl)-N-dibenzoparathiazine hydrochloride
propamidinum propamide	$\alpha,\omega$ -(4,4'-diamidinodiphenoxy) propane
propanthelini bromidum propanthelene bromide	$\beta$ -diisopropylaminoethyl xanthene-9-carboxylate methylbromide
propylidodum propylidone	propyl-3,5-dilodo-4-pyridone acetate
propylthiouracilum propylthiouracil	2-mercapto-4-hydroxy-6-n-propylpyrimidine
propyphenazonum propyphenazone	1-phenyl-2,3-dimethyl-4-isopropyl-5-pyrazolone
pyridoxinili chloridum pyridoxinium chloride	4,5-di(hydroxymethyl)-3-hydroxy-2-methyl-pyridinium chloride
pyrimethaminum pyrimethamine	2,4-diamino-5-p-chlorophenyl-6-ethylpyrimidine
pyroxylinum pyroxilin	soluble guncotton
racemethorphanum racemethorphan	( $\pm$ ) 3-methoxy-N-methylmorphinan
racemorphanium racemorphane	( $\pm$ ) 3-hydroxy-N-methylmorphinan
rutosidum rutoside	3-rhamnoglucoside of 5,7,3',4'-tetrahydroxy-flavonol
salacetamidum salacetamide	N-acetylsalicylamide
salazosulfamidum salazosulfamide	p-sulfonamidophenylazosalicylic acid
salazosulfathiazolum salazosulfathiazole	p-aminophenylsulfonamidothiazole-azosalicylic acid
salicylamidum salicylamide	2-hydroxybenzamide
solutio natrii chloridi composita compound solution of sodium chloride	synonym: Ringer's solution
solutio natrii lactatis composita compound solution of sodium lactate	synonym: Ringer's lactate solution
stearylsulfamidum stearylsulfamide	stearylsulfanilamide
stibamini glucosidum stibamine glucoside	N-glucoside of sodium 4-aminophenylatibonate
streptomycinum streptomycin	
subathizonum subathizone	4-ethylsulfonylbenzaldehyde thiosemicarbazone
sulfacetamidum sulfacetamide	p-aminophenylsulfonacetamide
sulfadimidinum sulfadimidine	2-sulfanilamido-4,6-dimethylpyrimidine
sulfisomidinum sulfisomidine	2,4-dimethyl-6-sulfanilamidopyrimidine
sulfogalacolum sulfogalacol	potassium gualacolsulfonate
suraminum natrium suramin sodium	symmetrical area of the sodium salt of m-benzoyl-m-amino-p-methylbenzoyl-1-aminonaphthalene 4,6,8-trisulfonic acid
suxethonili chloridum suxethonium chloride	bis-(2-dimethylaminoethyl) succinate bisethochloride
thiacetarsamidum natrium thiacetarsamide sodium	disodium salt of p-[bis-(carboxymethyl-mercapto)arsino] benzamide
thiazosulfonum thiazosulfone	2,4'-diaminothiazolyphenylsulfone
thioacetazonum thioacetazone	4-acetamidobenzaldehyde thiosemicarbazone
thiodiglycolum thiodiglycol	2,2'-dihydroxyethyl sulfide
thonzylaminili chloridum thonzylaminium chloride	N,N-dimethyl-N'-(p-methoxybenzyl)-N'-(2-pyrimidyl) ethylenediamine hydrochloride
tocamphylum tocamphyl	diethanolamine salt of tolylmethyl carbinol mono-D-camphoric acid ester
tolazolum tolazoline	2-benzylimidazoline
trichloroethylenum trichloroethylene	
trihexyphenidyl hydrochloridum trihexyphenidyl hydrochloride	1-cyclohexyl-1-phenyl-3-piperidino-1-propanol hydrochloride
trimethadionum trimethadione	3,5,5-trimethyloxazolidine-2,4-dione
tripelennaminili hydrochloridum tripelennamine hydrochloride	N-benzyl-N',N'-dimethyl-N-2-pyridyl-ethylenediamine hydrochloride
tuaminoheptanum tuaminoheptane	1-methylhexylamine
tubocurarinili chloridum tubocurarine chloride	1-tubocurarine chloride
tyrothricinum tyrothricin	
urethanum urethane	ethyl carbamate
vanyldisulfamidum vanyldisulfamide	4'-oxy-5'-methoxy-1-benzylidene-bis-(aminophenylsulfonamide)
vinbarbitalum vinbarbital	5-ethyl-5-(1-methyl-1-butenyl) barbituric acid

## CONDITION OF PATENT APPLICATIONS AS OF JUNE 30, 1955

Total number of pending applications (excluding Designs).....	221,872
Total number of pending Design applications.....	7,018
Total number of applications awaiting action (excluding Designs).....	139,614
Total number of Design applications awaiting action.....	2,747
Date of oldest new application.....	June 1, 1954
Date of oldest amended application.....	Aug. 12, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS	
I. STONE, I. G., CHEMICAL AND RELATED ARTS.....	6, 31, 38, 43, 50, 56, 59, 63, 64.	
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS.....	16, 23, 26, 27, 42, 48, 51, 54, 60, 70.	
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS.....	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.	
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES.....	7, 11, 17, 27, 34, 35, 39, 53, 62.	
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION.....	8, 20, 29, 33, 36, 40, 41, 52, 66.	
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS.....	1, 4, 5, 9, 18, 22, 28, 45, 47.	
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE.....	3, 15, 19, 25, 30, 32, 49, 55, 67.	
DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)		Oldest Application
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage.....	10-7-54	3-20-54
2. (III) HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers.....	12-20-54	8-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions.....	10-4-54	11-16-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.....	10-18-54	11-16-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk-Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.....	11-23-54	4-6-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.....	8-17-54	1-18-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus.....	10-19-54	12-1-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture.....	8-16-54	12-8-53
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines.....	10-25-54	2-2-54
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.....	3-1-55	6-28-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls.....	10-5-54	10-26-53
13. (II) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.....	10-15-54	12-21-53
14. (III) MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.....	12-20-54	1-20-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass.....	10-27-54	3-18-54
16. (II) LOVEWELL, N. L., Television; Telephony; Recorders.....	10-4-54	10-7-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.....	11-15-54	4-2-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.....	10-1-54	10-5-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners.....	6-29-54	2-3-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.....	12-15-54	4-14-54
21. (III) MADER, R. C., Textiles.....	10-20-54	3-1-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.....	12-29-54	2-25-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education.....	6-1-54	8-21-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.....	12-3-54	8-25-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.....	10-1-54	1-4-54
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism.....	11-17-54	6-29-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making.....	12-24-54	5-4-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.....	11-29-54	5-10-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.....	10-4-54	2-23-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.....	1-3-55	1-25-54



DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.....	9-7-54	2-10-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.....	12-2-54	5-18-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.....	9-22-54	1-11-54
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.....	10-4-54	11-20-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.....	12-14-54	2-23-54
36. (V) McFADYEN, A. D., Measuring and Testing.....	12-15-54	7-19-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.....	7-13-54	2-1-54
38. (I) MARMELESTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.....	9-13-54	12-10-53
39. (IV) WEIL, L., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).....	1-18-55	3-8-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.....	1-3-55	5-3-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.....	6-16-54	9-24-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.....	10-18-54	3-15-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).....	9-21-54	11-4-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.....	12-3-54	7-7-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.....	12-15-54	6-9-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.....	7-1-54	8-12-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.....	10-25-54	5-6-54
50. (I) BENGEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber.....	11-22-54	4-12-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.....	10-23-54	3-12-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.....	11-10-54	4-1-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.....	11-19-54	1-4-54
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications.....	9-30-54	1-13-54
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.....	6-4-54	12-31-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.....	11-30-54	4-15-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.....	2-16-55	3-23-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.....	10-26-54	1-4-54
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.....	12-23-54	2-23-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.....	12-10-54	7-1-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.....	11-12-54	4-23-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.....	9-3-54	10-27-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions.....	10-7-54	12-23-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.....	9-15-54	2-2-54
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.....	10-27-54	5-5-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.....	9-22-54	11-19-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.....	6-9-54	9-8-53
DESIGNS: A—BREHM, O. L., Industrial Arts.....	12-7-54	12-13-54
B—ORAY, M. A., Household, Personal and Fine Arts.....	12-30-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during August 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1953*.

Patents..... Numbers 2,125,263 to 2,128,888, inclusive  
Plant Patents..... Numbers 282 to 289, inclusive  
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## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

IN RE LAUNDER ET AL.

No. 6110. Decided April 28, 1955

[— F.2d —; — USPQ —]

- PATENTABILITY—INVENTION—CHANGE OF FORM.  
Rule restated that a mere change of form without any corresponding change in function is not a patentable difference.
- APPEALS TO U. S. COURT OF CUSTOMS AND PATENT APPEALS—ISSUES DETERMINED.  
Held that the fact that tribunals of the Patent Office failed to consider part of the cited patent does not affect its validity as a reference in that respect before the court.
- PATENTABILITY—PARTICULAR SUBJECT MATTER—TOOTH FOR DIGGING IMPLEMENT.  
Certain claims for tooth structure of a digging implement Held properly rejected as unpatentable over the cited art.  
APPEAL from the Patent Office. Serial No. 691,978.  
AFFIRMED.  
*Mead, Broune, Schuyler & Beveridge (Francis C. Broune, William E. Schuyler, Jr., and Andrew B. Beveridge of counsel) for Launder et al.*  
*E. L. Reynolds (S. W. Cochran of counsel) for the Commissioner of Patents.*

Before GARRETT, Chief Judge, and O'CONNELL, JOHN-SON, WORLEY, and COLE, Associate Judges

JOHNSON, J., delivered the opinion of the court.

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting as unpatentable claims 18, 19, 23, 24, 25, 27 through 33, inclusive, and 35 through 39, inclusive, in appellants' application for a patent for a "Digger Tooth Mounting."

The Board of Appeals reversed the Primary Examiner, as to claims 20, 21, 22, 26, and 34 of the application and allowed them. These claims are therefore not before us on appeal, and will not be considered. *In re Thompson and Tanner*, 31 CCPA (Patents), 1121, 143 F.2d 357, 61 USPQ 498.

The alleged invention relates to the construction of a tooth of a digging implement such as a power shovel, scoop, or trenching machine. A tooth having the configuration of a wedge (having two converging faces and two parallel faces adjoining a rectangular base) has the base thereof affixed to the shovel proper. A cap having the shape of a wedge and having a wedge-shaped recess therein is adapted to slip on to said tooth in complementary mating relationship. A hole is formed in each of two parallel faces of the cap. These holes are in axial alignment. The tooth has a bore extending through it from one of its parallel faces to the other. When the cap is slipped on to the tooth, the holes in the cap are not in perfect alignment with the bore in the tooth. A pin is adapted to be forced through the holes and the bore, thus tending to force them into alignment, and thereby forcing the cap to fit snugly on the tooth. The pin is generally cylindrical in overall shape, and consists of two semicylindrical metallic members which are affixed to opposite faces of a piece of resilient material, such as rubber. Because of this

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construction, the resilient material of the pin is compressed when the tooth, cap, and pin are initially assembled. The inventive concept appears to be that the resilient portion of the pin will expand from its compressed condition and cause the cap and tooth to remain in tight contact as the inside of the cap and the outside of the tooth wear relative to each other in use.

Appellants have divided their appealed claims into four groups to facilitate discussion thereof. We will follow their form. Claims 24, 32, 37 and 30 are considered to be representative of each of the following groups under which they appear:

#### Group I

24. A structure of the character described including, an elongate forwardly convergent tooth having a transverse hole extending from one side to the other of the tooth, a cap over the tooth having a body and a housing defining a convergent socket receiving the tooth, the body projecting forward from the tooth and the housing having spaced sides overlying said sides of the tooth and having holes in communication with the hole in the tooth, and a pin entered in the hole in the tooth and in the holes in the housing and including two like elongate sections each uniform in cross section throughout from one end to the other and extending lengthwise of the pin and a resilient body between and connecting the sections substantially throughout the length of the pin maintaining one section in forward pressure engagement with the tooth and the other section in rearward pressure engagement with the cap, the pin corresponding in length with the width of the cap where the holes occur therein. [Italics added.]

#### Group II

32. In combination, two members, one a male member and the other a female member with spaced parts receiving a part of the male member between them, there being holes in the said parts of the female member in communication with a hole in said part of the male member, and a pin including two relatively movable sections entered in said holes and resilient means between the sections yieldingly urging them apart with one section in pressure engagement with said part of the male member and the other section in opposite pressure engagement with the said parts of the female member.

#### Group III

37. In combination, two elongate members, the members having wedge faces cooperatively engaged by relative movement between the members lengthwise thereof, one a male member and the other a female member with spaced parts receiving a part of the male member between them, there being holes in the said parts of the female member in communication with a hole in said part of the male member, and a pin including two relatively movable sections entered in said holes and resilient means between the sections yieldingly urging them apart with one section in pressure engagement with said part of the male member and the other section in opposite pressure engagement with the said parts of the female member, the pin operating the members to maintain said faces cooperatively engaged and corresponding in length to the width of the female member where the holes occur therein and the ends of the pin being substantially flush with the outer sides of said parts of the female member.

#### Group IV

30. A retainer pin of the character described including, two like coextensive longitudinal sections each substantially half round in cross sectional configuration and each uniform in shape from one end to the other, and a single elongate body of rubber between and completely separating the sections and extending from one end of the pin to the other and active to urge the sections apart, the body of rubber being narrower than the sections where they are engaged by the body, the longitudinal edges of the body being spaced inward from the exterior of the pin.

The references which were relied on are: Shaffer, 1,837,341, Dec. 22, 1931; Crawford, 2,259,456, Oct. 21, 1941; Terry, 2,279,960, Apr. 14, 1942; Robertson, 2,435,847, Feb. 10, 1948.

The Crawford patent discloses a device which is called a "bucket tooth unit." In the Crawford structure a wedge-shaped portion of a tooth is adapted to fit into the hole of a wedge-shaped cap in complementary mating relationship. These wedge shapes are of substantially the same configuration as those disclosed in appellants' application. The base of the tooth in the vicinity of the broad portion of the wedge is cut

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away to form a shoulder. The cap has an overhanging extension on its rear portion. When the cap and tooth are in assembled relationship, the overhanging portion of the cap and the shoulder and another portion of the tooth form a wholly enclosed space or groove. A key is adapted to fit into this space to hold the cap on the tooth. The key broadly consists of two metallic members separated by resilient material. One portion of the key bears against the shoulder formed by the base of the wedge while the other portion of the key bears against the overhanging portion of the cap. The resilient material of the key is compressed when the members are assembled, and the key locks the cap on the tooth.

The Terry patent, insofar as pertinent here, discloses a steel retainer key which is generally oval in cross section. The key is formed of two metallic halves which are separated by a strip of resilient material. One end of the key is bevelled and the other end has a lateral wing affixed thereto which acts as a stop member. The key is not used in the same environment as applicants' key since the Terry patent discloses the use of the key in a rock drill.

The patent to Shaffer discloses a digging tooth which is generally wedge-shaped. The tooth has two converging surfaces and two opposing surfaces which are tapered toward each other. Keyways are formed in the converging surfaces. A cap is provided for the tooth. The cap has keys formed therein, and is adapted to fit on the tooth in complementary mating relationship. When the cap and tooth are assembled, a bolt is placed through aligned holes in the tooth and cap to secure them.

The patent to Robertson, insofar as pertinent here, shows a shovel tooth. A cap is adapted to be placed on a wedge-shaped tooth in complementary mating relationship. A tapered pin and split bushing are inserted through aligned holes in the tooth and cap to secure these members.

The Examiner rejected all of the claims now under consideration in Groups I, II, and III as being unpatentable over Robertson and Shaffer in view of Crawford and Terry. He stated that no invention would reside in providing a retaining key of the type shown by Terry or Crawford to maintain the cap on the shank of the structure shown by either Robertson or Shaffer. He further stated that the differences "between the proposed arrangement of structure and the device claimed by appellants, would be but a feature of design or a mechanical expedient well within the skill of the excavating art and devoid of invention." The Examiner rejected the claims of Group IV for the reason that the patent to Terry substantially met the claims. He applied the reference to the claims and pointed out that, in his opinion, any differences between the two were due merely to mechanical skill.

The Board affirmed the Examiner's rejection of the claims here on appeal, and stated, after a complete analysis of all facets of the case, that it was of the opinion that these claims were unpatentable over the references relied on by the Examiner. The Board particularly analyzed the Crawford patent, and stated that the recess formed by the cap and tooth in combination with the pin inserted into said recess was the mechanical equivalent of appellants' communicating holes in the cap and tooth with the resilient pin occupying such holes since the arrangement in the ref-

erence performed substantially the same function as applicants' structure and accomplished substantially the same result. The Board also stated, relative to the claims which it felt to be unpatentable, "It is true that Crawford's resilient pin would not ordinarily take up wear between the cap and tooth because the sides of the cap are maintained against the abutments 5, but we fail to find in the claims any structure defining over the reference whereby such function is possible." The Board also sustained the Examiner's rejection of the claims directed to a resilient key (Group IV) for substantially the same reasons presented by the Examiner.

Before reviewing the above rejections, we deem it necessary to point out the relationship between the claims of Groups I, II, and III. This can best be done by quoting directly from appellants' brief as follows:

The claims of Group II are similar to those in Group I except that the two members to be connected are defined in the claims in Group II as male and female members rather than being defined as a tooth and cap. Otherwise, the claims in Group II include the critical limitations such as the pin including two relatively movable sections with one section in pressure engagement with the male member and the other section in opposite pressure engagement with the female member.

The claims in Group III are generally similar to the claims in Groups I and II but define the male and female members as having wedge faces cooperatively engaged by relative movement between the members lengthwise thereof.

It can be seen from this description that the claims will stand or fall as a group. We will therefore only treat claim 24 specifically, the limitations which differentiate over the Crawford patent being shown in the italicized portions of the claim.

The first of the italicized portions of the claim recites the presence of holes in the cap and tooth whereas the Crawford reference shows a wholly enclosed space or groove. Appellants argue that this difference is patentable. However, both Shaffer and Robertson show the hole structure, as recited in the claims. Furthermore, it must be noted that the references were used in combination by the Examiner. Thus since the aligned hole feature is a common expedient in the prior art, we do not see how the claim can be allowed because of this feature since, as recited in the claim, it is used in the same manner as shown by the references. We also feel, as did the Board of Appeals, that in this particular case the groove of Crawford is the mechanical equivalent of the holes of applicants, especially when these respective items of structure are viewed in the light of the similar manner in which they are used.

[1] The second of the italicized portions of the claim states that the pin has two elongated sections, each of uniform cross section. The Terry patent does not show this exact structure, nor does the Crawford patent. Thus there is a difference between what appellant is claiming and what the prior art shows. However, we feel that the difference is not a patentable difference since it is a mere change in form over what Crawford discloses without any corresponding change in function. *Gleason v. Doach et al.*, 17 CCPA (Patents) 1012, 39 F.2d 687, 5 USPQ 462. Thus we must agree with the Board's statement "The details of the pin \* \* \*, in our opinion, is an unpatentable limitation involving mere mechanical skill, and producing no new or unobvious result."

The third italicized portion of the claim recites that the resilient pin has one portion bearing against the tooth and the other against the cap. Appellants con-

tend that this feature causes the claims to be allowable over Crawford whose resilient pin has one side which bears against the cap while the second side bears against both the tooth and the cap. It seems to us, that since the Crawford pin, as shown on the drawing, appears to have its second side bearing against both the cap and tooth that this side must inherently bear against the tooth. Thus the Crawford structure meets this limitation of the claim. We consider the claim not to define over the reference, and therefore consider it to be unpatentable, it being well settled that the right to patent claims depends on whether the claims adequately recite features upon which an applicant predicates patentability, assuming that these features are patentable. *In re Richards*, 38 CCPA (Patents) 900, 187 F.2d 643, 89 USPQ 64; *In re Bisley*, 39 CCPA (Patents) 982, 197 F.2d 355, 94 USPQ 80. Furthermore, we cannot see how the recitation in the claim defines over the Crawford patent which on page 2, column 1, lines 29 et seq. states:

The forward face or edge of the key 15 thus bears against the front wall 7 of the groove, which wall is of considerable width, while the rear face of the key bears against the forwardly facing shoulder of the lip 13, which shoulder is also of considerable width—in fact equal to the width of the body or base 1; and the surfaces of the front wall and lip shoulder, which are thus engaged by the front and rear faces, respectively, of the key, are directly opposed.

[2] The fact that the tribunals of the Patent Office failed to consider this part of the Crawford patent does not affect its validity as a reference in that respect before this court. *In re Hall*, 41 CCPA (Patents) 759, 208 F.2d 370, 100 USPQ 46. This is especially so in this case since it appears from the record that applicants never presented the foregoing argument to the Examiner or to the Board.

Appellants contend that the claims of Groups I, II, and III are patentable over Crawford since the cap of Crawford is driven as far back as it will go whereas appellants' cap can move back on its tooth as there is

wear between these parts. However, as far as we can see, the claims do not recite any structure which is capable of performing such a function. We must therefore sustain the Board's holding in this respect since it is well settled that if the claims fail to adequately define inventive features by proper limitations, they are not allowable even though the device would support patentable claims. *In re Bisley*, supra; *In re Pinkerton*, 28 CCPA (Patents) 803, 115 F.2d 823, 47 USPQ 468.

We will now review the rejection of the claims of Group IV. As stated above, the claims of this group relate to a retainer pin subcombination, and were rejected on the Terry patent. There can be no doubt that the claims contain limitations which differentiate them from the reference, this, it appears, being appellants' sole argument for patentability. These limitations which appear in various of the claims are that the rubber is narrower than the metal sections; the metal sections are semi-circular in shape; the longitudinal edges of the rubber are spaced inwardly from the exterior of the pin; and that a plurality of rubber bodies are positioned between the outer sections of the pin. We have carefully reviewed these differences over the Terry reference, but we cannot see, and appellants have not shown us, where these differences amount to invention. We must therefore sustain the rejection of these claims, it being well established that if the claims call for limitations which are not shown in the reference, and these limitations are not inventive, the recitation of this matter does not make the claim patentable over the prior art. *In re Bisley*, supra, and cases cited therein.

[3] For the foregoing reasons, the decision appealed from must be affirmed.

AFFIRMED.

WORLEY, J., concurs in the conclusion.

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,063,413, A. H. Turner, Radio frequency control system; 2,149,700, L. R. Kirkwood, Overload control circuit; 2,207,839, W. A. Tolson, Television apparatus; 2,246,659, R. C. Ballard, Separating circuit; 2,254,090, D. W. Power, Cathode Ray Tube envelope; 2,296,307, same, Method of making glass-to-metal seals; 2,412,654, M. Sadowsky, Luminescent screen and method of manufacture; 2,466,784, O. H. Schade, Cathode-ray beam deflecting circuit; 2,478,744, E. L. Clark, Power recovery system, filed Dec. 13, 1949, D. C. Del. (Wilmington), Doc. 1288, *Allen B. Du Mont Laboratories, Inc. v. Radio Corporation of America*. Stipulation and order of dismissal June 5, 1950.

2,149,700. (See 2,063,413.)

2,207,839. (See 2,063,413.)

2,246,659. (See 2,063,413.)

2,254,090. (See 2,063,413.)

2,282,759, L. E. Gavitt, Antenna loop, filed June 20, 1955, D. C., S. D. N. Y., Doc. 101/264, *American Hard Rubber Co. v. A. L. A. Industries, Inc.*

2,296,307. (See 2,063,413.)

2,297,764, Holven and Junk, Prepared fondant sugar and fudge mixture, filed June 16, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18314-T, *California and Hawaiian Sugar Refining Corp. Ltd. v. Edna H. Pagel et al.*

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2,379,504. (See 2,370,759.)

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2,596,808. (See 2,596,806.)

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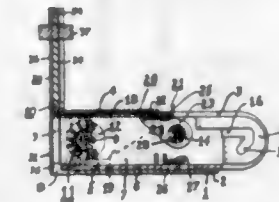
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## PATENTS

GRANTED AUGUST 16, 1955

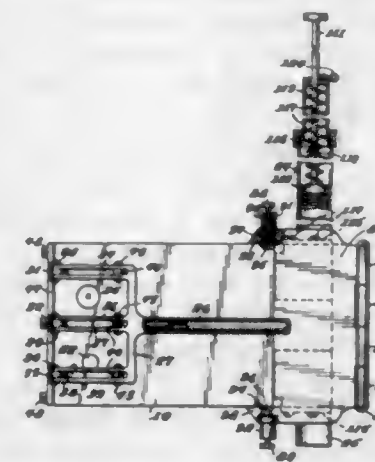
### GENERAL AND MECHANICAL

2,715,220  
FEED MECHANISM FOR STAPLING MACHINES  
Herman J. Spencer, Ingomar, Pa.  
Application March 17, 1954, Serial No. 416,782  
2 Claims. (Cl. 1—49)



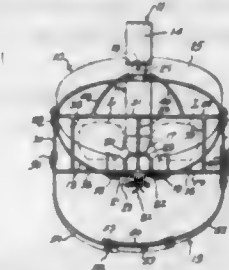
1. In a stapling machine, a magazine, a driving throat at one end of said magazine, a staple guide having one end terminating at said throat, means for holding fasteners in proper alignment on said staple guide, a rotative fastener pusher movable along said staple guide for urging fasteners towards said driving throat, spring means for urging said pusher towards said driving throat, retainer means at the opposite end of said staple guide for releasably holding said pusher against the pull of said spring means, and means at said opposite end of said staple guide cooperating with said pusher whereby the latter can be swung from a staple urging position to a position in which the pusher is inverted and hangs downwardly to thereby permit staples to be fed onto the said opposite end of said staple guide.

2,715,221  
COMBINATION CABLE CUTTING AND END SEIZING MACHINE  
Robert W. Early, Norfolk, Va., assignor of forty per cent to Richard A. Holcombe, Jr., and ten per cent to Clara S. Rossen, Both of Norfolk, Va.  
Application March 27, 1953, Serial No. 345,154  
6 Claims. (Cl. 1—200)



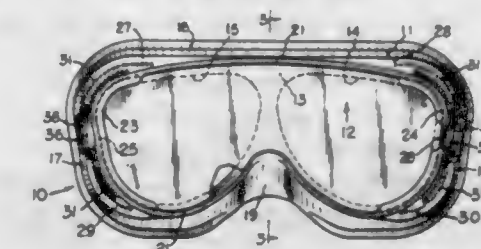
1. In a cable cutting machine, the combination which comprises a casing having a cable receiving opening extended therethrough, a knife positioned to cut a cable extended through said opening, a centrally positioned plunger for operating the knife, plungers spaced from the centrally positioned plunger for driving clips around the cable in the cable opening, manually actuated pumps provided in the casing and positioned to pump fluid under pressure for operating the plungers, and means for relieving the pressure to release the plungers.

2,715,222  
SPECTACLE PROTECTOR  
Theo J. Sowie, Grand Rapids, Mich.  
Application May 21, 1951, Serial No. 227,480  
1 Claim. (Cl. 2—9)



A spectacle protector comprising, a skeleton head gear structure adapted to snugly fit the head and having a side strap for encircling the head at approximately the place of maximum diameter thereof, and having free ends closely approaching but spaced apart from one another at the rear of said head gear structure, said head gear structure also having a single top strap adapted to fitting over the top of the head, said top strap having one end secured to said side strap at the front of said gear structure and a free end closely approaching but spaced apart from the free ends of and from the space between said side straps at the rear of all of said head gear structure, said free ends having apertures therein, an elongated flexible elastic cord having a loop portion passing through said apertures and adjustably and slidably engaging and interconnecting said free strap ends, said cord being adapted to be selectively tied at different locations for providing different sizes of said loop portion whereby to effect different separations of said strap ends to fit different head sizes, the resiliency of said cord causing said straps to snugly and yieldingly grip a particular size of head, the sole connection of said free ends with one another being through said resilient cord when used as a tying element, said free ends being otherwise disposed independent of one another, a protector frame structure having front and side portions secured respectively to the front and sides of said head gear structure, and a chin strap secured at its opposite ends to said structure and adapted to extend under the chin of the wearer.

2,715,223  
GOGGLES  
Raymond F. E. Stegeman and Fred G. Gay, Jr., Greece, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
Application April 24, 1952, Serial No. 284,112  
2 Claims. (Cl. 2—14)



2. In a goggle the combination of an integral body comprising a front wall having a pair of spaced sight openings, a one-piece lens panel removably secured over the sight openings in eye protecting relation and means

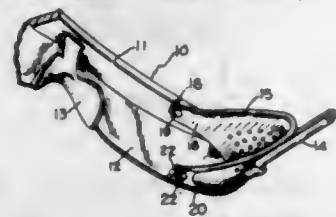


for securing the lens panel to the body member comprising a rib projecting forwardly of the plane of the lens panel and extending continuously around the body member, and inwardly projecting overhanging portions formed on the rib along only the temporal sides of the body to form in cooperation with the front wall lens receiving grooves, the edges of said lens panel abutting said rib and the temporal ends of the lens panel being received within said grooves whereby the forwardly projecting rib prevents flying particles from entering the goggle between the lens panel and the front wall.

2,715,224

**GOGGLES WITH LENS MOUNTED SIDE SHIELDS**  
Earl Morrow, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

Application March 27, 1953, Serial No. 345,011  
4 Claims. (Cl. 2-14)

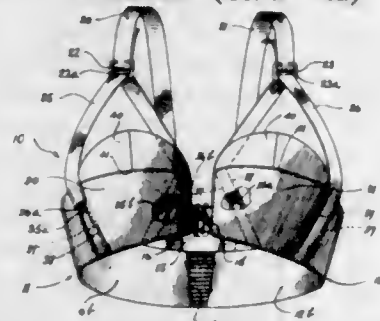


1. In a goggle, the combination of a lens, a brow bar extending only along the upper portion of the lens, means for attaching the lens to the brow bar, a side shield, means for pivotally mounting the upper part of the shield to the brow bar, and means for pivotally mounting the lower part of the shield on the lens comprising a bracket mounted in an aperture in the lower portion of the lens for pivotally supporting the lower part of the shield.

2,715,225

**BRASSIERE**

Olga G. Gould, Seattle, Wash.  
Application April 21, 1953, Serial No. 350,105  
3 Claims. (Cl. 2-42)



1. A brassiere comprising opposite side sections joined at their rearward ends by an elastic strap and detachably joined at their forward ends; each side section including a body band portion and a breast cup; supporting means including a pair of shoulder straps and a pair of breast cup straps each of which is slidably joined intermediate its ends to its respective shoulder strap and each of said breast cup straps being secured at its opposite ends to the upper edge of a breast cup in spaced relationship; a pair of boning stays disposed in each breast cup in an upwardly diverging position and terminating at their upper ends at the place of securement of the opposite ends of the breast cup straps to the upper edge of the breast cup.

2,715,226

**VENTILATIVE GARMENT**

Louis I. Weiner, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of the Army

Application June 11, 1953, Serial No. 361,103  
3 Claims. (Cl. 2-79)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. A ventilative union garment including a body portion, sleeves and legs, said body portion including side

seam lines centrally of opposite sides thereof, said sleeves including sleeve inseam lines comprising extensions of said side seam lines, said legs having leg inseam lines centrally of the insides thereof, ventilative slits formed in said body portion, sleeves and legs in adjacent, offset,



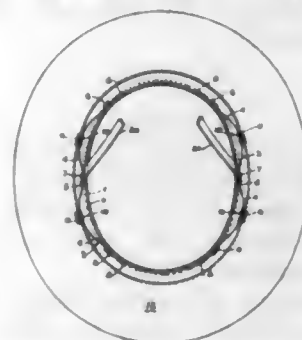
parallel relation to said side seam and inseam lines, separable fasteners normally securing said slits closed, said slits of said body portion and sleeves being disposed rearwardly of said side seam and sleeve inseam lines, and said slits of said legs being disposed forwardly of said leg inseam lines.

2,715,227

**HELMETS**

Maud Louisa Turner, Wheathampstead, St. Albans, England, assignor to Helmets, Limited, Wheathampstead, St. Albans, England, a British company

Application July 22, 1952, Serial No. 300,223  
Claims priority, application Great Britain July 30, 1951  
1 Claim. (Cl. 2-182.1)



A helmet having a headband and a pair of relatively stiff resilient strips of sinuous form secured to the helmet and headband with one of said strips on each side of said headband, each of said strips extending substantially along the sides from the front to the rear of the headband and having two relatively flat arcuate portions extending in the same direction, said arcuate portions having longitudinally extending slots in the summits and the free ends thereof, and fasteners passing through and slidable in said slots and securing said resilient strips to the helmet and headband respectively, whereby the slots allow free relative movement between said strips and said fasteners limited by the lengths of the slots, the fasteners securing the strips to the helmet being snap fasteners permitting detachment of said headband and strips from the helmet.

2,715,228

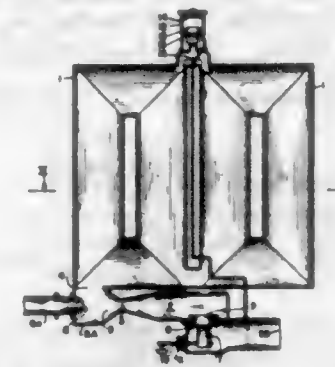
**FLUSHING APPARATUS FOR WATER CLOSETS**

Robert J. McLanahan, Allquippa, Pa.

Application September 20, 1950, Serial No. 185,717  
5 Claims. (Cl. 4-29)

1. A flushing apparatus for water closets having a tank and a bowl, said apparatus comprising a conduit connecting the tank and the bowl whereby water in the tank can be used for flushing the bowl, a Venturi tube in the conduit, a flush valve in said conduit between the

exit end of said Venturi tube and said bowl for controlling the flow of water through the conduit, an ejector adapted to be connected to a source of water under pressure and positioned in the Venturi tube for ac-



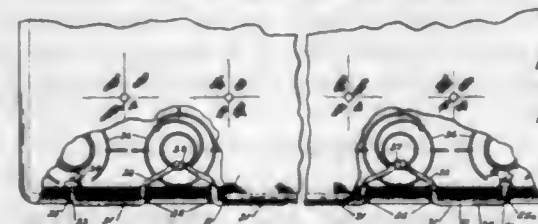
celerating the flow of water through said conduit, means for tilting said flush valve on its seat whereby, when said valve is tilted on its seat, water at increased velocity from the Venturi tube keeps the valve open until the tank is exhausted.

2,715,229

**CONTINUOUS MATTRESS HANDLE**

Jerome Clifton Hirschman, Indianapolis, Ind.  
Application January 30, 1952, Serial No. 269,020

4 Claims. (Cl. 5-345)



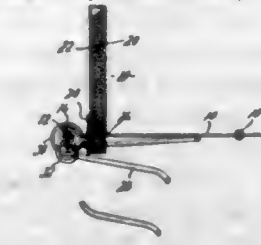
1. For a mattress having an innerspring construction including vertically disposed coil springs and having a side wall enclosing the springs, a handle construction comprising a continuous length of cord carried longitudinally along a major length of said side wall and intermediate to top and bottom edges of the wall, a plurality of grommets fixed in said wall and spaced therealong in a line defining the positioning of said cord, the cord being threaded slidably in and out through said grommets to have alternate lengths inside and outside along said wall, the ends of the cord being secured against withdrawal through grommets near the ends of said wall, and said cord having said inner disposed lengths in each instance engaging one of said coil springs which is spaced between the grommets defining the inner cord length, whereby pulling on one of said outer lengths will increasingly yieldingly be resisted by one of said coil springs one after another, the cord being snubbed in bending around said grommets.

2,715,230

**PADDING SUPPORT FOR SPRING MATTRESS STRUCTURES**

Eugene J. Hood, Carthage, Mo., assignor to Flex-O-Lators, Inc., Carthage, Mo., a corporation of Missouri  
Application November 7, 1951, Serial No. 255,201

1 Claim. (Cl. 5-354)



A substantially rectangular padding support for spring mattress structures comprising a plurality of spaced apart, longitudinally extending strands and a plurality of spaced

apart, transversely extending strands connected to said longitudinal strands to form a net, and an elongated, flattened padding member comprising a filler pad and a cover sheet disposed about said pad, the edge portions of said cover sheet overlapping adjacent one longitudinal edge of said pad, said padding member being disposed parallel to and adjacent the longitudinal strand at one edge of said support structure, said transverse strands extending through said padding member adjacent one longitudinal edge thereof so as to pierce the overlapping edge portions of said cover sheet.

2,715,231

**FLEXIBLE BUOYANT ARTICLE**

Oliver F. Marston, Richmond, Va.

Application September 3, 1953, Serial No. 378,354  
4 Claims. (Cl. 9-17)



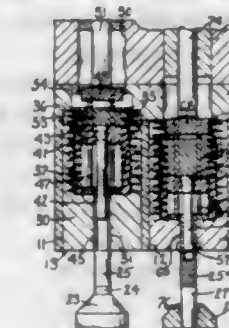
1. A buoyant, flexible filler pad comprising a plurality of strip portions arranged in laterally disposed relation, each said strip portion comprising a tube of flexible thermoplastic resinous material having opposed parts of the tube wall completely united together in fluid sealing relation at spaced intervals to form an individually sealed link section between each adjacent pair of sealed parts, each said sealed part of one strip portion being arranged in laterally aligned relation to a sealed part of an adjacent strip portion to form a plurality of laterally disposed rows of aligned sealed parts in said pad, and a connecting strip overlying each said row of sealed parts and united to each sealed part in said row, each said link section being in spaced relation to adjacent link sections of laterally disposed strip portions to provide fluid circulating openings therebetween extending perpendicularly through said pad.

2,715,232

**PUNCH AND DIE APPARATUS WITH STRIPPER MECHANISM**

Francis J. Egan, Cheshire, Conn., assignor to The Cold Forming Manufacturing Company, Cheshire, Conn., a corporation of Connecticut

Application June 15, 1950, Serial No. 168,336  
4 Claims. (Cl. 10-11)



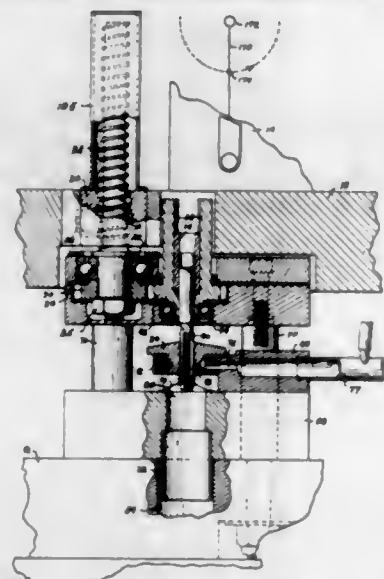
1. In a mechanism of the class described, a die holder, a die movably mounted in the holder and provided with a die opening, said die having a rearwardly facing hollow portion, a plurality of springs between said die holder and said die to urge said die in a forward direction, a cup-shaped member supported in the hollow portion of the die and facing in a forward direction, said cup-shaped member being provided with a plurality of open-ended slots guiding said springs, a knock-out sleeve mounted in said cup-shaped member and extending into the die opening, a plurality of guide members secured to said knockout sleeve and slidably projecting in a rearward



direction through the bottom of said cup-shaped member, a knockout pin, and means secured to said guide members for engagement by the knockout pin.

**2,715,233**  
**PUNCH PRESS OPERATED SCREW CUTTING TOOL**

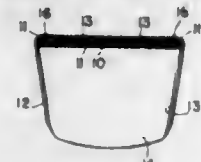
Kendall Clark, Glen Ellyn, Ill.  
Application April 12, 1950, Serial No. 155,430  
3 Claims. (Cl. 10—129)



1. In a punch press, a stationary bed, a stationary die shoe element, means for removably supporting the stationary die shoe element in fixed spaced relation to said bed, a movable ram, a movable die shoe element arranged in the path of said ram, a screw cutting element, means carried by said stationary die shoe element for rotatably supporting said screw cutting element, said last mentioned means comprising means for slidably supporting said screw cutting element, a power conversion assembly comprising a reciprocating driving member and a complementary rotary driven member, said driving member being secured to said movable die shoe element so as to move in unison therewith, means on said stationary die shoe element for rotatably supporting said driven member without axial movement thereof, and means for transmitting power from said driven member to said screw cutting element, said screw cutting element comprising a tap, a threaded tap guide for engaging the threads of the tap, a pressure pad removably supported on said bed, said pressure pad supporting the work, and means on the pressure pad for supporting said tap guide in fixed spaced relation with respect to the work.

**2,715,234**  
**METHOD OF MAKING FOOTWEAR AND THE FOOTWEAR THEREBY PRODUCED**

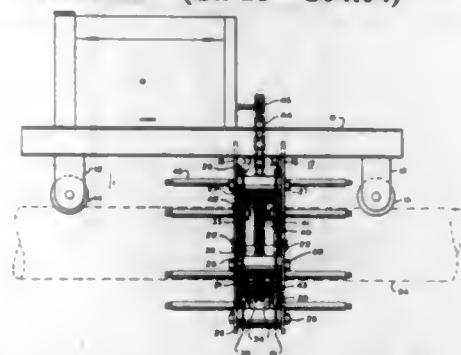
Abraham Wasserman, Brooklyn, N. Y.  
Application July 12, 1954, Serial No. 442,508  
1 Claim. (Cl. 12—142)



A method of making a shoe or slipper comprising providing an upper with an adhesively united fabric lining, assembling therewith an insole having secured thereto a fabric sock lining of larger size than the insole to provide an extending peripheral portion, stitching the peripheral portion of the sock lining to the upper just beyond the peripheral edge of the insole, wiping in the peripheral portion of the upper on to the underside of the insole and adhesively securing said upper portion to the insole, and thereafter finishing said shoe.

**2,715,235**  
**PIPE CLEANING MACHINE ADJUSTABLE FOR PIPE SIZE AS TO TOOL SPEED, ANGLE, AND PRESSURE**

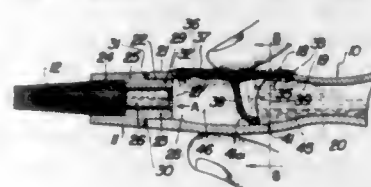
Robert A. J. Dawson, Houston, Tex.  
Application April 28, 1949, Serial No. 90,253  
16 Claims. (Cl. 15—104.04)



10. A pipe cleaning machine including a support, an annular bearing mounted thereon, a tool carriage ring rotatably mounted in said bearing, a plurality of tool support rods carried by said tool carriage ring and extending axially therefrom and each held against rotation about its own axis with respect to said ring, a plurality of tool holders rotatably mounted on each of said rods for rotation in planes perpendicular to the ring axis, and separate means to bias each of said tool holders toward the ring axis including a plurality of torsion coil springs disposed around each rod with the coils of each spring coaxial with the rod, means operatively connecting each spring at one point to one of the tool holders on the rod and at another point to the rod.

**2,715,236**  
**LIQUID EJECTOR AND APPLICATOR**

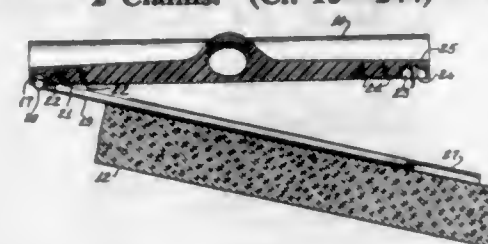
Jack Tereno, Brooklyn, N. Y.  
Application April 7, 1953, Serial No. 347,363  
2 Claims. (Cl. 15—136)



1. In an ejector device, a casing having therein a fluid-containing chamber and an outlet portion, and an ejector and valve member of resilient material and comprising a depressable disc portion disposed in the wall of the casing and a valve partition extending downwardly from said disc portion transversely into said chamber and disposed intermediate the extent thereof to divide said chamber into a forward discharge compartment and a rear storage compartment, said member being movable between an inoperative retracted position, when the said disc portion is in its normal undepressed condition, and an operative projected position when the disc portion is in its depressed condition, said partition being proportioned to extend entirely across and engage the adjacent inner wall of the chamber along the entire periphery of the partition to completely separate said forward and rear compartments when the said member is in its said projected position, a peripheral portion of said partition being spaced from said inner wall of the chamber to provide a passageway between the two said compartments when the member is in its said normal inoperative position, said disc portion being of substantially elliptical peripheral contour, said partition extending transversely across the minor axis of the disc portion, the bottom part of the partition being curved rearwardly and away from said outlet portion and being spaced from the bottom surface of the said chamber to provide said passageway between the two said compartments when the member is in its said normal inoperative position.

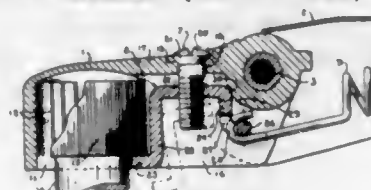
**2,715,237**  
**SPONGE TYPE MOP HAVING A DETACHABLE HEAD**

Joseph H. Trindl, Chicago, Ill.  
Application July 8, 1950, Serial No. 172,654  
2 Claims. (Cl. 15—244)



1. In a cleaning device, a mop head having a flat bottom surface, a cleaning element comprising a block of cellulose sponge material adapted to abut the flat bottom surface of said mop head and be secured thereto, means securing said block of cellulose sponge material to said mop head comprising a fabric sleeve secured to and extending along the top of said block of cellulose sponge material and open to each end thereof, an open frame adapted to extend within said sleeve and beyond opposite ends thereof, the flat bottom surface of said mop head having a recessed portion extending thereabout adjacent the margins thereof and conforming substantially to the form of said open frame, means pivotally connecting one end of said open frame to said mop head to extend within the recessed portion thereof, and clip means securing said frame to extend within the recessed portion of said mop head and clipping said frame to maintain tension on said sleeve to hold the block of cellulose sponge material tightly in engagement with the flat bottom surface of said mop head by the tension maintained on said sleeve by said open frame.

**2,715,238**  
**WINDSHIELD WIPER ARM**  
Fred A. Krohm, Gary, Ind., assignor to Productive  
Inventions, Inc., a corporation of Indiana  
Application March 21, 1951, Serial No. 216,779  
5 Claims. (Cl. 15—255)



1. A windshield wiper arm assembly adapted to be attached to a drive shaft provided with an enlargement, said assembly comprising a housing adapted to receive the enlargement, manually operable means mounted on said housing for adjustment, a locking element for engaging the enlargement arranged in the housing and carried by said manually operable means, said assembly including an outer arm unit pivotally connected to the housing, and a spring having one end connected to the outer arm unit and its other end to the locking element, said manually operable means when operated in a certain way serving to actuate the locking element to engage the enlargement and increase the tension of the spring.

**2,715,239**  
**WINDSHIELD WIPER TENSIONERS**  
Henry A. Mintz, Norwood, Mass.  
Application March 20, 1952, Serial No. 277,634  
5 Claims. (Cl. 15—255)

1. A tensioner for a windshield wiper arm comprising a strip of stiff spring material, a block rigidly secured to one end of said strip, said block having a longitudinal bore formed therethrough, the cross-sectional area of said bore being of a size to receive a flat windshield wiper arm,

said block being formed with a single limited access slot into said bore, the width of said slot being less than the width of such wiper arm and slightly larger than the thickness of such wiper arm and the cross-section of said bore being wider than said slot and of a width sufficient



to permit rotation of said wiper arm therein through an angle of substantially ninety degrees, said strip being bowed in the plane of said access slot whereby said tensioner may be mounted securely on such wiper arm by inserting such arm through said slot and rotating the tensioner through substantially a right angle.

**ERRATUM**

For Class 15—255 see:  
Patent Nos. 2,715,728—9

**2,715,240**  
**REVERSIBLE SUCTION CLEANING TOOL**  
Ruth A. Pieper and George E. Pieper, Milwaukee, Wis.,  
assignors to Electrolux Corporation, Old Greenwich,  
Conn., a corporation of Delaware  
Application June 8, 1951, Serial No. 230,464  
3 Claims. (Cl. 15—415)



1. In a reversible suction cleaning tool, an elongated hollow body formed with an inlet opening at one end and with an outlet opening at the other end, said body being curved between said ends so that one end is angularly offset relative to the other end, the part of said body adjacent to said inlet opening having a substantially rectangular cross-section with one pair of side walls normal to the axis about which said body is curved, a member having a wall portion and side skirt portions, and means for pivoting said skirt portions to the other pair of side walls of said body closely adjacent to said inlet opening, said member being pivoted about the end of said body to selectively provide a nozzle opening extending from and substantially in the plane of either of the walls of said one pair of said walls.

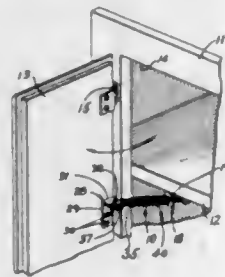
**2,715,241**  
**COMBINED DOOR CLOSER AND RETAINER DEVICE**

Richard G. Carlson, San Gabriel, Calif.  
Application November 17, 1953, Serial No. 392,622  
8 Claims. (Cl. 16—65)

1. A combined door closer and retainer for use in connection with a cabinet or the like having a front open-



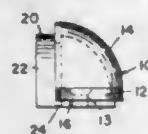
ing and a door hinged to the cabinet for closing the opening, comprising: a swivel element pivotally mountable within the cabinet for pivotal movement in a plane extending normal to the plane of the door, said element having a bearing aperture arranged with its axis normal to the pivotal axis of the element; a bracket securable against the door; a plunger having a head at one end pivoted to said bracket, said plunger being slidable in said bearing aperture; and a coil spring surrounding said plunger between said swivel element and said bracket, the pivotal connection of said plunger to said bracket being movable in an arc concentric with the axis of the door hinge when the door is swung to open and closed po-



sitions and movable in both directions across a line passing through the axis of the door hinge and the pivotal axis of said swivel element, said spring having a fully extended length less than the distance between said head and said swivel element when the door is in its open position, said spring being engageable and compressible axially between said head and said swivel element during closing movement of the door and said pivotal connection being movable inwardly across said line as the door approaches its closed position to allow axial expansion of the compressed spring so as to cause the spring to exert a force against said head in a direction to mechanically complete the closing movement of the door and to yieldingly retain the door in its fully closed position.

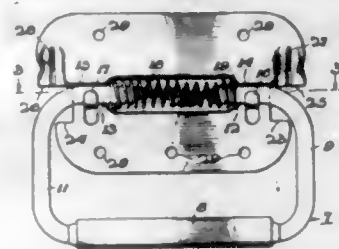
#### 2,715,242 DOOR STOP

Erwin J. Smith, Detroit, Mich., assignor to Precision Hardware, Inc., Detroit, Mich., a corporation of Michigan  
Application October 1, 1951, Serial No. 249,157  
6 Claims. (Cl. 16—86)



6. A door stop comprising a rigid member having a hollow downwardly and laterally open portion, means for securing said member on a supporting surface, a rubber door bumper member of a shape dimensioned to snugly fit within the hollow portion of said rigid member in the natural uncompressed and undistorted condition of said bumper member, said bumper member being disposed within the hollow portion of said rigid member in surface to surface contacting relation therewith and completely filling the same, said bumper member projecting laterally from the laterally open side of said hollow portion and having a downwardly extending portion dimensioned to extend below the open bottom of the hollow portion of said rigid member to compress said bumper member when said rigid member is drawn down tightly against a supporting surface, one of said members having a projection adjacent the laterally open side of said hollow portion and the other of said members having a recess receiving said projection, thereby to resist forces tending to separate said bumper member from said rigid member.

2,715,243  
HANDLE ASSEMBLY  
Andrew J. Koll, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware  
Application June 1, 1953, Serial No. 358,742  
2 Claims. (Cl. 16—126)



1. An improved handle assembly comprising, in combination, an integral bracket plate shaped from a deformable metal blank having along the central portion thereof a substantially straight open-ended channel which extends transversely across the plate and is open for its entire length toward the inner side of the plate, a hand grasp of generally over-all rectangular formation having a cross bar and a pair of side arms terminating in intumed free ends disposed in the opposite extremities of said channel, a coiled biasing spring connected between the free ends of said side arms and having one of its ends anchored to one of said side arm ends and the other of its ends engaging said plate, said channel extremities being reduced in width and depth with respect to the intermediate portion of the channel to provide bearing surfaces for the intumed ends of said arms, the reduced extremities of the channel being open to the inner side of the plate for a width greater than the outside diameter of said intumed ends of said side arms and the intermediate portion of said channel being open to the inner side of said plate for a width greater than the outside diameter of said spring to enable the hand grasp to be pre-shaped and together with the spring assembled to the plate by insertion in the channel from the inner side of said plate without bending or deforming the hand grasp, and a pair of tabs punched out of the plate adjacent the reduced extremities of said channel and bent over said side arm extremities to complement said first-named bearing surfaces and retain the hand grasp and spring against displacement with respect to the plate.

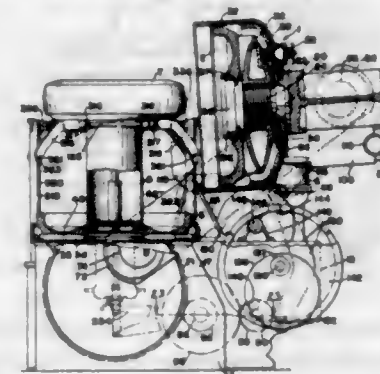
#### 2,715,244 APPARATUS FOR PROCESSING A TRAVELING PELLICLE

Clinton W. Tasker, Delaware County, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware  
Application July 5, 1952, Serial No. 297,243  
4 Claims. (Cl. 18—1)



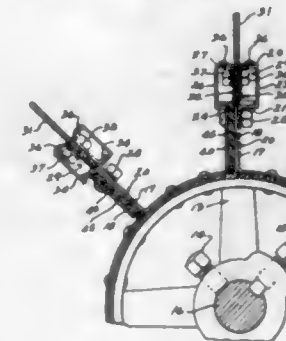
1. Apparatus for processing a continuously moving transparent material comprising a vat through which the transparent material passes during a liquid treating operation thereof, an enclosed box which extends across the width of the vat beneath the continuously moving transparent material; the top of the box including contiguous sheets of opal and light polarizing material; a source of light energy within the box; a catwalk extending over the vat between opposite sides thereof; a bearing which is secured to the catwalk adjacent each extremity thereof; a vertically disposed rack member slidably positioned in each of the bearings; another light polarizing sheet secured to the lower extremities of the rack members; and means which cooperate with the teeth of the rack members to adjust the vertical disposition of the same.

2,715,245  
PRESS FOR SHAPING AND CURING  
PNEUMATIC TIRES  
Leslie Edward Soderquist, Akron, Ohio, assignor to The McNeil Machine & Engineering Company, Akron, Ohio, a corporation of Ohio  
Application February 5, 1952, Serial No. 269,943  
30 Claims. (Cl. 18—17)



21. In a press for shaping and curing flat tire bands into tire form, a lower mold and a movable upper mold, means to move the upper mold toward and from the lower mold, a band shaping diaphragm located centrally of the lower mold, upper and lower diaphragm rings secured to the upper and lower edges of the diaphragm, a piston rod attached at its upper end to the upper diaphragm ring, a cylinder for said piston rod movable axially through the lower mold, links attached to the lower diaphragm ring, a lever connected to said links, means actuated during the opening of the press to operate the lever first to lift the lower diaphragm ring and the tire out of the lower mold and then to return the lower diaphragm ring, and means to admit fluid pressure to the cylinder to raise the upper diaphragm ring to complete the stripping of the diaphragm from the tire.

2,715,246  
AIR SEAL FEEDER  
Donald W. Van Doorn, Columbus, Ga., assignor to Lummus Cotton Gin Company, a corporation of Georgia  
Application October 1, 1952, Serial No. 312,480  
7 Claims. (Cl. 19—75)

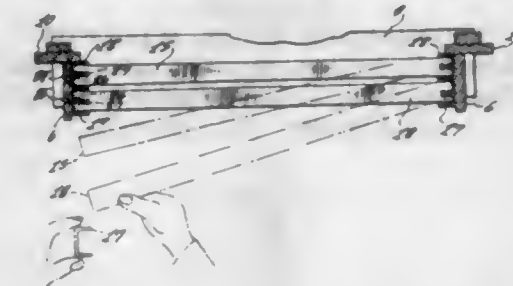


1. In a vacuum feeder including a housing and a rotary wheel having a plurality of radial longitudinally extending staves forming with the wheel a plurality of buckets with sealing flaps along the edges of the staves, a pair of facing metal strips forming each of the staves, a pair of facing channels along the radial edges of the strips forming a longitudinal slot in each stave, and flap retaining means carried by the flaps forming interlocking joints with the slots relatively movable longitudinally of the staves and limiting radial movement of the flaps.

2,715,247  
SAFETY WINDOW CONSTRUCTION  
James Breeze, Stewart Manor, N. Y.  
Application May 29, 1951, Serial No. 728,862  
1 Claim. (Cl. 20—52.2)

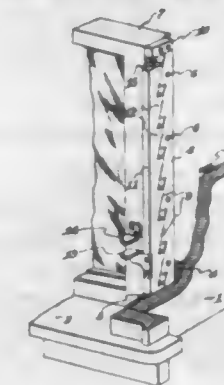
A safety window construction comprising a frame having a sill, in combination with a pair of vertical outer sash guide angles connected to the frame sides by means of

screws and extending from adjacent the sill to adjacent the top of the frame, an upper transverse channel member abutting the upper transverse portion of the said frame and having interlocking means for removably retaining the said transverse channel member by means of the said guide angles, a second pair of inner sash guide channels attached to the said frame by means of screws and parallel to the outer angles and forming therewith outer channels, a pair of sashes, one slidable in the so formed outer channels and one slidable in the inner channels whereby removal of the screws holding one inner sash guide channel permits the removal of both sashes, a lower



transverse angle-shaped member, the horizontal leg of the said lower transverse member abutting the sill with the other leg extending normally thereto and upwardly and inwardly of the said sill, and the said lower transverse member having interlocking means for removably retaining the said lower transverse member by means of the said inner guide channels, an intermediate vertical weather strip extending from the horizontal leg of the said lower transverse member to coact with a groove in the said sash bottom, the bottom portion of the said lower transverse member forming an acute angle with the surface of the said sill.

2,715,248  
WEIGHTLESS WINDOW SASH  
Edmund W. Skarke, Tulsa, Okla.  
Application August 28, 1952, Serial No. 306,770  
1 Claim. (Cl. 20—52.6)



The combination with the side of a window frame having spaced apart inner and outer stops and with the side of a sash slidably mounted between the stops, of means for holding the sash in adjusted positions between the stops, said means including a block mounted transversely on the side of the sash, coplanar side by side complementary strips carried by the side of the sash and each having one of their ends disposed adjacent the block, one of the strips being fixed to the side of the sash and the other being movable axially and laterally on the side, said strips having confronting faces provided with engaging wedge portions which, in one axial direction of movement of the movable strip, bind the strips against the stops and, in the opposite axial direction of movement of the movable strip, permit the movable strip to move laterally toward the fixed strip, said movable strip having an axial bore in the end adjacent the block, an expansion spring seated in said bore and engaging the block to bias the movable strip away from the block in the axial direction of engagement of the wedge portions to force the movable strip laterally from the fixed strip, a finger engaging member extending outwardly from the sash at right angles to the side of the

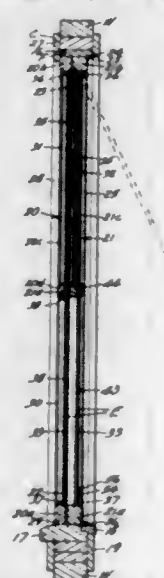


sash and a second finger engaging member carried by the movable strip and projecting from the face of the strip opposite to the face provided with the wedge portions, said finger engaging members being in opposed relation so that when the finger engaging members are gripped and the second member moved relative to the first member, the movable strip is moved axially in opposition to the spring and is permitted by the wedge portions to move laterally toward the fixed strip and out of binding engagement with one of the stops.

2,715,249

## SWINGABLE BOOK WINDOW

George R. Nelson, Sr., Almelund, Minn.  
Application, April 7, 1954, Serial No. 421,577  
11 Claims. (Cl. 20-55)

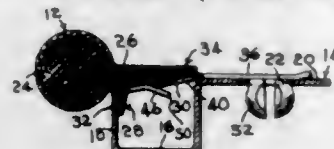


1. In a window assembly having a frame, the combination of a pair of adjacent window sashes adapted to be mounted in such a frame and being swingably connected together to swing relative to each other, each of said sashes having at least one slidably openable pane mounted therein, and one of said sashes being adapted to be swingably connected to said frame for swinging said sashes out of such a frame.

2,715,250

## FASTENING DEVICE

William A. Bedford, Jr., North Scituate, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Boston, Mass., a corporation of Delaware  
Application August 1, 1951, Serial No. 239,815  
1 Claim. (Cl. 20-69)

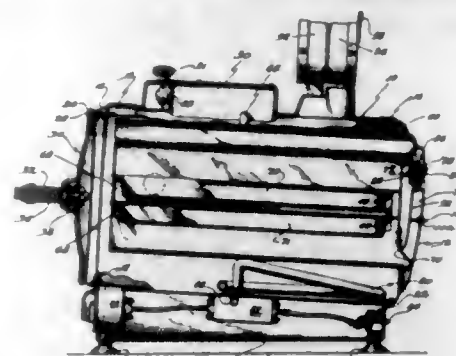


A fastener assembly, comprising a support having an opening adjacent an edge thereof, a weather strip member disposed along the edge of the support, said weather strip member comprising a longitudinal sealing portion and a collateral web portion for attachment to the support, and a fastening device attaching the web portion to the support, said fastening device comprising a flat body portion and a pair of laterally spaced legs extending from one end of the body, said legs being initially in substantially the same plane and being flexed into position on opposite sides of the web, means on at least one of said legs engaging the web, and a snap fastener stud drawn from the metal of the base, said stud being disposed in snapping engagement in the opening in the support and maintaining the base flatwise against the support and maintaining the legs bearing against opposite sides of the web.

2,715,251

## AUTOCLAVE

Alfred Vischer, Jr., Park Ridge, Ill.  
Application August 31, 1951, Serial No. 244,629  
7 Claims. (Cl. 21-98)

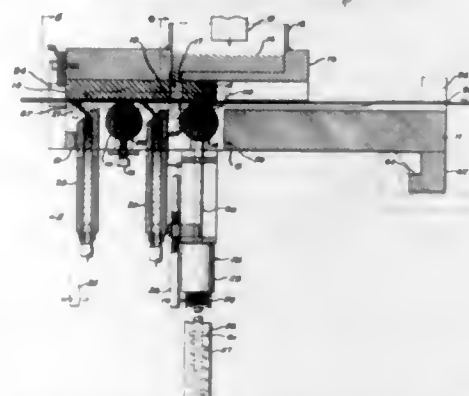


1. In a sterilizer comprising a container having means for supplying heat thereto to cause the formation of steam under pressure, the combination of means forming a valve chamber communicating with the interior of the container and having a valve opening to the atmosphere, a thermostatic bimetal strip, a valve in a valve disc holder for closing the valve opening, means for mounting one end of said bimetal strip in said chamber so that deflection of said strip causes movement of said valve to and from said valve opening, means for securing the valve disc holder to the bimetal strip providing for limited universal movement of the valve disc relative to the strip, and means for preventing such universal movement comprising a resin having adhesive qualities and having a melting point of approximately 190° F. adhering to both the bimetal strip and the valve disc holder.

2,715,252

## CONTINUOUS CASTING APPARATUS FOR ALUMINUM ONTO METALLIC STRIP MATERIAL

Ralph A. Schaefer, Cleveland, and Wilbert H. Morrison, East Cleveland, Ohio, assignors to Clevite Corporation, a corporation of Ohio  
Application June 21, 1951, Serial No. 232,702  
4 Claims. (Cl. 22-57.2)



1. In an apparatus for continuously casting and bonding molten aluminum or aluminum alloys at a temperature of about 1350° F. onto horizontally moving metal strip material, the combination of: a bottom die member of heat and thermal shock resistant material having an opening in one end thereof, spaced apart bottom rails mounted on said bottom die member adjacent said opening for supporting the moving metal strip to close the top of said opening; a pouring box; a top die member of heat and thermal shock resistant material mounted above said bottom die member and underneath said pouring box, spaced apart top rails connected to said top die member for engaging the upper surface of said moving metal strip opposite the location where the bottom rails engage the bottom of the strip, said top die member having a recessed cavity in its underneath surface adjacent the path of said metal strip and having a casting opening therethrough communicating with said pouring box, a sizing die member of heat and thermal shock resistant material and resistant to chemical reaction with the molten material mounted in the recessed cavity of said top die member, said sizing die member having a casting opening registering with the casting opening in said top die member and extending to a location adjacent the top surface of said metal strip as the metal strip moves forward through the die for applying molten metal from the pouring box to the moving metal strip, said sizing die member having a cavity in its underneath surface of the approximate thickness of the metal to be cast on the strip for limiting the amount of molten metal deposited on the moving strip and having a portion extended in the forward direction of motion of the metal strip parallel to said strip and spaced from said strip by the approximate thickness of the metal to be cast on the strip; quenching means mounted a substantial distance below said strip and in a line across the strip and comprising one or more nozzles directed up into the said opening in the said bottom die member and adapted to direct cooling fluid against the underneath surface of said moving strip at a location immediately forward of the location of the casting opening and beneath the extended portion of the sizing die member whereby molten metal cast upon the top surface of the strip is quenched while it is in an enclosure comprised of said top, bottom and sizing die members and said top and bottom rails substantially to prevent chemical reaction between said moving metal strip and said cast metal.

material and resistant to chemical reaction with the molten material mounted in the recessed cavity of said top die member, said sizing die member having a casting opening registering with the casting opening in said top die member and extending to a location adjacent the top surface of said metal strip as the metal strip moves forward through the die for applying molten metal from the pouring box to the moving metal strip, said sizing die member having a cavity in its underneath surface of the approximate thickness of the metal to be cast on the strip for limiting the amount of molten metal deposited on the moving strip and having a portion extended in the forward direction of motion of the metal strip parallel to said strip and spaced from said strip by the approximate thickness of the metal to be cast on the strip; quenching means mounted a substantial distance below said strip and in a line across the strip and comprising one or more nozzles directed up into the said opening in the said bottom die member and adapted to direct cooling fluid against the underneath surface of said moving strip at a location immediately forward of the location of the casting opening and beneath the extended portion of the sizing die member whereby molten metal cast upon the top surface of the strip is quenched while it is in an enclosure comprised of said top, bottom and sizing die members and said top and bottom rails substantially to prevent chemical reaction between said moving metal strip and said cast metal.

2,715,253

## DETACHABLE BUTTON

Katie Velma Martin, Hopkinsville, Ky.  
Application December 11, 1953, Serial No. 397,669  
1 Claim. (Cl. 24-108)



A button of the character described comprising: a female member for mounting on a garment, said female member including a disk on one side of the garment and comprising an integral, centrally located tubular connector projecting therethrough and including a substantially bulbous intermediate portion providing a socket and an inner end portion providing a neck having diametrically opposite slots therein immediately adjacent the disk, an apertured disk on the other side of the garment fixed on the free end portion of the connector, said disks comprising intumed peripheral flanges gripping the garment therebetween, a spring in the first-named disk engaged in the slots, and a male member removably mounted on the female member, said male member comprising a disk and a headed stud thereon insertable in the socket through the neck for frictional engagement with the spring to be releasably anchored thereby in the socket, and an ornamental head on the third-named disk.

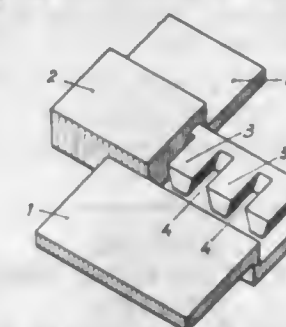
2,715,254

## SLIDING CLASP FASTENERS

Franz Tschappu, Zurich, Switzerland  
Application November 19, 1952, Serial No. 321,302  
3 Claims. (Cl. 24-205.12)

1. A separable interlocking fastener comprising, in combination, two symmetrical fastening elements of flexible material with overlapping edges, each fastening element consisting of a tape carrying a series of transverse, uniformly spaced projections having a narrowed base, the projections being arranged in a longitudinal groove along the edge of each tape, the projections and the spaces therebetween being congruous, whereby the

projections of one tape are adapted to interlock transversely with the projections of the other tape, and the projections being spaced from an adjacent longitudinal

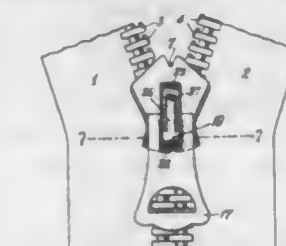


side wall of the longitudinal groove to leave a longitudinal recess wherein a corresponding side wall of the longitudinal groove of the symmetrical fastening element fits.

2,715,255

## AUTOMATIC LOCK SLIDER FOR FASTENERS

Robert C. Legat, New Britain, Conn., assignor to The G. E. Prentice Mfg. Co., Kensington, Conn., a corporation of Connecticut  
Application January 31, 1951, Serial No. 208,733  
5 Claims. (Cl. 24-205.14)



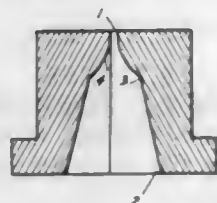
1. An automatic lock slider for separable fasteners comprising a slider body having an interior channel and the outer plate of which is provided with a lug extending longitudinally of the slider body and formed to provide a longitudinally extending guideway, a pull tab for moving said slider body in a longitudinal direction on a fastener and having a transverse portion extending into the guideway of the lug to permanently connect such pull tab to the lug and to permit pivotal and longitudinal movement of said pull tab relative to said slider body in the operations of the slider, said slider body together with its lug and said pull tab constituting a complete operative slider, a unit member constituted of a single piece of spring metal material and formed to provide a hollow housing, a locking projection and a spring finger, the hollow housing being mounted on said lug and being pivotally connected to said lug for rockable movement thereon, one of the side walls of said housing having integral therewith a locking projection extending through an aperture in the outer plate of said slider body and movable into and out of engagement with fastener elements in the channel of said slider body in the rocking movements of said housing, said housing having a longitudinally extending recess in its side through which the transverse portion of said pull tab extends into sliding connection with the guideway of said lug, said recess being located between the pivotal axis of the housing and the locking projection thereof and restricting the longitudinal movement of such transverse portion to a distance less than the length of said guideway, the edge of the recess coacting with said transverse portion to rock the housing outwardly when a pull is exerted on said pull tab, and said transverse portion coacting with said lug guideway to limit the outward pivotal movement of said housing relative to said lug by said pull tab, and a spring finger formed out of the material of the outer wall of the housing connecting the side walls thereof and being separate from said lug, said spring finger being integrally connected to the outer housing wall on the side of the pivotal axis of the housing on which the locking projection is located, extending over the outer



surface of said lug generally longitudinally of the slider and over such pivotal axis of the housing, and at its free end engaging the outer surface of the lug on the other side of such pivotal axis, said spring finger through such engagement of the free end thereof with the outer surface of the lug coating with such surface to normally yieldably hold said locking projection in engagement with the locking elements when the pull on said pull tab is released.

#### 2,715,256 APPARATUS FOR MAKING THIN CERAMIC PLATES

Paul F. Siegrist, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania  
Application March 19, 1952, Serial No. 277,350  
2 Claims. (Cl. 25-17)



1. Apparatus for making thin flat ceramic plates having a thickness when fired of the order of 10 mils, comprising an extruder for the plastic ceramic mix having a die with an extruding orifice having a width and thickness equal to the corresponding dimensions of the fired plate plus the firing shrinkage, said orifice having upper and lower sides defining the thickness and ends defining the width, said die having a throat upstream wider and thicker than the orifice and tapering down in cross-sectional area toward the orifice, the rate of taper of the throat opposite the center of the orifice being initially faster than that required to meet the upper and lower sides of the orifice and thereafter smoothly merging into such sides and providing a friction increasing restriction in the throat opposite the center, the rate to taper of the throat opposite the ends of the orifice between the upper and lower sides most remote from the center of the orifice being initially slower than that required to meet the upper and lower sides and ends of the orifice whereby the throat remains wider and thicker than the orifice until just behind the orifice and thereafter smoothly merging into such ends by fillets connecting the throat to the upper and lower sides and ends of the orifice at the corners where the sides and ends meet and providing a friction relieving section in the throat opposite the ends of the orifice, and the rate of taper of the throat opposite portions of the orifice being intermediate that at the center and ends, the taper of the throat on each side of the center but less remote than the ends being adjusted so the friction in the throat upstream of the orifice plus the friction in the orifice is constant across the width of the orifice and all particles extruded through the orifice travel at substantially the same speed.

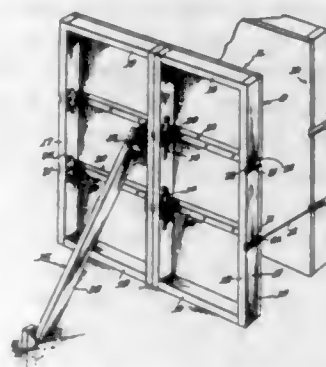
#### 2,715,257 BRACE ARRANGEMENT FOR CONCRETE WALL FORM

Arthur H. Symons, Chicago, Ill., assignor to Symons Clamp & Mfg. Co., Chicago, Ill., a corporation of Delaware

Application August 8, 1952, Serial No. 303,285  
1 Claim. (Cl. 25-131)

A concrete wall form adapted to rest upon a supporting surface and comprising: two spaced apart upstanding walls each of which comprises a plurality of side by side panels, each panel being provided with vertically extending reinforcing members at the sides thereof, said vertically extending members being provided with horizontal notches in their outer side surfaces and having transverse open-ended holes in intersecting relation with said notches, hori-

zontal combined tie and spreader members extending between the walls and provided with apertured ends located within said notches, means for securing the panels of each wall in side by side relation with said vertically extending members in abutting relation and with said longitudinally extending notches and holes in alignment and also securing said combined tie and spreader members in position in the notches between said two spaced apart upstanding walls, said means comprising horizontally extending head and shank type bolts extending through said holes and apertured ends and having in the free ends of their shanks exposed longitudinal slots in which vertically extending wedges are positioned, a diagonally extending brace disposed rearward of one of said upstanding walls and in a plane at right angles to the one wall and designed to hold the panels of said one wall against lateral tilting,

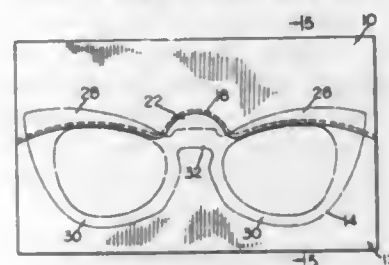


said diagonally extending brace comprising an elongated wooden beam of rectangular cross-section and with the lower end thereof in engagement with said supporting surface and also comprising a stamped metal bracket in the form of an elongated flat plate extending lengthwise of the beam and having the lower end portion thereof rectangular in form and fitted against, and secured to, the upper end of one of the side faces of the beam and provided at the side margins thereof with integral inwardly extending right angle flanges in straddled relation with the adjacent edge portions of the beam, said plate having its upper end portion tapered upwardly, projecting an appreciable distance beyond the upper end of the beam, and provided in its upper extremity with a transverse hole which extends around the shank of one of said bolts and forms therewith a pivotal connection.

#### 2,715,258 METHOD OF MANUFACTURING TWO-TONE SPECTACLE FRONTS

Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York

Application November 8, 1952, Serial No. 319,449  
1 Claim. (Cl. 29-20)



The method of producing a two-tone plastic spectacle front having a pair of lens rims connected by a bridge comprising forming a composite sheet by uniting along adjacent edges one plastic sheet having a reentrant portion in the lower edge thereof spaced between the ends of the sheet with a differently colored plastic sheet having on its upper edge a centrally disposed projecting bridge portion fitting into said reentrant portion, scribing on said composite sheet the profile of a spectacle front with the upper portions of the lens rims scribed on the first-named plastic sheet on the opposite sides of the reentrant portion and the remaining portions of the spec-

tacle front scribed on the differently colored plastic sheet with the spectacle bridge in the projecting bridge portion thereof, and cutting the composite sheet along the scribed profile to produce a two-tone spectacle front.

#### 2,715,259 STEEL BACKED ALUMINUM LINED BEARINGS

James B. Mohler, New Castle, Pa., assignor to Johnson Bronze Company, New Castle, Pa., a corporation of Pennsylvania

Application March 5, 1952, Serial No. 274,983  
1 Claim. (Cl. 29-196.2)

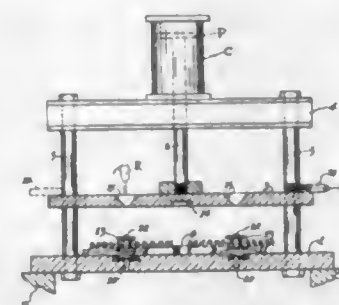


A bearing comprising a steel back, a layer of aluminum base bearing alloy bonded to the steel back, a layer of electroplated copper having a thickness of 0.1-0.5 mil bonded to the aluminum alloy bearing layer, and a layer of electroplated tin base bearing material having a thickness of 0.2-2.0 mils bonded to the copper layer.

#### 2,715,260 ASSEMBLING APPARATUS

William A. Hess, Cleveland Heights, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application May 11, 1950, Serial No. 161,350  
3 Claims. (Cl. 29-238)



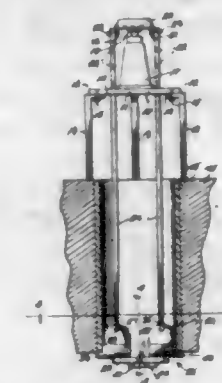
1. A clamping press adapted to clamp a plurality of flat elements in face to face relationship for a riveting operation, comprising a bed plate having a plurality of rivet-receiving recesses on the upper surface thereof, a plurality of posts mounted on the upper surface of said bed plate and extending normally thereto, a top frame member mounted on the ends of said posts above said bed plate, a movable plate reciprocally mounted on said posts for movement toward and away from said bed plate, a hydraulic piston and cylinder interconnecting said top frame and said movable plate, an upstanding tubular gauge sleeve mounted on the upper surface of said bed plate, a receiving-recess in said movable plate into which said tubular gauge sleeve fits, and a plurality of openings extending through said movable plate, each of said openings being axially aligned with one of said rivet-receiving recesses.

#### 2,715,261 ADJUSTABLE HYDRAULIC SLEEVE PULLER

Ollie Dee Williams, Kress, Tex.  
Application June 1, 1951, Serial No. 229,455  
1 Claim. (Cl. 29-252)

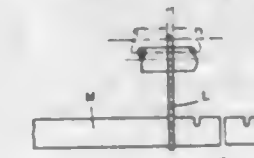
A device of the character described comprising a platform, supporting legs for said platform, a hydraulic jack mounted on said platform, a jack head for said jack, elongated puller arms affixed at their upper ends to said jack head, and a puller head connected to the lower ends of said puller arms, said puller head comprising a pair of members each having a pair of upstanding ears, said pairs of ears each being pivotally connected to the lower end of one of said puller arms, said members each having an outwardly extending rounded shoulder, a pair of hori-

zontally and inwardly extending spaced parallel arms affixed to the bottom of one of said members, a single horizontally and inwardly extending arm affixed to the other of said members, serrations upon the lower faces of all of said arms, said single arm being slidably receiv-



#### 2,715,262 METHOD OF FORMING SPRAGS FOR ONE-WAY CLUTCHES

Leopold T. Szady, Detroit, Mich., assignor to Formsprag Company, Van Dyke, Mich., a corporation of Michigan  
Application February 5, 1951, Serial No. 209,356  
3 Claims. (Cl. 29-414)



1. The method of forming sprags for one-way clutches comprising forming a stock bar having a cross sectional contour including diametrically opposite eccentric cam portions, cutting successive spaced transverse channels through one of said cam portions while integral with said stock bar and severing the bar into sprag lengths, each including at least one of said channels.

#### 2,715,263 METHOD AND APPARATUS FOR WELDING METAL

James MacGregor, Pittsburgh, Pa., assignor to York Engineering & Construction Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 23, 1954, Serial No. 418,085  
7 Claims. (Cl. 29-477.7)



1. A process of welding metal which comprises surrounding the metal to be welded with a non-oxidizing medium, preparing non-oxidized surfaces on the metal, heating the metal up to welding temperature, pressing the non-oxidized surfaces together and thereafter removing the metal from the non-oxidizing medium.

#### 2,715,264 CONTAINER OPENER

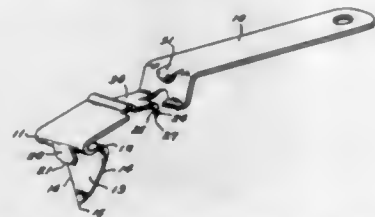
Leigh R. B. Atwater, Boston, and Edward C. Donnelly, Jr., Dover, Mass., assignors, by mesne assignments, to said Donnelly, Jr.

Application January 21, 1953, Serial No. 332,204  
1 Claim. (Cl. 30-6.1)

A unitary can opener formed from a single metal plate comprising an elongated handle portion having an end bent back sharply terminating in a generally arcuate tri-



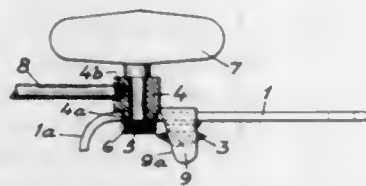
angular can-piercing element having a pair of converging cutting edges with a pointed tip, said element extending generally outwardly and rearwardly from said handle portion, a hooked lug struck from said handle portion adjacent the bend thereof extending generally in the same direction as said can-piercing element but terminating closer to the plane of the handle and adapted to engage the peripheral seam of the can when said handle portion is rocked thereabout to force the can-piercing element through the end wall of the can near its margin,



and a second generally triangular can-piercing element struck from the handle portion at a point more remote from said hooked lug than the first said element and extending in the same general direction as the first said element, said second element having a pair of converging cutting edges ending in a pointed tip which is disposed closer to the axis of the handle than the tip of the first said element so that it penetrates the end wall of the can subsequent to the first element to form a smaller opening near the center of the can end.

#### 2,715,265 CAN OPENER

Carl Alrik Hult, Stockholm, Sweden  
Application May 19, 1953, Serial No. 356,075  
Claims priority, application Sweden July 7, 1952  
2 Claims. (Cl. 30—15.5)

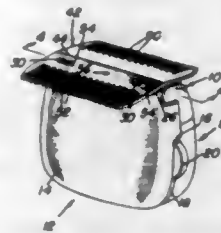


1. A can opener adapted for use in cutting through the lid of a can adjacent the side wall or through the side wall of a can adjacent the lid, said opener comprising an arm, a conical cutting disc member and a toothed feed roller member both rotatably mounted on said arm with their axes at a right angle to the plane of said arm, means for moving one of said members towards the other, said arm having an end portion establishing a projection from the plane of said arm of such length therefrom that a straight line drawn from the end of said projection to the nearest point of the conical surface of said disc member facing said arm coincides with a plane tangential to said conical surface and which includes said point thereby to cause said conical surface to stand in the plane of the lid of a can when cutting through the side wall of the can adjacent the lid, and to stand in the plane of the side wall of the can when cutting through the lid adjacent the side wall.

2,715,266  
ELECTRIC RAZOR HAIR CUTTING ATTACHMENT  
Albert S. Halslip, Fredericksburg, Va.  
Application April 12, 1954, Serial No. 422,375  
14 Claims. (Cl. 30—34)

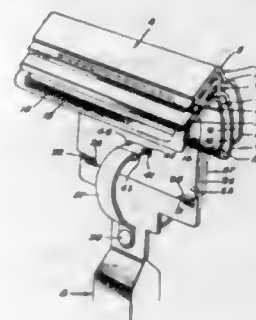
1. For use on and in conjunction with an electric razor; a hair cutting attachment comprising a readily applicable and removable adapter which conforms in shape and size to and constitutes a receiver and firm encompassing holder for said electric razor whereby the adapter and razor may be simultaneously gripped in one hand and pressed into direct contact with each other and operated as a handily maneuverable and

controllable entity, detachable means including at least one toothed comb which is reversible and assumes fixed operative relation to the existing or stock cutter means



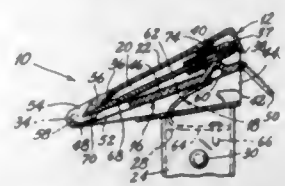
of the usual cutter head of the razor, and additional means for fixing and positively retaining said first named means on said adapter.

2,715,267  
SAFETY RAZORS  
Gerald E. Force, Washington, D. C.  
Application August 26, 1952, Serial No. 306,370  
5 Claims. (Cl. 30—50)



5. A safety razor comprising a plurality of superposed blade-clamping elements, each of which elements comprises an approximately flat blade-receiving section, a curved rear section, and a flat rear section, the said elements defining blade-receiving channels between contiguous blade-receiving sections, there being an outer blade-clamping element, a middle blade-clamping element, and an inner blade-clamping element, a razor blade in each blade-receiving channel, there being an outer blade and an inner blade, the inner blade having a cutting edge projecting forwardly beyond the outer blade, the curved rear sections of contiguous blade-clamping elements defining curved channels therebetween, the said curved channels being disposed rearwardly of the razor assembly, a clamping ring mounted on one of the flat rear sections and extending through each of the flat rear surfaces for securing the blade-clamping elements together, locking means on the clamping ring, mounting means for the clamping ring enabling the said clamping ring and locking means to be shifted from locking position to releasing position for enabling separation of the blade-clamping elements, an operating handle for the razor assembly, and said rearwardly disposed curved channels being adapted to accommodate the complementally curved aligning guide tongue of a blade magazine.

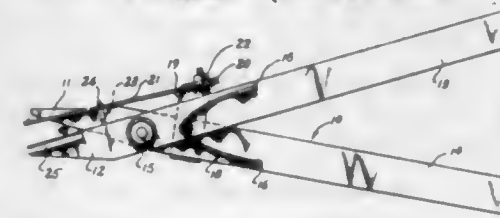
2,715,268  
SAFETY RAZOR  
Glenn T. Randol, Mountain Lake Park, Md.  
Application May 15, 1952, Serial No. 287,859  
11 Claims. (Cl. 30—64)



1. A razor construction including in combination: a handle; a hollow substantially triangular frame affixed to one end of the handle; an elongated breech opening

formed in the rear portion of said frame for the insertion and removal of blades and including a depending flange for preventing rearward displacement of blades when in cutting position; a blade receiving and supporting platform having a pivotal mounting at one end in the forward portion of said frame; resilient means for normally biasing the free end of the platform upwardly to close the breech opening; manually engageable means on the platform for swinging the latter downwardly, whereby a blade is insertable through said breech opening; and complementary means on the frame and on the platform for first maneuvering an inserted blade into effective cutting position following release of said manually engageable means, and for thereafter releasably maintaining said blade in that position.

2,715,269  
CROP GATHERING SHEARS  
Ernest M. Kaltenbach, Yucalpa, Calif.  
Application May 22, 1953, Serial No. 356,703  
1 Claim. (Cl. 30—135)



In a crop gathering shears, a pair of pivotally connected crossed blades including handle members, a bow spring connected between the handle members normally holding said blades in open position to receive a stalk to be severed, one of said blades having an abutment on the outer side thereof, and extending at right angles to the blade, a bracket secured to the other blade positioned rearwardly of the pivot of the blades, said bracket having a lateral extension transversely across said handles, a spring strap mounted on said lateral extension of a length and width to overlie said abutment to grip the stalk interposed between said blades, simultaneously with the shearing of the stalk, and a stop means carried by said last named blade having a right angular extension disposed above said spring strap and in contacting engagement therewith to exert a pressure on said spring strap under closing movement of the handles.

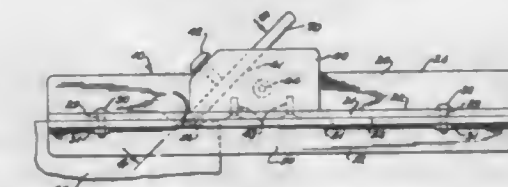
2,715,270  
LOCKING MEANS FOR PRUNING SHEARS  
OR THE LIKE  
Samuel Oxhandler, North Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut  
Application October 29, 1952, Serial No. 317,485  
2 Claims. (Cl. 30—262)



1. In a pruning implement, a pair of pivoted, cooperating shearing members, a handle carrying each of said members, one of said shearing members comprising a cutter head having a shoulder adjacent the pivot of the shearing members, one of said handle members being hollow, a locking member of U-shaped form pivoted within said handle and having a locking dog spaced from the pivot point to engage said shoulder and hold the shearing members in closed position, and a spring urging said lock-

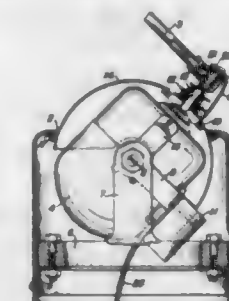
ing member to an inoperative position in which it is not engaged with said shoulder, said locking member also having a web portion extending through an opening in the handle for manual engagement, said web portion lying between the locking dog and said pivot, and being freely movable through said opening, and said spring bearing against the web portion.

2,715,271  
LINOLEUM EDGE TRIMMER  
Alfred Carrier, Berlin, N. H.  
Application July 21, 1952, Serial No. 300,013  
6 Claims. (Cl. 30—293)



1. An edge trimmer for thin sheet material such as linoleum comprising in combination a base member having an elongated relatively thin main plate and an elongated relatively thin lower plate depending from an elongated edge of said main plate and extending downwardly therefrom and lengthwise therewith, said main plate having a throat therethrough adjacent said lower plate; a plane iron clamp secured to the upper face of said main plate adjacent said throat; a guide member secured to the lower face of said main plate having an elongated relatively thin upper web and an elongated relatively thin lower web depending from the elongated side of said upper web proximal and parallel to said lower plate whereby a narrow channel is formed between said lower plate and said lower web to guide the sheet to be trimmed; and a plane iron secured to said plane iron clamp and extending downwardly through said throat with its lower end extending into said channel, said plane iron having a transverse cutting edge at its lower end; whereby the channel between said lower plate and said lower web below said main plate guides and supports the edge of a sheet of linoleum or the like to be trimmed by said transverse cutting edge.

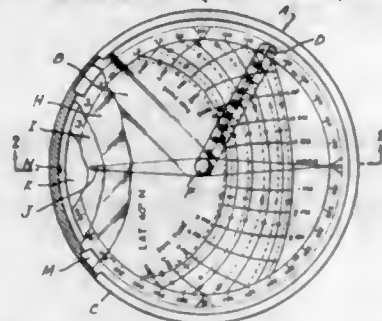
2,715,272  
EQUIPMENT STAND  
Alphonse F. Pieper, Brighton, N. Y.  
Application March 1, 1954, Serial No. 413,314  
10 Claims. (Cl. 32—22)



1. An equipment stand provided with horizontally arranged mountings, a motor and motor supporting frame pivotally supported on said mountings and having swinging movement about a horizontal axis, the motor including a motor shaft, a drive pulley on the motor shaft, and a pivotally supported tool arm mounted on the motor supporting frame coaxially of the motor shaft and having swinging movement independently of the motor and motor shaft in a plane perpendicular to the plane of swinging movement of the motor, the tool arm being fixed against any other movement relatively to the motor.

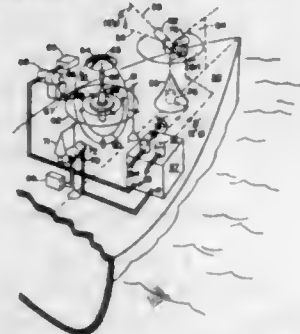


**2,715,273**  
**DEVICE FOR DETERMINING DIRECTION OF AN ASTRONOMICAL BODY**  
 Harold Dodd and Thomas D. Spencer,  
 Rio de Janeiro, Brazil  
 Application August 12, 1952, Serial No. 303,864  
 1 Claim. (Cl. 33—1)



A device for determining the direction of an astronomical body relative to an observer comprising a transparent plate on which is scribed a system of coordinates whereby each point on said plate is uniquely associated with the direction of said body at a certain time as viewed by said observer, a magnetic compass with compass-card in fixed relation to said plate and visible through said plate, and a pointer adjustably mounted in relation to said plate and scribed so that when the assembly is oriented by means of the needle of said compass and said pointer adjusted to a certain point on said plate said pointer will indicate and point along the actual bearing of said body from said observer at a certain time and at the same time indicate the altitude of said body relative to said observer.

**2,715,274**  
**COMPOUND RESOLVER COMPUTER**  
 Hubert M. James, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
 Application September 18, 1945, Serial No. 617,144  
 20 Claims. (Cl. 33—49)

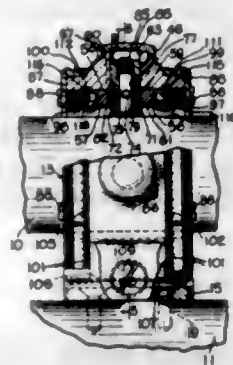


1. An electrical computer for determining the angular position of a line of sight from a given position to a target with respect to a moving reference plane from data representing the angular position of said line of sight and said reference plane with respect to a stabilized measurement plane comprising, means for measuring the angular relationship between said moving reference plane and said stabilized plane, means for determining the angular position of a line of sight with respect to said stabilized plane, a source of electrical voltages, means responsive to said angular data to produce output voltages having phase angle displacements from voltage inputs from said source, and means responsive to said phase angle displacements to indicate the position of said target with respect to said moving reference plane.

**2,715,275**  
**MOUNTING FOR GUN SIGHTING TELESCOPE**  
 Harry B. Kipp, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
 Application March 15, 1954, Serial No. 416,031  
 9 Claims. (Cl. 33—50)

1. A mounting for a gun sighting telescope comprising a bracket adapted to be attached to a gun, said bracket

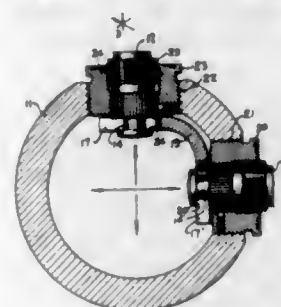
having a central circular aperture, a plurality of circumferentially spaced slidably mounted plungers carried by the bracket and radially positioned relative to the aperture for providing seating means for holding a sighting telescope therebetween, means for moving one of the plungers comprising an actuating ring rotatably carried by the bracket within the aperture and surrounding



the telescope with the axis of rotation of the ring lying within and substantially longitudinally of the telescope, a projection carried by a side of a plunger, said ring having on its radial inner face a spiral cam groove in which the projection is positioned whereby rotation of the actuating ring will move the plunger to effect adjustments of the telescope.

**2,715,276**  
**RETICULE HOLDER FOR TELESCOPIC GUN SIGHTS**

John L. Plummer, Wynnewood, Pa., assignor to The Lyman Gun Sight Corporation, Middlefield, Conn., a corporation of Connecticut  
 Application May 17, 1954, Serial No. 430,130  
 8 Claims. (Cl. 33—50)

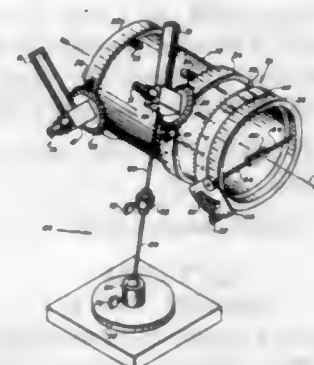


1. A reticule mount for a telescopic gun sight including in combination a quadrant member having straight end sections extending at an angle of 90° to each other, and an adjustment screw member carried by each end of said quadrant member, said adjustment screw and quadrant members being respectively connected for limited sliding movement relative to each other, one of said members having a slot within which a portion of the other member is slidably engaged, and opposed parallel surfaces defined by said slot and said slidably engaged portion, respectively, which surfaces abut to confine the relative motion between said members to movement longitudinally of the respective straight end sections of said quadrant member.

**2,715,277**  
**TWO-VECTOR NAVIGATIONAL COMPUTER**  
 Walter T. Lang, Brooklyn, N. Y., assignor to Control Instrument Company, Brooklyn, N. Y., a corporation of New York  
 Application July 26, 1954, Serial No. 445,540  
 4 Claims. (Cl. 33—66)

3. In a navigational instrument or the like having a pair of sighting devices each of which can be adjusted individually and set in a selected position relative to a given reference axis of the instrument according to the declination and sidereal hour angle of a known celestial body, means adapted for use in conjunction with said

sighting devices to position the instrument as a whole so that its reference axis is parallel to the axis of the earth, said means comprising a supporting device connected to one of said sighting devices for supporting the instrument thereby, a stationary base, and a universally adjustable connection between said supporting device and said base for enabling the instrument to be positioned



with said one sighting device directed toward the celestial body to whose position it is set, said supporting device having a linear axis which at all times extends in the same direction as the line of sight of said one sighting device and including a rotatable joint for enabling the instrument to be rotated bodily about said linear axis for bringing the other sighting device into alignment with the celestial body to whose position it is set.

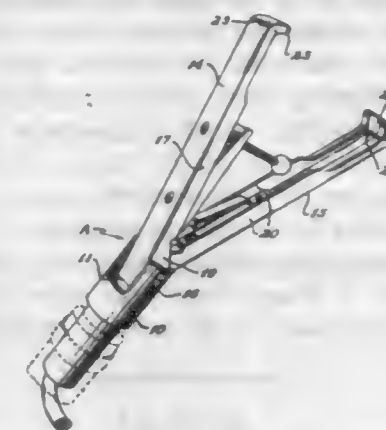
**2,715,278**  
**MACHINISTS' BENCH SQUARE**  
 George T. Harrison, Four Oaks, N. C.  
 Application January 6, 1953, Serial No. 329,877  
 5 Claims. (Cl. 33—112)



1. A bench square of the class described, comprising a base of substantial mass having a bottom face for supporting the base in an upright position on a flat surface, a blade detachably carried by said base and having a work piece-engaging edge, said base having a longitudinally extended groove in one side thereof, and said blade having a portion seated in said groove, said blade also having a stop projection intermediate its ends, said stop projection being engageable with the upper end of said base, and fastening means extended horizontally in said base and engageable with said blade for removably securing said blade in the groove in the base.

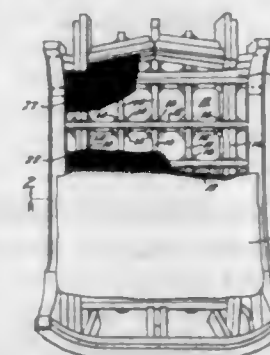
**2,715,279**  
**BOILER TUBE PROBE**  
 Enoch B. Stromberg, St. Paul, Minn.  
 Application May 11, 1953, Serial No. 353,994  
 4 Claims. (Cl. 33—149)

1. A device for indicating variations in the internal diameter of tubes including a handle member, a pair of arms pivotally connected at one end to said handle member, means biasing said arms in a diverging direction, a fixed contact on one of said arms, a swingable lever pivotally supported on said one arm having a contact thereon movable into and out of engagement with said fixed con-



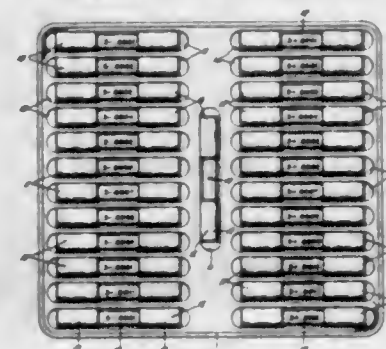
gether when said arms are permitted to diverge a predetermined amount.

**2,715,280**  
**REPRODUCTION FIXTURE**  
 Steven P. Kish, Lansing, Mich., assignor to Kish Plastic Products, Inc., Lansing, Mich., a corporation of Michigan  
 Application July 6, 1950, Serial No. 172,356  
 5 Claims. (Cl. 33—174)



1. A reproduction fixture comprising a plurality of individual wooden members joined together in a lattice structure, nonrigid connections between said members permitting substantial relative movement between the individual members and permitting each member to flex and warp to an appreciable and significant extent without twisting and warping other members in the lattice structure, and a layer of hardened cast material contacting and bonded to one side of the lattice having an outer surface accurately shaped to a predetermined form, said cast material being bonded only to the contacted edge portion of the lattice so that most of the lattice members and the means connecting them together extend from the back of and are free of said cast material.

**2,715,281**  
**PLUG GAUGES**  
 Robert H. Black, Los Angeles, Calif., assignor to Deltronic Corporation, Los Angeles, Calif., a corporation of California  
 Application April 17, 1953, Serial No. 349,492  
 2 Claims. (Cl. 33—178)



1. A set of combined plug gauges and layout pins comprising a plurality of rod-like bodies, each having



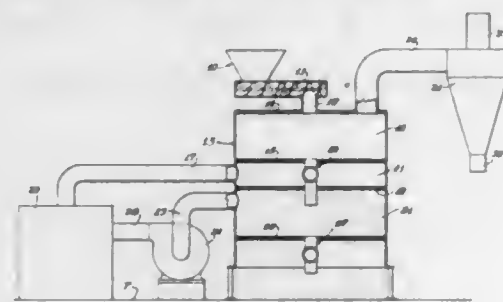
cylindrical ends of the same diameter and concentrically arranged with respect to each other, one of said bodies having its ends of a diameter that may be regarded as nominal, the remaining bodies being divided into two groups one of which has the ends of the bodies forming that group differing from the nominal diameter by progressively increasing equal increments and the other group having the ends of its bodies differing from the nominal diameter by progressively increasing equal decrements whereby by a proper selection of a plug gauge from one group and associating it with either the nominal gauge or a gauge from the other group limits of permissible tolerance can be readily established.

2,715,282

# METHOD OF AND APPARATUS FOR DRYING PARTICULATE MATERIAL

William W. Niven, Jr., Prairie Village, Kans., assignor to Midwest Research Institute, Kansas City, Mo., a corporation of Missouri

Application April 15, 1952, Serial No. 282,365  
5 Claims. (Cl. 34-10)



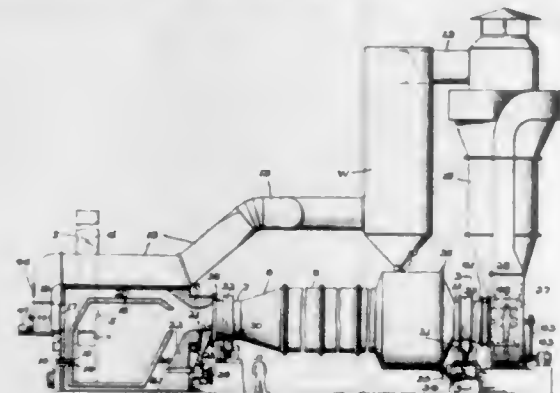
2. A method of drying moist crystalline salt particles, which comprises the steps of (1) introducing said particles into a first bed in a drying zone, (2) urging a stream of drying gas at a given superatmospheric pressure against the bottom of said first bed to fluidize the particles therein, (3) withdrawing dried hot particles from the bottom of said first bed and introducing the dried hot particles into a second bed in a cooling zone, (4) drawing a stream of cooling gas at subatmospheric pressure upwardly through said second bed to fluidize the particles therein, and (5) withdrawing the stream of cooling gas from the cooling zone, increasing the pressure in the stream to superatmospheric pressure and heating the gas in the stream, and then introducing the stream into the drying zone for carrying out step (2), whereby step (3) is carried out by removing particles from a zone under superatmospheric pressure to a zone under subatmospheric pressure.

2,715,283

# ROTARY DRYERS

Gisl Halldorsson, Baltimore, Md., assignor to Edw. Renneburg & Sons Co., Baltimore, Md., a corporation of Delaware

Application March 20, 1953, Serial No. 343,539  
5 Claims. (Cl. 34-79)



1. In a rotary dryer, a furnace, a fan disposed at the face of said furnace for introducing air therethrough, a rotary dryer horizontally mounted adjacent the neck of

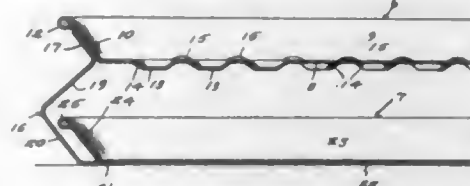
said furnace and comprising a restricted cylindrical section, an enlarged outwardly diverging conical section adjacent said restricted cylindrical section, an extended cylindrical section adjacent said conical section, an enlarged cylindrical retention section adjacent said extended cylindrical section, a converging conical section at the terminal end of said enlarged cylindrical section, said sections being arranged end to end along a common axis, fan means adjacent said neck disposed in the lower extremity of a vertically extending duct, a vertical collector disposed adjacent said duct and receiving the upper extremity thereof and a recycle duct for heated air communicating between the upper extremity of said collector and said recycle fan means at said furnace.

2,715,284

# DRAIN TRAY

Alfonso P. Molina, Tampa, Fla., assignor to one-half to Robert Pulido, Tampa, Fla.

Application June 19, 1953, Serial No. 362,747  
4 Claims. (Cl. 34-238)



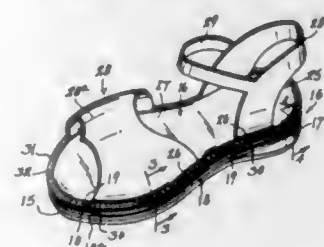
1. A drainage unit of the character described comprising a drain tray, legs secured to and depending from remote portions of the drain tray and including intumed lower portions forming foot members adapted to rest on a supporting surface for supporting the drain tray in an elevated position, said foot members being disposed beneath the tray portions to which the legs are secured, said legs including outwardly offset intermediate portions, said drain tray including a bottom on which items to be drained are adapted to be supported having a multiplicity of drainage openings formed therein, and a catch tray of the same size as the drain tray demountably supported on said foot portions beneath the drain tray for catching the drainage liquid from said drainage openings, said catch tray having rim portions extending into said outwardly offset intermediate portions of the legs.

2,715,285

# LAMINATED SOLE STRUCTURE

Angelo Del Vecchio, Brooklyn, N. Y.

Application February 19, 1952, Serial No. 272,384  
1 Claim. (Cl. 36-44)



A plural layer inner sole for use in a sandal-type shoe having an outer sole and upper structure, comprising a base layer adapted for positioning on the outer sole, a second layer superposed on said first layer and secured thereto, said second layer having elongated notches in its opposite edges extending throughout the thickness thereof, said second layer having its edge exclusive of the notched portions aligned with the edge of said base layer, a resilient layer superposed on said second layer and secured thereto, said resilient layer having an edge substantially aligned with the inner walls of said notches, and a cover layer superposed on said resilient layer and having a perimeter substantially con-

forming to that of the base layer, said cover layer having its central major area secured to said resilient layer, the marginal portion of said cover layer being secured to the margin of said second layer projecting beyond said resilient layer with portions thereof being depressed into said notches and secured to said base layer.

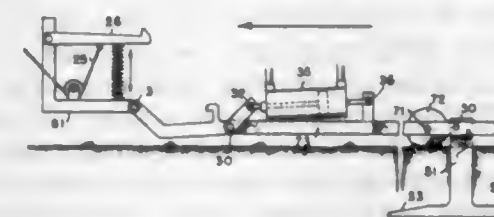
2,715,286

# MOLE DRAINER AND SUBSOILING PLOW

Irwin L. Saveson, Baton Rouge, La., assignor to the United States of America as represented by the Secretary of Agriculture

Application February 3, 1953, Serial No. 334,991  
7 Claims. (Cl. 37-193)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A mole drainage and subsoiling machine of a floating type capable of bridging small depressions in the soil without transmitting said depressions to the mole drain comprising: an elongated member of adjustable length having a blade and point at one end thereof; a lever rotatably mounted on the rear of a tractor, said lever being adapted to rotate in a vertical plane; the other end of the aforementioned elongated member being pivotally secured to a point on said lever; and means for moving said elongated member with respect to said lever.

2,715,287

# EASEL STAND PICTURE FRAME

William L. Birch, East Cleveland, Ohio

Application February 19, 1951, Serial No. 211,673  
4 Claims. (Cl. 40-152.1)



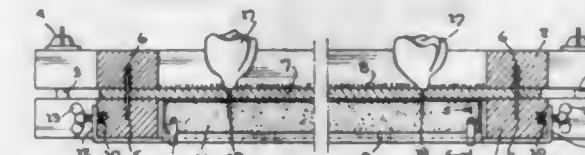
1. An easel picture frame unit of the class described, comprising a front frame member and a rear frame member, each frame member comprising a flat sheet of material of substantially the same size, said members being disposed in face to face relation and secured together only at certain marginal edge portions thereof, the remaining portions of the frame members being unconnected whereby a picture sheet may be received between and retained clamped between said frame members, the front frame member having a central opening therethrough through which a picture sheet received between the frame members may be viewed, the rear frame member having portions in the plane of the main body thereof partially severed therefrom at the top and bottom edges of said portions and severed from one another vertically so they may swing rearwardly apart to positions at a right angle to the rear frame member to provide an unobstructed light opening through said rear frame member, in register with the opening through the front frame member, the severed portions each forming a respective easel stand element hinged to said rear frame member at the unse-

2,715,288

# APPARATUS FOR ASSEMBLING FLORAL BLANKETS

Arthur N. Quidor, New York, N. Y.

Application January 8, 1954, Serial No. 402,953  
8 Claims. (Cl. 41-23)



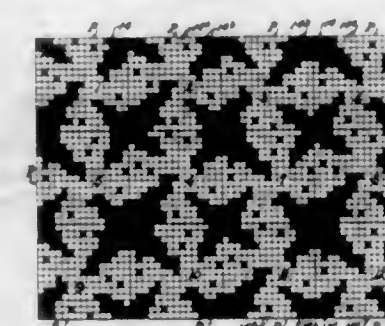
1. A device for use in assembling floral pieces by inserting the stems of flowers through a penetrable mat, comprising a rectangular support having means for securing the marginal edges of said mat while leaving the rest of the mat unobstructed, a longitudinally movable bar beneath said support carried by opposite parallel sides thereof, and means on said bar for detachably supporting a strip of adhesive tape for securing the stems of flowers inserted through said mat.

2,715,289

# DECORATIVE TILE SURFACES AND METHODS OF FABRICATING THE SAME

Kenneth M. Gale, Zanesville, Ohio, assignor to The Mosaic Tile Company, Zanesville, Ohio, a corporation of Ohio

Application February 14, 1951, Serial No. 210,899  
5 Claims. (Cl. 41-23)



1. A decorative tile surface of the type known as ceramic mosaics comprising a series of assembled rectangular panel members, each panel member being formed of a backing sheet having mounted thereon a multiplicity of tile units composed of background tile units and design-forming tile units positioned and connected together relatively to each other to form said rectangular panel member, each of said rectangular panel members having at each of its corners a design-forming tile unit provided with a rectangular corner registering with and conforming to the angularity of the panel corner, said corner design-forming tile units having additional design-forming members extending from said design-forming tile units at the corner of the panel through background tile units toward the middle of the panel, said corner tile units forming, when a series of said panels are positioned in such assembled tile surface, a series of parts of a center of design in one decorative tile surface of an uncontrolled pattern formed of said design-forming units within said background units in such tile surface, said decorative tile sur-



face comprising one member of a plurality of decorative tile surfaces adapted to be formed by said series of panel units.

2,715,290

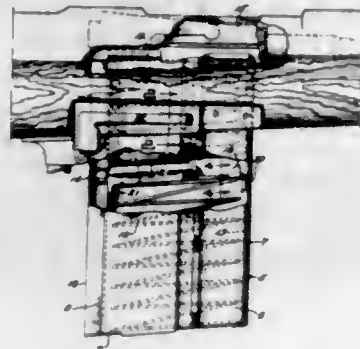
## MAGAZINE FOR AUTOMATIC FIREARMS

Earle M. Harvey, Agawam, Mass., assignor to the United States of America as represented by the Secretary of War

Application April 21, 1949, Serial No. 88,875

1 Claim. (Cl. 42-50)

(Granted under Title 35, U. S. Code (1952), sec. 266)



In a firearm magazine for holding a plurality of cartridges in a double column staggered group, the combination of, a pair of vertical side walls, a floor plate, a front and rear end wall cooperating with said side walls to form an opening at the top for passage of the cartridges, a vertically extending rectangular rib centrally disposed along the interior face of said front end wall and projecting rearwardly therefrom so as to lie slightly beyond the front ends of the cartridges, and a spring-biased freely movable follower longitudinally disposed between said side walls for vertical movement during feeding and loading of the cartridges, said follower having a bent-over downwardly projecting arcuate front end portion arranged to normally bear against said vertical rib, said front end portion having an inverted V-shaped notch therethrough whereby the lower extremities thereof formed by said notch straddle said rib in order to permit tilting of said follower about the point of contact thereof with said rib.

2,715,291

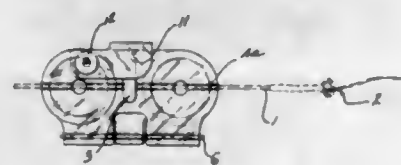
## FISHING LINE DRESSER

Leon M. Swelgert, Reading, Pa., assignor to

Grace R. Rightmeyer, Sinking Spring, Pa.

Application February 26, 1953, Serial No. 338,944

2 Claims. (Cl. 43-25)



1. A fishing line dresser comprising a casing having two halves hinged together, each half having an inner face in which is formed a pair of wells, each well having a pad, one of the pads of each half containing dressing material for the fishing line and the other pad being water absorbent, and a clip mounted on the outside of one of said halves, whereby the casing may be attached to the tip portion of a fishing rod, said wells defined by annular walls so disposed that when the halves are brought together the walls of the two pairs of wells will make registering contact, there being grooves extending diametrically through said annular walls for accommodating a fishing line, whereby as the line is reeled and drawn through one pair of pads, water will be squeezed out thereof, and as it passes through the second pair of pads containing dressing material, it will be coated with such material.

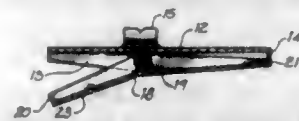
2,715,292

## FISH HOOK GUARD DEVICE

Jones C. Williams, Bossier City, La.

Application November 25, 1952, Serial No. 322,543

1 Claim. (Cl. 43-25.2)



In combination with a fishing pole, an elongated channel-shaped straight jaw member having side flanges gradually diminishing in height toward the end of the jaw member, an angled channel-shaped jaw member having side flanges received within the side flanges of the straight jaw member and also gradually diminishing in height toward the end of the jaw member, opposing transverse coplanar flanges on one end of each of the jaw members, a hollow transverse rivet extending through and pivotally connecting the side flanges of the angled jaw member to the intermediate portions of the side flanges of the straight jaw member at points of maximum height of said flanges, spring means biasing the end portion of the angled jaw member having the transverse flange toward the transverse flange on the end of the straight jaw member, a concave channeled socket element rigidly secured on the back of the straight jaw member and being parallel to said straight jaw member, said socket element receiving said fishing pole, and a flexible string member extending through said hollow rivet and around said pole and releasably securing the socket element to said pole, whereby a fishing hook may be at times received between said jaw members with said transverse flanges grippingly engaging the shank of the hook.

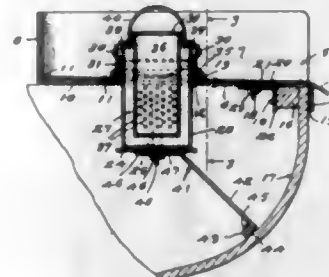
2,715,293

## SUPPORTING RACK FOR LIVE BAIT CONTAINER

Glenn A. Martin, Deming, N. Mex.

Application July 6, 1951, Serial No. 235,509

2 Claims. (Cl. 43-55)



1. A rack structure of the character described comprising an elongated tray, adjustable clamping means mounted beneath and forming a part of said tray for detachably clamping the tray to a gunwale of a boat and supporting the tray in an inboard position relatively to the boat, said tray having a downwardly inclined lip at one end thereof extending outwardly and downwardly from said clamping means and disposed outwardly of the gunwale engaged thereby, said tray having an opening disposed between its opposite end and said adjustable clamping means, said tray being inclined longitudinally from its last mentioned end downwardly towards said lip, a bucket extending through the tray opening having an open upper end disposed above the tray, means demountably supporting the bucket in said tray opening, and a live bait container loosely fitting in said bucket and having a perforated bottom portion, aligned bail mounting studs extending outwardly from the bait container adjacent the upper end thereof and resting on the rim of the bucket for removably supporting the bait container therein.

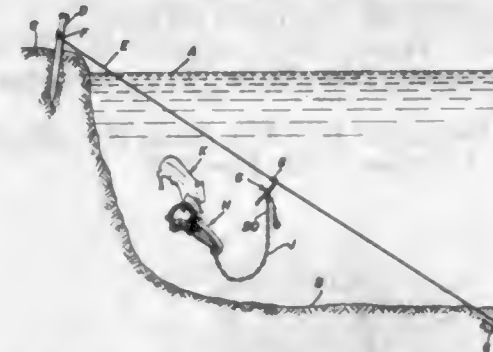
2,715,294

## DEVICE FOR ATTACHING A TRAP TO AN ANCHOR WIRE

William J. La Bossiere, Norway, Maine

Application July 11, 1951, Serial No. 236,225

2 Claims. (Cl. 43-96)



1. As a new article of manufacture, a device for attaching an animal trap chain to a staked anchoring wire comprising a length of wire having a bend between its ends, the respective portions of said wire adjacent to said bend being crossed and thus cooperating with said bend in defining a loop and provided with lateral bends extending alongside each other and providing a pair of limbs, a portion of said wire adjacent said crossed portions having a bend assisting in providing a junctural connection between said loop and limbs and serving to dispose said loop at an acute angle relative to the lengthwise axes of the limbs and thus providing a friction-held cant-eye, the opening in said eye being of a minimum length and width greater than the cross-section of said anchoring wire, whereby said cant-eye may swivel freely in one direction and is prevented from sliding relative to the wire in an opposite direction, the free end of one of said limbs having a return bend and the free end of the remaining limb having a twist therein and around the complementary limb and cooperating with said return bend in defining a tie for connecting said device to the trap chain.

2,715,295

## INSECT TRAP AND BAIT

William Edwards Brown, Pewaukee, Wis., assignor to Dioptron Company, Milwaukee, Wis., a firm partnership

Application January 5, 1950, Serial No. 136,894

4 Claims. (Cl. 43-107)



1. In a fly-trap, a transparent container having an upper open end, an opaque duct member having a lower end connected to said upper open end of the container, an opaque shield disposed above the upper open end of said duct member and having a downward circular rim concentric of and larger than the upper open end of said duct member, said shield serving to close the upper end of the duct member to extraneous light whereby flies tracing a lure into the duct member will be further attracted only by light from the container, and a series of radially spaced opaque fin members extending from beneath said shield into said duct member to divide the latter into several passages and extending radially of and on the outside of said duct member whereby air currents approaching adjacent fin members are deflected upwardly

2,715,296

## TOY STETHOSCOPE

Frank Pettit, Union, N. J.

Application January 21, 1952, Serial No. 267,451

6 Claims. (Cl. 46-175)



1. A toy stethoscope comprising a hollow body member increasing in cross-section from one portion to another, a sound-producing mechanism mounted within said hollow body member and comprising an elongated spring member fixed at one end to the hollow body member at its portion of smaller cross-section, a weight mounted at the free end of said spring member, and an element adjacent the spring member to be contacted thereby to produce a sound, said hollow body member having a plurality of openings in the portion of larger cross-section and a plurality of tubular members fixed to said hollow body member and communicating with said openings.

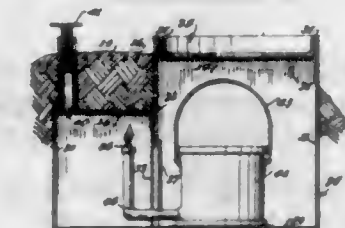
2,715,297

## SEED WARMER AND STARTER

Andrew Hallum, Springfield, Mo.

Application April 14, 1953, Serial No. 348,669

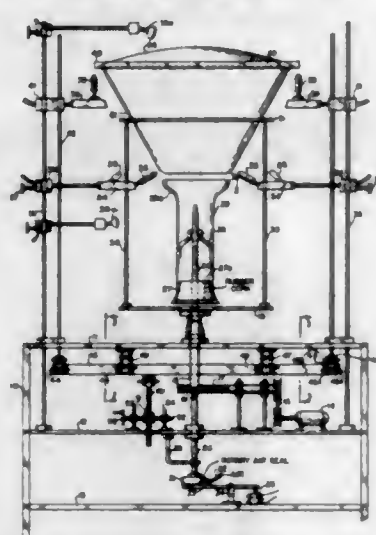
2 Claims. (Cl. 47-19)



2. In a seed warmer and starter, a housing embedded in ground, said housing including a horizontally disposed bottom wall and spaced parallel vertically disposed end walls, a top wall extending over a portion of said bottom wall, a vertically disposed partition extending downwardly into said housing, insulation arranged on one side of said partition adjacent its lower end, a cap having insulation on its lower surface detachably mounted on the upper end of said housing, said cap being provided with a central opening, an upstanding rim on said cap, a vertically disposed conduit extending upwardly from said housing, a plug detachably mounted on the upper end of said conduit, a burner supported in said housing, a handle connected to said burner, an L-shaped tube extending from said burner and having a wick mounted on an end thereof, and a plate secured to said tube for engaging a portion of said partition.



**2,715,298**  
**CATHODE-RAY TUBE SEALING APPARATUS**  
 Albert Louis Buttino, San Francisco, Calif., assignor to The Rauland Corporation, a corporation of Illinois  
 Application October 19, 1949, Serial No. 122,231  
 7 Claims. (Cl. 49—1)



7. Apparatus for sealing together a vitreous neck portion, a metallic conical portion having a flange at its large end, and a transparent viewing plate portion of a cathode-ray tube envelope comprising: a supporting table; a first vertically-extending tubular member rotatably supported by said table; a driving mechanism mechanically coupled to said first tubular member for imparting rotational motion thereto; a second vertically-extending tubular member slidably mounted coaxially within said first tubular member for rotation therewith; a first supporting structure secured to said first tubular member for supporting said conical portion in a vertical position with its large end upward and with said viewing plate resting in said flange; a second supporting structure secured to said second tubular member for supporting said neck portion in a vertical position coaxially with said conical portion adjacent the lower small end thereof; a first group of heater elements disposed adjacent said lower end of said conical portion for effecting a seal between said neck portion and said conical portion; means for causing predetermined longitudinal movement between said tubular members to bring the upper section of said neck portion into sealing contact with the lower end of said conical portion; and a second group of burners supported adjacent said large end of said conical portion for effecting a seal between said conical portion and said viewing plate portion.

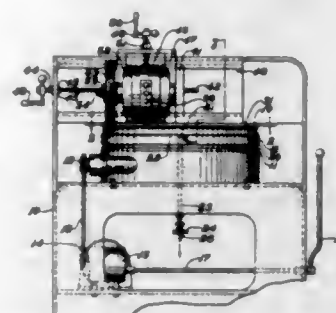
**2,715,299**  
**ROLLERS FOR FEEDING A CONTINUOUS STRAND**  
 William R. Steltz, Anderson, S. C., assignor to Owens-Corning Fiberglass Corporation, a corporation of Delaware  
 Application August 14, 1952, Serial No. 304,353  
 5 Claims. (Cl. 49—17)



1. Pulling rollers for linearly feeding a continuous strand between the contacting peripheries thereof, said rollers being mounted on spaced parallel axes and having generally circular rims, the rims of said rollers being spaced, and a plurality of individual elements removably mounted in the rims of said rollers and each protruding radial beyond the rim of one of said rollers a dis-

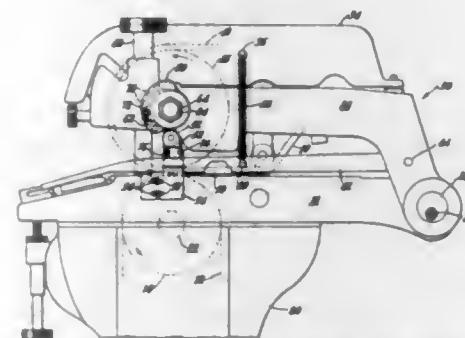
tance sufficient to extend between such elements on the other of said rollers and into contact with such elements and the rim of said roller between such elements.

**2,715,300**  
**GRINDING RUBBER STRIPS**  
 John A. Dorner, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York  
 Application December 14, 1950, Serial No. 200,830  
 3 Claims. (Cl. 51—105)



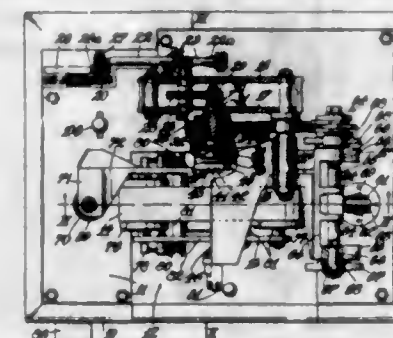
1. Apparatus for grinding the margins of a cupped face of an extensive strip of soft rubber material, said apparatus comprising a rotatable table having an annular concentric groove in its face for seating the strip therein with its cupped face exposed, the groove being arranged to support the sides and ends of the strip against deflection with the ends of the strip spaced from each other, means for rotating the table in opposite directions, vacuum producing means connected to said groove for holding the strip in said groove, a rotatable grinding wheel adjacent the groove of said table, means for feeding said grinding wheel into contact with said strip, and means for driving the grinding wheel in one direction for grinding the face of the strip from a portion intermediate the ends of the strip toward one end of the strip and in the opposite direction for grinding the face of the strip from said intermediate portion of the strip toward the opposite end of the strip while said ends are supported by the ends of the groove against lifting or deflection.

**2,715,301**  
**MACHINES FOR BUFFING SHEET MATERIAL SUCH AS SHOE SOLES**  
 Charles John Kelham, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey  
 Application November 16, 1954, Serial No. 469,268  
 Claims priority, application Great Britain December 4, 1953  
 4 Claims. (Cl. 51—137)



1. In a machine for buffing sheet material, a pair of driven rolls of which one is a buffing roll and the other a feed roll, a support for one of said rolls, means acting yieldably on said support for causing said one roll to press a work piece against the other roll, and a cam acting upon said support to move said one roll away from the other roll to release the work piece from the grip of the rolls.

**2,715,302**  
**GRINDING, POLISHING AND LIKE MACHINE TOOLS**  
 Reginald Arthur Bishop Jones and Cyril Falchurst, Barnoldswick, England, assignors to Rolls-Royce Limited, Derby, England, a British company  
 Application September 14, 1953, Serial No. 379,827  
 Claims priority, application Great Britain September 16, 1952  
 11 Claims. (Cl. 51—143)



8. A machine tool comprising a machine frame structure, a travelling abrasive belt supported in said machine frame structure, first drive means to drive the belt, a workholder mounted in the machine frame structure, second drive means adapted to effect limited relative angular movement of said belt and said workholder about an axis which extends transversely of the direction of travel of the belt, said workholder being adapted to support an article with an edge thereof in contact with the abrasive surface of the belt to be machined to a curve generated about said axis, third drive means connected to operate in a selected relation to said second drive means and adapted to effect relative movement of said belt and said workholder to vary the angle which said axis makes with the surface of the belt, in the sense gradually to decrease said angle during an initial portion of said relative angular movement from one limit of the angular movement and in the sense gradually to increase the said angle during a final portion of said relative angular movement to the other limit.

**2,715,303**  
**SANDER DRUM**  
 Arnett L. Thorson and Louis C. Nolte, Chicago, Ill.  
 Application June 3, 1949, Serial No. 97,046  
 7 Claims. (Cl. 51—194)

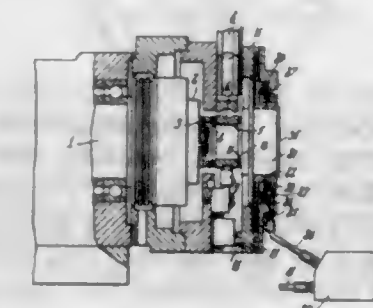


1. In combination, a rotatable drum and a sheet of sandpaper having a sanding face and back side wrapped around the drum with the sanding face disposed outwardly, one end of the sandpaper being pointed and the other end being swallowtailed to have two trailing tips, means on the pointed end of said sheet for attaching same to the drum, a pair of slots in the surface of said drum for receiving the tips of the other end with the sanding face engaging a rigid surface on the drum, and centrifugal means including an element lightly contacting the back side of said tips at said rigid surfaces to accommodate

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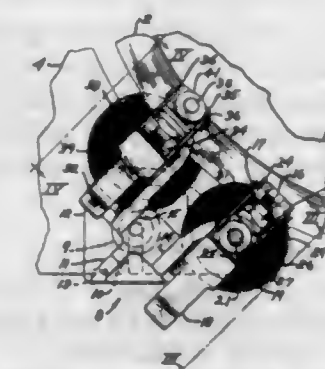
relative movement between the sheet and drum during slow rotation of the drum and clamping said tips rigidly in place when said drum is rotated at sanding speeds.

**2,715,304**  
**WORK CLAMPING AND RELEASING MECHANISM FOR CENTERLESS GRINDING MACHINES**  
 Edward L. Dix, Chester, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont  
 Application June 1, 1953, Serial No. 358,880  
 7 Claims. (Cl. 51—236)



1. In combination with a rotary spindle carrying a face plate at one end presenting a face transverse to the axis of said spindle against which an article to be ground may be clamped, a clamp mounted for motion toward and from said face, a stationary member outwardly of said clamp defining a space between it and said clamp, a pipe having one end leading into said space, a sleeve into which the opposite end of said pipe extends in spaced relation, means for introducing fluid under pressure into said sleeve around said pipe, and valve means at the opposite end of said sleeve which when closed prevents fluid pressure in said sleeve from passing through said pipe and which when opened permits discharge of fluid under pressure from said sleeve and produces an aspirating effect adjacent to said opposite pipe end causing sub-atmospheric pressure conditions within said space.

**2,715,305**  
**SLICER KNIFE SHARPENER**  
 James D. Brown, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey  
 Application February 28, 1952, Serial No. 273,820  
 6 Claims. (Cl. 51—248)



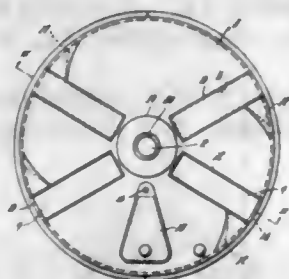
1. A sharpener for the rotary knife of a commodity slicing machine comprising, in combination, a grinding wheel adapted to engage one side of the rotary knife, a honing wheel adapted to engage the other side of the rotary knife, means for rotatably supporting the wheels, and finger-depressible means for independently engaging each wheel with the rotary knife, said finger-depressible means comprising a lever of the first order operatively connected to the grinding wheel and a lever of the second order operatively connected to the honing wheel, whereby depression of the levers in the same direction will cause the wheels to engage the rotary knife from opposite directions.



2,715,306

**APPARATUS FOR THE RECOVERY OF DIAMOND POWDER OR BORT**

Siegfried Roos, Amsterdam, Netherlands, assignor to Jozef Komkommer, Amsterdam, Netherlands  
Application March 18, 1952, Serial No. 277,126  
Claims priority, application Netherlands January 11, 1952  
6 Claims. (Cl. 51—270)



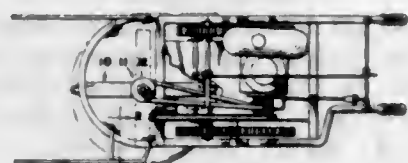
4. In apparatus for grinding diamonds including a horizontal grinding wheel, a catching rim surrounding said grinding wheel at its periphery, a transparent hood disposed over said grinding wheel and having a peripheral rim portion resting on said catching rim, said hood being provided with at least one aperture for receiving diamond-holding means, and at least one bort-catching and retaining baffle means disposed under said hood and over the upper surface of said grinding wheel and extending in a generally radial direction, the face of said baffle means opposite to the direction of rotation of the wheel and inner faces of said hood and catching rim all having bort-retaining surfaces to which bort striking said surfaces adheres.

2,715,307

**CUTTER BAR FOR MOWING MACHINES**

Raymond Carter, deceased, late of Wyoming, Ill., by Hazel Carter, Wyoming, and Raymond Hugh Carter, Chicago, Ill., administrators, assignors to Hotchkiss Steel Products Company, Bradford, Ill., a corporation of Illinois  
Original application October 4, 1950, Serial No. 188,373. Divided and this application March 25, 1952, Serial No. 278,427

3 Claims. (Cl. 56—295)



1. In a cutter bar for use with mowing machines wherein the bar is rotatable about a vertical axis comprising a support, a cutting blade on each end of the support, and a protuberance on the support adjacent the leading edge of the support to deflect the cuttings severed by the cutting blade.

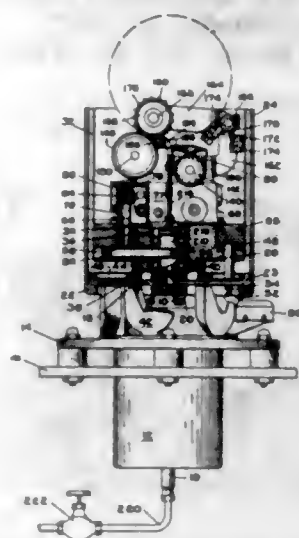
2,715,308

**METHOD OF AND APPARATUS FOR TWISTING AND WINDING**

Dimitri G. Soussloff, Providence, Carlton A. Steele, Norwood, and Raymond V. Tata, Providence, R. I., assignors to Universal Winding Company, Boston, Mass., a corporation of Massachusetts  
Application January 11, 1950, Serial No. 138,038  
58 Claims. (Cl. 57—58.65)

16. A device for twisting and winding a running strand of yarn comprising a rotatable spindle adapted to twist said yarn, said spindle having an opening therein forming a passageway for said yarn, a supporting member mounted on said spindle and having a passageway for said yarn formed therein in alignment with said passageway in said spindle, an arbor rotatably mounted on said supporting member and adapted to wind said yarn into a package after it is twisted by said spindle, a yarn guide

reciprocally mounted on said supporting member for movement longitudinally of said arbor, a cylindrical member adapted to rotate independently of said arbor to wind and store said yarn prior to it being wound on said arbor, means comprising a hollow body slotted throughout its length and extending from the passageway in said



supporting member to closely adjacent said cylindrical member adapted to conduct said yarn from said last mentioned passageway to said cylindrical member, means for rotating said cylindrical member, and means for causing said yarn to transfer from said cylindrical member to said arbor after a predetermined length thereof has been wound thereon.

2,715,309

**SYNTHETIC CONTINUOUS FILAMENT YARN IN THE CONTINUOUS FILAMENT YARN STATE**

Nathan Rosenstein and Abraham J. Rosenstein, West Hartford, Conn.  
Application May 31, 1950, Serial No. 165,286  
1 Claim. (Cl. 57—140)

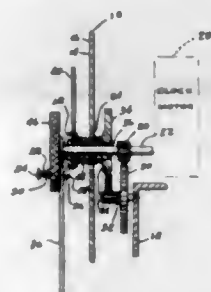


A crimped, continuous filament yarn consisting of smoothed surfaced filaments of a synthetic resin material, each filament being formed of permanent, V-shaped, symmetrical crimps, each crimp having straight side portions and a portion connecting the side portions, each side portion being materially longer than the connecting portion and set to about 180° of the longitudinal axis of the yarn.

2,715,310

**JOB TIMER**

Ray S. Roberts, Naples, Idaho  
Application February 12, 1954, Serial No. 409,830  
5 Claims. (Cl. 58—80)



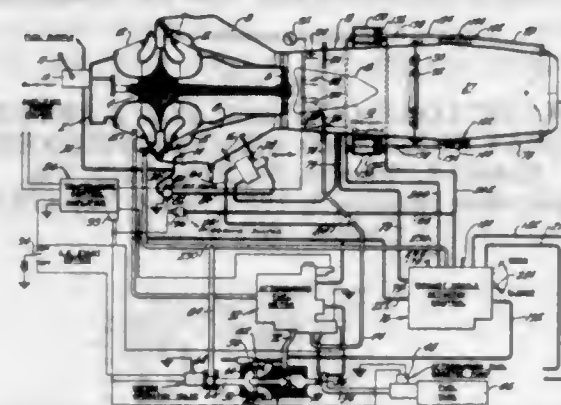
1. A job timer comprising a housing having a dial on the outer face of one side thereof, a minute hand adapted to move in an arcuate path spaced outwardly from and in overlying relation to said dial, an hour hand in spaced parallel relation to said minute hand adapted to move in an arcuate path in overlying relation to said dial, a knob carried by said minute hand, a plunger carried by said knob

adjacent the periphery thereof and adapted to move in a rectilinear path to intersect the path of movement of said hour hand and engageable with said hour hand upon rotation of said knob to reset said hand with relation to said dial.

2,715,311

**MULTIPLE PRESSURE RESPONSIVE CONTROL DEVICE FOR A VARIABLE AREA NOZZLE OF A JET ENGINE**

Richard J. Coar, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware  
Application November 18, 1950, Serial No. 196,424  
14 Claims. (Cl. 60—35.6)



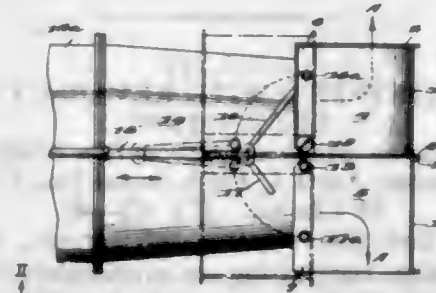
3. In combination: a turbo-jet engine having an afterburner, and a variable area propelling nozzle through which gas from the engine is discharged; means for adjusting the area of said nozzle, valve means to control said adjusting means; and second valve means responsive to the ratio of absolute pressures existing at two spaced points in the gas flow path of the engine for actuating said first valve means, a conduit supplying fuel to said afterburner; and said first valve means responsive to fuel pressure in said conduit.

8. An aircraft jet propulsion system comprising in combination, a jet propelling nozzle, means movable to adjust the area of said nozzle, a piston to move said means, and a nozzle control, said control having a relay valve for directing a working fluid to one side of said piston or the other, a pilot valve for moving said relay valve in one direction, a spring for moving said relay valve in the other direction and a walking beam attached to said pilot valve for moving it, said walking beam being responsive to a pressure on each end and having a movable fulcrum, said fulcrum being mounted on an arm fixed to a shift piston.

2,715,312

**JET SPOILER FOR GAS TURBINE JET PROPULSION PLANT**

Eugene Brame, Farnborough, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company  
Original application July 18, 1946, Serial No. 684,454. Divided and this application January 15, 1952, Serial No. 266,923  
Claims priority, application Great Britain July 21, 1945  
7 Claims. (Cl. 60—35.55)



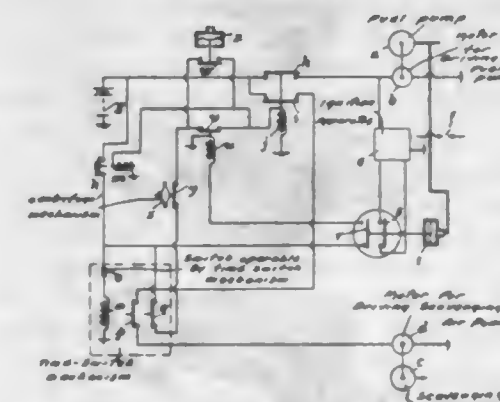
5. In an aircraft jet propulsion power plant having a jet pipe and nozzle for the rearward discharge of a pro-

pulsive jet stream, a jet spoiler comprising a hollow substantially cylindrical member coaxially disposed around the rearward end of the jet pipe, said cylindrical member being bisected in an axial plane and the two parts thereof having a rearward common diameter lying in said plane and being pivotally jointed together where they meet at their rearward extremities on said plane, each being pivotable about substantially said common diameter in said plane from said position in which they form a cylindrical member to a spoiling position in which they lie end to end transverse to the jet stream with their concave sides facing upstream, and linkage mechanism connected to said parts and operable to move them between said two positions.

2,715,313

**FUEL AND SCAVENGING-AIR SUPPLY SYSTEM FOR ENGINE-STARTING GAS TURBINES**

William Fleming, Solihull, Birmingham, and Michael John Loxley, Burnley, England, assignors to Joseph Lucas (Industries) Limited, Birmingham, England  
Application January 13, 1953, Serial No. 330,966  
2 Claims. (Cl. 60—39.14)

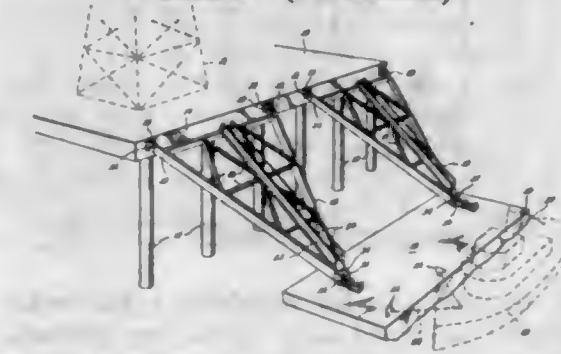


1. An electrical system for automatically controlling the action of electric motors for driving the fuel and scavenging air-pumps, and the ignition apparatus, of a turbo-starter, comprising in combination switches for controlling the supply of current to the motors, electromagnetic means for operating the switches, a manually operable switch for bringing the system into action, a retaining electromagnet for the manually operable switch, an electromagnetically energisable time-switch mechanism for controlling the said electromagnetic means, a delayed-action switch for controlling at least that part of the electromagnetic means which serves to operate the current-controlling switch of the fuel-pump motor, another switch operable by fuel pressure for controlling the supply of current to the ignition apparatus and the delayed-action switch, and a further switch operable by the pressure of ignited gas for over-riding the delayed-action switch.

2,715,314

**FLOATING WHARF**

Blakely Smith, Houston, Tex.  
Application May 2, 1955, Serial No. 505,347  
4 Claims. (Cl. 61—48)

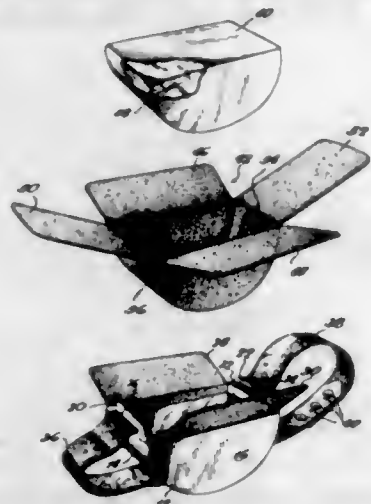


1. A floating mooring for fixed platforms, docks and the like comprising, a floating dock, a pair of laterally-spaced hinges, means at one end of each of said pair of hinges



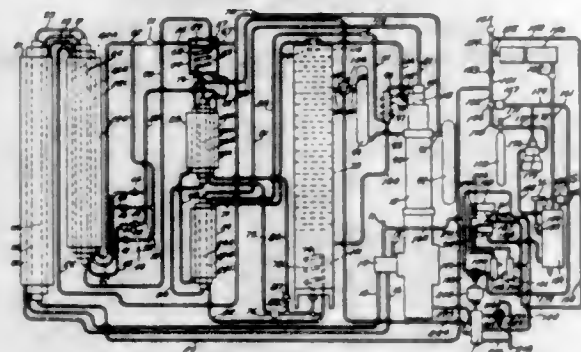
for hingedly connecting each hinge to a side of a fixed platform for generally vertical hinge movement only, universal means connecting the other end of each of the pair of hinges to the floating dock for universal movement with respect to the floating dock, each of said universal means including a sliding connection in a lateral direction, each said sliding connection being at its outward extremity with respect to the other when the floating dock is in a generally horizontal position thereby preventing lateral shifting of the floating dock with respect to the platform but permitting rise and fall of one end of the floating dock with respect to the other end thereof, and means on the floating dock for securing a vessel thereto.

**2,715,315**  
**LOCALIZED APPLICATOR FOR COOLING**  
**BODY TEMPERATURES**  
Gino A. Giardini, Chicago, Ill.  
Application June 11, 1954, Serial No. 436,162  
4 Claims. (Cl. 62—1)



1. In a coolant applicator of the character described, an insulated receptacle with foldable flaps adapted to accommodate therein a pellet of coolant, means for maintaining said pellet in its most effective cooling position, and adjustable means for maintaining said applicator on a localized portion of the human body, said first mentioned means comprising an elastic band suspended within said receptacle between a pair of opposed walls thereof, said elastic band positioned to bear against the outer surface of the pellet of coolant.

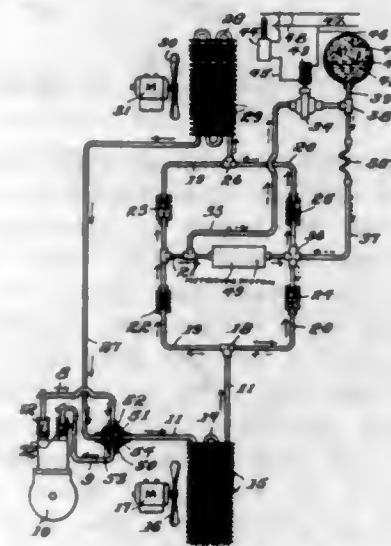
**2,715,316**  
**OXYGEN GENERATING APPARATUS**  
Win W. Paget, Mountain Brook, Ala., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application November 5, 1952, Serial No. 318,801  
20 Claims. (Cl. 62—2)



1. In an apparatus for supplying a gas under pressure to a conduit subjected to a fluctuating demand, a generator for the gas, constructed to produce the same at a relatively low pressure or at a relatively high pressure, and having as parts thereof an expansion engine and a column receiving fluid exhausted by the expansion engine,

mechanism for changing the point of cutoff of said expansion engine, mechanism for changing the point of introduction of fluid exhausted by the expansion engine into the column, means for operating said mechanism for changing the point of cutoff of said expansion engine and said mechanism for changing the point of introduction of fluid exhausted by the expansion engine into the column to effect changes of said generator between relatively low pressure production and relatively high pressure production, a discharge line for said generator to which it discharges during either production, a booster to which said discharge line delivers gas, a receiver to which said booster delivers gas, a connection from said receiver to said conduit, and means controlled by pressure variations in said receiver for controlling said operating means.

**2,715,317**  
**AUTOMATIC LOAD CONTROL FOR A REVERSIBLE**  
**HEAT PUMP AND AIR CONDITIONER**  
Robert L. Rhodes, St. Petersburg, Fla.  
Application January 3, 1955, Serial No. 479,396  
5 Claims. (Cl. 62—3)

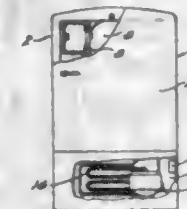


5. In combination, a refrigerant compressor, a valve mechanism connected to said compressor, a first conduit extending from said valve mechanism, a portion of said first conduit being shaped to define a coil, a first fitting connected to said first conduit, a second and third conduit connected to said fitting, a pair of spaced apart valves interposed in each of said second and third conduits, a branch line interconnecting said second and third conduits together and joined to said second and third conduit at the space intermediate the respective pairs of valves and having a metering device therein, a second fitting connected to the junction of said second and third conduits, a fourth conduit extending from said second fitting to said valve mechanism, a portion of said fourth conduit defining a coil, a fifth conduit connected to said branch line at a point intermediate the second conduit and said metering device, a sixth conduit connected to said branch line at the opposite side of the metering device from said fifth conduit and said sixth conduit being also in communication with said third conduit, and a tank communicating with said fifth and sixth conduits.

**2,715,318**  
**SEALED SYSTEM WITH REVERSE CYCLE**  
**DEFROSTING**  
Clinton Millman, Greenville, Mich.  
Application April 5, 1950, Serial No. 154,110  
16 Claims. (Cl. 62—4)

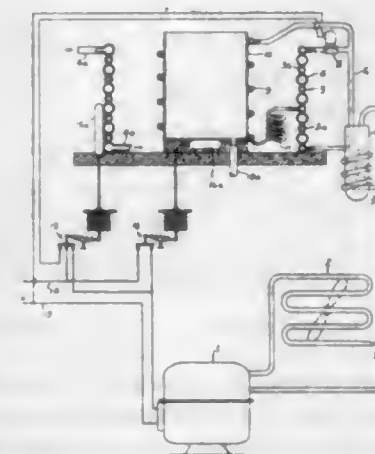
14. In a domestic electric refrigerator, a refrigeration fluid system comprising an evaporator, a condenser, a compressor, valve mechanism and means for equalizing the pressure between said condenser and said evaporator during periods in which said compressor is not

being driven, means for driving said compressor, said valve mechanism having a normal refrigerating position in which it connects said compressor to pump fluid from said evaporator to said condenser and having an evaporator defrosting position which it connects said compressor to pump fluid from said condenser to said evaporator, an actuator for urging said valve between its said positions, said valve mechanism including elements responsive to the differential in pressure between said evaporator and said condenser, said elements being effective to prevent movement of said valve by said valve actuator when the pressure differential between said evaporator and said condenser is above a predetermined magnitude, a compressor control device for rendering said compressor driving means effective and ineffective to drive said compressor, a valve control device for actuating said valve actuator whereby said valve is urged



in a direction to move from said normal position to said defrosting position, means actuating said control devices to provide for operation of said control devices in a desired sequence, said sequence including a first interval in which said compressor control device maintains said compressor ineffective to establish said predetermined magnitude of pressure difference and said valve control device is maintained effective to urge said valve mechanism to said defrosting position whereby said valve mechanism moves to said defrosting position during a period in which said pressure difference is below said predetermined magnitude, said sequence further including a second interval following said first interval in which said valve control device continues to be effective to urge said valve mechanisms to said defrosting position and said compressor control device is actuated to establish operation of said compressor.

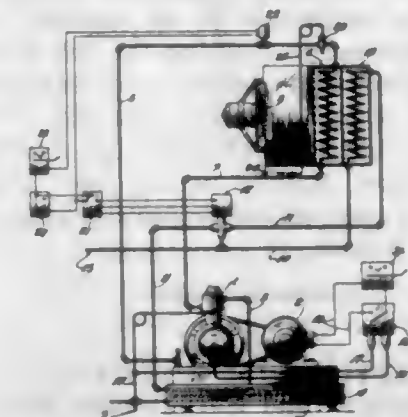
**2,715,319**  
**TWO-TEMPERATURE REFRIGERATION**  
**APPARATUS**  
Frank O. Graham, Detroit, Mich., assignor to Temprite Products Corporation, Birmingham, Mich., a corporation of Michigan  
Application May 20, 1952, Serial No. 288,840  
6 Claims. (Cl. 62—4)



1. In refrigeration apparatus of the type having compressor, condenser and expander elements connected in a closed circuit, the combination of a compressor; an electric motor connected to drive the compressor; a con-

denser connected to the refrigerant discharge of the compressor; a high-temperature evaporator comprising series-connected lower and upper sections in free communication with each other, the lower section having a refrigerant inlet and the upper section a refrigerant outlet; a liquid refrigerant conduit comprising a restrictor means connecting the condenser to the lower section inlet of the said evaporator; a low-temperature evaporator; conduit means comprising a restrictor means connecting the upper part of the lower section of the high-temperature evaporator to the refrigerant inlet of the low-temperature evaporator; suction conduit means connecting the refrigerant outlets of the two evaporators to the suction side of the compressor and rendering said evaporators simultaneously subject to the suction thereof; an electromagnetically operated valve controlling the suction outlet of the high temperature evaporator; and electric switch devices for controlling supply of current to the compressor motor, the said devices comprising two thermostatically controlled switches one of which is associated with and responsive to the temperature of one of the two evaporators and the other of which is similarly associated with and responsive to the temperature of the other evaporator and operatively connected to supply current to the coil of the electromagnetically operated valve and each of which switches is connected to supply current to energize the motor when the evaporator temperature to which it is responsive rises to a predetermined maximum value and disconnected to cut off such current supply when said temperature falls to a predetermined minimum value; whereby by opening the said valve when the compressor is operating the refrigerant returned to the compressor will be drawn substantially entirely from the high-temperature evaporator and by closing the valve when the compressor is operating the refrigerant returned to the compressor will be drawn wholly from the low-temperature evaporator.

**2,715,320**  
**AIR CONDITIONING SYSTEM**  
Owen C. Wright, Millburn, N. J.  
Application November 3, 1951, Serial No. 254,667  
1 Claim. (Cl. 62—6)



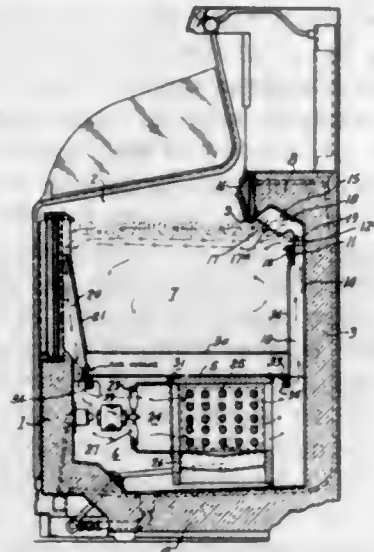
An air conditioning system comprising in combination, a refrigerant; a compressor; an evaporator about which air to be conditioned is circulated; a water cooled condenser; a solenoid valve adapted to admit the refrigerant to the evaporator; a thermostat and a humidistat operably connected with the solenoid valve and adapted to keep the same open until each is satisfied; a heating coil positioned in the path of the air passed over the evaporator; a conduit, incorporating a modulating three way mixing valve, interposed between the water outlet of the condenser and the water discharge outlet of the system and connected with the inlet of the heating coil, the said valve being responsive to the thermostat and adapted to admit water to the heating coil until the thermostat is satisfied.



2,715,321

**OPEN-TOP REFRIGERATED DISPLAY CASE**  
 Ralph J. Burger, Kendallville, Ind., assignor to McCray Refrigerator Company, Inc., Kendallville, Ind., a corporation of Indiana

Application May 1, 1952, Serial No. 285,407  
 2 Claims. (Cl. 62—89.5)



1. In a refrigerator cabinet having an open-top compartment and an air chamber therebelow with a return air flue from said compartment to said chamber at one side of the compartment with its inlet near the top thereof substantially throughout its length, and with an upwardly extending air outlet flue at the opposite side of said compartment to said return flue, and means for creating an air circulation through said flues and cooling the air passing through said outlet flue, the improvement which comprises the provision in at least the upper end portion of said outlet flue, of a partition dividing said portion of the flue into inner and outer branches relative to said compartment, said inner branch having discharge provision at its upper end for directing a stream of air across the upper portion of said compartment toward said return flue inlet and said other branch having a pressure reducing expansion chamber at its upper end for the expansion of air received from said outlet flue and having an opening for the discharge of a stream of air from such chamber over said first stream and toward said return flue inlet whereby a stream of low velocity cold air from said expansion chamber forms a protecting blanket entirely across said compartment over a stream of cold air of relatively higher velocity from said inner branch.

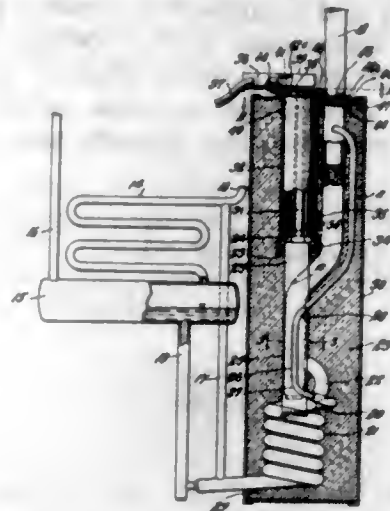
2,715,322

**ABSORPTION REFRIGERATION**

Axel Harald Ostergren and Karl Gunnar Boren, Stockholm, Sweden, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden  
 Application September 25, 1951, Serial No. 248,126  
 Claims priority, application Sweden October 3, 1950  
 7 Claims. (Cl. 62—119.5)

1. In absorption refrigeration apparatus, a generator comprising a shell having a first end wall at one level and a second end wall at a higher level and an upstanding side wall connecting said first and second end walls, a single body of insulating material retained in said shell between said first and second end walls, a vertically extending heating tube embedded in its entirety in said body of insulating material between said first and second end walls, the end of said heating tube nearer to said first end wall being spaced therefrom and the end thereof nearer to said second wall being spaced therefrom, said heating tube being formed of material having good heat conductivity and providing a heat transfer surface, an electrical

heating element positioned in said tube for heating the latter, a circuit for absorption liquid including a plurality of vertically extending parts embedded in said body of insulating material and arranged to receive heat from said heating tube, one of said parts serving as a boiler and another as a vapor lift tube, said shell having an opening in one of the first and second end walls thereof, hollow structure embedded in said body of insulating material to provide a permanent passage therein connecting the opening in said one end wall and one end of said heating tube,

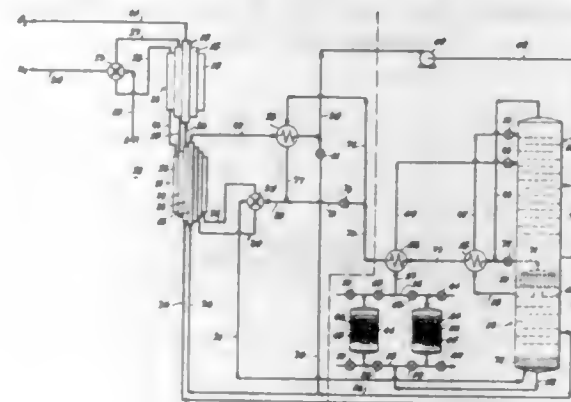


said passage being coaxial with said heating tube and having a cross-sectional area throughout the length thereof of adequate size for inserting and withdrawing said heating element into and from said heating tube through the passage, an insulating member which is disposed in said passage and removable therefrom independently of said heating element to gain access to the latter through said passage, and means including said independently removable insulating member, when the latter is positioned in said passage, for retaining said heating element in position in said heating tube.

2,715,323

**PRODUCTION OF OXYGEN BY LIQUEFACTION AND RECTIFICATION OF AIR**

Evan A. Johnson, Jr., New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey  
 Application September 11, 1948, Serial No. 48,908  
 14 Claims. (Cl. 62—123)



1. A process for producing oxygen by the liquefaction and rectification of air in a rectification system involving low and high pressure stages, which comprises passing a stream of air under pressure through a path in a reversing exchanger to recover the cold content of an outgoing product of rectification and thus cool the air to a temperature close to its condensation point, periodically reversing the flow of air and rectification product through their respective paths in the reversing exchanger so that

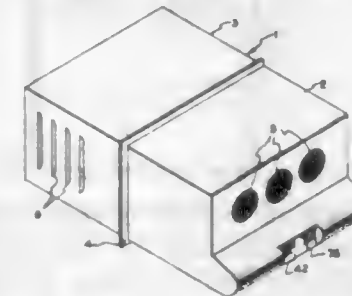
upon each of said reversals the rectification product substantially completely removes the carbon dioxide deposited in the reversing exchanger during the preceding step of the process, passing the thus cooled air through a body of crude liquid oxygen in the high pressure stage of the rectification system thus scrubbing said thus cooled air with said crude liquid oxygen, withdrawing a minor portion of the crude liquid oxygen-scrubbed air, warming the withdrawn minor portion by indirect heat exchange with a stream passing through said reversing exchanger to a temperature such that no liquefaction of said withdrawn minor portion takes place upon its expansion, expanding the thus warmed portion, introducing the expanded portion into the low pressure stage, purifying the crude liquid oxygen by filtering out carbon dioxide particles and absorbing dissolved acetylene therefrom, and introducing the thus purified crude liquid oxygen into the low pressure stage for further rectification.

2,715,324

**AIR CONDITIONING APPARATUS HAVING CONTROL MEANS**

Stanley E. Rose and Elmer E. Helmo, Erie, Pa., assignors to General Electric Company, a corporation of New York

Application April 19, 1954, Serial No. 424,072  
 25 Claims. (Cl. 62—129)



1. A self-contained unit for conditioning a room comprising a housing, a barrier dividing said housing into an outer compartment and an inner compartment, a condensing unit mounted in said outer compartment, an evaporator mounted in said inner compartment, blower means for blowing a stream of air across said evaporator and into said room, means defining an intake passageway in said inner compartment leading to the intake of said blower means, a pair of room air intake ports leading from said room into said passageway, an outside air intake port for bringing outside air into said room comprising an aperture in said barrier opening into said passageway, a first damper for controlling the flow through one of said room air intake ports, a second damper for controlling the flow of air through the other of said room air intake ports and said outside air intake port, and manually operated means for simultaneously positioning said dampers to vary the intake flow through said ports to said blower means thereby to apply different conditioning effects to said room.

2,715,325

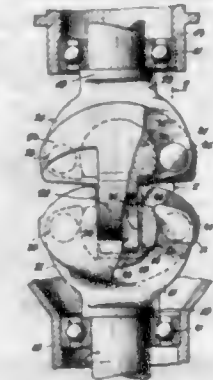
**CONSTANT VELOCITY UNIVERSAL JOINT**

Stephen Du Pont, Westport, Conn., assignor to Doman Helicopters, Inc., Danbury, Conn., a corporation of Delaware

Application May 13, 1952, Serial No. 287,478  
 6 Claims. (Cl. 64—21)

1. A constant velocity universal joint including a pair of spaced forks each having a pair of arms with a concave circular inner surface, each arm having side walls which are substantially perpendicular to the circular direction of the torque force transmitted thereby and at least one side wall being a driving side wall, connecting means between the forks including a pair of intermediate members each having a fork groove therein the side walls of which are substantially perpendicular to the circular di-

rection of torque force and the side wall adjacent a driving side wall of a fork arm being a driving side wall, the bottom surface of each fork groove being convex circular for engagement with the concave circular inner surface of a fork, each fork groove being a little wider than the width of the fork arms and receiving a fork therein, a connecting flange means carried by one of the intermediate members and extending at right angles to the fork groove and having driving side walls substan-

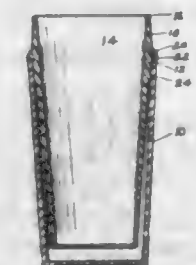


tially perpendicular to the circular direction of torque force, the other intermediate member having a flange means groove extending at right angles to its fork groove and the side walls of which are substantially perpendicular to the circular direction of torque force and receiving the connecting flange means, spaced spheroidal sockets in the driving side walls at least for the forks, and a spheroidal segment in each socket projecting beyond the driving wall and having a flat face engaging the adjacent side wall.

2,715,326

**DUAL SHELL DRINKING VESSELS**

Jules P. Glits, Chicago, Ill., assignor of one-half to Joseph A. Glits, Chicago, Ill.  
 Application October 14, 1950, Serial No. 190,230  
 5 Claims. (Cl. 65—66)



4. A selectively separable dual-shell container that comprises a frusto-conical, outer shell which has a substantially constant wall thickness and which has a closed bottom, a closed bottom inner shell that is dimensioned so the closed bottom thereof can telescope within the closed bottom of said outer shell, a squared off upper end on said outer shell, an encircling frusto-conical surface on the exterior of said inner shell that extends outwardly from the major portion of the outer wall of said inner shell, an encircling radially extending flange on said inner shell intermediate the top and bottom thereof that has a squared off surface on the under side thereof and has a smoothly rounded surface on the upper side thereof, said flange abutting the upper end of said frusto-conical surface on said inner shell, said flange being as wide as the wall thickness of said outer shell, said frusto-conical surface on said inner shell being dimensioned to snugly engage the interior of said outer shell in face to face relation when the shells are nested adjacent said squared off end thereof, said squared off under surface of said flange engaging said squared off upper end of said outer shell, and a smoothly rounded, continuous lip on the upper end of said inner shell, said inner shell having a rounded and smooth surface intermediate said lip and said flange.

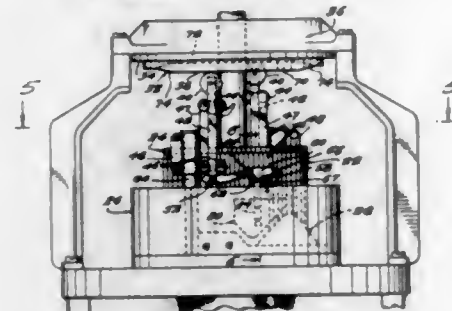


# 2,715,327 APPARATUS FOR PRODUCING KNIT ARTICLES HAVING PARTS OF DIFFERENT LENGTHS

Emil D. Kattermann, Dover, N. J., assignor to Swiss Knitting Company, Dover, N. J., a corporation of New Jersey

Original application April 27, 1951, Serial No. 223,274, now Patent No. 2,699,055, dated January 11, 1955. Divided and this application July 23, 1953, Serial No. 369,875

3 Claims. (Cl. 66—27)



1. In a circular knitting machine having a set of cylinder needles and a set of dial needles and a relatively movable cam ring including a needle-lowering cam for actuating said cylinder needles to form a rib knit fabric, means for operating said needle-lowering cam to lower certain of said cylinder needles more than others in the same course comprising movable spring retracted means for resiliently holding said needle-lowering cam in one position and resiliently opposing movement of said cam in the needle-lowering direction, a cam mounted in stationary relation relative to said cylinder needles, and linkage means for operatively connecting said stationary cam to said spring retracted means, said cam ring and said needle-lowering cam being rotatable about said cylinder needles and said stationary cam having a peripherally continuous lower cam surface, said linkage means including a cam follower in operative engagement with said cam surface, said cam follower being biased into said engagement by said spring retracted means, and said linkage means being mounted on said knitting machine in externally disposed relation with said cam ring.

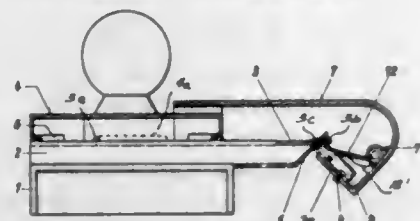
## 2,715,328 KNITTING APPARATUS

Johann Bühler, Chur, Switzerland, assignor to Firma Busch-Werke A. G., Chur, Switzerland

Application June 10, 1954, Serial No. 435,848

Claims priority, application Switzerland June 20, 1953

12 Claims. (Cl. 66—60)



1. In a knitting apparatus in combination, an elongated needle comb; a row of spaced needles having hooked end portions and being located in an operating plane and movable through said needle comb between a retracted position in which said needles are located on one side of said needle comb and an advanced position in which said hooked end portions project through said needle comb to the other side of the same; actuating means movable in longitudinal direction of said needle comb and having needle shifting means consecutively engaging groups of said needles during such movement for consecutively moving said needles from said retracted to said advanced position and back, so that said needle comb retains a knitted workpiece on said other side thereof suspended on suspending loops passing through said hooked end portions of said needles when the same have moved to said retracted position; a work piece guiding

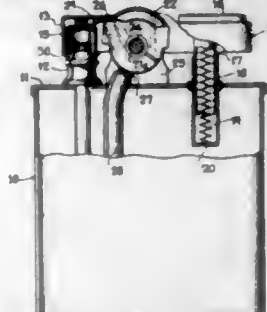
means secured to said actuating means and located on said other side of said needle comb adjacent to the same and moving along said needle comb, said guiding means being arranged in the longitudinal direction of movement of said actuating means forwardly of said needle shifting means for moving said retained work piece out of said operating plane of said needles; and retaining means on said actuating means arranged in said longitudinal direction of movement between said engaging means and said work piece guiding means on said other side of said needle comb and adjacent to the same for engaging during movement of said actuating means said suspending loops and for retaining the same adjacent to said needle comb during movement of said needles from said retracted into said advanced position thereof.

## 2,715,329 PYROPHORIC LIGHTER

Ray L. Burchett, East Orange, N. J., assignor to Ronson Corporation, Newark, N. J., a corporation of New Jersey

Application April 9, 1952, Serial No. 281,290

6 Claims. (Cl. 67—7.1)



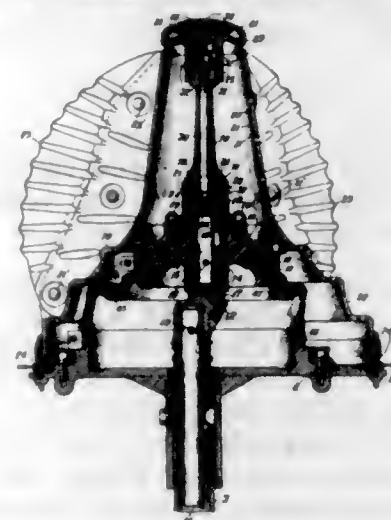
1. In a pyrophoric lighter having a casing, a burner, a sparking wheel mounted on said casing and having ratchet teeth thereon and a closure cap adapted to cover said burner, means for mounting said closure cap comprising: a clutch member mounted adjacent said wheel, said member having flexible pawl means integral therewith and engageable with said teeth for rotating said wheel and having a flexible arm integral therewith extending over said burner and adapted to support said cap, said arm being flexible toward and away from said burner and having an aperture therein adapted to receive a portion of said cap and said aperture being larger than said portion of said cap, whereby said cap may be moved with respect to said arm.

## 2,715,330 CLOTHES WASHING MACHINES

Alpheus W. Altorfer, Jr., Peoria, Ill., assignor to Altorfer Bros. Company, Peoria, Ill., a corporation of Illinois

Application March 20, 1952, Serial No. 277,617

8 Claims. (Cl. 68—131)



1. In a washing machine the combination of a drive shaft, a dasher, a crank pin carried by the drive shaft,

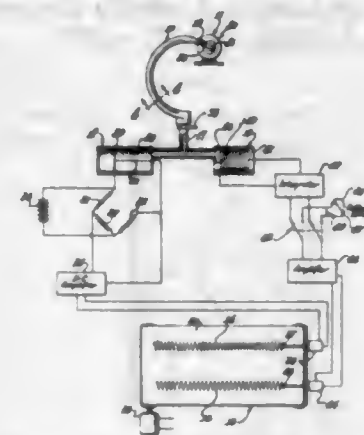
a head connected with the dasher and slidably mounted on the crank pin and supporting the dasher, a spring interposed between the crank pin and the head and bearing thereagainst normally tending to move the head in one direction relative to the crank pin, and means forming an axially adjustable connection between the head and the crank pin.

## 2,715,331 DEVELOPMENT OF FLUID PRESSURES FOR TRANSDUCER CALIBRATION AND THE LIKE

Cecil F. Yates, North Hollywood, and Raymond C. Baird and Ray C. Sollars, Los Angeles, Calif., assignors to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California

Application October 18, 1952, Serial No. 315,536

8 Claims. (Cl. 73—1)



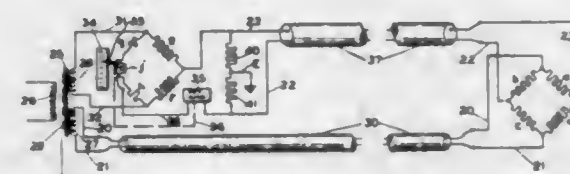
5. Apparatus for calibrating a transducer comprising a closed fluid containing system including a longitudinally curved flexible Bourdon tube containing fluid, a drive unit exerting against said tube near a first end a force acting to reciprocate the tube, means holding the tube near a second end against movement so that the drive unit acts to vary the curvature of the tube and thereby vary the fluid pressure therein, means for connecting to said system a transducer which is to be calibrated and is operable to produce a first electric signal representing said pressure, a transducer of known calibration connected to said system and subjected to said fluid pressure and operable to produce a second electric signal, and indicator means responsive to said signals.

## 2,715,332 ELECTRICAL CONNECTIONS FOR ALTERNATING CURRENT MEASURING CIRCUITS

Donald McKinlay, Jr., Bethany, and Abraham Walter Jacobson, New Haven, Conn., assignors to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application July 28, 1953, Serial No. 370,808

7 Claims. (Cl. 73—88.5)



6. In combination, a strain gauge of the class comprising a bridge network adapted for energization from an alternating voltage impressed between its input terminals and to have its balance condition affected by a strain to be measured whereby correspondingly to affect the magnitude and phase of potential appearing at its output terminals, a second bridge network adapted for energization from an alternating voltage substantially in phase with said first-named voltage and adjustable whereby to vary the magnitude and phase of potential appearing at its

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output terminals, circuit means adapted to apply alternating-voltage to the input terminals of said first bridge network and to interconnect the output terminals of both said bridge networks in a manner to oppose their output potentials, said circuit means comprising a cable having four conductors symmetrically disposed therein, each conductor being independently insulated and provided with a conductive sheath connected to ground, two diametrically opposed conductors of said four being connected to said input terminals of said first bridge network to apply alternating voltage thereto, and the other two opposed conductors interconnecting the output terminals of both said bridge networks through detector means responsive to the difference of said output potentials.

## 2,715,333 TORQUE MEASURING WRENCHES

Kenneth R. Larson, Des Plaines, Ill., assignor to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware

Application February 16, 1951, Serial No. 211,391

6 Claims. (Cl. 73—139)



1. In a torque wrench, the combination with an elongated handle member, of a torsion resisting work engaging head member anchored substantially normal to said handle member, said handle member and torsion resisting work engaging member being in rigid load turning connected relation, a bifurcated elongated torsion translating member having spaced arms rigidly anchored at their extremities to said head member in a plane spaced from the plane of attachment of said handle member to said head member, said bifurcated elongated torsion translating member extending freely along and substantially parallel to said handle member without connection therewith nor sustaining the work resisting load of said head member, and calibrated indicating means on said handle member for operative connection to the convergent end extremity of said bifurcated elongated member spaced arms to measure the torsion imparted to said head member and translated thereto by said bifurcated elongated torsion translating member responsive to sustaining a turning load with a turning force applied to said handle member.

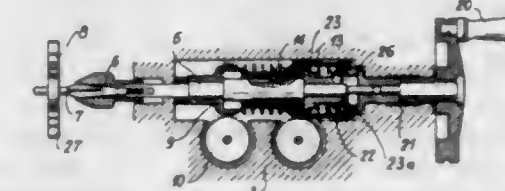
## 2,715,334 APPARATUS FOR CHECKING WATCH BARRELS

Leon Mouttet, Morges, Switzerland

Application July 8, 1954, Serial No. 442,001

Claims priority, application Switzerland August 18, 1953

7 Claims. (Cl. 73—161)



1. An apparatus for checking a watch-barrel provided with a spindle and a spring, comprising a casing, a spindle



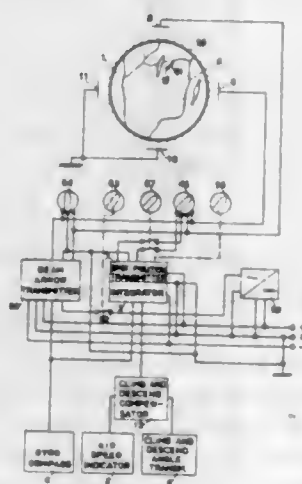
revolubly carried by the said casing, a clamp carried by the said spindle and adapted to hold the spindle of the watch-barrel fast in alignment with the said revoluble spindle, a revolution counter controlled by the said revoluble spindle, a sleeve coaxial with and angularly rigid with the revoluble spindle, adapted to be shifted longitudinally over the latter and provided with a series of parallel annular grooves, a toothed wheel meshing with the annularly grooved sleeve the axis of which is perpendicular to that of the said sleeve, a dynamometer controlled by the said toothed wheel, means adapted to exert a torque on the revoluble spindle and sleeve arrangement and to shift axially the sleeve over the revoluble spindle by amounts depending on the value of the said torque, the dynamometer being adapted to indicate the torque to which the revoluble spindle is submitted and thereby to define the torque developed by the barrel spring for any value indicated by the revolution meter.

2,715,335

## NAVIGATION SYSTEM FOR AIRCRAFT

Dag Hartman and Erik Bratt, Linköping, Sweden, assignors to Svenska Aeroplan Aktiebolaget, Linköping, Sweden, a joint-stock company

Application May 15, 1951, Serial No. 226,518  
Claims priority, application Sweden May 17, 1950  
16 Claims. (Cl. 73-178)



1. In a navigation system for aircraft, means for measuring the speed of the aircraft, means for measuring the course of the aircraft, integrating means actuated by said speed and course measuring means for producing two outputs proportional respectively to the changes of the position coordinates of the aircraft, a cathode ray tube, means generating a spot image on the screen of the tube, and means connected to the deflection means of said tube and actuated by the outputs of said integrating means for energizing said deflection means to position the spot image on the screen of the tube in a position to indicate the position coordinates of the aircraft.

2,715,336

## GAS METER DIAPHRAGM

Karl L. Schaus, Tempe, Ariz.  
Application April 3, 1953, Serial No. 346,564  
7 Claims. (Cl. 73-278)



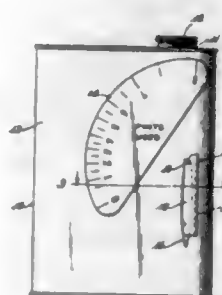
1. A meter diaphragm comprising: an outer integral, annular, flat-surfaced mounting rim composed of a thin rigid material uniform in its cross-sectional thickness,

said rim contiguous to its inner periphery being provided with a laterally disposed wall formation arranged wholly at one side of the main plane of the rim and in perpendicular relation thereto, said formation providing an open-sided annular retaining groove in said rim, the open side of said groove being disposed in the plane of said rim and at one side thereof; a flexible diaphragm body arranged for pulsatory movement through said rim; and means cooperative with the inner surface of the wall formation of said groove and the outer circumferential portion of said diaphragm body for retaining the same in a secured position in said rim groove.

2,715,337

## VOLUME INDICATOR FOR CONTAINERS

George Wilson, East Malvern, Victoria, and James Crawford Reid, Glen Iris, Victoria, Australia  
Application July 7, 1953, Serial No. 366,528  
Claims priority, application Australia December 9, 1952  
5 Claims. (Cl. 73-290)

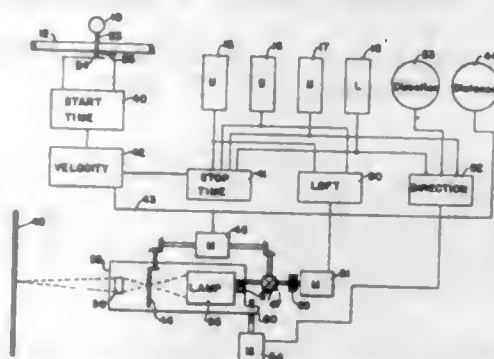


1. A container for fluent material having a pouring spout and means for indicating the volume of fluent material that has been poured from or which remains in the container, such means comprising a free-swinging pointer and a graduated scale both attached to an exterior wall of said container, said graduated scale being attached thereto in an immovable manner and said free-swinging pointer being attached thereto so that it freely swings about a pivot point under the influence of gravity as the container is tipped during the pouring operation, said pointer coacting with said graduated scale to give the desired indication on the graduated scale with respect to the contents of the container.

2,715,338

## GOLF DRIVE SENSING SYSTEM

Luther G. Simjian, Greenwich, Conn.  
Application July 6, 1954, Serial No. 441,535  
8 Claims. (Cl. 73-379)



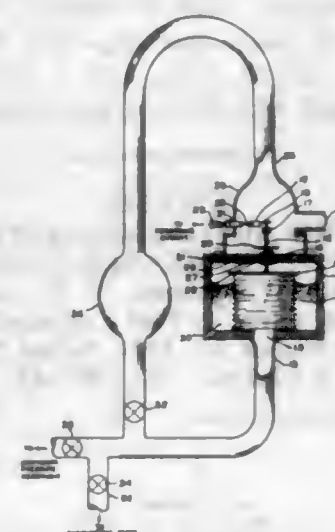
1. A golf drive sensing system for showing the trajectory of a struck missile comprising: a missile secured to one end of a flexible cord; said missile adapted to be positioned for the application of an impelling force which causes said missile to become displaced with respect to its original position; a plurality of force responsive devices adapted to be actuated by the cord secured to the other end of the flexible cord; said devices cooperating with

electrical circuit means for producing electrical signals proportional to the force imparted to said force responsive devices; electrical timing means for producing a velocity signal responsive to the time interval between the application of the impelling force and the arrival of the missile at a predetermined distance from its original position; a computing means connected to the timing means and to the electrical circuit means coacting with said force responsive devices for producing signals responsive to the horizontal and vertical force components imparted to the missile and for computing its velocity; and a display means actuated by said force component responsive signals and by said velocity signal for moving a display system in response to the horizontal and vertical force components of the struck missile to produce an image of the approximate trajectory of the struck missile in free flight.

2,715,339

## ABSOLUTE MICROMANOMETER

Richard E. Honig, Woodbury, N. J., assignor to Socony Mobil Oil Company, Inc., a corporation of New York  
Application August 9, 1950, Serial No. 178,400  
1 Claim. (Cl. 73-391)

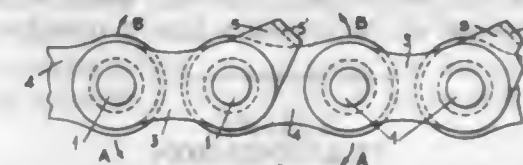


A micromanometer comprising a chamber, a sensitive flexible bellows vertically displaceable in response to pressure disposed within said chamber, there being an opening in the bottom of said chamber, said bellows sealingly surrounding said opening, a conduit affixed to said opening and communicating with the interior of said bellows, means for limiting vertical displacement of said bellows, conduit means connecting said conduit and said chamber on the exterior of said bellows, a valve in said conduit means arranged to shut off and open said conduit means at will, a mechano-electronic transducer having an element displaceable to change the electrical characteristics of said transducer in proportion to the extent of displacement, said transducer having a lead portion at which changes of said electrical characteristics may be utilized, a housing sealingly enclosing a portion of said chamber at the top, said chamber having an opening at the top enclosed by said housing, and said mechano-electronic transducer being mounted in said housing with the said lead portion positioned outside of said housing, means responsive to changes in the electrical characteristics of said transducer to record said changes, an elongated, rigid screw affixed to the top of said bellows, said screw extending through the last said opening and terminating in an adjustable screw cap, a needle maintained in contact with said screw cap, an extension arm holding said needle in a vertical position, said arm being attached to the displaceable element of said mechano-electronic transducer and an observation window in the wall of said housing, affording visual examination of said screw cap and said needle.

2,715,340

## ROLLER TRANSMISSION CHAINS

Mario Acri, Asti, Italy, assignor to Fabbrie Riunite Way-Assauto, Asti, Italy  
Application April 24, 1951, Serial No. 222,718  
Claims priority, application Italy April 29, 1950  
6 Claims. (Cl. 74-245)

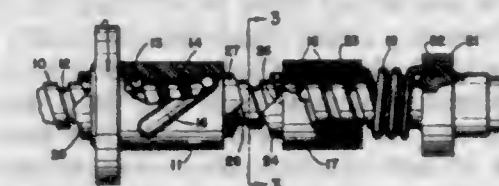


1. In a roller transmission chain the combination, with a plurality of pivoting members and links connecting said pivoting members, of stop levers disposed at intervals on the chain equal to multiples higher than one chain pitch, said stop levers being mounted on said pivoting members with a tight fit and adapted to engage the adjacent links to limit in one direction the value of the angle between two adjacent links of the chain.

2,715,341

## BUMPER STOP

Walter H. Hogan, Olmsted Falls, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio  
Application December 30, 1954, Serial No. 478,655  
7 Claims. (Cl. 74-424.8)

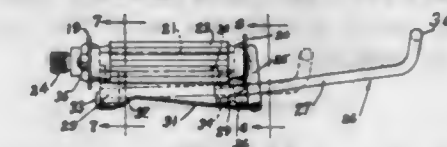


1. In combination a screw formed with a helical thread, a cooperating nut member threaded on said screw, said nut member and screw being mounted for relative rotational and axial motion therebetween, a bumper stop member on said screw formed with a thread engaging said screw thread, one of said members being formed with a first axially facing surface inclined relative to said screw thread, the other of said members being formed with a second surface engageable with said first surface and resilient means resisting motion of said bumper stop relative to said screw by virtue of engagement between said surfaces.

2,715,342

## TANDEM ATTACHMENT FOR BICYCLES

Herbert N. Ridgway, Winthrop, Mass.  
Application September 4, 1952, Serial No. 307,799  
4 Claims. (Cl. 74-594.7)



1. An extensible bicycle pedal for a bicycle having tandem seats, said pedal comprising a main pedal member having a frame presenting inner and outer end members connected by a hub member adapted to be pivotally mounted on a crank arm spindle of the bicycle, tread-carrying rods extending from one end member to the other, main tread elements mounted on said rods, a plate mounted on said rods outside of the outer end member and extending below the latter, said plate having two openings located below said outer end member, an auxiliary extensible tread member presenting a U-shaped body, the arms of which extend through said openings, a cross-bar rigidly connecting the inner ends of said arms and located beneath the main tread elements, said auxiliary tread member being adjustable between an inopera-

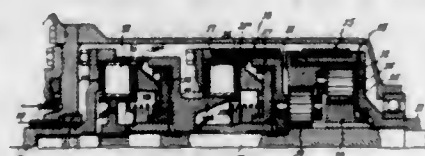


tive retracted position in which the major portion thereof is located directly below the main treads, and an extended operative position in which it is projected beyond the main treads sufficiently to provide foot room for a second rider of the bicycle, said cross-bar having sliding engagement with the hub member during such adjusting movement and cooperating with said plate to limit outward movement of the auxiliary treadle member.

2,715,343

## TRANSMISSION

Harold T. Youngren, Birmingham, Mich., and Herdis George English, La Grange, and Sidney V. Hettinger, Jr., Westchester, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois  
Application February 2, 1949, Serial No. 74,098  
1 Claim. (Cl. 74-765)



In a transmission, the combination of a drive shaft, a driven shaft, a planetary gear set having first and second driving elements and a third driven element, said third element being connected to said driven shaft, means for completing a one to one drive power train between said shafts and including a first clutch for connecting said first element with said drive shaft and a second clutch for connecting said second element with said drive shaft which complete the one to one power train when both are engaged, each of said clutches comprising an inner cylindrical part and an outer cylindrical part, the inner part of each clutch having a plurality of clutch discs fastened to it on its outer periphery and the outer part of each clutch having a plurality of clutch discs fastened to it on its inner periphery and interleaved with the first named clutch discs for frictional engagement therewith to connect the inner and outer parts of the clutch together, the outer part of said first clutch being connected to the inner part of said second clutch and to said drive shaft, the inner part of said first clutch being connected to said first driving element and the outer part of said second clutch being connected to said second driving element, and means for completing a change speed drive between said drive and said driven shafts including a brake for said second driving element and said first clutch, said first clutch and brake completing the change speed power train when both are engaged, the outer peripheral surface of the outer part of said second clutch defining a smooth cylindrical brake drum and said brake comprising a friction band engageable with the outer peripheral surface of said drum.

2,715,344

## PLANETARY GEAR TRANSMISSION FOR DRILLING APPARATUS

Armais Arutunoff, Bartlesville, Okla.  
Original application October 15, 1949, Serial No. 121,579.  
Divided and this application May 18, 1951, Serial No. 227,047

1 Claim. (Cl. 74-801)

A multi-stage planetary power transmission between a driving shaft and a coaxial driven shaft comprising a yoke connected to one of said shafts and carrying planet gears, a second yoke coaxial with said first yoke carrying planet gears and also carrying a sun gear meshing with said first planet gears, an axial passageway through said second yoke, an axial bolt extending through said passageway and having one end extending past the end of the sun gear on said second yoke into a socket

formed in the adjacent face of said first yoke, a thrust bearing in said socket secured respectively to said socket and to the end of the bolt, stop means on the other end of said bolt bearing against said second yoke, said bolt,

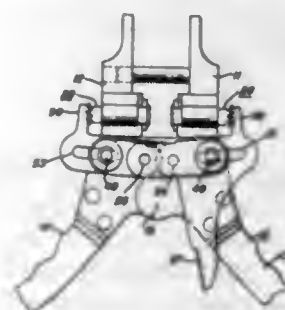


stop means and thrust bearing locking said yokes together against relative axial movement, a sun gear carried by the other shaft meshing with the planet gears carried by said second yoke, and a stationary reaction orbit gear in mesh with each of said planet gears.

2,715,345

## ARTICULATED ACTUATION DEVICE ASSOCIATED WITH SHIFTABLE CARRIAGES

Walter J. Rozmus, Whitesboro, N. Y., assignor to Utica Drop Forge & Tool Corporation  
Application March 24, 1954, Serial No. 418,367  
5 Claims. (Cl. 78-82)

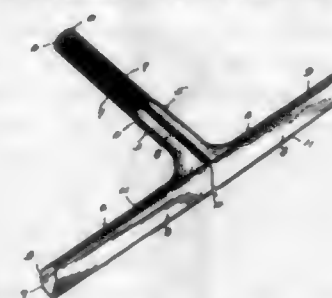


1. A tool having first and second carriages relatively movable with respect to one another along a path, first and second drive handle members, a toggle drive system interconnecting said first and second handle members with said first and second carriage members respectively to convert pivotal movement of said handle members into movement of said carriages along said path, said toggle drive system including first and second pivot pins having a relative movement substantially identical to the relative movements of said first and second carriage members, first and second articulated actuation units, said first unit having a first and second link pivotally joined in end-to-end relationship, said first link having a hole fitted over said first pivot pin, said second link having an elongated slot fitted over the second pivot pin, an actuation lever carried by one of said first and second links, said second unit having a third and fourth link pivotally joined in end-to-end relationship, said fourth link having a hole fitted over the second pivot pin, mechanical interconnection means between said first and second units transferring drive movement from said first unit to said second unit upon actuation of the actuation handle of the first unit, and extension finger means from each unit to power the movement of fixtures carried by said first and second carriages.

2,715,346

## PIPE NIPPLE EXTRACTOR

Columbus A. Thomas, Jr., West Palm Beach, Fla.  
Application November 10, 1953, Serial No. 391,275  
2 Claims. (Cl. 81-72)

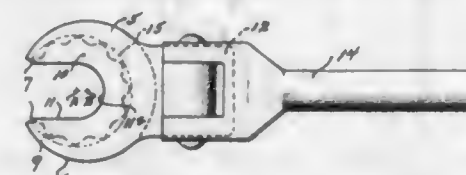


1. A nipple extracting tool comprising opposed disconnected members, each of said members embodying a pair of extensions extending at right angles with respect to each other, each of said extensions having a rounded surface and a flat surface, the flat surfaces of one of the respective extensions of each member adapted to be placed together providing a rounded tool for positioning in a nipple, the other extensions of said members extending laterally away from each other and providing a cross handle for effecting rotation of the tool and nipple within which said tool is positioned.

2,715,347

## WEBBED OPEN-END BOX WRENCH

Richard N. Johnson, Los Angeles, Calif., assignor to Tubing Appliance Company, Inc., a corporation of California  
Application December 2, 1952, Serial No. 323,589  
3 Claims. (Cl. 81-121)



3. A box wrench, comprising: a head element having end and side wall means defining a substantially cylindrical outer contour and inner wall means defining a workpiece-receiving cavity opening inwardly from one end face of said head element and having its workpiece-engaging axis offset from a longitudinal axis of said cylindrical outer contour of said head element, whereby the wall means defining said cavity is substantially crescent shaped in transverse section and provides a thickened reinforcing portion at one side of said head element; the end and side wall means of said head element having merging slots communicating with said cavity; the slot of said end wall means extending toward said one side of said head and beyond the axis of said cavity; the imperforate portion of said end wall means forming a tension web overlying said cavity and further reinforcing the side wall means thereof; and means for attaching an operating shank to said head element.

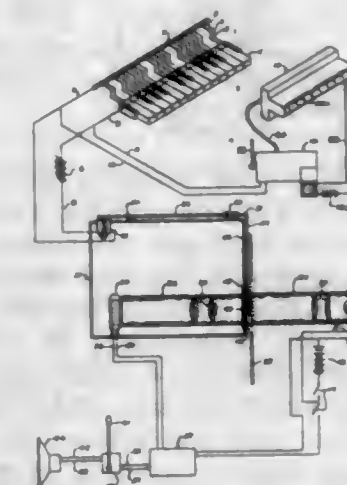
2,715,348

## ELECTRONIC MUSICAL INSTRUMENT

Alfred O. Williams, Richland, Mich.  
Application August 17, 1951, Serial No. 242,292  
10 Claims. (Cl. 84-128)

1. In an electrically operated instrument utilizing a series of light beams with uniform interruption frequencies for producing different musical notes having frequencies corresponding to those of said light beams, the combination of a series of gate members with each gate member controlling the passage of one of said light beams, a series of actuatable operating members each of which includes closable electric contacts, electric circuit means operatively connecting the electric contacts of each operat-

ing member of said series to means for actuating a corresponding gate member of said gate member series, said means for actuating said corresponding gate member when the electric circuit through the contacts of the corresponding actuatable operating member are closed by actuation of the latter comprising an electro-magnet, an electric circuit shifting means including a series of electric contacts in pairs with one pair in each of said electric circuits which are closable by actuation of an operating member of said series of actuatable operating

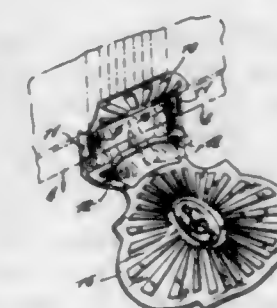


members, said pairs of contacts being equally spaced sidewise from each other as well as one contact of each pair being movable sidewise relative to the other such that by moving one contact of a pair sidewise in unison with the other like contacts they will connect with the opposite contact of other pairs of contacts and this, in turn, will electrically connect each actuatable operating member, when operated, to a different electro-magnet and thus change the pitch of the notes played by same, and means for shifting said like contacts in unison relative to the like opposite contacts of said pairs.

2,715,349

## SCUFF PAD FOR PIANO PEDALS

Irving F. Kult, Cleveland, Ohio  
Application December 11, 1952, Serial No. 325,249  
3 Claims. (Cl. 84-183)

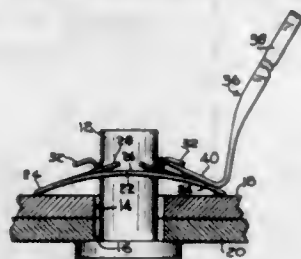


1. In a scuff pad for use with piano pedals, two separable members one of which comprises a vertical guard frame adapted to be attached to the kick board of a piano, said frame having side posts adapted to straddle the piano pedals, and the other member of which comprises a mat adapted to lie on the floor in front of the pedals, and fastenings carried by one of said members adapted to be swung transversely into interengaging relation with the other member for releasably attaching the mat to the frame, each of said fastenings comprising an oscillatable pivot portion disposed at right angles to said kick board and a latch portion disposed in a plane at right angles to said pivot portion, said other member having a slot to receive said latch portion and said slot being of greater height than said latch portion.



2,715,350

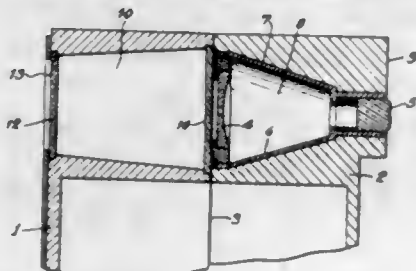
**SHEET METAL NUT WITH RELEASING AND ENGAGEMENT LIMITING MEANS**  
 William A. Bedford, Jr., North Scituate, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Boston, Mass., a corporation of Delaware  
 Application August 18, 1953, Serial No. 374,966  
 2 Claims. (Cl. 85—36)



1. A sheet metal nut for assembly onto a stud, comprising a base having a central opening, a pair of resilient arms disposed on the base and extending generally toward each other to receive the stud therebetween, said arms each having biting edges at the ends for engagement with a stud, said biting edges on each arm being disposed angularly in relation to each other to form a medial notch in the end of the arm, and a tongue member formed on the end of each arm between the biting edges, said tongue member being curled back on the arm to provide a rounded nose portion disposed between the biting edges and terminating in a free end portion extending away from the end of the arm substantially parallel to the arm and in spaced relation thereto.

2,715,351

**VIEWFINDER IN A CAMERA CASING**  
 Rudolf Taesler, Stuttgart, Germany, assignor to Zeiss Ikon A. G., Stuttgart, Germany  
 Application July 3, 1952, Serial No. 297,073  
 Claims priority, application Germany July 7, 1951  
 4 Claims. (Cl. 88—1.5)



1. In a motion picture camera, a casing consisting of a front part and a rear part adapted to permit access to the interior of the casing for exchanging of film, a joint being formed where said front and rear parts meet each other when the casing is closed, a finder mounted in said casing and having a finder shaft extending through both said casing parts, said finder including an optical system mounted in said rear part in such a manner that the optical axis of said system intersects the plane in which said joint is arranged, said optical system comprising a mount, a finder lens and an ocular lens, said optical system being mounted as an assembled unit into the rear part of said camera casing.

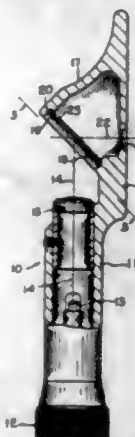
2,715,352

**RETINOSCOPE**

Frederick W. Jobe, Brighton, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York  
 Application April 5, 1954, Serial No. 420,877  
 3 Claims. (Cl. 88—20)

1. A retinoscope comprising a base having an upstanding plate with a sight opening therethrough, a light source in the base, and a reflecting means mounted on said plate in optical alignment with the light source and inclined with respect to the rays from said source, said reflecting

means comprising a base having a transparent central portion, a transparent reflecting film of titanium dioxide on one surface of said last-named base, and an opaque

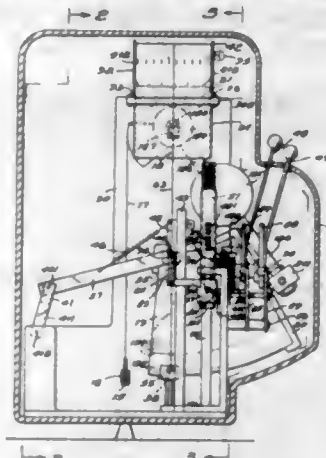


reflective coating superimposed on the transparent film and having a sight aperture therethrough in alignment with the sight opening in the plate, whereby the eye of a patient may be illuminated for examination.

2,715,353

**MOUNTING MEANS FOR OPTICAL PROJECTION SYSTEM FOR WEIGHING SCALES**

Ernst Kuhnle, Balingen, Germany  
 Application December 12, 1951, Serial No. 261,214  
 Claims priority, application Germany December 18, 1950  
 4 Claims. (Cl. 88—24)



1. In a weighing scale, mounting means for an optical projection system, comprising in combination, a stationary bar member; means supporting said stationary bar member with one end thereof higher than the opposite end thereof; a holding member connected to the optical system and located adjacent to said bar member; a pair of rollers rotatably mounted on said holding member and respectively engaging opposite sides of said bar member so as to guide said holding member and optical system therewith for movement along said bar member; spring means operatively connected to said holding member for tending to turn the same about an axis transverse said bar member so as to urge said rollers against said bar member; and a diapositive carrying weighing scale indicia and positioned in the scale to have a portion of the diapositive projected by the optical system, the latter being movable with said holding member to locate said optical system in a desired position with respect to said diapositive.

2,715,354

**PHOTOGRAPHIC OBJECTIVE WITH WIDE RELATIVE APERTURE**

Sakuta Suzuki, Chuoku, Tokyo, and Michisaburo Hamano, Shibuyaku, Tokyo, Japan  
 Application January 28, 1954, Serial No. 406,624  
 Claims priority, application Japan May 9, 1953  
 1 Claim. (Cl. 88—57)

A photographic objective comprising a lens system corrected for different aberrations, and a further lens

system disposed between the back surface and back focus of the lens system and spaced apart from said back surface, characterized in that said further lens system comprises five lens elements separated by an air medium into three sections, the first section comprising a plano-convex lens element with a plane portion thereof opposed to said lens system, the second section comprising a dioptric combination comprising a plano-concave lens element with a plane portion thereof united with a plane portion of a further plano-convex lens element, the third section comprising a dispersive combination comprising a further plano-concave lens element with a plane portion thereof united with a plane portion of an additional plano-convex lens element, and said first, second and third sections being arranged so that all of the spherical surfaces of three sections in contact with the air medium exclusive of the plane portion of the first section are concave toward said lens system, whereby the position of the back focus of said further lens system is disposed as far rearward as possible



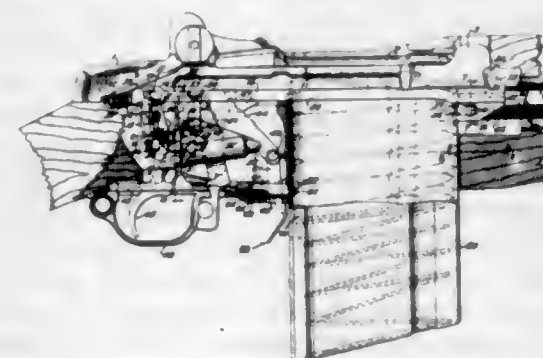
wherein the radii of the convex spherical surface of said plano-convex element range from 42 to 50% of the focal length of said objective and thicknesses thereof from 11.4 to 8% of the focal length; the radii of the concave spherical surface of said plano-concave element from 36 to 48% of the focal length and thicknesses thereof from 3.6 to 1.5% of the focal length; the radii of the convex spherical surface of said further plano-convex element from 30 to 40% of the focal length and thicknesses thereof from 18 to 14% of the focal length; the radii of the concave spherical surface of said further plano-concave element from 30 to 36% of the focal length and thicknesses thereof from 3.2 to 1.4% of the focal length; and the radii of the convex spherical surface of said additional plano-convex element from 42 to 54% of the focal length and thicknesses thereof from 14 to 9% of the focal length, and wherein the distances between said first and second sections range from 1.8 to 0.8% of the focal length, and the distances between said second and third sections range from 1.4 to 0.6% of the focal length.

2,715,355

**FIRE CONTROL MECHANISM**

John C. Garand, Springfield, Mass.  
 Application July 23, 1945, Serial No. 606,699  
 28 Claims. (Cl. 89—140)

(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an automatic firearm having a receiver and a reciprocating member, in combination, a spring pressed hammer arranged to strike a firing member, a sear engageable with said hammer to secure said hammer in a cocked position, a sear release member movably mounted on the firearm and cooperating with said sear to move

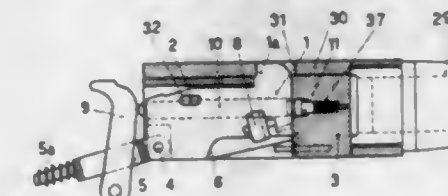
said sear out of engagement with said hammer, a link slidably mounted on said receiver for movement with said reciprocating member as said reciprocating member approaches its battery position, and a compressed spring interposed between said link and said sear release member whereby forward movement of said link is transmitted without shock to said sear release member to release said sear from said hammer.

2,715,356

**CLOSING BLOCK WITH PERCUSSION SAFETY FOR AUTOMATIC GUNS**

Stestilio Fiorini, Brescia, Italy, assignor to Societa Italiana Ernesto Breda per Costruzioni Meccaniche, Milan, Italy

Application March 9, 1950, Serial No. 148,549  
 Claims priority, application Italy March 17, 1949  
 1 Claim. (Cl. 89—164)



In a recoil-operated gun, the combination with a recoiling barrel-extension having a locking slot therein, and a breech-block reciprocable axially in and relative to said barrel extension, of a locking block mounted in said breech block and having a locking tooth formed thereon to engage in said locking slot to lock said breech-block to said barrel extension, said locking block being mounted in said breech block for pivotal and sliding movements relative to said breech block, the pivotal and sliding mounting for the locking block comprising a pivot pin secured to one of the two named blocks and an elongate slot formed in the other named block in which said pin engages, a percussion rod slidable longitudinally in said locking block and disposed to be in operative, firing position when said locking tooth is engaged in said locking slot, resilient means for rocking said locking block in one direction about said pivot pin to move said locking tooth into locking engagement with said locking slot, and means for rocking said locking block in the opposite direction about its pivot to disengage said locking tooth from said locking slot, said locking block having a plane front surface, and said breech block having a plane surface against which said plane front surface is adapted to abut and seat when said locking tooth is in engagement with said locking slot, said plane surfaces and said elongate slot permitting the thrust of recoil to be taken by the locking block, the breech block, and the barrel extension without being transmitted to said pivot pin.

2,715,357

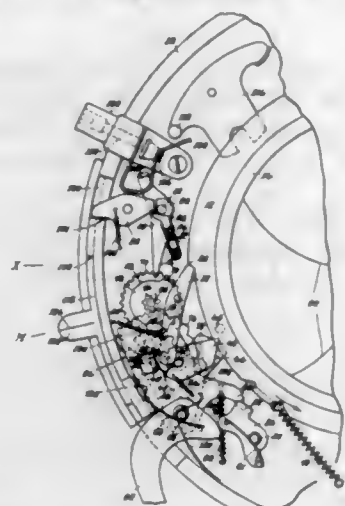
**PHOTOGRAPHIC OBJECTIVE CLOSING DEVICE WITH A FLASHBULB SYNCHRONIZER**

Kurt Gebele, Munich, Germany, assignor to Friedrich Wilhelm Deckel, Post Tutzing, and Hans Deckel, Munich-Solln, Germany  
 Application September 4, 1951, Serial No. 245,017  
 3 Claims. (Cl. 95—11.5)

1. In a mechanism of the class described, a photographic objective closing device having a housing, an exposure opening in said housing, a plurality of shutter blades movable between closed and open positions, a master member movable between tensioned and run-down positions to cause an opening and closing movement of said shutter blades, a releasable latching member movably mounted in said housing to hold said master member in its tensioned position, a flashbulb circuit arranged in said housing, a contact device in said flashbulb circuit, a switch member arranged in said housing



and movable to close said contact device in said flashbulb circuit, a settable synchronizer member having a predetermined run-down time interval and actuating during its run-down movement said switch member to close said contact device in said flashbulb circuit and thereafter actuating said latching member to cause the release and the run-down movement of said master member and thereby to cause the movement of said shutter blades for opening and closing the exposure opening, a reten-



tion mechanism in permanent engagement with said synchronizer member to delay its run-down movement, said retention mechanism including an escapement and an oscillable anchor cooperating with said escapement, and adjustable means for effecting a disengagement of said anchor with said escapement, whereby the retention effect of said retention mechanism and thus the time interval of the run-down movement of said synchronizer member is reduced approximately to zero.

2,715,358

#### SLIDE LOCKING DEVICE FOR PHOTOGRAPHIC FILM HOLDERS

William G. Clayton, Oceanside, Calif., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware  
Application December 26, 1950, Serial No. 202,760  
2 Claims. (Cl. 95-71)



1. In a photographic film holder of the type comprising a frame and a film covering slide movable in and out of said frame, for use in cameras having a spring-loaded back plate which presses the inserted holder against the camera body, the improvement of locking means for said slide including a button extending from said frame and having a body portion movable inwardly against a spring, a projection on said body portion, a notch in said slide cooperating with said projection for locking said slide, said projection having a ramp adapted to be engaged by the side of said slide for depressing said spring when the slide is inserted in said holder and said body portion having an inclined portion extending inwardly and laterally providing passage for said notch of said slide past said button.

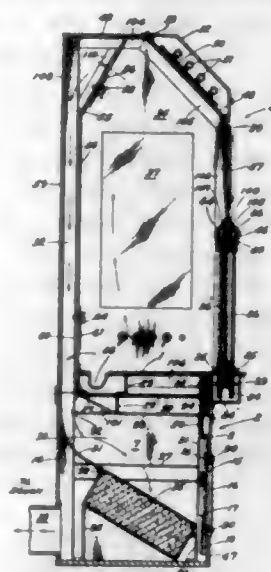
2,715,359

#### LABORATORY HOOD

Alexander D. Mackintosh and Thomas W. Hungerford, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission  
Application October 30, 1950, Serial No. 192,987  
6 Claims. (Cl. 98-115)

1. A chemical hood of the character described comprising a working surface, a normally closed enclosure for

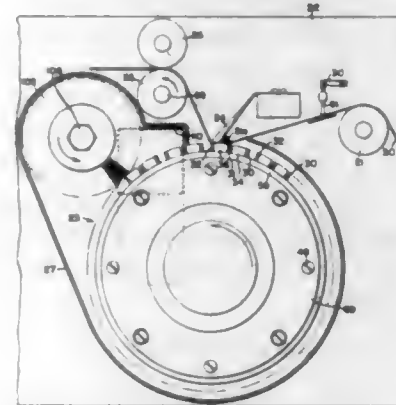
enclosing the working surface, a vacuum source for applying a suction pressure to the enclosure for removing fumes, a by-pass duct normally open to the atmosphere external to the enclosure communicating with said source for bringing the source into communication with the at-



2,715,360

#### ELECTRICAL PRINTING APPARATUS

George T. Brown, Jr., Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland  
Application March 3, 1950, Serial No. 147,554  
20 Claims. (Cl. 101-92)

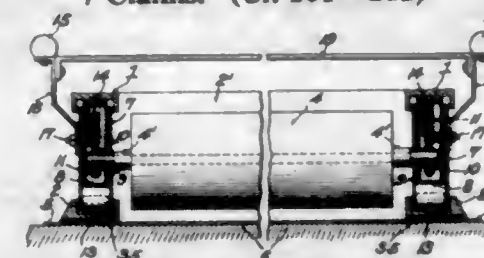


1. In an apparatus for printing electrically on electro-sensitive record material, the combination of a matrix-bearing member having a row of multi-electrode matrices thereon, all of the matrices having the same electrode arrangement and each matrix being capable of forming any of a plurality of configurations, the electrodes of each of said matrices being controllable selectively to be effective in a printing operation to cause any desired one of the plurality of predetermined possible configurations to be printed; selective means to control the effectiveness of the electrodes of the matrices to control the configuration to be printed; means to operate the number to move the matrices in succession past a printing point; means to feed record material past the printing point; and means including further electrode means at the printing point cooperable with the record material and selected electrodes of the matrix while the record material and the electrodes are being moved past the printing point in a printing operation to cause current to pass through the record material in a pattern according to the control exerted by the matrix to produce marks having the required configuration on the record material.

2,715,361

#### PORTABLE PRINTING DEVICES

Robert C. Lasseter, Murfreesboro, Tenn.  
Application June 13, 1951, Serial No. 231,385  
7 Claims. (Cl. 101-212)

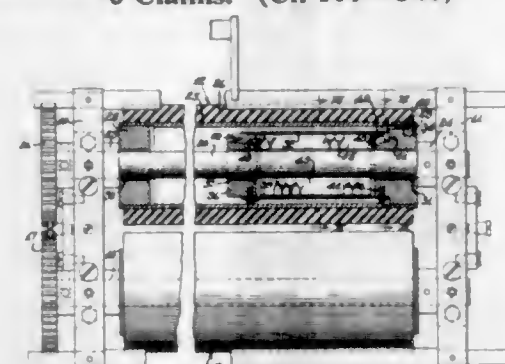


1. A portable printing device comprising an open bottom frame made up of opposite spaced parallel sides and opposite spaced ends, an impression roller within said frame extending between the parallel sides thereof and provided with journals at its opposite ends, carriages supported upon said parallel sides of the frame and mounted to traverse the same between the ends thereof, a spring supported bearing mounted on each carriage, each of the journals of the roller being mounted in one of the bearings, and a handle member connected to each of said bearings.

2,715,362

#### DIRECT DRIVE FORM ROLLER FOR PRINTING PRESSES

David D. Vandercook, Evanston, Ill., assignor to Vandercook and Sons, Inc., Chicago, Ill., a corporation of Delaware  
Application July 21, 1951, Serial No. 237,915  
6 Claims. (Cl. 101-348)

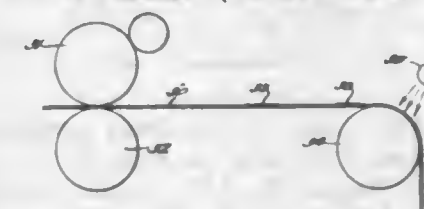


1. In a form roller assembly for printing machines, a drive shaft, means for driving said shaft, a form roller having a resilient outer surface disposed along a portion of said shaft, a resiliently deformable coupling means including a plurality of cylindrical segments of a resiliently deformable material concentric with said shaft and within said form roller, means interconnecting said shaft and said segments in driving connection, and means interconnecting said segments with said form roller in driving relation, whereby rotation of said drive shaft drives said form roller while permitting relative angular displacement between said shaft and said roller due to the inherent resiliency of said segments.

2,715,363

#### PRINTING ON POLYETHYLENE

Kelth S. Hoover, Elmhurst, Ill., assignor to A. B. Dick Company, Niles, Ill., a corporation of Illinois  
Application February 2, 1951, Serial No. 209,075  
4 Claims. (Cl. 101-426)



1. In the method of printing on polyethylene, the steps of applying ink containing infra-red ray absorb-

ing, heat generating material in the desired image on the surface of polyethylene which is relatively non-infra-red ray absorbing, and directing radiations having high intensity of infra-red onto the ink imaged polyethylene in amount sufficient rapidly to build up a heat pattern in the inked areas which softens the underlying portion of the polyethylene to achieve anchorage of the ink image thereto while the non-imaged portions of the polyethylene remain substantially unaffected.

2,715,364

RUDDER-EYE COUPLING FOR HOMING BOMB  
Willard E. Buck, Inyokern, Calif., and Paul Travers, Cambridge, Mass., assignors to the United States of America as represented by the Secretary of War  
Application July 1, 1947, Serial No. 758,254  
5 Claims. (Cl. 102-3)



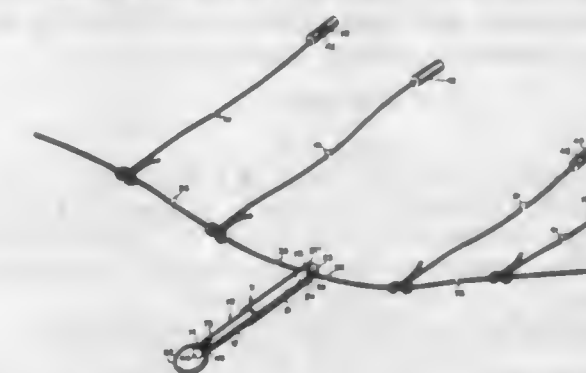
1. A homing bomb having a control system comprising an eye sensitive to radiant energy, said eye being capable of scanning an area about the extended axis of the eye, a tail structure containing rudder and elevator control surfaces, means for controlling said surfaces in accordance with signals from said eye, and coupling means between each of said control surfaces and said eye for rotating the axis of the eye through an angle with respect to the bomb's axis that is opposite in direction to the angle with respect to the bomb's axis through which the corresponding control surface is rotated.

2,715,365

#### DEMOLITION FIRING DEVICE

Paul Leon Godchaux II, New Orleans, La., and Charles A. Borchert, Silver Spring, Md.  
Application May 9, 1947, Serial No. 747,117  
7 Claims. (Cl. 102-27)

(Granted under Title 35, U. S. Code (1952), sec. 266)

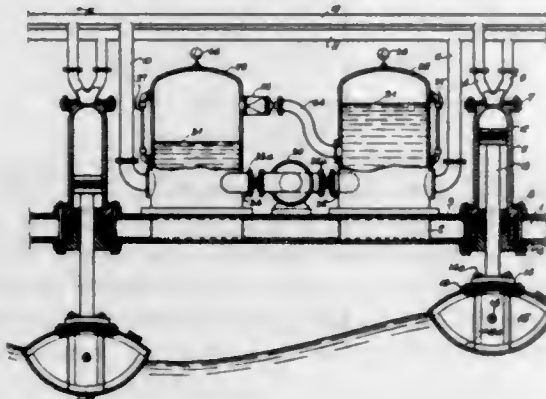


1. A demolition firing device comprising an elongated casing, a head secured to one end of said casing and having a slot formed therein, said slot comprising a restricted portion and a circular portion for receiving and quickly locking an explosive cord of greater diameter



than the width of said restricted portion to said head as the cord is forced through the restricted portion into said circular portion, a slow burning time delay element arranged within said casing, a releasable firing means slidably arranged within the casing and adapted to be moved a predetermined amount to an armed position, means releasably secured to said firing means for actuating the firing means to said armed position, a pair of complementary inclined cam surfaces arranged on the firing means and the actuating means respectively for releasing said firing means as the firing means is moved to said armed position, resilient means operatively engaging said firing means for urging the firing means from said armed position to a firing position as the firing means is released thereby to fire said time delay element, a detonator fired by the time delay element in predetermined time delayed relation with respect to the firing of the delay element, an explosive charge arranged within said head in abutting engagement with said detonator and fired thereby, and a wall on said head composed of relatively thin material in abutting engagement with said explosive charge and said explosive cord and effected by the force of the explosion as the explosive charge is fired for applying sufficient shock to said cord to cause detonation thereof.

**2,715,366**  
**APPARATUS FOR DERIVING POWER FROM THE WAVES OF A BODY OF WATER**  
Aarne Johannes Vartiainen, Helsinki, Finland  
Application September 4, 1951, Serial No. 245,042  
9 Claims. (Cl. 103-68)

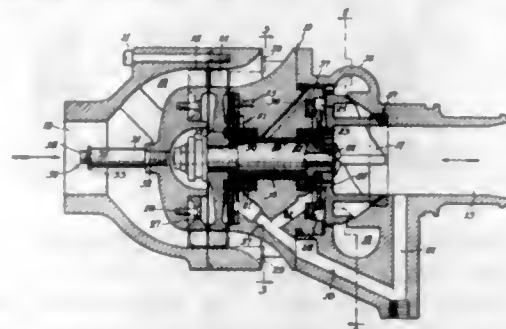


1. Apparatus for deriving power from the waves of a body of water, comprising, in combination, a rigid platform; a plurality of cylinders mounted on said platform and extending upwardly therefrom; a plurality of pistons mounted in said cylinders; a plurality of piston rods respectively connected to said pistons and extending through said platform to the underside thereof; a plurality of floats respectively connected to said piston rods and supporting said platform above the body of water so that said platform and said cylinders tend to move by gravity downwardly along said pistons; and conduit means communicating with said cylinders for supplying a fluid thereto so that said pistons will drive the fluid from the cylinders to produce a source of power.

**2,715,367**  
**PUMP AND TURBINE FOR JET POWER UNIT**  
Gustav Kodet, Cleveland, Norman B. Dewees and Leland R. Melvin, Willoughby, and Louis G. Burns, Painesville, Ohio, assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois  
Application April 6, 1949, Serial No. 85,884  
9 Claims. (Cl. 103-87)

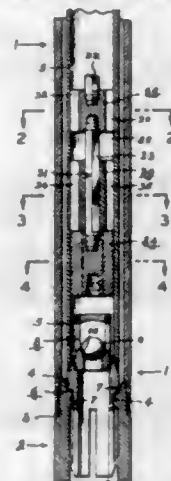
1. A thrust balancing arrangement for a pump including a housing, a shaft journaled in said housing, means for rotating said shaft, said rotating means applying an axial force to said shaft in one direction, a fluid impeller mounted on said shaft and driven by said shaft, a thrust balancing disc mounted on said shaft, bearing means

mounted in said housing adjacent said thrust balancing disc to support any thrust load on said balancing disc, passage defining means applying the fluid pressure developed by said impeller to one side of said balancing disc to counteract the axial force applied to said shaft by said rotating means, passage defining means communicating



the fluid pressure upstream of the impeller to the opposite side of said thrust balancing disc, and means on said opposite side of said thrust balancing disc reducing the effective area thereof whereby the effect of the pressure applied thereto may be controlled, said last-mentioned means comprising an annular shoulder formed on said opposite side of said disc and arranged to engage said bearing means.

**2,715,368**  
**WELL PUMP PLUNGER**  
Clyde L. Pate, Oklahoma City, Okla.  
Application August 7, 1953, Serial No. 372,837  
2 Claims. (Cl. 103-225)



1. A plunger for well pumps of the vertically reciprocating type, including: a solid upper head adapted to be connected to the lower end of a pumping rod-string; diametrically opposed longitudinal channels in the surface of said head and extending from end to end thereof; an elongated depending rod connected to the lower end of said head, said rod being polygonal in cross-section; a solid lower head carried by the lower end of said rod; diametrically opposed end to end external channels along the surface of said lower head, said channels being staggered with relation to the channels in the upper head; a tubular sleeve valve slidably disposed on said rod and held against rotation with relation thereto; diametrically opposed end to end channels in the surface of said valve, said channels circumferentially spaced to conform to the first mentioned channels to form continuations thereof when the valve is at the upper end of its travel, said valve adapted to close the upper ends of the channels in the lower head when it is at the lower end of its travel.

**2,715,369**  
**RAILROAD CAR HANDLING APPARATUS**  
Emil J. Doehler, Buffalo, N. Y.  
Application August 25, 1953, Serial No. 376,343  
1 Claim. (Cl. 104-26)

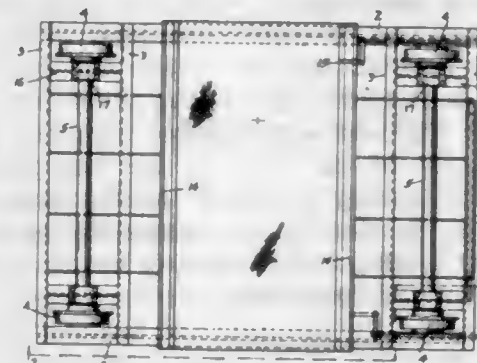
In a railroad car handling device including an endless chain arranged in parallel relation to the portion of

a track in a position in which the upper run of the chain may contact with the undersurface of railroad car trucks on said portion of track, that improvement which comprises a rigid support along which the upper run of said chain moves, and a series of individual cushioning devices arranged in succession lengthwise of the outer surface of said chain for engagement with said trucks, said



cushioning devices being in the form of pneumatic tubes mounted on the outer surfaces of said chain, and smaller tubes arranged within said first mentioned tubes, the outer surfaces of said smaller tubes being spaced from said first mentioned tubes, so that pressure will be applied by said first mentioned tubes to said inner tubes only after initial deflection of said first mentioned tubes.

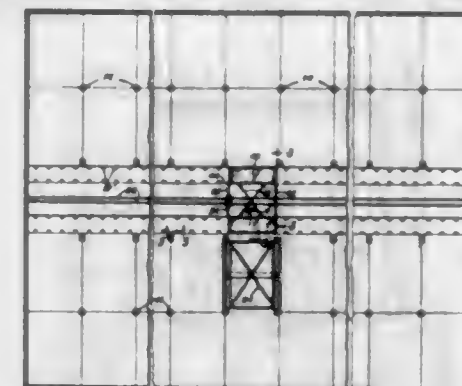
**2,715,370**  
**KILN CAR**  
James T. Robson, Cleveland Heights, Ohio, assignor to Ferro Corporation, Cleveland, Ohio, a corporation of Ohio  
Application March 17, 1953, Serial No. 342,810  
2 Claims. (Cl. 104-48)



1. A transfer car of the character described comprising a pair of parallel, T-shaped stringers and two parallel sills fixed at their ends to the ends of said stringers forming a rectangular frame, the head of the T abutting against the lower faces of said sills and the stem of the T extending downwardly, an additional sill fixed upon said stringers near each end of said frame spaced apart from the end sill and parallel thereto, an axle disposed between each of the resulting two pairs of spaced sills, cross-bars extending between said spaced sills parallel to said stringers, said cross-bars carrying bearings in which said axles are journaled, the ends of said axles being located between said stringers and said cross-bars, a wheel carried upon each end of said axles inwardly of said stringers and outwardly of said bearings with the wheel tread level approximately coplanar with the heads of said T-shaped stringers, and transverse kiln-car tracks carried between said stringers and upon the upper surface thereof disposed between said inner sills, the ends of said kiln-car tracks terminating just beyond the outer edge of said stringers.

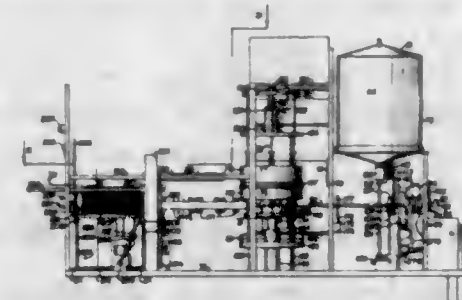
**2,715,371**  
**PARKING GARAGE**  
Harry C. Grossman, Baltimore, Md.  
Application May 11, 1950, Serial No. 161,283  
2 Claims. (Cl. 104-135)

1. In a parking garage having floors and a platform adapted for transporting vehicles, a pair of horizontal recesses in a floor of the garage spaced apart and parallel, casings adapted to contain lubricant and set in the bottoms of said recesses in side by side longitudinally spaced pairs in each recess and each having side portions extending



between the extending side portions of the casings in which the associated rollers are journaled and for guided movement over said rollers by said portions, said channel members being cross connected for unitary movement and adapted to be embodied in said platform.

**2,715,372**  
**AUTOMATIC WAFFLE IRON**  
James L. Whitsel, near Williamsburg, Pa.  
Application November 20, 1950, Serial No. 196,649  
8 Claims. (Cl. 107-4)



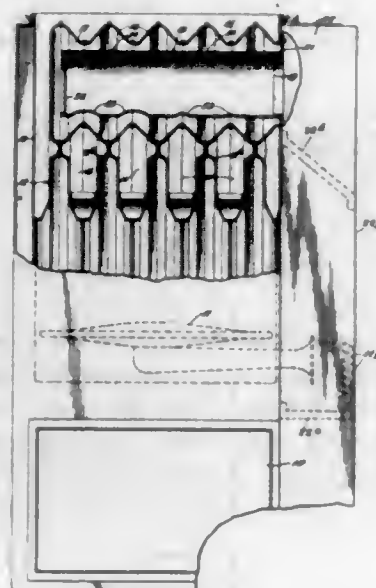
1. In an automatic waffle iron, the combination of a separable cooking iron assembly adapted to be supplied with batter from a batter supply means, a platform adapted to support a stack of serving plates mounted for altitudinal reciprocation in spaced relation with said cooking iron assembly at the side thereof remote from the batter supply means, transfer means horizontally shiftable between the cooking iron assembly and a position of registration above said platform, a pusher horizontally reciprocable across the upward projection of the platform position between said platform and the travel path of said transfer means, gear means rotatable to altitudinally adjust said platform, whereby to dispose the uppermost element of a plate stack carried by the platform in the plane of pusher reciprocation, a single shaft mounted for slow rotation about its axis at one side of and to span between said batter supply means and platform, a plurality of cams on and rotatable with said shaft, followers reactive to rotation of said cams, and linkages between appropriate such followers and the cooking iron assembly, transfer means, pusher, and gear means, whereby to apply a single rotation of said shaft to effect correlated actuation of the so-linked means and pusher and cooking iron assembly for the production and delivery of a cooked waffle.

**2,715,373**  
**BAFFLE TUBE FOR COMBUSTION CHAMBER**  
James C. Goodgion, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas  
Application March 10, 1951, Serial No. 214,979  
8 Claims. (Cl. 110-97)

5. In combination with a casing providing a combustion chamber and an outlet flue therefor, a tube in open com-



munication at one end with said flue and projecting inwardly therefrom across the chamber, said tube being substantially closed throughout its length except for at least one metering aperture provided therein, said metering aperture being located in the longitudinal peripheral surface of said tube to assume a preselected position

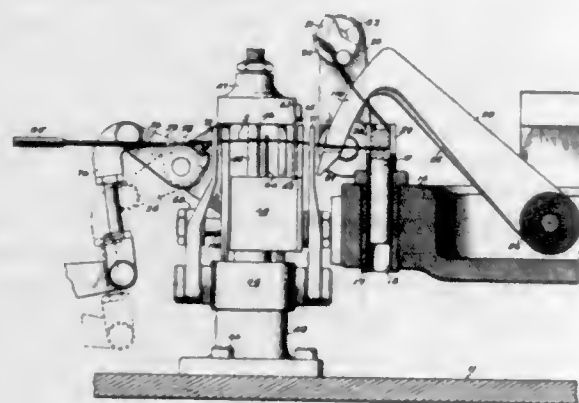


relative to said combustion chamber when said tube is mounted therein, and a support carried by said tube and providing asymmetrical fastening members alignable in one position of said tube with complementary fastening means provided by said casing so that said tube is mountable in said chamber with said aperture oriented in predetermined relation relative to the combustion chamber.

2,715,374

## TAMPON WITHDRAWAL STRING SEWING MACHINE

John A. Carrier, Lexington, Mass., assignor to Sanitary Products Corporation, Taneytown, Md., a corporation of Illinois  
Application November 20, 1950, Serial No. 196,618  
22 Claims. (Cl. 112-2)

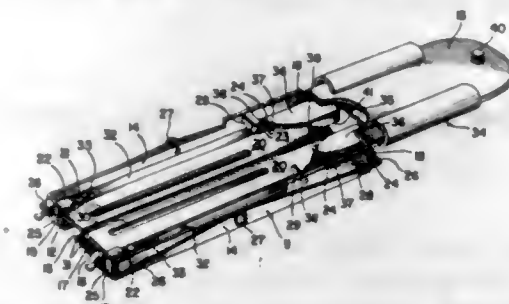


21. In a string attaching mechanism including a reciprocating needle having a means for receiving a string led from a supply source and anchored at a point remote from the tip of the needle when it is in retracted position; string extension means operative during advance of the needle to engage the string and maintain in that portion thereof between the tip of the needle and the point of anchorage an extent of string greater than the extent of a straight line between said point of anchorage and the tip of the needle when in its retracted position; and means operative when the needle tip reaches a predetermined point less than final in its advance to disengage said extension means from the string and thereby establish a condition of slack in the string before the needle reaches the final point in its advance.

2,715,375

## SEWING MACHINE ATTACHMENTS

Edward P. Spaine, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey  
Application January 26, 1954, Serial No. 406,142  
5 Claims. (Cl. 112-136)

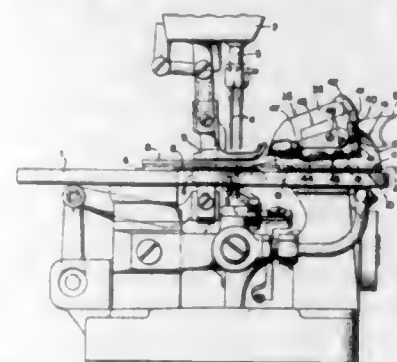


1. An attachment for use with a sewing machine in stitching to a body material a piping strip blank having a pair of opposed edges folded inwardly on one face of the blank along spaced parallel lines, the blank being secured to the body material by two lines of stitching arranged parallel to the fold-edges, one line of stitching being spaced inwardly a predetermined distance from each of the fold-edges and each line of stitching passing through the respective folded portion of the blank and the body material, said attachment comprising a base-plate having a pair of parallel open-ended needle slots therein spaced apart a distance equal to the desired spacing of the lines of stitching, friction means upon one face of said base-plate to inhibit sliding of the body material relative thereto, means for clamping a folded piping strip blank against the other face of the base-plate with the fold-edges thereof arranged parallel to and outwardly of the slots in the base-plate, said clamping means having a pair of needle slots therein registering with the slots in the base-plate, and releasable means for holding said clamping means in clamping relation with said base-plate.

2,715,376

## WORK-FOLDING GUIDES FOR SEWING MACHINES

Charles Hengstler, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey  
Application February 3, 1954, Serial No. 407,833  
2 Claims. (Cl. 112-147)



1. A work-folding guide for a sewing machine comprising a base member including a base-plate, a wall extending upwardly from said base-plate and arranged generally transverse to said base-plate intermediate the ends thereof, a shelf member carried by said wall and overhanging said base-plate at one side of said wall in a generally parallel relationship, said base-plate, wall and shelf member defining an open-ended slot for receiving and edge-guiding a first work-piece, a folder for underfolding the edge of a second work-piece and guiding the same in a predetermined relationship with the first work-piece, said folder consisting of an inner scroll element and an outer scroll element, said inner scroll element be-

ing secured to said base-plate at the side of said wall opposite to said shelf member and comprising an apron defining a supporting surface for said second work-piece and a scroll section formed adjacent the edge and arranged transversely thereof, said scroll section including a convex underfolded portion and a reverse folded concave portion terminating in a bottom wall arranged generally parallel to said apron, said outer scroll element comprising a concave scroll section cooperating with the scroll section of said inner scroll element to underfold the edge of the second work-piece and including a bottom wall substantially in contact with the bottom wall of the reverse folded concave portion of said inner scroll element, and means for supporting said outer scroll element for resiliently biased motion of the discharge end thereof toward and away from said inner scroll element, said means comprising a bracket secured to said shelf member and including an upstanding leg arranged transversely of said base member, means for mounting the forward end of said outer scroll element to the forward end of the upstanding leg for angular movement about an axis generally normal to said base member, and a leaf spring secured at one end to said upstanding leg and at the opposite end to said outer scroll element adjacent the discharge end thereof.

2,715,377

## METHOD OF FORMING HEADS FOR BOILERS, PRESSURE VESSELS, TANKS, AND THE LIKE

Hartwell H. Gary, Jr., Norfolk, Va.  
Application March 23, 1954, Serial No. 418,016  
4 Claims. (Cl. 113-121)



1. The method of making head closures for boilers, pressure vessels, tanks, and the like consisting in forming circular head closures with a plane head portion and a depending circumferential flange from flat sheet metal; providing a plane head portion with axial fluid conduit means in communication at its inner portion with the interior of said head closure and adapted to be connected at its outer portion to a source of fluid under pressure; positioning two of said head closures together, one of which being provided with a said fluid conduit means, in axial alignment and with their respective circumferential flanges in abutting relationship and with a circular metal ring member, having substantially the same outside diameter as the internal diameter of said flanges, positioned within said pair of head closures, with said ring member in substantially fluid-tight circumferential contact with the respective flanges of each head closure near the junction of the flange and plane head portion; circumferentially welding the flanges of said head closures together at their abutting surfaces; subjecting the plane head portions of said two welded together head closures to internal pressure by means of fluid under pressure introduced through said fluid conduit means, said fluid under pressure being of a value sufficient to bulge convexly the plane head portions of said welded together head closures to the desired radius of dish; relieving said internal fluid pressure when said head portions have been bulged convexly to the desired radius of dish; cutting the two head closures apart at their side flange portions; and removing said ring member from within said head closures.

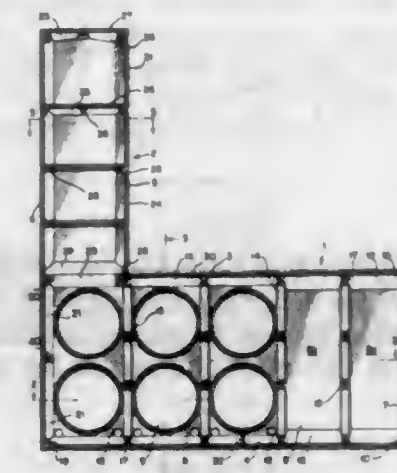
2,715,378

## SECTIONAL CONCRETE DRY DOCK

Edward J. Quirin, Great Neck, N. Y.  
Application April 11, 1952, Serial No. 281,726  
12 Claims. (Cl. 114-46)

1. A section for a floating dry dock having a pontoon hull with deck and bottom and a wing wall at each side

of the hull, said wing wall being positioned above the deck, a vertical water-tight bulkhead extending longitudinally at the middle of the hull, transverse vertical water-tight bulkheads extending from the longitudinal bulkhead to the sides of the dock beneath said walls, the interior of said wing walls below the top portions thereof communicating with the spaces enclosed by the longi-



tudinal and transverse bulkheads between deck and bottom to form flooding chambers and means forming closed buoyancy chambers supported by the transverse bulkheads in said spaces and above the bottom and below the deck, said buoyancy chambers being disposed in the hull adjacent the wing walls and spaced from said longitudinal bulkhead.

2,715,379

## DIVING BELL

Russell G. Solheim, Racine, Wis.  
Original application January 22, 1951, Serial No. 207,087.  
Divided and this application March 30, 1953, Serial No. 349,682  
11 Claims. (Cl. 114-51)



1. In a ship salvaging apparatus, the combination of a hook adapted to be attached to the hull of a sunken vessel, a guide cable secured to said hook and means comprising an attaching hook threaded onto said guide cable and slidable thereover, said threaded hook comprising a pair of jaws which are held partly open by knockout pin means acting against yieldable means tending to close said jaws.

2,715,380

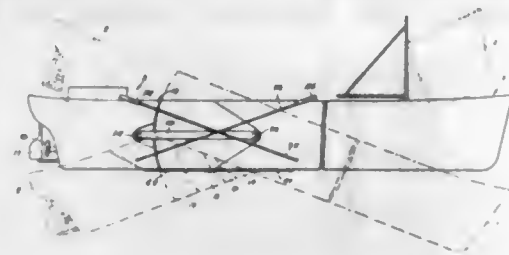
## ARTICULATED SHIP

Gardner Archer, San Francisco, Calif.  
Application March 4, 1952, Serial No. 274,771  
9 Claims. (Cl. 114-77)

1. An articulated ship comprising an independent cargo carrying unit, and an independent power unit for pushing the cargo carrying unit; the latter unit having a well



in the stern thereof; a section formed in the bow of the power unit for entering said well when both units are joined; means for transmitting the pushing thrust of the power unit to the cargo carrying unit including an element carried by the front end of said section and a



thrust box carried by said cargo carrying unit in the front part of said well for admitting said element with freedom of limited rotation therein to permit articulation of one unit in regard to the other and means for holding both units together.

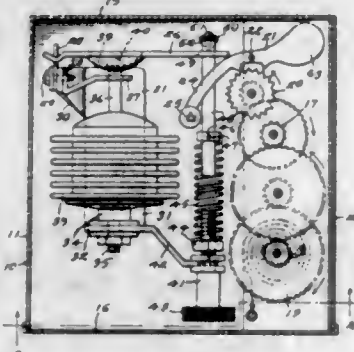
2,715,381

**AUTOMATIC FIRE ALARM**

Keller Y. Carr, Hialeah, Fla.

Application April 16, 1954, Serial No. 423,811

2 Claims. (Cl. 116—102)



1. An automatic fire alarm comprising a housing, a power member in said power housing, a gear train connected to said member, a rockable balance means connected to said gear train, a clapper carried by said balance means and engageable with said housing, a lever, means rockably supporting said lever with an end thereof engageable with said balance means, adjustable spring means engaging said lever to hold said lever in contact with said balance means to thereby hold said balance means inoperative, said adjustable spring means including a screw shaft, coil spring means fixed to said screw shaft, rod means fixed to said coil spring means, said rod means extending through an opening in said lever, and restraining means on said rod means engaging the outer side of said lever, and thermostatic means connected to said lever to move said lever to released position at a predetermined maximum temperature.

2,715,382

**TWIST DIRECTION FINDER**

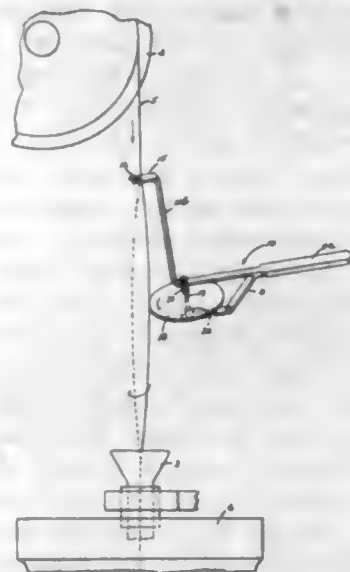
William H. Kreamer, Roanoke, Va., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware

Application September 29, 1953, Serial No. 382,943

4 Claims. (Cl. 116—114)

1. A twist detector comprising a rotary element having a generally circular periphery, a thread guide having a concave thread-engaging surface that is open in a lateral direction with respect to the direction of yarn passage thereover, and means for supporting the guide and the element in spaced relationship, said means comprising bearing means for mounting the element for free rotation with respect to an axis in fixed relation with the guide, said means being arranged to expose

a portion of the periphery of the element and to space the guide in a direction from said exposed portion of



the element parallel to the axis with the concave surface facing away from the axis.

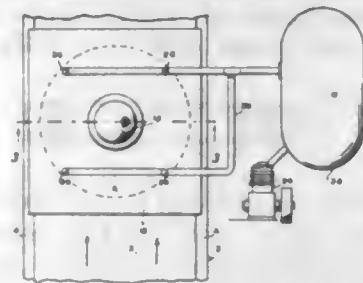
2,715,383

**APPARATUS FOR GENERATING ULTRASONIC WAVES**

Carl L. Meng, Phoenix, Ariz.

Application February 15, 1951, Serial No. 211,148

2 Claims. (Cl. 116—137)



1. In an apparatus for generating ultrasonic waves: a rotor mounted for turning about an axis; the rotor having opposing faces, and being provided with a plurality of fins arranged around its periphery; the fins being spaced from each other to define unobstructed air-passageway notches extending between said opposing faces of the rotor and in axial alignment with said rotor; said notches extending radially into the rotor from the periphery thereof; at least one stationary air-jet nozzle substantially paralleling said axis, and having an outlet disposed for directing an air stream through the notches as they are successively moved into registration with the nozzle; means for delivering air under pressure to the nozzle for discharge therefrom; said outlet of the nozzle being located adjacent to one face of the rotor, and being positioned to discharge its air stream directly parallel with said axis in direct line with said passageway notches and into the successive notches as they are advanced; said notches providing radial escapement of the air from the rotor to thereby reduce turbulence of the air issuing from the nozzle; and means for turning the rotor about said axis at a sufficiently high speed so that the fins will successively interrupt the flow of the air stream through the rotor notches to produce ultrasonic waves; the rotor being entirely unobstructed on the face thereof disposed opposite said nozzle to thus allow unimpeded escapement of the waves from the rotor.

2,715,384

**ULTRASONIC DEVICE**

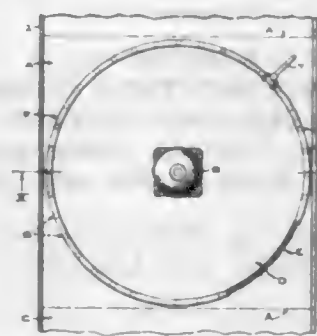
Carl L. Meng, Phoenix, Ariz.

Application April 13, 1953, Serial No. 348,183

4 Claims. (Cl. 116—137)

1. In a device for generating ultrasonic waves, a frame, a rotor rotatably supported on said frame, said rotor being

rotatable about a central axis and having a circular periphery with a plurality of fins arranged around said periphery of said rotor concentric with the center of said rotor and connected to said rotor and movable therewith, said fins being spaced from each other to define unobstructed air passageways that parallel the rotor axis and also open radially outwardly of said rotor, a ring shaped air conduit having substantially the same diameter as the plurality of concentric fins, rods connected to said frame and supporting said conduit concentric of said axis and adjacent one end of said passageways, a plurality of air nozzles connected to said conduit and having discharge outlets directed in alignment with the said central axis of said rotor and in longitudinal alignment with said passageways adjacent one end thereof, said outlets and said fins being equally radially distant from said central axis and said outlets being axially spaced along said central axis



with respect to said passageways, means for rotating said rotor supported on said frame and connected to said rotor, said last named means serving to turn said rotor about said central axis to move said fins laterally across the paths of air emitted from said nozzles and to alternately bring said air passageways into and out of alignment with said paths of air emitted from said nozzles, said passageways all being simultaneously in or out of alignment with said paths of air, means for delivering air under pressure into said conduit for discharge through said nozzles, said means for rotating said rotor being adapted to rotate said rotor at a speed sufficient to produce ultrasonic waves in the air stream delivered from said nozzle, the air stream pulsating at ultrasonic pulsations forming a cylindrical curtain below the rotor that is free to move against the air and against the matter to be treated without any further guidance for the air flow.

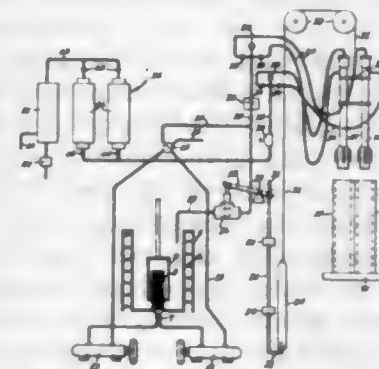
2,715,385

**APPARATUS FOR APPLYING MOLD WASH TO MOLDS**

Charles E. Yates, New York, N. Y., assignor to International Smelting and Refining Company, a corporation of Montana

Application September 25, 1951, Serial No. 248,179

7 Claims. (Cl. 118—12)



1. Apparatus for applying mold wash to the interior of a mold comprising a tank containing mold wash, an inlet pipe and an outlet pipe each communicating with said tank, a circulation pump connected between said inlet and said outlet pipes, whereby mold wash is circulated from the tank through the outlet pipe and through the inlet pipe back to the tank, a normally open circula-

tion control valve connected in said inlet pipe, a valve operating lever, spring means urging said valve closed, a spray nozzle communicating with said inlet pipe through a flexible hose connection and movable in a vertical path into and out of said mold, and a counterweight normally holding said nozzle in an elevated position out of said mold and holding said valve operating lever in position to hold said valve open in opposition to the urging of said spring means, said counterweight releasing said lever when the nozzle is lowered into the mold, thereby enabling said valve to be closed for so long as said nozzle is lowered into the mold.

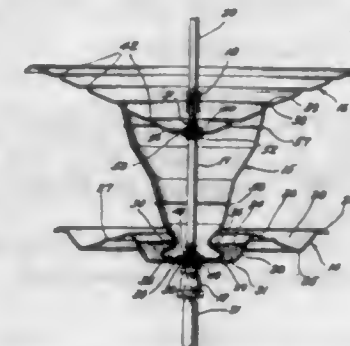
2,715,386

**WILD BIRD FEED AND WATER STATION**

Norvel Henry Jones, Miami, Fla.

Application May 4, 1954, Serial No. 427,505

1 Claim. (Cl. 119—51.5)



A wild bird feeding station comprising a lower seed platform, an intermediate seed bin, an upper water reservoir, and clamping means extending centrally and vertically through said platform, bin and reservoir to provide a rigid structure; said seed platform being of sheet material and having a downwardly curved circular peripheral edge, an outer annular trough with water escape holes, an upwardly extending annular ridge on the inner wall of said trough, and an inner seed well; said seed bin being of sheet material and formed into substantially an inverted truncated cone and having a bottom in surface contact with the central part of said seed well, the lower portion of said cone being annularly concaved to provide head room for the birds, said concaved lower portion being provided with upwardly directed seed dispensing holes, and the upper circular edge of said bin being curved outwardly; said water reservoir being of sheet material and defining substantially an inverted cone and having a downwardly curled circular peripheral edge extending outwardly above and beyond said platform edge, said reservoir having annular ridges formed therein for strength, one of said ridges forming a groove on the bottom of said reservoir for receipt of said upper circular edge of said bin.

2,715,387

**POULTRY SEPARATING DEVICE**

Alvin A. Marmet, Des Moines, Iowa

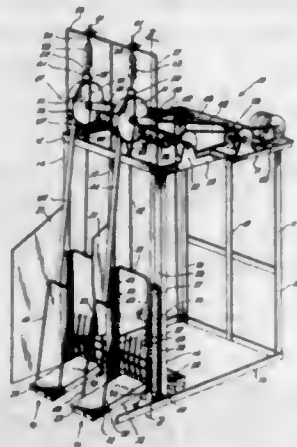
Application October 5, 1953, Serial No. 384,192

2 Claims. (Cl. 119—155)

1. A chicken separating device comprising an upright frame, a chicken receiving unit carried by said frame and extended from one side thereof, a friction gear yieldably supported on said frame at a position above said receiving unit, a rotatable drive roller carried by said frame at a position such that the peripheral surface thereof is adjacent the peripheral surface of said friction gear, means attached to and extended between the receiving unit and said friction gear for yieldably moving the peripheral surface thereof into engagement with the peripheral surface of said drive roller when the weight of a chicken on said chicken receiving unit exceeds a predetermined weight, whereby to rotate said friction gear,



and means operatively associated with said friction gear liquid flow through one of said branches; and stop means and said receiving unit for moving the chicken on the for arresting the movement of said control piston at the



receiving unit to the opposite side of said frame in response to such rotation of said friction gear.

2,715,388

## WRITING INSTRUMENT

Eugene P. Cofield, Jr., Atlanta, Ga., and Fran Seech, Los Angeles, Calif., assignors to Scripto, Inc., a corporation of Georgia  
Application April 29, 1955, Serial No. 504,848  
8 Claims. (Cl. 120—42.4)



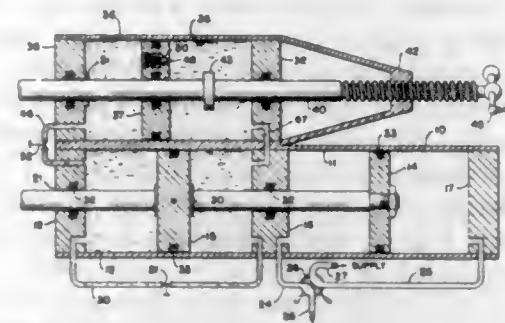
1. A writing instrument comprising a barrel, a reservoir within the barrel, a supply of liquid lead within the reservoir and a ball point connected to the liquid lead supply and located in writing position at one end of the barrel, said liquid lead comprising a dispersion of carbon particles in a viscous, resinous liquid vehicle and said dispersion being in flocculated form so as not to pass said ball point when the writing instrument is not in use, and being subject to break-down by the action of the ball point during writing for feeding thereby.

2,715,389

## HYDRO-PNEUMATIC POWER MECHANISMS AND CYCLING CONTROLS THEREFOR

Clarence Johnson, South Euclid, Ohio, assignor, by mesne assignments, to The Hartford Special Machinery Company, Hartford, Conn., a corporation of Connecticut  
Application December 19, 1949, Serial No. 133,922  
27 Claims. (Cl. 121—45)

1. A power feed mechanism comprising a power cylinder and piston; means to connect said power cylinder and piston to a source of fluid pressure for imparting movement to said power piston; a control system for said power piston comprising a closed liquid circuit connected to said power cylinder including at least two branches through which said liquid is constrained to flow to determine the rate of movement of said power piston; a flow control piston in said liquid circuit adapted to move freely through a stroke of predetermined length under the influence of

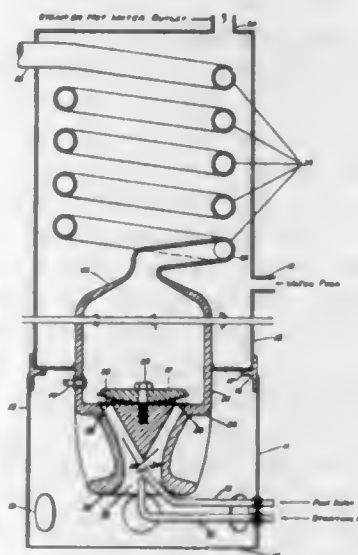


end of said predetermined stroke whereby flow thereafter is maintained in said circuit at a reduced rate to establish a lower rate of movement for said power piston.

2,715,390

## RESONANT INTERMITTENT COMBUSTION HEATER AND SYSTEM

William L. Tenney, Vandalia, Ohio, and Charles B. Marks, Dhahran, Saudi Arabia; said Marks assignor to said Tenney  
Application July 18, 1950, Serial No. 174,498  
8 Claims. (Cl. 122—24)

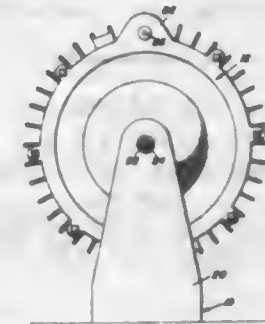


1. In a resonant intermittent combustion heater the combination comprising a combustion chamber having at least one inlet for air thereto; pressure responsive valve means for controlling the introduction of combustion air through said air inlet located in direct free communication and in direct pressure responsive relation with said combustion chamber for periodic automatic operation under the action of and in timed relation with the resonant pulsating action of the gases therein; at least one elongated exhaust tube heating element communicating at one end directly with said combustion chamber and at its other end with the surrounding atmosphere for free pulsating inward and outward flow therethrough of said gases, said exhaust tube being open at both ends in substantially free and unrestricted relation with said combustion chamber forming therewith integral parts of a system resonant in gases; means for introducing fuel into said combustion chamber, said exhaust tube heating element having a high length to diameter ratio of about 35 to 1 or more, forming with said combustion chamber a naturally resonant intermittent combustion system wherein automatic charging, ignition and scavenging occurs and a resonant pulsating flow of exhaust gases accompanied by cyclic reversals of flow of said gases is produced in said exhaust tube heating element and a large portion of the propulsive energy of said resonant intermittent combustion system is converted into heat that is transmitted by said combustion chamber and exhaust tube heating element.

2,715,391

## ROTARY JET ENGINE

Norris E. Smith, San Angelo, Tex., assignor of one-half to Western Mattress Company, San Angelo, Tex., a partnership  
Application March 19, 1952, Serial No. 277,341  
4 Claims. (Cl. 123—13)

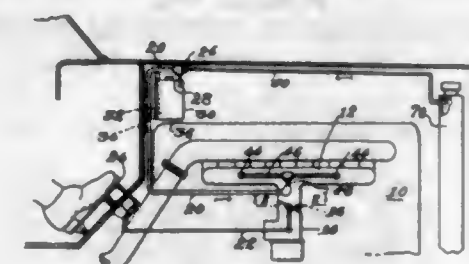


1. A rotary engine comprising a support, a rotor mounted upon said support for rotation about an axis and having an expansion chamber therein, a stator mounted upon said support and disposed centrally of said expansion chamber, said stator having a jet chamber therein with an exhaust outlet opening into said expansion chamber, a sealing vane carried by said stator and having sealing engagement with the walls of said expansion chamber, a rotary abutment mounted in said rotor and having sealing engagement with the walls of said expansion chamber and with said stator, means for causing movement of said abutment past said vane during rotation of said rotor and for supplying an expansible medium to said jet chamber, an exhaust port communicating said jet chamber with said expansion chamber in spaced relation to said abutment, said sealing vane causing discharge of exhaust gases from said expansion chamber in advance, rotationally, of said exhaust outlet opening, said means for supplying an expansible medium comprising a compressor disposed within said stator.

2,715,392

## GASOLINE VAPOR ATTACHMENT FOR AUTOMOTIVE ENGINES

Steve P. Grevas, Granite City, Ill.  
Application August 4, 1954, Serial No. 447,822  
4 Claims. (Cl. 123—25)

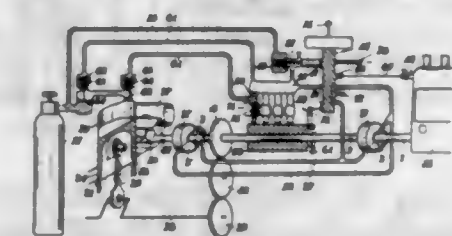


1. In an automotive engine having an intake manifold, a carburetor, an engine radiator, a fuel line and a butterfly valve in said line, means for controlling the position of the butterfly valve including an accelerator pedal: the combination with said engine of an auxiliary tank, said tank having a top, a vapor line connected to said intake manifold and to said auxiliary tank whereby the amount of vacuum applied to said auxiliary tank is controlled by said butterfly valve, an air inlet pipe extending through said top and terminating short of the bottom of said tank, said butterfly valve having an opening extending therethrough whereby to allow for idling purposes of said engine, a T construction comprising a pipe, the top portion of said T having ends connected to said intake manifold, the lower portion of said T being connected to said conduit means, and a supplemental line having one of its ends connected to said radiator and its other end connected to said vapor line.

2,715,393

## REVERSIBLE TWO-STROKE CYCLE INTERNAL COMBUSTION ENGINE

Felix Lehner, Hallein, Salzburg, Austria, assignor to Hans List, Graz, Austria  
Application June 4, 1953, Serial No. 359,488  
11 Claims. (Cl. 123—41)

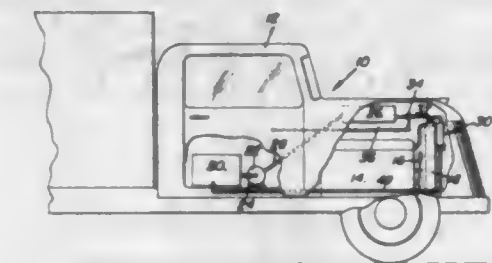


1. In a reversible internal combustion engine the combination comprising a crankshaft, an injection pump driven by the crankshaft through gearing, a drag coupling between the gearing and injection pump, and including a rotary piston and cylinder therefor, the piston having two sides each engageable by a fluid and rotated thereby in a direction depending on the piston side engaged by the fluid to either of two positions, two fluid supply lines, one supplying fluid to one side of the piston and the other to the other side of the piston, and both connected to the atmosphere, a reservoir supplying compressed air, a control device selectively movable from stop position for starting the engine to either of two positions each stopping the delivery of the injection pump, and each connecting one of the supply lines to the reservoir and the other to the atmosphere, a circulating lubrication system, the control device being also selectively movable from stop position for running the engine to either of two other positions each connecting one of the supply lines to the circulating lubrication system and the other to the atmosphere.

2,715,394

## AUTOMOBILE ENGINE COOLER

Frank J. Humpola, Houston, Tex., and Richard R. Tripp, Williamsburg, Va.  
Application October 5, 1953, Serial No. 384,076  
3 Claims. (Cl. 123—41)



1. An automobile engine cooler comprising a pressure discharge cooling liquid storage tank, a gravity discharge supply tank, a first conduit connecting the storage tank and the supply tank, an evaporator adapted to be mounted in front of the hottest part of an automobile radiator, a second gravity feed conduit connecting the supply tank with the top of the evaporator, and a conduit connected to said evaporator and said storage tank for returning excess liquid to the storage tank.

2,715,395

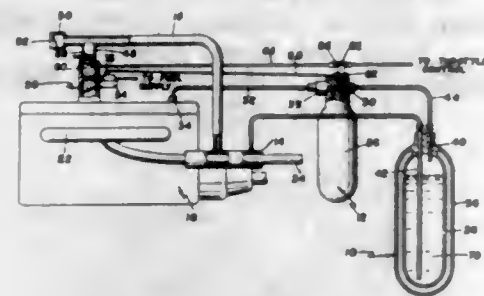
## LIQUID OXYGEN POWER BOOSTER FOR INTERNAL COMBUSTION ENGINES

Rodger C. Finvold, San Diego, Calif.  
Application June 22, 1953, Serial No. 363,287  
10 Claims. (Cl. 123—119)

1. In a power booster for an internal combustion engine having a fuel intake, a container wherein liquid oxy-



gen is stored, said container being in communication with the fuel intake of the engine, engine heated means



for vaporizing the liquid oxygen, and means for controlling the flow of oxygen from said container.

2,715,396

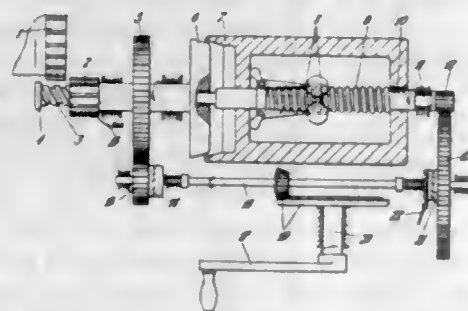
**INERTIA STARTER**

Victor Silberstein, London, England

Application June 9, 1952, Serial No. 292,500

Claims priority, application Great Britain June 12, 1951

8 Claims. (Cl. 123-179)



1. An inertia starter for engines comprising a starter flywheel, drive means, operatively connected with the starter flywheel, a pinion adapted to engage the engine to be started, clutch means located intermediate the pinion and starter flywheel, and an auxiliary drive operatively connected between said drive means and the pinion in parallel with said connection to the starter flywheel and the clutch means adapted to turn the engine at below starting speed when the pinion is engaged with the engine, before said clutch means is engaged.

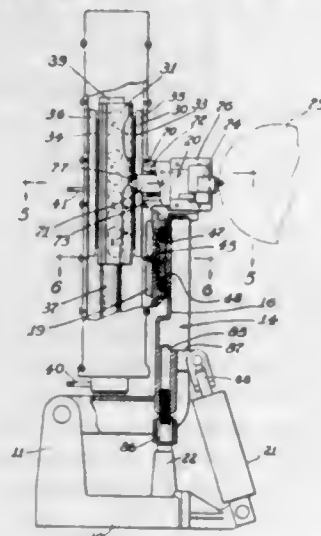
2,715,397

**GRINDING WHEEL DRESSING APPARATUS**

Nils Hoglund, Summit, N. J.

Application May 4, 1953, Serial No. 352,833

14 Claims. (Cl. 125-11)



1. A grinding wheel dressing apparatus including a base, a supporting member pivoted on said base and means for moving said supporting member from a predetermined dressing position to another position, a slide guide fixed to said supporting member, a housing mounted on said slide guide for movement transversely of said supporting member, a first slide mounted within and movable transversely of the movement of said housing,

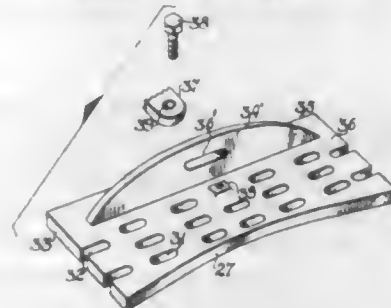
a first cam mounted on said first slide and lying in one plane, a second cam mounted on said first slide and lying in a plane perpendicular to said one plane, a tool slide and follower slidably supported by said housing and movable normally to the movement of said first slide, said follower contacting one of said cams, a fixed follower secured to said supporting member and extending within said housing and contacting the other cam.

2,715,398  
**STOVES**

Arthur A. Smith and Max Smith, Winnipeg, Manitoba, Canada

Application June 29, 1950, Serial No. 170,972

1 Claim. (Cl. 126-73)



An apertured plate for rear draft intakes of self-feeding hopper type furnaces situated between the hopper and combustion chambers thereof, said plate adapted to span the outer edges of the side walls of the associated fire box, said plate being substantially rectangular when viewed in plan and having the rear edge thereof concave, an arcuate upstanding rib spanning substantially the width of said plate and situated towards the front edge thereof, the depth of said rib increasing from each end towards the centre thereof, means to control the heat-change-induced torsional distortion of said plate, said means including an elongated slot adjacent the centre of said rib whereby said plate is adapted to engage an associated lug extending rearwardly from the rear wall of said hopper and to be suspended therefrom.

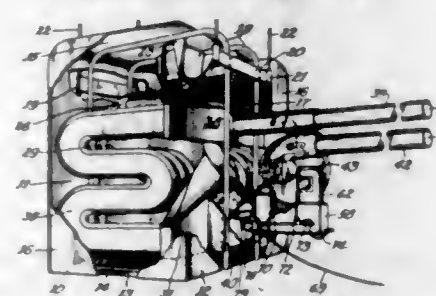
2,715,399

**FUEL BURNING SPACE HEATER**

George Witt, Howard W. Miller, and Lyle A. Miller, Wausau, Wis.

Application August 22, 1950, Serial No. 180,840

7 Claims. (Cl. 126-110)



1. In a fuel burning heater adapted for use in space heating, a housing having front and back walls; means forming a vertically elongated outer combustion chamber mounted within said housing and extending between said front and back walls, said chamber having upwardly and inwardly inclined flat side walls joined by curved top and bottom walls; a substantially cylindrical inner combustion chamber disposed within and arranged in the lower part of said outer combustion chamber, said inner chamber extending substantially from one wall of said outer combustion chamber to an oppositely facing wall thereof and being provided with an elongated, constricted passage opening upwardly into said outer chamber; a plurality of vertically disposed, serpentine heat exchange tubes arranged in sets on opposite sides of said outer com-

bustion chamber; a gas collecting manifold arranged in the lower part of said housing adjacent said front wall and communicatively connected to one end of said outer combustion chamber and to a lower end of each of said heat exchange tubes, a portion of said inner combustion chamber extending through said gas collecting manifold; an exhaust tube connected to and extending from said front wall of said housing; an outlet manifold vertically spaced above and being substantially in alignment with said gas collecting manifold, said outlet manifold being communicatively connected to said exhaust tube and to an upper end of each of said heat exchange tubes; a burner housing coaxial with said inner combustion chamber and in communication with the portion thereof extending through said gas collecting manifold, said burner housing connected to and extending through said front wall of said housing; and air propelling means in said housing for driving air in a generally uninterrupted, single vertical direction through said housing.

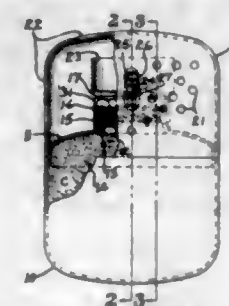
2,715,400

**POCKET WARMER WITH HEAT CONTROL**

Gray L. Butler, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application February 14, 1952, Serial No. 271,465

4 Claims. (Cl. 126-208)



1. A pocket warmer comprising in combination, a volatile fuel container terminating at one end in a mouth, a burner for flameless combustion superimposing said mouth, a hollow perforated cover detachably secured to the mouth end of said container and providing a substantial air space above and around said burner, means for introducing primary air to the lower portion of the burner, a baffle member mounted in said air space above the burner, said baffle being carried by the cover and being movable therein toward and away from the burner to vary the convection currents in said air space returning to said burner to control the rate of combustion in said burner without interfering with the primary air.

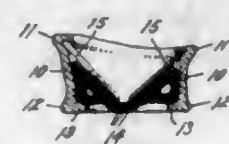
2,715,401

**NASAL RESPIRATORS**

Walter Karl Appel, Cheyenne, Wyo.

Application February 16, 1954, Serial No. 410,683

2 Claims. (Cl. 128-148)



2. A nasal respirator comprising a preformed molded plastic tubular shell conforming to the shape of a nasal passage, said shell being formed at the lower end thereof with an inwardly extending peripheral flange, and a spring device comprising a continuous length of spring wire formed with opposing side portions embedded in the interior of the upper rim of the shell, and intermediate portions between the extremities of said side portions extending downwardly at an angle toward said flange, said side portions serving to reinforce and maintain the shape of said upper rim, said angular portions forming a recess

with the adjacent wall and flange of the shell wherein a gauze pad may be securely clamped by said angularly extending spring portions.

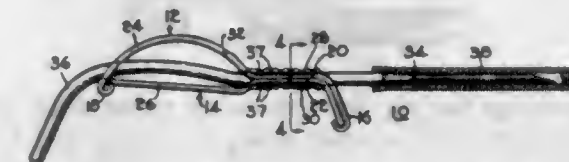
2,715,402

**TRANSFUSION EQUIPMENT**

William C. Wootton, Centerville, Calif., assignor, by mesne assignments, to United-Carr Fastener Corporation, Boston, Mass., a corporation of Delaware

Application April 16, 1954, Serial No. 423,661

4 Claims. (Cl. 128-214)



1. A combination tubing clamp and needle holder, comprising a pair of colateral members having superimposed portions at one end, one of said members having a portion at the other end which is arched upwardly away from the other member, said superimposed portions having means for gripping a hypodermic needle, said upwardly arched portion having a tapered opening for receiving a tubing leading to the hypodermic needle.

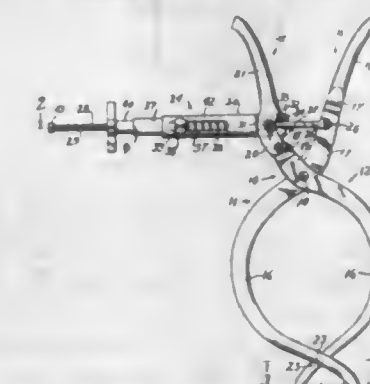
2,715,403

**TOURNIQUET**

Ell Jordan Tucker, Houston, Tex.

Application June 7, 1954, Serial No. 434,873

7 Claims. (Cl. 128-327)



1. A tourniquet comprising two pivotally connected arms each having handle portions with grips at one end thereof and the pivot supported at the other end thereof and an arcuate, tourniquetted member embracing portion on the opposite side of said pivot from said handle portion, said arms being assembled with arcuate portions in opposition to bound a space of substantially oval cross-section, a gauge pivotally connected to one handle portion and extending past the other handle portion and including a shoulder to bear thereagainst, a force applying member tending to force said other handle portion toward said first handle portion to thereby tighten the grasp of said tourniquetted member embracing portions, an indicia on said gauge, and a pointer movable with said force applying member and with relation to said indicia to indicate the pressure applied by said embracing portions.

2,715,404

**GRATES FOR PEANUT SHELLING MACHINES**

Cloyd Tillery, Phoenix City, Ala.

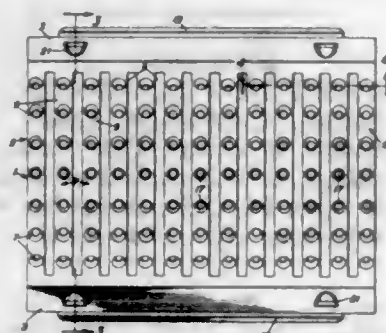
Application August 20, 1954, Serial No. 451,135

1 Claim. (Cl. 130-30)

For use with an abrading cylindrical rotor of a peanut shelling machine, a rectangular grate adapted to form part of a concave, said grate comprising side and end bars and cross-bars extending between said side bars parallel with said end bars, said end and cross-bars being curved and adapted to be disposed concentrically of said



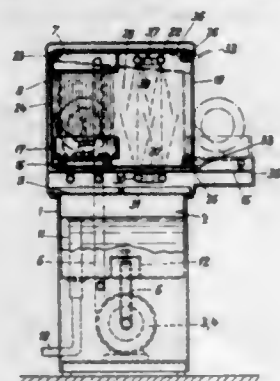
concave, said end and cross-bars being spaced equidistantly apart to provide discharge spaces therebetween, said end and cross-bars for abrading purposes and to



obviate cutting having flat tops with upstanding frusto-conical smooth nubs spaced along the same and longitudinal edges of rounded cross section extending from one side bar to the other.

#### 2,715,405 CLOSING MEANS FOR DISH-WASHING MACHINES

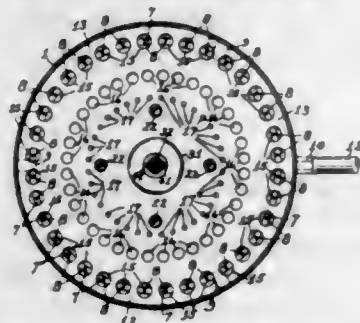
Walter Emil Frech, Lucerne, Switzerland  
Application January 18, 1950, Serial No. 139,198  
2 Claims. (Cl. 134—82)



1. In a machine for washing and rinsing dishes, means forming a chamber having a side opening therein, spray means in said chamber, a carriage for the dishes, guide means for said carriage in said spray chamber, closure means for said opening, flexible means connecting said closure means with said dish carriage so as to automatically move said carriage out of said chamber when said closure means is moved to open position and retract said carriage into the chamber when said closure means is moved to closed position, and a wall projecting upwards from the rear end of said dish carriage so as to substantially close said opening when said carriage is substantially outside said chamber.

#### 2,715,406 CLEANING DEVICE FOR HYPODERMIC SYRINGE PARTS

Pauline S. Buechel, Richmond, Ind.  
Application May 23, 1951, Serial No. 227,918  
2 Claims. (Cl. 134—94)

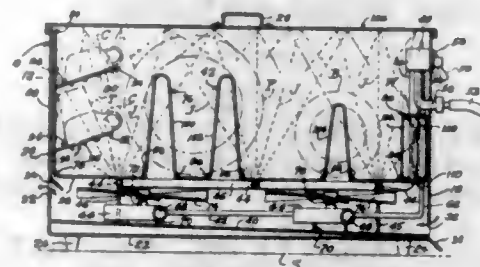


1. In a cleaning device for barrels and plungers of hypodermic syringes, a container, a perforated ring concentrically positioned within the container and having a tube extending therefrom exteriorly of the container

and to a source of air under pressure, barrel and plunger holders removably positioned within the container above the perforated ring, perforations located in the holders with the perforations therein being in registering relation with the perforations of the ring, and with air under pressure being admitted into the ring and with the escape-ment of the air through the perforations of the ring turbulently agitating and forcing cleaning fluid within the container to pass upwardly through barrel members and downwardly around plunger members confined therein by means of the barrel and plunger holders.

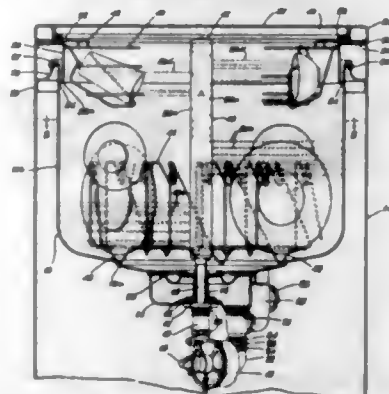
#### 2,715,407 DISH RINSING AND DRYING APPLIANCE

Royale A. Wright, Detroit, Mich.  
Application April 12, 1954, Serial No. 422,291  
10 Claims. (Cl. 134—99)



1. A dish rinsing and drying appliance for connection to a conventional outlet means for supplying hot and cold water under pressure, said appliance comprising a casing having a dish rack therein adapted to hold the dishes in substantially vertical positions in laterally-spaced relationship, a hot water spray device disposed adjacent said rack with spray orifices directed toward said rack, a rotary water motor having a rotary fan operatively connected thereto, a hot water supply pipe leading to said spray device, a cold water supply pipe leading to said water motor, and means for selectively supplying hot and cold water to said pipes.

2,715,408  
DISHWASHER DRAIN AND SCREEN APPARATUS  
Jacques Stanitz, Warren, Myron E. Ullman, Jr., Canfield, and John L. Habe, Cleveland, Ohio, assignors to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York  
Original application August 7, 1950, Serial No. 178,054, now Patent No. 2,692,605, dated October 26, 1954. Divided and this application April 3, 1953, Serial No. 346,602  
3 Claims. (Cl. 134—111)

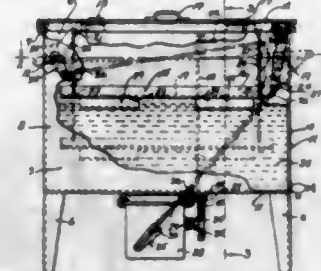


2. In a dishwasher having a tub, a pump for circulating liquid to and from said tub and a dish holding basket in said tub, a hollow perforate standpipe communicating with the outlet of said pump and mounted centrally of said tub and basket, a drain opening in the bottom of said tub adjacent said standpipe and connected to the inlet of said pump, and a perforate strainer surrounding the base of said standpipe and covering said drain opening, said strainer having an inner cup-shaped portion and an

outer dished portion, the outer portion having a substantially flat rim merging with an annular groove below said inner cup-shaped portion.

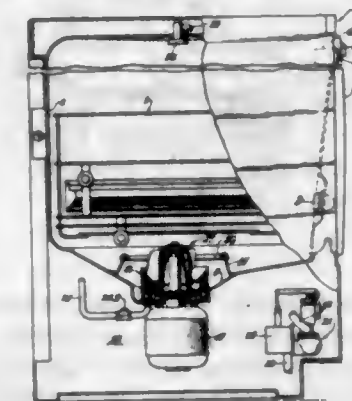
#### 2,715,409 WASHING MACHINE HAVING A TRAY MOVABLE IN A TANK

Julius T. Wachs, Milwaukee, Wis.  
Application June 19, 1952, Serial No. 294,344  
2 Claims. (Cl. 134—140)



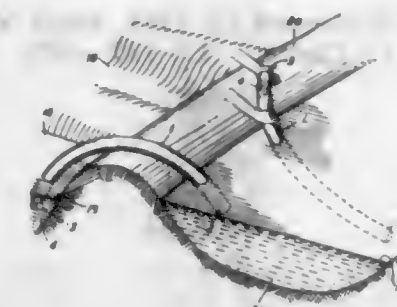
1. A washing machine comprising a tank for a cleaning solution, a tray having a foraminous bottom wall mounted in said tank for up and down movement in said solution, rock shafts carried by the opposite ends of the tank, crank arms secured to the rock shafts, depending hanger rods connecting the crank arms with the tray, a drive motor, a crank, means for rotating the crank at a reduced speed from the motor, a double armed lever secured to one of the rock shafts, a pitman rod operatively connecting the crank to one arm of the double armed lever, and means operatively connecting the double armed lever with the other rock shaft including a crank arm on said other rock shaft and a connecting rod connecting said last mentioned crank with the double armed lever.

2,715,410  
DRAINAGE CONTROL SYSTEM FOR DISHWASHERS  
James G. Ruspino, La Grange Park, Ill., assignor to General Electric Company, a corporation of New York  
Application December 30, 1953, Serial No. 401,157  
14 Claims. (Cl. 134—182)



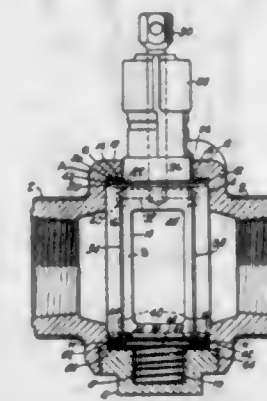
1. In a dishwasher or the like, the combination of a tub adapted to receive a quantity of liquid, means within said tub to circulate said liquid throughout said tub, a pump of the centrifugal type having a pump casing disposed beneath said tub, said pump having a multibladed impeller, a drainage conduit communicating between said tub and said pump casing, a baffle disposed within said pump casing at the entry of said drainage conduit thereinto to direct the opening of said conduit tangentially of the rotation of said impeller, a discharge conduit opening into said pump casing, a baffle disposed within said pump casing about the discharge conduit to direct the opening thereof tangentially of the rotation of said pump impeller but facing oppositely to said drainage conduit opening, each said baffle being disposed relatively closely adjacent the radius of rotation of said impeller, and means for selectively rotating said impeller in a clockwise or a counterclockwise direction.

2,715,411  
SIPHON TUBE ASSEMBLY WITH AN INTERNAL VOLUME CONTROL  
Paul E. Plavan, Santa Ana, Calif.  
Application November 1, 1949, Serial No. 124,825  
13 Claims. (Cl. 137—151)



1. A siphon tube having an inlet end and an outlet end and being otherwise imperforate, said tube having a longitudinal bend therein between its inlet and outlet ends, a butterfly valve positioned wholly within said tube adjacent said outlet end so that when said valve is fully open the outlet end of the tube may be sealed by placing the palm of the hand flatly thereover, said valve being generally circular and having substantially the same circumference as the inner circumference of the tube, pintle means upon which the valve is pivotally mounted, a flexible spring support plate for each end of said pintle means and upon which the pintle is supported, said spring support plates each having a resilient frictional engagement with the inside face of the tube and being held under tension between the edge of the valve and the inner face of the tube.

2,715,412  
GASKETED VALVE  
Robert Clade, Detroit, Mich., assignor, by mesne assignments, to W-K-M Manufacturing Company, Inc., a corporation of Delaware  
Application November 13, 1950, Serial No. 195,315  
7 Claims. (Cl. 137—246.17)



1. In a lubricated valve, a valve body, a valve plug rotatably mounted in the body, overhanging shoulders formed on the body and having an internal seating surface overlapping a portion at least of one end of the plug, a seating surface formed on said one end of the plug, a shoulder projecting outwardly from one of said surfaces toward the other surface in overlapping relation, a gasket closely engaging a side of said shoulder and bearing on said seating surfaces, a lubricant chamber formed by said gasket together with said surfaces and body, means to introduce lubricant under pressure into said lubricant chamber, and means to resiliently force said plug into engagement with said gasket and said gasket into engagement with said internal seating surface of the body, said means yielding upon increase of pressure in said lubricant chamber to permit axial shifting of said plug in said body whereby lubricant may escape past said gasket.



2,715,413

**AUTOMATIC CONTROLS FOR WASHING, DRY-CLEANING, BLEACHING, DYEING AND OTHER MACHINES**

John Bold, London, England, assignor of one-third to Gilbert Elverston, Gately, England, and one-third to British Launderers' Research Association, London, England

Application September 10, 1951, Serial No. 245,901  
12 Claims. (Cl. 137—387)



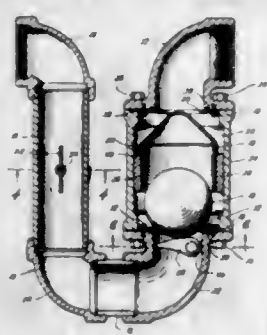
1. In an automatic control for washing, dry-cleaning, bleaching, dyeing and the like machines, the improvement comprising a treatment receptacle, a liquid measuring container for connection to the treatment receptacle, a vertical spindle rotatable in the container and projecting above the same, means which prevent longitudinal displacement of the spindle, a screw of elongated pitch provided on the spindle in the container, and a float which is slidable vertically but non-rotatable in the container and engages the said screw for rotating the spindle by means of the screw as the float rises and falls with the level of liquid in the container.

2,715,414

**COMBINED AUTOMATIC SHUT-OFF AND CHECK VALVE ASSEMBLY FOR TANKS AND THE LIKE**

Robert B. Kinzbach, Houston, and Leon A. Johnson, Snyder, Tex.

Application November 20, 1951, Serial No. 257,302  
11 Claims. (Cl. 137—399)



1. A combined shut-off and check valve assembly comprising a valve casing having an inlet in communication with a liquid supply source and an outlet in communication with a discharge line, and valve means in said casing operable by gravity to close the outlet when the liquid in the casing falls below a predetermined level, said valve means being operable under the influence of the inflow of liquid from said discharge line through said outlet to close said inlet said valve means including means operable under the influence of the outflow of liquid from said outlet to hold the valve means out of closing relation with said outlet.

2,715,415

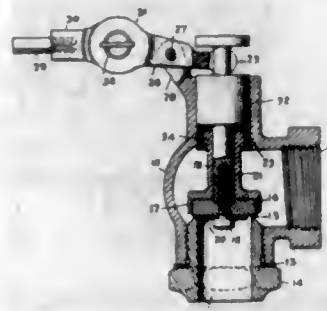
**HIGH PRESSURE FLOAT VALVE**

Welsey Lee Tucker, Shandon, Calif., assignor, by mesne assignments, of one-half to Leslie W. Nuckolls and one-half to Roderick Nuckolls

Application June 9, 1950, Serial No. 167,211  
4 Claims. (Cl. 137—442)

1. A quick opening balanced valve for use in fluid supply system comprising a hollow body having an out-

let passage in line with its principal axis, a circular valve seat the the inner end of said outlet passage concentric with said body, said valve seat projecting into said body and having its outer portion beveled away circumferentially to form a sharp edge surrounding said outlet passage, a flat circular disc valve cooperating with said valve seat with its outer edge projecting radially beyond said beveled edge, said disc valve being mounted on the inner end of a movable valve stem axially slidable in a cylindrical bore extending out of said body in line with the principal axis thereof and having the



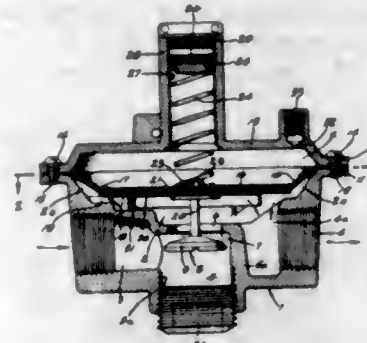
same diameter as the outlet passage, means for preventing leakage of fluid through said cylindrical bore, an inlet opening into said body between said valve seat and cylindrical bore, the outer end of said valve stem projecting out through said bore, and means cooperating with the outer end of said valve stem for positioning it axially in said bore, said means permitting rapid axial movement of said valve under pressure of fluid flowing against the face of said valve disc normally in contact with said valve seat upon movement of said valve disc away from said seat.

2,715,416

**FLUID PRESSURE VALVE REGULATOR**

Edwin W. McKinley, Los Angeles, Calif.

Application May 29, 1950, Serial No. 165,056  
3 Claims. (Cl. 137—484.2)



1. In a fluid regulator, the combination of a body having a cavity on its upper side, and having a flow-chamber with an inlet and an outlet at the underside of said body, a dished cover attached to the body with a cavity on its underside forming a pressure-chamber therein, a pressure controlled diaphragm between the pressure-chamber and the flow-chamber disposed in a substantially horizontal plane, said body having a valve-orifice in the flow-chamber below the diaphragm, a valve below the valve orifice and seating at the valve orifice by an upward movement, resilient means thrusting downwardly against the diaphragm, said body having an outlet-duct extending down from the flow-chamber to said outlet, a disc on the upper side of the diaphragm the edge whereof projects to a point adjacent to the outer wall of said outlet-duct, and an inverted cup-form baffle attached on the underside of the diaphragm with a marginal flange projecting down to a substantial depth across the mouth of said outlet-duct, said projecting flange defining a pressure pocket in the cavity of said body adjacent the margin of said diaphragm and coacting with the valve body to direct the flow of the fluid from said orifice past the pressure pocket

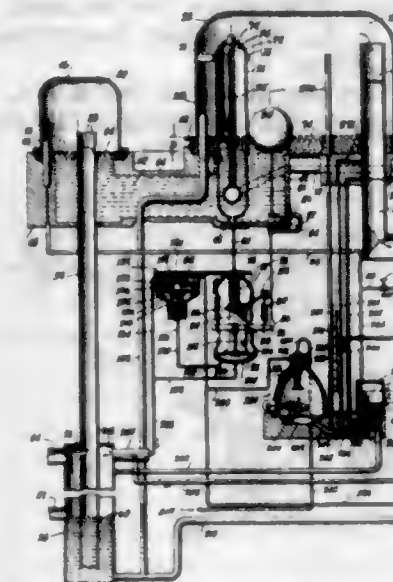
into said outlet-duct in such a manner as to reduce the pressure in said pocket proportionately to the rate of increased flow of the fluid flowing from the outlet.

2,715,417

**PNEUMATICALLY OPERATED GAS FLOW CONTROL APPARATUS**

William C. Conkling, Lockport, N. Y., assignor to Wallace & Tiernan Incorporated, a corporation of Delaware

Application February 1, 1949, Serial No. 74,036  
12 Claims. (Cl. 137—489)



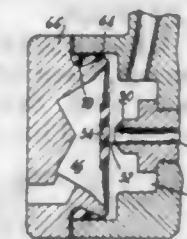
1. In apparatus for controlling the pressure of gas flowing in a conduit, in combination, a valve adjustable to modify the pressure at a locality of the conduit, means establishing a liquid level in communication with said locality and variable in accordance with the gas pressure thereof, a movable device for displacing the valve, an expansible chamber for exerting force on said device in valve-opening direction, spring means for exerting force on said device in valve-closing direction, means supplying fluid under pressure to said expansible chamber, an outlet valve for said expansible chamber having a valve element movably pivoted to the aforesaid device, for controlling the pressure in said chamber of fluid supplied thereto, a float disposed for positional control by the aforesaid liquid level, means linking the float to said valve element to move same toward closed position upon rise of the liquid level and in an opposite direction upon fall of said level, for respectively corresponding increase and decrease of the force of the expansible chamber on the aforesaid device, said expansible chamber and spring means being thereby cooperatively adapted, under control of the float, to adjust the first-mentioned valve, in a direction to restore the conduit pressure at said locality to a predetermined value, in response to departure of said pressure from said value, stabilizing means connected between said linking means and said movable device for modifying the effective buoyancy of the float in a direction to curtail displacement of the said device upon temporary change in conduit pressure at said locality, said float being adapted to be positionally displaced with displacement of the first-mentioned valve by said device, for further inhibiting restoration of the conduit pressure to said predetermined value, and means controlled by the expansible chamber for controlling the fluid supply means in response to adjustment of said second-mentioned valve, to modify the pressure of fluid supply to the chamber in a direction to effect continued displacement of the movable device, in opposition to the aforesaid effect of the stabilizing means and despite the aforesaid displacement of the float with the first-mentioned valve, for adjusting said valve to complete restoration of the conduit pressure to said value upon a continuing departure.

2,715,418

**DIAPHRAGM VALVE FOR A CARBURETOR**

Everett E. Van Derbeck, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application March 10, 1949, Serial No. 80,755  
3 Claims. (Cl. 137—510)



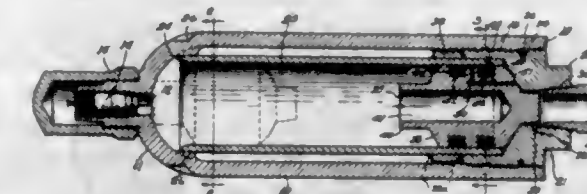
2. A fluid control unit comprising a fluid chamber, an annular ridge-like member extending from one wall of said chamber, a flexible disc-shaped diaphragm having a single overturned annular flange embracing the peripheral surface of said member at the junction of said diaphragm with said flange, a fluid passageway communicating with said chamber within the confines of said member and diaphragm, a fluid passageway communicating with said chamber on the opposite side of said member and diaphragm, and a valve means connected to said diaphragm for controlling said last mentioned passageway.

2,715,419

**ACCUMULATOR**

Alfred Ford, Chicago, Ill., and John W. Overbeke, Cleveland, Ohio, assignors to Superior Pipe Specialties Co., a corporation of Illinois

Application July 11, 1952, Serial No. 298,410  
9 Claims. (Cl. 138—31)



1. An accumulator comprising an outer cylinder having one end open and the other end sealed, a plug having a bore providing a restricted discharge opening for the open end of the outer cylinder, a sleeve carried by said plug in said outer cylinder and extending to the sealed end of the outer cylinder, a floating piston within said sleeve movable along the cylinder axis toward the sealed end for energy discharging, a finger projecting axially from the piston and extending toward the plug, said projecting finger being adapted to enter the bore, the opposed surfaces of bore and finger providing an annular fluid discharge region of increasing fluid-flow resistance with final piston travel toward a fully discharged position.

6. An accumulator comprising a cylinder having one end open and the other end closed, a plug cooperating with said open cylinder end for closing the same, said plug having an axial bore therethrough for providing a passageway connecting the interior of the cylinder with the exterior, a floating piston within said cylinder, said piston being movable along the cylinder axis toward and away from the plug for energy discharge and energy charge respectively, said piston having a dome-shaped end provided with a finger projecting axially from the end for cooperation with the bore of the plug, said finger being adapted to enter the plug bore when the piston is near the end of its discharge travel, said plug having a concave surface facing the dome-shaped part of the piston, the dome-shaped part of the piston having a sharper curvature than the opposed plug concave surface so that the dome-shaped piston end meets the concave plug surface substantially along a circle lying in a plane substantially

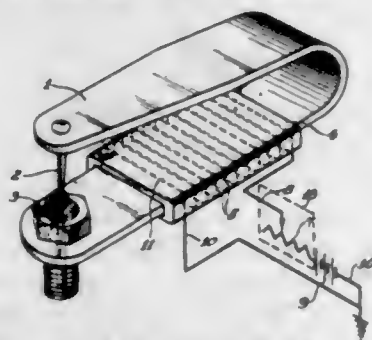


perpendicular to the axis of the cylinder whereby as the piston reaches its full end position corresponding to discharge, the piston will be guided toward a final resting position having a substantial line contact and thus prevent cocking and binding of the piston.

2,715,420

## FLOW REGULATOR

Harry C. Stearns, Glen Ellyn, Ill.  
Application October 7, 1949, Serial No. 120,011  
3 Claims. (Cl. 138—45)

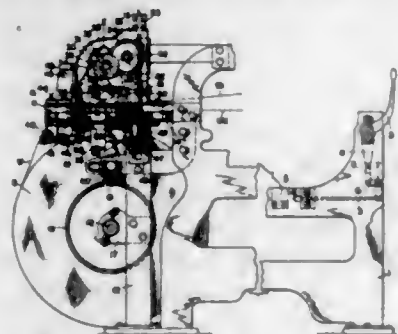


1. In an apparatus for controlling flow of liquid fuel from a carburetor float chamber to an internally threaded exit therefrom adapted to be inserted in said float chamber in said exit the combination comprising an orifice fitting including a threaded screw having a head and a concentric axial orifice extending therethrough the threads of said screw being engageable with the internal threads of said exit to secure said orifice fitting therein to provide a predetermined orifice opening in said exit; a bimetal member having a flat terminal portion with an aperture therein of a size to admit and closely surround the threaded portion of said orifice fitting to provide an anchorage end secured to said orifice member and a deflectable portion extending transversely with respect to the orifice in said orifice fitting said deflectable portion terminating in a free end overhanging the orifice in said orifice fitting; a movable taper pin secured to the free end of said bimetal member to be moved thereby having a flow controlling end portion extending toward and disposed within the orifice of said orifice fitting for movement therein to alter the effective discharge area thereof; adjusting means including an external manually adjustable member adapted to be disposed on the exterior of said float chamber; connecting means adapted to extend therefrom into said float chamber; and position altering means operable by said manually adjustable means through said connecting means cooperatively related to said bimetal to adjustably alter the position of the same from that determined by the temperature of liquid entering said float chamber.

2,715,421

## CONTROL FOR LOOM LETOFF

Artemio Laraia and Victor F. Sepavich, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts  
Application December 21, 1953, Serial No. 399,452  
14 Claims. (Cl. 139—109)



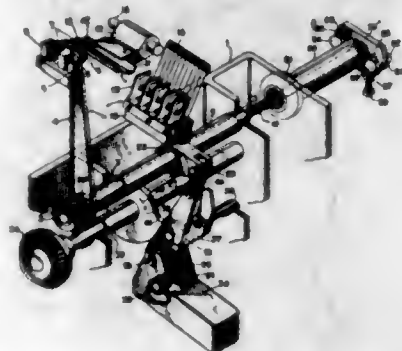
1. In letoff mechanism for a loom having a warp beam and wherein oscillation of a part of an escapement means

enables the beam to turn to pay off warp, arresting means for said part of the escapement means capable of assuming arresting and non-arresting positions with respect to said part, and control means for said arresting means effective to keep the arresting means in the non-arresting position thereof during loom operation to enable said part to oscillate but effecting movement of the arresting means to the arresting position thereof to prevent oscillation of said part when the loom is stopped.

2,715,422

## SHUTTLE PICKING MECHANISM

Erwin Pfarrwaller, Winterthur, Switzerland, assignor to Sulzer Freres, S. A., Winterthur, Switzerland, a corporation of Switzerland  
Application October 29, 1953, Serial No. 388,959  
Claims priority, application Switzerland November 3, 1952  
8 Claims. (Cl. 139—145)

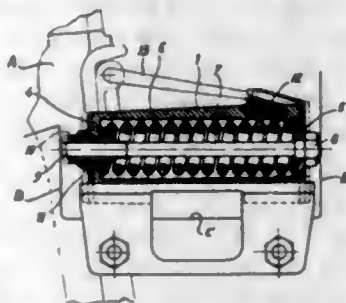


1. A shuttle picking mechanism for weaving machines comprising a torsion spring having two ends, a picking lever connected with one of said ends, holding means, connecting means connecting said holding means with one of said ends for preventing rotation thereof, tensioning means connected with the end of said spring other than the end with which said holding means are connected, and adjusting means interposed in said connecting means for adjusting the relative angular position of said holding means and of said torsion spring.

2,715,423

## ADJUSTABLE BUFFERS FOR WEAVING LOOMS

Jaime Picanol, Zandberg, Zillebeke-lez-Ypres, Belgium  
Application September 27, 1951, Serial No. 248,613  
2 Claims. (Cl. 139—188)

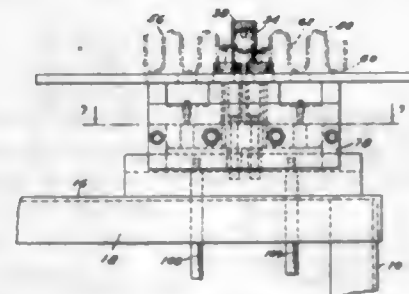


1. A buffer for a loom having an oscillating batten provided with a stop rod nose, said buffer comprising a stationary bolt mounted on said loom and threaded at one end, a coil spring surrounding said bolt, a shouldered nut engaging the threaded end of said bolt, a buffer body having a bore receiving said bolt and spring and having an inward flange at one end, slidable on said nut, said spring engaging said flange to urge said buffer body to take a rest position in which said flange abuts against the shoulder of said nut, a ring mounted on the other end of said bolt for abutting the other end of said spring, and a stop mounted on said buffer body for engagement with said stop rod nose, so constructed and arranged that rotation of said nut on said bolt will vary the rest position of said buffer body with respect to said loom.

2,715,424

## WIRE FORMING MACHINE

Harry H. Fante, Riverside, Mitchell J. Shepard, Cicero, and August T. Gonia, Berwyn, Ill., assignors, by mesne assignments, to Rockwell Spring and Axle Company, Coraopolis, Pa., a corporation of Pennsylvania  
Application January 30, 1952, Serial No. 269,044  
12 Claims. (Cl. 140—71)

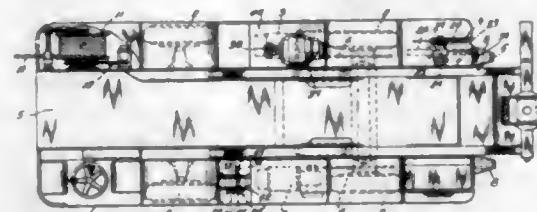


11. A wire bending machine for bending a strip of pre-formed zigzag wire comprising: a frame; a pair of laterally spaced apart, slotted wire twisting heads adapted to engage over the same linear side edge of a strip of zigzag wire at spaced apart intervals with each loop of two adjacent similarly disposed loops of the wire received in the slot of each head; a pair of shafts mounted for rotation on the frame; means mounted on the frame and coupled with the shafts for rotating the shafts; each of said twisting heads mounted on one of said shafts; a slotted wire engaging and positioning member disposed opposite the twisting heads and adapted to engage the intermediate and oppositely disposed connecting loop of the zigzag strip from the loops received within said heads and with said connecting loop seated in the slot of the positioning member, said wire engaging and positioning member adapted to position and hold said connecting loop of the wire during bending of the wire; and means mounted on the frame and supporting said engaging and positioning member for shiftable movement in the plane of the wire strip toward and away from the twisting heads whereby the wire may be cleared out of the slots in the twisting heads.

2,715,425

## SAWING APPARATUS ON TIMBER SETTING MACHINES

Charles F. Ball and James W. Woolf, Franklin, Pa., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania  
Application May 5, 1948, Serial No. 25,203  
11 Claims. (Cl. 143—43)



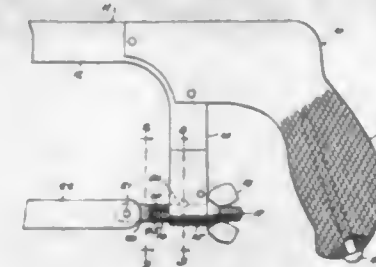
4. In combination, a transport vehicle, at least one propulsion motor for said vehicle, a saw on said vehicle, a hydraulic driving motor for said saw, a pump for supplying hydraulic fluid for said motor, a driving motor for said pump, a valve for controlling the delivery of fluid by said pump to said hydraulic motor, and controlling means for said propulsion and pump driving motors including a switch, circuit means controlled by said switch for effecting operation of both of said propulsion and pump driving motors, means for moving said switch automatically to open position upon movement of said valve to a position for delivery of fluid by said pump to said hydraulic motor, and means for reinstituting a power circuit for said pump driving motor while said at least one propulsion motor remains in an open circuit.

697 O. G.—23

2,715,426

## HACK SAW WITH ANGULAR BLADE ADJUSTING MEANS

John M. Morris, Pensacola, Fla.  
Application April 15, 1954, Serial No. 423,321  
2 Claims. (Cl. 145—33)

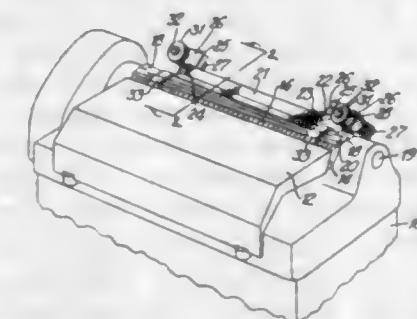


1. An improved hack saw blade holding frame comprising an elongated frame bar, a laterally extending arm on each end of said bar, a handle on one end of said bar, a hollow open ended tube on each of said arms remote from and parallel to said bar, a cylindrical body rotatable in each of said tubes, longitudinally extending flutes having curved surfaces on said cylindrical body adjacent said handle, a series of ball receiving sockets on the cylindrical body remote from said handle, a saw blade attaching lug on one end of each of said cylindrical bodies, a saw blade detachably engaged with and between said lugs, a screw on one of said bodies opposite from the lug thereon, a wing nut threaded on said screw and engaging an end of its respective tube for tightening or loosening said saw blade on said frame, a circular head on the other of said bodies and a ball detent on each of said arms resiliently engaged within said flutes and in aligned sockets securing said bodies at a selected angular relation to said bar.

2,715,427

## FATTING ATTACHMENT FOR SKINNING MACHINES

Ray T. Townsend, Des Moines, Iowa, assignor to Townsend Engineering Company, Des Moines, Iowa, a corporation of Iowa  
Application June 23, 1951, Serial No. 233,187  
3 Claims. (Cl. 146—130)



1. A fating attachment for skinning machines, comprising a rigid fating blade, means for mounting said fating blade on the skinning machine adjacent a skinning blade thereof so that each end of the fating blade is adjustable toward or away from the skinning blade to vary its depth in the fat independent of the other end of the fating blade, said means comprising brackets at opposite ends of the fating blade and supported on the machine, screw elements threaded in said brackets, and pivot blocks carried thereby and connecting the ends of said rigid fating blade to said screw elements.

2,715,428

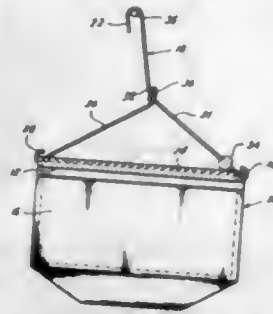
## COLLAPSIBLE RECEPTACLE

Lillian L. James, Houston, Tex.  
Application April 21, 1952, Serial No. 283,391  
5 Claims. (Cl. 150—1.8)

1. In a bag, suspension means therefor including a frame adapted to be secured about the margin of the open

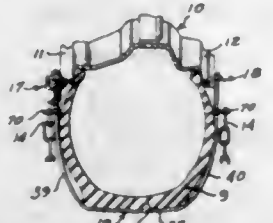


end of the bag, a bail pivotally connected at its opposite ends to the frame and having spaced apart side portions terminating in hook shaped portions adapted to be hooked over a support, a link slidably connected to each side of the bail and having a pivotal connection with the frame at a point opposite the corresponding end of the bail, means on the sides of said bail located between the frame and



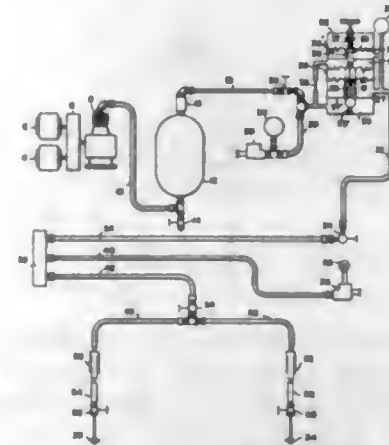
said hook shaped portions positioned to engage said links to limit upward sliding movement of the links on the bail, and a handle slidably connected to the sides of the bail between said means and said frame and movable to an upper position in engagement with said links to hold the links in engagement with said means and to a lower position adjacent said frame to permit the links to slide downwardly on said sides.

**2,715,429**  
**DEVICE FOR APPLYING TIRE CHAINS**  
Henry A. Rockel, Allentown, Pa.  
Application October 23, 1953, Serial No. 388,023  
5 Claims. (Cl. 152-213)



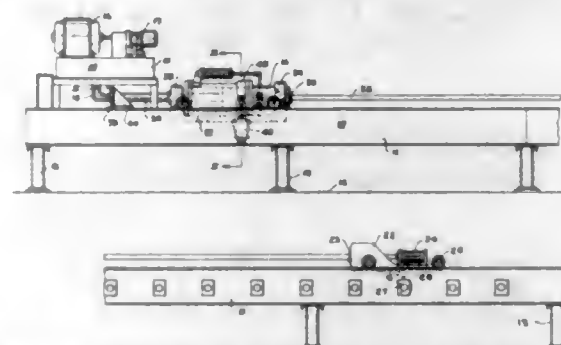
1. In a device for applying a tire chain to a vehicle wheel having a rim including an outboard rim flange and an inboard rim flange and a tire on the rim, a tire embracing spring yoke having a bight portion for engaging the tread of a tire and outboard and inboard arms for engaging the outboard and inboard sides of the tire, a spring clamp mounted on the outboard yoke arm and adapted to be clamped on the outboard rim flange, a clip mounted on the inboard yoke arm and adapted to be engaged over the inboard rim flange, and chain hooks on said outboard and inboard yoke arms with which terminal links of a tire chain are adapted to be engaged, said clamp comprising opposed outer and inner jaws, means hinging the jaws together to swing toward and away from each other for engaging and disengaging from opposite sides of the outboard rim flange, first spring means on said outboard yoke arm tensioning the jaws away from each other, second spring means on said outboard yoke arm, a relatively stationary clamping arm and a swingable clamping arm mounted on said outboard yoke arm, said stationary clamping arm being engaged with a side of one of the jaws remote from the other jaw and said swingable clamping arm being positioned at the side of said other jaw remote from said one jaw, said second spring means being positioned between said swingable clamping arm and the remote side of said other jaw, said swingable clamping arm being arranged to be swung toward said other jaw so as to compress said second spring means and close the jaws together against the resistance of said first spring means, and a catch hook on said stationary clamping arm with which said swingable clamping arm is engageable to hold the jaws in clamping relation to the opposite sides of the outboard rim flange.

**2,715,430**  
**APPARATUS FOR CONTROLLING PRESSURE IN PNEUMATIC TIRES**  
Myrl A. Lindeman, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey  
Application August 2, 1952, Serial No. 302,443  
1 Claim. (Cl. 152-416)



Apparatus for equalization and maintenance of predetermined pressure in a plurality of pneumatic tires of a vehicle comprising means supplying air under pressure, a pressure regulator of the supply-and-waste type receiving air from said supplying means and arranged to maintain at a delivery connection substantially constantly a predetermined pressure, and connections between said delivery connection and the vehicle tires including a surge tank, flow restricting means between the delivery connection of said regulator and said surge tank, and branch connections between the surge tank and each of said tires, said surge tank and flow restricting means acting to dampen pressure surges originating at the tires to prevent the imposition of sudden pressure changes at the delivery connection of the regulator.

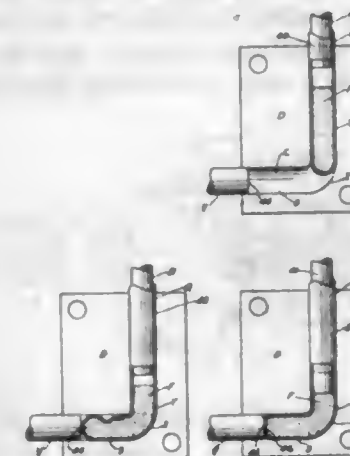
**2,715,431**  
**COMBINED TENSIONING AND TWISTING APPARATUS FOR STRAIGHTENING EXTRUDED SHAPES**  
Mircea A. Grossu, Youngstown, Ohio, assignor to Lombard Corporation, Youngstown, Ohio, a corporation of Ohio  
Application October 24, 1952, Serial No. 316,600  
5 Claims. (Cl. 153-35)



1. In apparatus for straightening and aligning extruded stock and of the type comprising a base, means at one end of said base for gripping an extruded stock piece, means at the other end of said base for gripping said stock piece, means to apply tension to a stock piece so gripped and means to rotate one of said means to grip with respect to the other; the improvement in said one of said means comprising a carriage slidable on said base toward and away from said other of said means to grip, a housing rotatably carried by said carriage and having means therein adapted for gripping engagement with a stock piece, a hydraulic cylinder rigidly secured at its forward end to said housing in axially aligned relation thereto and rotatably supported in said carriage, a piston slidable in said cylinder, a piston rod connecting said

piston and rigidly secured to said base, said piston rod extending rearwardly of said cylinder, a source of hydraulic fluid, conduit means communicating with said source and said cylinder on each side of said piston whereby said cylinder may be caused to move axially with respect to said piston upon application of fluid pressure in said cylinder, and means to rotate said cylinder and housing with respect to said carriage and piston rod.

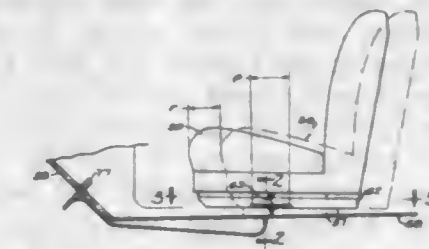
**2,715,432**  
**MEANS FOR MAKING ELBOWS**  
Paul D. Wurzbarger, Cleveland Heights, Ohio, assignor to Northern Indiana Brass Company, Elkhart, Ind., a corporation of Indiana  
Continuation of abandoned application Serial No. 611,600, August 20, 1945. This application April 12, 1951, Serial No. 220,632  
1 Claim. (Cl. 153-48)



Mechanism for working a straight tubular blank by longitudinal motion through the channel of a forming die to the form of a right angled elbow having the radius of curvature of its external surface at its inside corner that is not substantially greater than one third the outside diameter of the blank comprising a split forming die having an unobstructed right angled channel of uniform internal diameter corresponding to the outside diameter of the blank and having an abrupt right angled bend smoothly joining entering and leaving passages of the channel with a radius of curvature corresponding to the said radius of curvature of the wrought elbow, said blank containing a quantity of freely flowable incompressible filler of greater volume than the wrought leg and bend of the elbow, a ram having an internal bore and slidably movable in the entering passage of the channel and engaging the trailing end of the blank to forcibly move the blank and move the leading end of the blank through the bend in the channel and into the leaving passage thereof, a plunger slidably movable in the bore of said ram and engageable with said filler independently of said ram, a second ram slidably movable in the said leaving passage of the channel, means for forcibly moving said first ram, means restraining said plunger from compressing said filler until the leading end of the blank is substantially fully moved into the leaving passage of the die and for forcibly moving said plunger into forcible engagement with said filler thereafter, and means for forcibly urging said second ram in said leaving passage in opposition to the pressure created in said filler by said plunger.

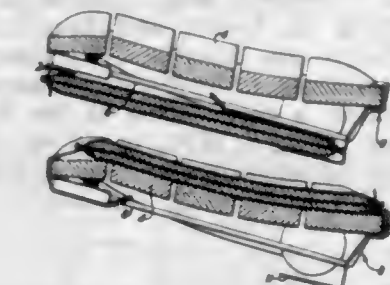
**2,715,433**  
**MOTOR VEHICLE SEAT CONSTRUCTION**  
Gregory S. Dolgorukov, Ferndale, Mich.  
Application August 10, 1950, Serial No. 178,735  
6 Claims. (Cl. 155-14)

1. In a front seat construction for a motor vehicle, a seat adapted to support at least one occupant, means supporting said seat and providing for adjusting the same



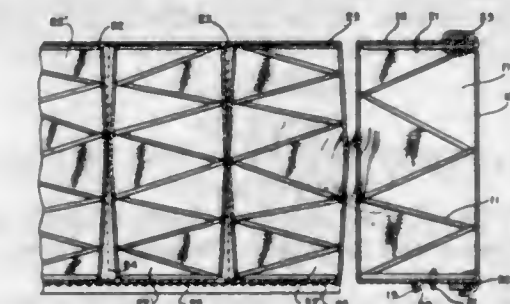
with respect to the vehicle in one of more than two fixed positions for convenience of driving, guiding means supporting said seat-supporting means and providing for moving the same toward the rear of the vehicle, to facilitate exit of an occupant, for a predetermined and constant distance from any adjusted position of said seat in said supporting means without disturbing the adjusted position for convenience of driving, means automatically and positively locking said seat-supporting means in said guiding means in either of the two extremities and only the extremities of said distance, manually operated means for unlocking said locking means, spring means moving said seat from the rear extremity of said distance to the front extremity thereof, said spring means yielding to the effort of the occupant moving the seat rearwardly.

**2,715,434**  
**CUSHION ATTACHMENTS FOR STADIUM AND SIMILAR SEATS**  
David L. Lukens, South Orange, N. J., assignor, by mesne assignments, to McLaney Manufacturing Corporation, Miami Beach, Fla., a corporation of New York  
Application March 23, 1953, Serial No. 344,151  
10 Claims. (Cl. 155-131)



1. A cushion attachment for a stadium or similar seat comprising a cushion pad, means permanently connecting the front end portion of the pad to the under side of a seat bottom for swinging movement between inoperative position adjacent said under side and operative position on the upper surface thereof, and coin-controlled means fixed to the under side of the front end portion of the seat bottom and including a bolt normally receiving and holding the rear end portion of the pad and being releasable to free said rear end portion of the pad for movement on said permanent connecting means to operative position.

**2,715,435**  
**SPRING CUSHION ASSEMBLY FOR UPHOLSTERY**  
Murray J. Rymland, Baltimore, Md.  
Application April 12, 1954, Serial No. 422,477  
1 Claim. (Cl. 155-179)



A spring cushion assembly for upholstery including an outer continuous border row of fabric-encased helical

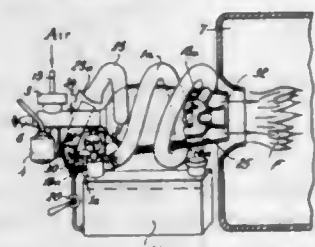


springs, the space within said border springs being filled with a plurality of rows of coil springs casually introduced bodily into said space so as to properly align themselves without requiring predetermination of their placement relative to the outer border springs, fabric casings having spaced pockets in which said coil springs are separately enclosed, said coil springs being of substantially barrel shape and free from connection with the border springs, said barrel springs having central convolutions engaging one another and their ends spaced apart so as to produce a rubber cushion effect when compressed, the engagement of the central convolutions of adjacent barrel springs serving to prevent lateral displacement, upper and lower flexible flat metal frames connected to the border springs, said frames extending longitudinally of the top and bottom of the border springs and offset relative to the diameters thereof so as to anchor the border springs and enable them to withstand the wear and pressure to which they are normally subjected, a flexible member connected to each of the metal frames and to the outer housings and the border springs to maintain the border springs in a fixed position relative to the frames, transversely extending longitudinally spaced flexible means connected to the row of barrel springs and to the barrel spring housings for loosely connecting the row of barrel springs together, and said barrel springs being positioned sufficiently close to each other to prevent cupping or canting of the barrel springs and insure a uniform distribution of the weight thereon.

2,715,436

#### RESONANT PULSE JET COMBUSTION HEATING DEVICE

Bodo Lafferentz, Nussdorf, near Überlingen am Bodensee, and Ludwig R. Huber and Bernhard E. Strittmatter, Überlingen am Bodensee, Germany, assignors, by mesne assignments, to Swingfire (Bahamas) Limited, Nassau, Bahamas, a corporation of the Bahamas  
Application August 5, 1952, Serial No. 302,728  
Claims priority, application Germany August 9, 1951  
11 Claims. (Cl. 158—4)



1. A combustion heating device comprising a resonant pulse jet combustion device including a combustion chamber, an elongated exhaust pipe directly connected to said combustion chamber and forming therewith a resonator, means for automatically feeding fuel and air to said combustion chamber to produce successive detonation phases and intervening vacuum phases of operation, a jacket spaced from and enclosing at least a portion of the combustion chamber, means for introducing a firing fuel and air into the space between the jacket and the combustion chamber for preheating, said jacket having an outlet for the discharge of the preheated firing fuel and air mixture, and means operatively associated with the outlet of said exhaust pipe for propelling said fuel and air mixture through said jacket and to a zone for combustion.

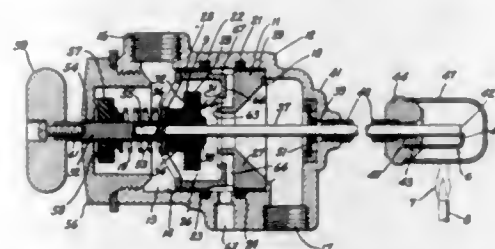
2,715,437

#### PILOT OPERATED SAFETY VALVE FOR HEAT APPLIANCE

Donald F. Drow, Los Angeles, Calif., assignor to Minneapolis-Honeywell Regulator Company, a corporation of Delaware  
Application August 7, 1951, Serial No. 240,703  
8 Claims. (Cl. 158—138)

1. A valve mechanism for controlling the flow of fuel to the main and pilot burners of a heat appliance com-

prising, a valve housing formed with a valve chamber defined in part by an internal cylindrical wall and formed with inlet and discharge passages opening to said chamber at spaced positions along said wall and adapted for connection to a source of fuel and the main burner of a heat appliance respectively, said housing being formed with a third fuel passage opening through said wall to said chamber at a position between said inlet and discharge passages and being adapted for connection to the pilot burner of said appliance, a valve seat member having an internal transverse wall thereacross provided with a fuel opening and a valve seat surrounding said opening and being formed with a hollow sleeve portion having one end extending from said transverse wall in the direction of said inlet passage, said sleeve portion being slidably mounted for reciprocation between terminal positions on said wall in sealed engagement therewith between said inlet passage and said outlet passage, spring means normally urging said member to a first terminal position, a spider member connected across said end of said hollow sleeve portion, actuator means connected to said spider member and extending therefrom through



said housing for manual engagement for displacement of said valve seat member to a second terminal position against the resistance of said spring means, a valve mounted interiorly of said hollow sleeve portion and between said spider member and said seat for movement to and from said seat, second spring means compressed between said valve and spider member for urging said valve to said seat, thermostatically controlled means adapted to be responsive to said pilot burner and engageable with said valve for holding said valve in open position against resistance of said second spring means when said valve seat member is in its first terminal position and adapted to function on extinguishing of said pilot burner to release said valve for closing by said second spring means, said valve being movable by and with said seat upon displacement of said valve seat member to its second terminal position so as to position said valve for engagement with said thermostatically controlled means, and cooperating valve and seat means provided by said chamber wall and said valve seat member between said inlet and pilot passages for admitting fuel flow to said pilot in said second terminal position and preventing said flow in said first terminal position.

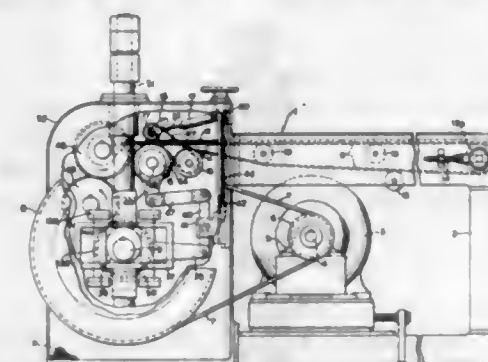
2,715,438

#### PELLETIZER APPARATUS

Angus A. McDonald, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan  
Application January 26, 1953, Serial No. 333,040  
4 Claims. (Cl. 164—48)

1. A pelletizer for plastic materials comprising means for intermittently advancing a sheet of material, means for controlling the length of material feed per advancement, an elongate anvil having a flat anvil surface over which the sheet of material passes, said anvil having a plurality of evenly spaced partition walls on the trailing surface thereof terminating in trailing anvil surfaces in the plane of said flat anvil surface, a knife for contacting said flat anvil surface to cut material thereon, said knife having evenly spaced trailing partition flanges thereon with cutter edges on the ends thereof, said trailing partition flanges and cutter edges thereon being positioned to

engage said trailing anvil surfaces for cutting action when said knife engages said anvil, means for reciprocating said knife to and from engagement with said anvil, a driven shaft, and a plurality of rigid knock-out fingers carried by said shaft for rotation intermediate said partition walls

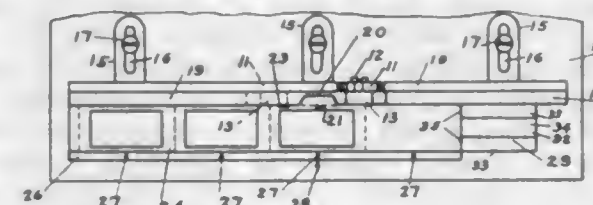


to knock out particles of material cut from the sheet of material by said knife, the operation of said knock-out fingers being correlated with the action of said knife for movement past said cutter edges when said knife is engaged with said anvil.

2,715,439

#### LABEL ALIGNER FOR DIE CUTTING PRESS

Paul E. Brunner, Baltimore, Md.  
Application March 11, 1952, Serial No. 275,993  
4 Claims. (Cl. 164—59)

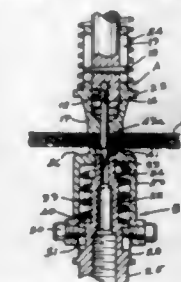


1. A vertically reciprocally movable peripheral cutting die and a flat-topped table thereunder, longitudinal guide means adjustably mounted on said table at one side of said die, surfaces of said guide means on the side toward said die lying in a common vertical plane and extending from substantially the forward end of the table past said die and forming a substantially continuous guide surface for one side edge of a stack of strips resting on a die-cut board, said guide surface forwardly of said cutting die extending vertically at least as high as the top of said stack of strips and the major portion at least of said guide surface opposite said cutting die extending only substantially as high as the top of said die-cut board.

2,715,440

#### METHOD AND APPARATUS FOR FORMING OPENINGS IN WOVEN FABRICS

Raymond V. Havican, Waterbury, and Jacob P. Treciakos, Oakville, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut  
Application August 7, 1951, Serial No. 240,648  
3 Claims. (Cl. 164—86)



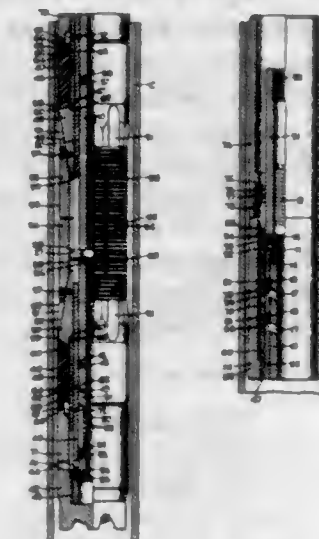
1. The method of providing a pierced hole in a woven fabric which consists in supporting one side of the fabric in radially spaced relationship to a piercing punch or stabbing needle operated from the opposite side of said

fabric and having a pointed portion and a cylindrical portion, clamping said fabric against said support in spaced relationship to the cylindrical portion of said needle, forcing said needle through said fabric centrally of the compressed portion of the fabric and causing the adjacent portion of fabric to be distorted downwardly within said supported area and around the cylindrical portion of said needle and finally forcing said distorted portion of the fabric upwardly to the common plane of said fabric and compressing the distorted portion and the surrounding clamped portion to a state less than the normal thickness of said fabric about the cylindrical portion of said needle.

2,715,441

#### BRIDGING PLUG

George A. Bouvier, Sierra Madre, Calif., assignor, by mesne assignments, to Dresser Industries, Inc., Dallas, Tex., a corporation of Pennsylvania  
Application May 24, 1951, Serial No. 228,088  
9 Claims. (Cl. 166—127)



1. Apparatus of the character described, comprising in combination: a mandrel; a pair of oppositely facing, longitudinally spaced slip cones slidably mounted on said mandrel with the apex ends thereof adjacent one another; a sleeve member extending coaxially from the base end portion of each of said slip cones; an annular packing element on each of said sleeve members; slips carried by each of said cones, said slips on opposite ones of said cones being positioned in base-to-base abutment with one another and thereby adapted to be moved radially together into contact with a surrounding casing upon longitudinal movement of said slip cones toward one another on said mandrel; annular packing expanding means slidably mounted on said mandrel, engageable with one end of one of said packing elements; annular packing expanding means fixed to said mandrel, engageable with one end of the other of said packing elements; means to move the slidably mounted packing expanding means on said mandrel toward the fixed packing expanding means to expand said packing elements and to move said slip cones toward one another on said mandrel to set said slips; and releasable locking means to lock said slidable packing expanding means to said mandrel against retrograde movement therein when said packing means and slips are in set position.

2,715,442

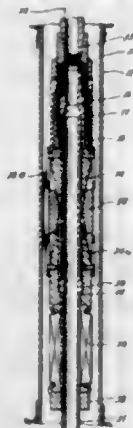
#### WELL PACKERS

Cleoro C. Brown, Houston, Tex.  
Application November 26, 1951, Serial No. 258,166  
7 Claims. (Cl. 166—139)

1. A well packer apparatus including a tubular support, means rotatably suspending the support from a lowering pipe, an annular elastic packing element having its lower end anchored to the support with its upper end



slidable longitudinally with respect to the support, an anchoring unit surrounding the support above the packing element and having its lower end connected with the upper end of the packing element, said anchoring unit being slidable longitudinally of the support and including gripping slips, and means for moving said slips radially outwardly into gripping position upon relative longitudinal movement of said anchoring means, actuating



means interposed between the lowering pipe and the upper end of the anchoring unit for imparting a longitudinal movement to the anchoring unit with respect to the support upon a rotation of the lowering pipe, whereby initial longitudinal movement of the anchoring unit will apply endwise compression to the upper end of the packing element to distort the same into packing position, and a frictional wall engaging means for holding the anchoring unit and the packing element against rotation during the rotation of the lowering pipe.

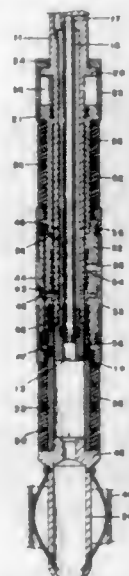
#### 2,715,443 FORMATION TESTER FOR OIL WELLS WITH SAMPLE RETAINER

Boyd R. McKinley, Long Beach, Calif.  
Application May 6, 1952, Serial No. 286,383  
2 Claims. (Cl. 166—152)



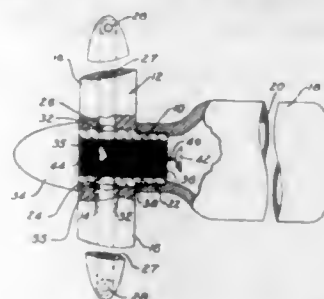
1. In a formation tester, including an intake sleeve having holes extending laterally into the same, a sampling tube longitudinally slidable in said intake sleeve, said tube having an intake port therein alignable with said holes on longitudinal movement of the tube, a control head, threaded means coupling the sampling tube to said control head, a pipe connected at its ends to said intake sleeve and control head respectively, the sampling tube extending through said pipe, wall gripping means mounted on said pipe, said thread means on the control head imparting longitudinal movement to the tube on rotation thereof relative to the control head to open and close said holes in the intake sleeve to admit fluid, a sample container depending from the intake sleeve, said intake having a second port therein, said second port being movable into the sample container in the lowered position of the sampling tube.

#### 2,715,444 HYDRAULIC PACKERS Kenneth J. Fewel, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Application March 17, 1950, Serial No. 150,313 1 Claim. (Cl. 166—187)



Apparatus for sealing the lower end of a conduit in a well bore comprising, in combination, a mandrel having a plurality of vertically spaced ports therein, a sleeve mounted on said mandrel for longitudinal movement with respect thereto and having a plurality of vertically spaced ports which may be brought into alignment with certain ports of the mandrel, means for connecting the mandrel to the conduit, a plurality of sleeve valves including said mandrel and said sleeve operable from the surface of the ground by manipulation of the conduit to selectively control the alignment of ports in said mandrel with ports in said sleeve, two spaced compression type packers mounted on the sleeve, each being adapted to be expanded into fluid-tight engagement with the wall of the well bore, two shoes, one for each packer, slidably mounted on the sleeve for expanding the packers hydraulically, said shoes having a chamber associated therewith adapted upon alignment of certain ports in said mandrel with certain ports in said sleeve to be supplied with fluid under pressure, and means including one of said sleeve valves for supplying fluid under pressure to said chamber to move said shoes and expand said packers and operable by subsequent manipulation of said mandrel to seal in said chamber the fluid under pressure and hold said packers expanded whereby variable pressure operations may be performed in the well bore between the two packers through another of said sleeve valves without altering the expanded position of said packers.

#### 2,715,445 MODEL AIRPLANE PROPELLER DRIVE Stewart D. Williamson, Detroit, Mich. Application July 12, 1954, Serial No. 442,877 5 Claims. (Cl. 170—135.4)

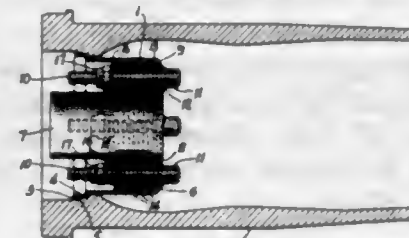


1. A model airplane motor comprising a hub, a propeller having a bored central portion rotatably mounted on said hub and having propeller blades projecting radially outwardly from said bored central portion, a cartridge having a chamber for containing a charge of fluid under

pressure, a first passage in said hub communicating with the chamber in said cartridge, an annular groove in said bored central portion, additional passages in said blades opening into said annular groove, said additional passages terminating adjacent the tips of the blades in discharge ports directed tangentially relative to said blades, angularly arranged ports in said hub establishing communication between said first passage and said annular groove, a valve in said first passage, said valve including a valve element resiliently urged to closed position normally to prevent the flow of fluid through said first passage, and means on said hub for shifting said valve element to open position.

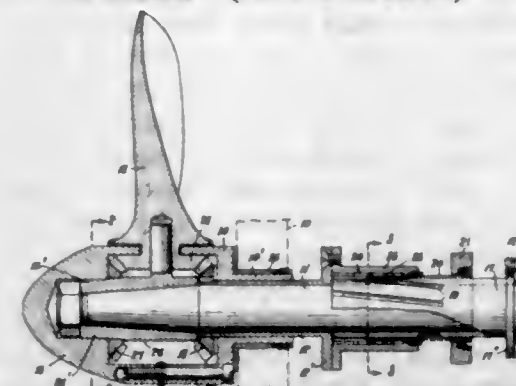
#### 2,715,446 BALANCE ASSEMBLY FOR AIRCRAFT BLADES Adolph E. Felt, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application March 24, 1951, Serial No. 217,326  
2 Claims. (Cl. 170—159)



1. A balance assembly for a propeller blade, comprising a cup member adapted to be secured coaxially within the longitudinal bore of the shank of the blade with the bottom of said cup member disposed inwardly toward the tip of the blade, a hollow tube disposed longitudinally centrally of the cup member, said tube extending through the bottom of the cup member and being secured thereto to provide a passageway into the blade interior for a heated medium, a plurality of studs each secured to the bottom of the cup member and extending longitudinally of the cup member at cardinal locations corresponding substantially to the leading edge, the trailing edge, the center line of the thrust surface, and the center line of the camber surface of the propeller blade, respectively, said studs being spaced radially outwardly a predetermined distance from the hollow tube, a plurality of segments removably mounted on each stud and contoured for disposal within the cup member outwardly from the hollow tube to effect vertical and horizontal balance of the blade, said segments being adapted to be disposed individually on predetermined selected studs to effect further balance of the blade in accordance with measurements of balance movements thereof, and means removably secured on said studs to retain the segments in place.

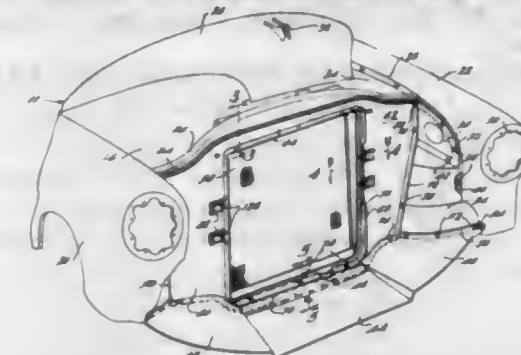
#### 2,715,447 REVERSIBLE PITCH MARINE PROPELLER Malcolm J. Kelson, Sr., Detroit, Mich. Application December 11, 1952, Serial No. 325,297 3 Claims. (Cl. 170—160.48)



1. In an adjustable pitch marine propeller mechanism, a propeller shaft, a relatively rotatable sleeve on said

shaft, a spider having outwardly extending arms fixedly mounted on said shaft, a propeller blade rotatably mounted on each arm of the said spider, a pitch-determining bevel gear carried by the inner end of each of the said blades and spaced from said sleeve, a pair of spaced opposed coaxial bevel gears connecting said pitch-determining gears together with one of said gears mounted on said rotatable sleeve and the other gear freely mounted as an idler on said shaft, and a two-part enclosing shell, for said gears and the inner ends of said blades, consisting of an outer part and an inner part with the outer part of said shell being rigidly mounted on the outer end of said propeller shaft, and the inner part being rotatably mounted on said rotatable sleeve, both of said shell parts being rigidly secured together; each of said shell parts having a portion extending between the inner end of each of said blades and the gear carried by said blade inner end.

#### 2,715,448 FRONT SHEET METAL CONSTRUCTION FOR AUTOMOTIVE VEHICLES Elmer G. Zeeb, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware Application January 3, 1952, Serial No. 264,707 6 Claims. (Cl. 180—68)



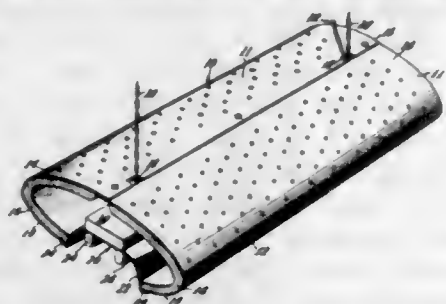
1. In a vehicle having a pair of spaced front fenders and an engine compartment therebetween, a radiator core at the forward part of the engine compartment, and a front-sheet-metal-supporting frame crossmember passing generally below the radiator core; a front sheet metal construction including the front fenders and comprising, in combination, radiator supporting structure connected to the radiator core and including a transversely arranged radiator yoke stamping, said stamping having spaced laterally extending side portions disposed in a substantially vertical plane, and a pair of vertically spaced upper and lower bridging portions of a general structural channel cross section and integrally incorporated between the side portions so as to define therewith a radiator core opening, said radiator core being secured to said stamping in registry with said core opening, fastener means connecting the respective stamping side portions to the individual said fenders, radiator side shields connected to the stamping side portions and to the fenders, a horizontally disposed stone deflector connected to the lower said channel bridging portion and to the fenders, and fasteners connecting an intermediate portion of said frame crossmember to the lower channel bridging portion of said radiator supporting structure thereby supporting said yoke stamping and the front sheet metal construction for the vehicle.

#### 2,715,449 COMBINED LIGHTING AND SOUND ABSORBING FIXTURE Carl W. Lemmerman, Hartford, Conn., and Cloyd D. Smith, Los Angeles, Calif. Application December 12, 1949, Serial No. 132,522 10 Claims. (Cl. 181—30)

1. A combined lighting and sound-absorbing fixture comprising: an elongated downwardly concave trough



member in said trough for supporting an elongated light source within the concave side thereof, the concave side of said trough being adapted to reflect a substantial portion of light impinging thereon, said trough being perforated to such a degree as to render said trough substantially acoustically transparent but substantially optically



opaque, and a body of fibrous sound-absorbing material secured to the convex side of said trough whereby a large proportion of the sound impinging on the lower side of the perforated portion of said trough is absorbed, and common means for hanging said trough and said body of material from a ceiling of a room.

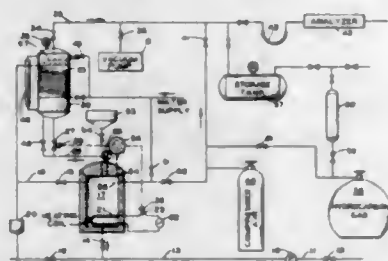
2,715,450

## DEGASSING OF DRILLING MUD

Jack E. Bliss and Arthur J. Joseph, Midland, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application October 30, 1951, Serial No. 253,943

2 Claims. (Cl. 183—2.5)



1. In drilling fluid analyzing apparatus including a pressure vessel adapted to receive the fluid to be analyzed, a chamber to collect vapor from said pressure vessel, and a conduit connecting said vessel with said chamber; means for transmitting vapor from said vessel to said chamber comprising in combination, a solenoid valve positioned in said conduit, an electrical heating coil disposed in said pressure vessel, a source of current connected to said coil, a first switch to disengage said current source from said heating coil, a relay to open said switch, and means to actuate said relay including a current source and a pressure responsive switch connected in circuit with the coil of said relay and with the coil of said solenoid valve, said pressure responsive switch remaining open until a first preselected pressure is reached in said vessel and closing when a second lower preselected pressure is reached in said vessel, said first switch including latching means to retain said first switch open after said second lower pressure is reached in said vessel.

2,715,451

## FLUID PURIFYING APPARATUS

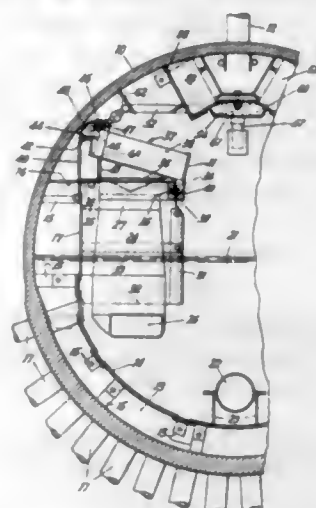
Forrest G. Raynor, Baldwin, N. Y., assignor to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey

Application January 8, 1952, Serial No. 265,472

10 Claims. (Cl. 183—28)

8. Apparatus for purifying wet steam comprising a steam and water drum having a steam outlet above the water line thereof and a steam and water mixture inlet thereto, a row of cyclonic steam and water separators positioned along a wall of said drum, means for passing all of the steam and water mixture entering

said drum through said steam and water separators, and steam washing means within said drum positioned to receive all of the steam from said separators, said washing means including a plurality of upright closely spaced corrugated plates having their edges lying in radial planes



relative to the axis of said drum, a wash water distributor positioned adjoining an edge of said plates to direct the flow of film of water downwardly along the surfaces thereof and in surface contact with the steam flowing between said plates.

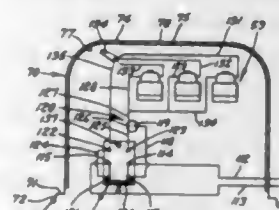
2,715,452

## SUCTION CLEANER

Moss A. Kent, White Plains, N. Y.

Application December 6, 1950, Serial No. 199,429

1 Claim. (Cl. 183—37)



In a suction cleaner of the type wherein air is drawn into the cleaner with dust or water or other matter being taken up by the cleaner and is separated from such matter, a housing including a motor housing part having an air outlet opening and a material receiving part in air communication with said motor housing part and having an air inlet opening, an electric motor suction fan unit in said motor housing part interposed in the path of the air drawn thereby through said housing and whereby the temperature of said unit and of the air within said motor housing part is affected by the volume and velocity of said air drawn therethrough, a circuit including said motor unit, and a normally closed thermostatic switch in said motor housing part so positioned as to be exposed to and operated by temperature changes in said motor housing and connected in said circuit for opening the latter on the temperature within said motor unit, reaching a predetermined point, a normal operation switch means in said circuit and including manual means for opening and closing said circuit through said thermostatic switch, said normal operation switch means adapted when closed to remain in closed position until opened through manual operation of said manual means, a by-pass circuit including said motor unit and by-passing said thermostatic switch, and an auxiliary by-pass switch means in said by-pass circuit manually operable to close said by-pass circuit and including biasing means adapted to normally open said by-pass circuit, whereby upon manual release of said by-pass switch means after closing said by-pass switch means automatically opens said by-pass circuit.

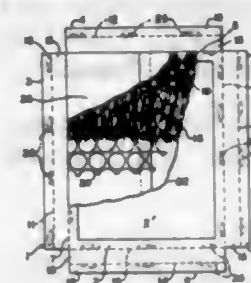
2,715,453

## AIR FILTER UNIT

Horace R. Lange, Yonkers, N. Y., assignor to Air Filters Company, New York, N. Y., a partnership of New York

Application June 21, 1952, Serial No. 294,765

4 Claims. (Cl. 183—44)



1. An air filter unit comprising a central, one-piece, integral, substantially rectangular frame portion having a substantially rectangular opening therein of dimensions less than that of said frame portion, a filter core positioned in superimposed relationship on said frame portion to bridge said opening and to overlap the contact portions of said central frame portion marginal to said opening, said core having substantially the same dimensions as said frame portion, four rectangular wing portions integrally secured only along one side to each peripheral side edge of said central frame portion and folded along a first fold line upwardly and at substantially right angles to said frame portion and engaging the peripheral side surfaces of said filter core, each of such wing portions having its remaining peripheral edges free relative to said central frame portion, the top free ends of said wing portions folded inwardly along a second fold line spaced from and parallel to said first fold line to a position substantially parallel to said central frame portion and overlying the top surface of said filter core for a distance inwardly corresponding to the contact portion of said central frame portion marginal to the opening therein, and means for securing said folded wing portions in their folded position.

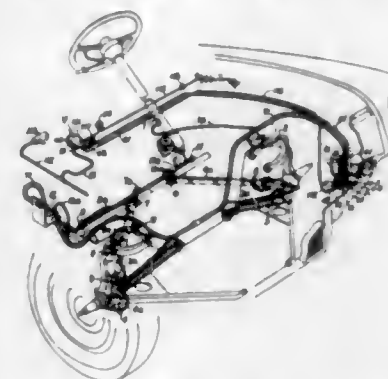
2,715,454

## LUBRICATING SYSTEM

Carl H. Mueller, Pasadena Hills, Lutwin C. Rotter, Maplewood, and Rudy F. Schneller, O'Fallon, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application August 30, 1954, Serial No. 452,828

16 Claims. (Cl. 184—7)



1. A lubricating system for an automotive vehicle, said vehicle having an engine and an intake manifold in which a vacuum is drawn when the engine is running, comprising an injector for dispensing measured charges of lubricant from a supply to individual points of lubrication on the vehicle, said injector comprising a cylinder having an inlet port and a series of longitudinally spaced outlet ports and a plunger working in the cylinder and adapted upon movement in one direction through a pressure stroke successively to force out individual charges through the successive outlet ports, the cylinder being recharged through the inlet port with lubricant from the

supply upon movement of the plunger through a return stroke, lubricant lines connecting the outlet ports to said individual points of lubrication on the vehicle, a vacuum-operated motor for operating the plunger, and means for connecting the motor to the manifold including a control valve adapted to be set and to remain in a position for connecting the motor and manifold for automatic operation of the injector in response to starting and stopping the engine, said valve also being adapted for manual operation to connect the motor and manifold and to vent the motor to atmosphere while holding vacuum in the manifold.

2,715,455

## FRICTION CLUTCH RESPONSIVE TO REVERSAL OF DRIVEN MEMBER

Albert Arthur Miller, Coventry, England, assignor to Self-Changing Gear Company Limited, Coventry, England

Application February 19, 1951, Serial No. 211,588

Claims priority, application Great Britain

February 23, 1950

15 Claims. (Cl. 192—85)



1. In a slippable friction clutch arrangement, rotatably mounted input and output means, frictionally engageable elements carried by the respective input and output means and operable when engaged to couple the said means together, means for driving the input means in at least one direction, means operably coupled to the output element for rotational movement in opposite directions at variable speeds, fluid pressure actuated means cooperating with the frictionally engageable elements for effecting and maintaining torque transmitting engagement between the elements, a fluid pump means operably coupled to said input means for delivering fluid under pressure to said fluid pressure actuated means, a second fluid pump means operably coupled to said output means for delivering fluid under pressure to said fluid pressure actuated means responsive to rotation of said output means in said one direction of rotation only whereby rotation of said input and output means in said one direction drives both pump means in unison for producing and maintaining clutch engaging pressure and any deceleration, stopping and reversal of direction of rotation of said output means reduces clutch engaging pressure by varying the delivery of said second pump means including cessation of delivery thereby.

2,715,456

## VENDING MACHINE

John Watling, Oak Park, Ill., assignor to Watling Scale Company, Chicago, Ill., a corporation of Illinois

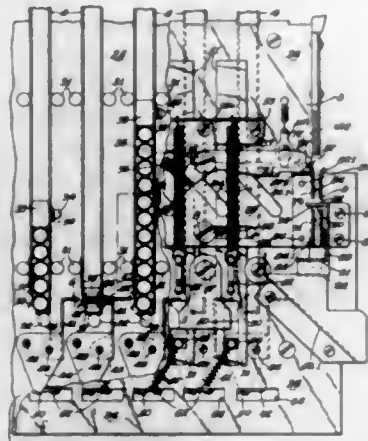
Application November 21, 1950, Serial No. 196,911

5 Claims. (Cl. 194—57)

1. A vending machine comprising a frame, a magazine supported vertically on said frame for holding articles to be dispensed, said magazine having an outlet opening in one side thereof adjacent its lower end, resilient means normally blocking said outlet opening for preventing the ejection of articles supported in said magazine unless said articles are directed against said resilient means with a predetermined force, an ejector pivotally mounted on said frame, said ejector including a finger which is movable from a retracted position on the side of said magazine opposite said outlet opening toward said outlet opening for ejecting the lowermost article of said magazine through said outlet opening against the force of said resilient blocking means, a vertically movable actuator



connected to said ejector which is adapted when depressed to pivot said ejector in a direction such that said finger moves toward said outlet opening, means connected to said ejector for biasing said finger toward said outlet opening, said last-named means being operable upon initial downward movement of said actuator to pivot said ejector through a portion of its arc during said initial movement the connection between said ejector and said actuator being such as to provide a lost motion connection during an intermediate portion of normal downward



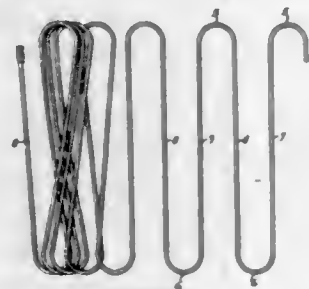
movement of said actuator during which time the ejector remains in a stationary position, a follower adapted to rest upon the uppermost article in said magazine and being proportioned to engage said finger during the downward motion of said actuator before said actuator begins its lost motion movement when said magazine is empty, a shoulder on said ejector which is positioned so as to be engaged by said actuator during its lost motion movement when said follower is engaged by said finger to thereby prevent the full operation of said actuator.

2,715,457

## PACKAGED TUBING COIL

Henry E. Voegeli, West Cheshire, Conn., assignor to The American Brass Company, a corporation of Connecticut

Application January 10, 1952, Serial No. 265,816  
2 Claims. (Cl. 206-46)



2. A coil of metallic tubing comprising a relatively long length of tubing formed with a series of reverse bends at relatively short intervals, each successive bend being in substantially the same plane as but in the opposite direction to the preceding bend, whereby when said coil is extended it possesses a serpentine configuration characterized by a series of reverse bends joined to each other by substantially straight tubing sections all lying in substantially the same plane, said coil having each of said bends closed through somewhat more than 180° and having all the substantially straight tubing sections which join successive pairs of such bends crossing from one side of the coil at one end thereof to the other side of the coil at the other end thereof, successive straight tubing sections crossing alternately over and under each other adjacent the center of the coil, alternate straight tubing sections lying side by side and in substantial contact with one another, whereby said coil has a thickness adjacent its center no greater than the sum of the thicknesses of tubing at its ends and whereby said coil may be

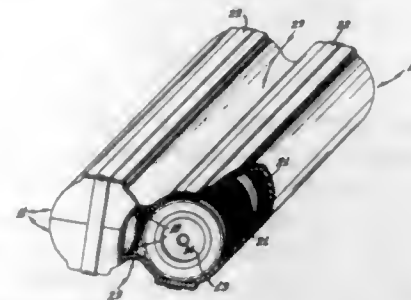
opened to its extended form without twisting of the tubing about its longitudinal axis, all of said tubing also being free of substantial twisting about its longitudinal axis in its coiled form.

2,715,458

## SHIPPING CONTAINER FOR HEAVY SPOOLS

Thomas R. Polglase, Spring Lake, Mich., assignor to Anaconda Wire and Cable Company, a corporation of Delaware

Application January 12, 1952, Serial No. 266,189  
1 Claim. (Cl. 206-65)



A shipping package for heavy spools having at least two parallel spool-receiving compartments comprising a shipping container formed of two substantially identical container parts, at least two rows of axially aligned spools received in said spool-receiving compartments, and container fastenings, each container part including an outer shell integrally formed of plastic impregnated fibrous material and an inner liner integrally formed of fibrous pulp material, said container parts having a five-sided open box-like structure comprising a base wall having a pair of flat portions, two substantially parallel end walls substantially perpendicular to said base wall, two side walls substantially perpendicular to said end walls, said side walls extending between said end walls and curving outwardly from said base wall to conform to the cylindrical contour of the said spools, and at least one interior wall extending inwardly from said base wall centrally between and parallel to said side walls, each interior wall forming a spool separator having two faces, each face thereof being curved to conform to the contours of the spools in correspondence to the opposing face of the side walls, said spool separators dividing the interior of the container part into at least two parallel substantially semi-cylindrical spool-receiving compartments each receiving a plurality of the axially aligned spools, one of said container parts forming the bottom half of the shipping container in which the lower halves of the rows of heavy spools are received and the second of said container parts forming the top half of said shipping container in which the upper halves of said rows of spools are received, said spool-receiving compartments securely maintaining each row of spools in axial alignment and said spools maintaining the two container parts in vertical alignment, said container parts being securely fastened together about said heavy spools by said container fastenings to form a shipping package having a liner of fibrous pulp material protecting and cushioning said spools.

2,715,459

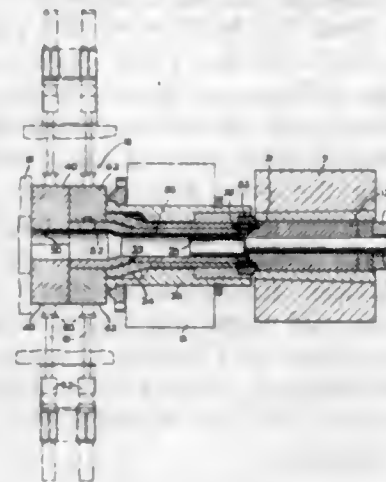
## DIE LOCKING ARRANGEMENT FOR EXTRUSION PRESSES

Gerhard P. Krause, Harrison, N. Y., assignor to Loewy Construction Company, Inc., New York, N. Y., a corporation of Delaware

Application January 2, 1953, Serial No. 329,371  
6 Claims. (Cl. 207-3)

1. In an extrusion press for extruding multi-shaped articles, said press having a container for the heated metal to be extruded, die mechanism coacting with the discharge end of the container, a plunger for forcing the metal out

the container and through the die mechanism, a support member and locking means interposed between the support member and the die mechanism for locking the die mechanism in operating position, the improvement which consists in said die mechanism comprising a plurality of dies of different outer contour, said locking means comprising a plurality of pairs of plates selectively movable to effective and ineffective positions toward and away from the extrusion axis, said plurality of pairs of plates



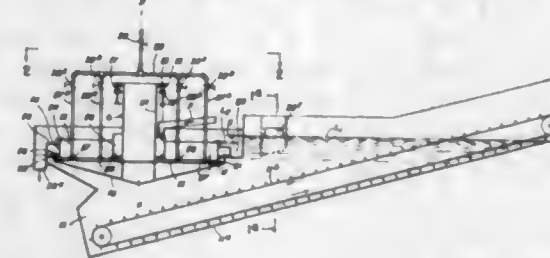
at all times filling the space between the support member and the die mechanism regardless of which pair of plates is in effective position whereby the full force of the press may be applied to the die which is in effective position and the pairs of plates may be rapidly moved to effective and ineffective positions, each pair when in effective position confining an opening therethrough, the openings of the respective pairs of plates varying corresponding to the contours of the extruded metal and the respective dies.

2,715,460

## HYDRAULIC CLASSIFICATION APPARATUS

George M. Darby, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application August 7, 1953, Serial No. 372,919  
6 Claims. (Cl. 209-18)



1. Apparatus for the hydraulic classification treatment of a pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of sands, defined as undersize and oversize particles respectively, which apparatus comprises a receptacle for holding a classifying pool with said mixture being continuously supplied thereto, and with undersize particles discharging from the top and oversize particles discharging from the bottom of the pool, said receptacle comprising a horizontally movable bottom structure, actuating means for imparting horizontal motion to said bottom structure with repetitive reversal of the direction of said motion such as will produce relative motion between said bottom and oversize particles supported therein; controllable water supply conduit and distributing means extending from above into said pool and having water emitting lower terminal portions in the bottom zone of said pool and in spaced relationship with said bottom, for distributively emitting hydraulic auxiliary water at a controlled rate towards said bottom, said lower terminal portions being provided with orifices for emitting water jets in a downwardly sloping

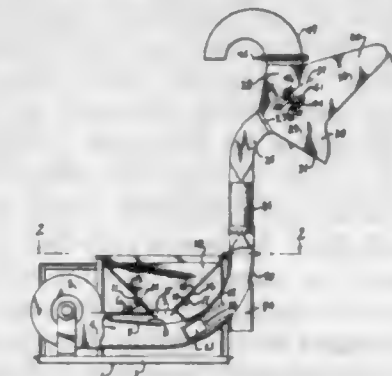
direction towards said bottom and in a manner whereby the water in effect rises in substantially uniform distribution from the bottom, and whereby in turn there are formed and maintained in said pool substantially a sands zone of oversize particles at the bottom, a fines zone of undersize particles at the top, and an intermediate zone containing a mixture of undersize and oversize particles in a teeter condition, there being provided an overflow weir for overflow discharge of undersize particles from said top zone of the pool, and adjustable means for controlling the rate of underflow discharge of sands from said bottom zone and for controlling the cut between the undersize and the oversize, so that by the concurrent action of the horizontal motion of the bottom surface and of the rising flow of the hydraulic water there are producible overflow and underflow size fractions each substantially free from stray particle sizes of the other.

2,715,461

## AIR FLOW ELEVATOR

Leon K. Mautsby, San Antonio, Tex.

Application January 2, 1953, Serial No. 329,419  
7 Claims. (Cl. 209-139)



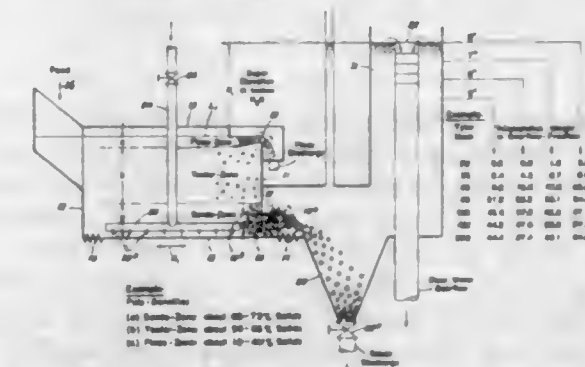
1. In an elevator employing air as the transporting medium, the combination of, a blower having an air intake and a discharge, a duct connected to said discharge and projected upwardly, a laterally projecting hood connected to the upper end of said duct and having an upwardly directed outlet and a downwardly directed outlet, said hood beyond said outlets converging opposite said connection to form a back pressure controlling extension having a pressure relief vent therein and a feed bin from which material is discharged into said duct.

2,715,462

## HYDRAULIC CLASSIFIER

Harold B. Coulter, Larchmont, N. Y., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application December 9, 1953, Serial No. 397,205  
12 Claims. (Cl. 209-159)



1. Apparatus for the hydraulic classification treatment of a pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of sands, defined as undersize and oversize particles respectively, which apparatus comprises a longitudinal classifying pool having said mixture supplied thereto in a portion thereof



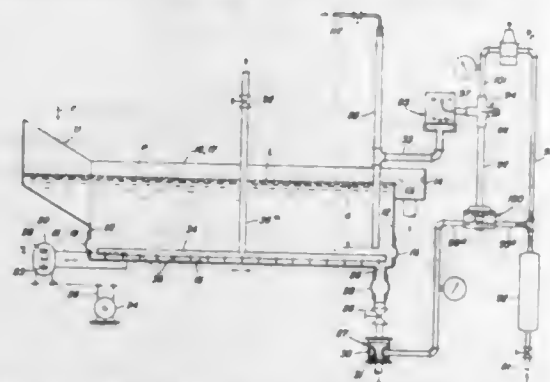
and said fractions discharged from another portion thereof, said pool proper being confined within a space defined by a horizontal bottom face, a pair of side wall faces, and a transverse face at each end endwise defining the classifier pool, there being a horizontal bottom which presents said bottom face to the pool supporting structure for providing horizontal back-and-forth movement of said bottom, a pair of side wall portion unitary with said bottom to provide said side wall faces, a stationary wall portion at each end to provide said end faces of the classifying pool, and sealing means effective with respect to each end wall portion and the associated ends of the bottom and side wall portions for confining the pulp undergoing classification between said stationary end wall portions, actuating means for imparting horizontal motion to said bottom structure such as will produce relative motion between said bottom and oversize particles thereon, controllable water supply conduit and distributing means for emitting hydraulic auxiliary water at a controlled rate distributively in a manner whereby the water in effect rises in substantially uniform distribution from the bottom, and whereby in turn there are formed and maintained in said pool horizontal classification zones comprising substantially a sands zone of oversize particles at the bottom, a fines zone of undersize particles at the top, and an intermediate zone containing a mixture of undersize and oversize particles in teeter condition, there being provided an overflow weir for overflow discharge of undersize particles from said top zone of the pool, and an underflow discharge passage at the bottom, and adjustable means for controlling the rate of underflow discharge and thus for controlling the cut between the undersize and the oversize, so that by the concurrent action of the horizontal motion of the bottom face and of the rising flow of the hydraulic water there are producible overflow and underflow size fractions each substantially free from stray particle sizes of the other.

2,715,463

## HYDRAULIC CLASSIFIER

Elliot B. Fitch, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application December 9, 1953, Serial No. 397,207  
5 Claims. (Cl. 209—159)



1. Apparatus for the hydraulic classification treatment of a pulp containing a mixture of particle sizes ranging from fine to coarse, to effect the separation of the mixture into a fraction of fines and a fraction of sands, such fractions being defined as undersize and oversize particles respectively, which apparatus comprises a classifying pool having said mixture supplied thereto in a portion thereof and said fractions discharged from another portion thereof, said pool being confined within a tank structure comprising a horizontal bottom element adapted to be moved in the horizontal plane, with driving means provided and operatively associated with said bottom element for continuously reversing the direction of movement in that plane, and with water supply means provided for emitting at the bottom hydraulic auxiliary water at a controllable rate distributively in a manner whereby

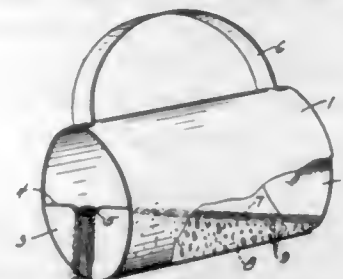
the water in effect rises in substantially uniform distribution from the bottom and whereby there are adapted to be formed and maintained in said pool horizontal classification zones comprising substantially a coarse sands zone of oversize particles at the bottom, a fines zone of undersize particles at the top, and an intermediate zone containing a mixture of undersize and oversize particles in teeter condition, there being provided an overflow weir for overflow discharge of undersize particles from said top zone of the pool, underflow sands outlet means leading from the bottom of the pool, throttling means so associated with said outlet means as to operate directly under the influence of gravity of the pulp column in the pool above, said throttling means being adapted to vary the through flow area of the outlet means for thereby adjusting the pulp density in the pool, and a control system comprising a density responsive probe device functionally associated with the pool, and automatic relay devices functionally interconnecting said probe device and said throttling means to automatically adjust the throughflow area thereof in a manner to maintain a predetermined pulp density in the pool and thereby a desired size separation as between the overflow and the underflow fractions.

2,715,464

## CULINARY GREASE DECANter

Royal D. Raub, Syracuse, N. Y.

Application September 3, 1952, Serial No. 307,652  
1 Claim. (Cl. 210—51)



A grease decanter of the class described, comprising a receptacle body having a wall completely closing said receptacle body at one end and a barrier wall partially closing said receptacle body at its opposite end, said barrier wall terminating in a linear free edge extended transversely of the receptacle body from side-to-side thereof and defining a dam over which the supernatant grease may be decanted from a greasy liquid when contained in said receptacle body and the receptacle body is tilted towards its partially closed end, said free edge having a centrally located depression therein through which the grease can flow, said depression defining a relatively narrow pouring zone for confining the flow of supernatant grease therethrough to a relatively small stream, the free edge of the barrier wall being provided with an outwardly extended pouring lip along an intermediate portion thereof, and said pouring lip bordering about the depression in said free edge.

2,715,465

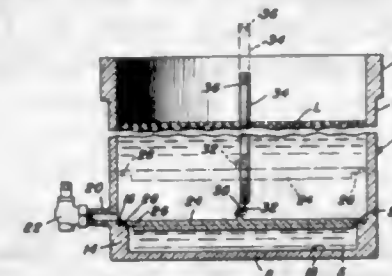
## BEVERAGE BREWING CROCK

Ira E. Wood, New Orleans, La.

Application April 21, 1952, Serial No. 283,300  
2 Claims. (Cl. 210—57)

1. For use in a beverage brewing crock which has an internal ledge at its bottom defining a sediment accumulating trap; an insertable and removable transparent non-corrodible cover for said trap, said cover comprising a disk having an imperforate body portion which is adapted to be fitted into the trap and which has its outer marginal edge decreased in thickness and defining an integral outstanding flange, said flange being provided with circumferentially spaced pressure relieving and liquid clearance apertures, and an elongated handle

hingedly connected at its lower end to the central upper side of said disk, said handle being of a length greater than the depth of the crock with which it is used in order



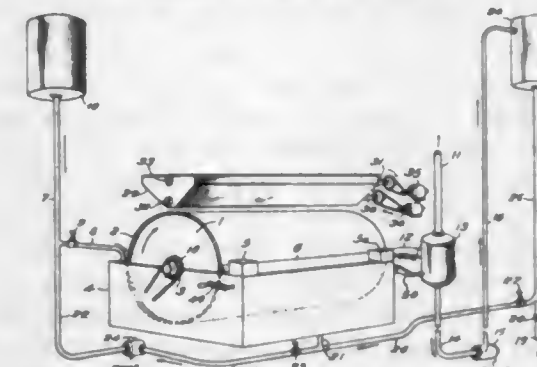
that the stated disk may be lowered through a column of liquid and seated on the ledge, or lifted and removed from the crock with a minimum of disturbed turbulence of the contents of the crock.

2,715,466

## PRECOATING OF ROTARY VACUUM DRUM FILTER

John Esposito, Jr., Camden, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application November 27, 1951, Serial No. 258,480  
3 Claims. (Cl. 210—199)



1. A method of filtering which comprises rotating the drum of a continuous rotary vacuum clarification filter through a body of clarified liquid to wet the lower portion of the drum, depositing dry filter aid on the top of the wet drum as it rotates, while maintaining sufficient vacuum on the interior of the drum to hold the filter aid in position, until a desired thickness of filter aid has been built up on the drum, replacing the body of clarified liquid with a body of unclarified liquid, whereby solids in said unclarified liquid are deposited on said filter aid on said drum and clarified liquid passes therethrough, shaving off a layer of said filter aid from said drum thereby removing filtered solids therefrom, continuing said filtration and said shaving until said layer of filter aid has been substantially completely shaved from said drum, draining the unfiltered portion of unclarified liquid from said filter, and repeating the cycle.

2,715,467

## STORE FIXTURE

Louk, B. Smith, Mount Lebanon Township, Allegheny County, Pa.

Application March 15, 1950, Serial No. 149,843  
4 Claims. (Cl. 211—49)

1. A merchandise holding and dispensing fixture for stores comprising an upright supporting frame providing a face inclined at a slight angle from a vertical plane, a shelf extending across the face of the frame adjacent the bottom thereof, a plurality of spaced runners extending across the face of the frame at different elevations above the bottom, said runners having equally-spaced and aligned vertical notches in the outwardly-facing surfaces thereof, the runners being out of vertical alignment in the plane of the face of the frame by reason

of said inclination, and a plurality of horizontally-spaced sheet metal merchandise stacking guides each comprised of a sheet metal strip folded along its axis to provide two spaced wings terminating in parallel spaced notch-engaging edge portions, the two notch-engaging edge portions of each guide removably engaged in and frictionally retained in two separated notches in each of the runners, each such guide having its notch-engaging portions en-



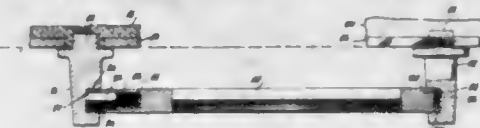
tered in different vertical notches in the respective runners, the guides extending up and down on the face of the frame, said guides providing channels therebetween for holding vertical columns of merchandise stacked end on end between them on the shelf while separating said columns laterally so as to provide access space therebetween, the adjacent channels being separated in the plane of the runners by the distance between the two parallel notch-engaging edge portions of the intervening guide.

2,715,468

## TOWEL FIXTURES

Anton F. Waltz, Port Washington, N. Y.

Application April 25, 1951, Serial No. 222,860  
8 Claims. (Cl. 211—123)



5. A rod device adapted to seat in a pair of spaced, facing sockets, said rod device having compressible means at each end for holding the rod in place, each of said compressible means being concealed when the rod device is inserted in the sockets, and one of said compressible means comprising recessed structure in the corresponding end of the rod, an outwardly spring-pressed plunger in said recess, and collar means transversely dimensioned identically with the rod and adapted to seat substantially wholly within the corresponding socket and having a hole for conformably receiving the plunger, said plunger having side wall structure fitting in the hole of the collar means in perpendicular sidewise engagement with the latter inside said hole, for support of the plunger by the collar means against removal of the rod by sidewise displacement, and said collar means being externally shaped to be pushed directly axially into its aforesaid corresponding socket through the rod-facing opening of said corresponding socket.

2,715,469

## TIERING STATION FOR BULK PACKING CANS

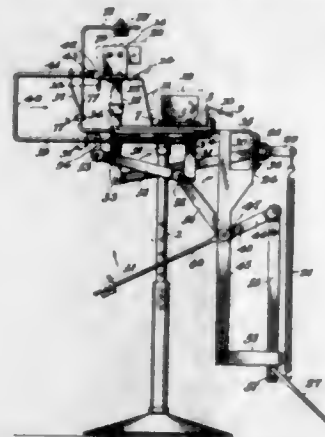
Howard J. Burt, Syosset, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application April 6, 1954, Serial No. 421,243  
7 Claims. (Cl. 214—6)

1. An apparatus for forming groups of cans for transfer to a stack comprising two can runways arranged side by side with the bottom of one runway disposed in a horizontal plane above the cans in the other runway,



means for feeding cans into said runways, stopping devices for each runway for stopping the flow of cans into said runways, said stopping devices being disposed so that the cans in one row are staggered relative to the cans in the other row, a divider for cutting off a pre-

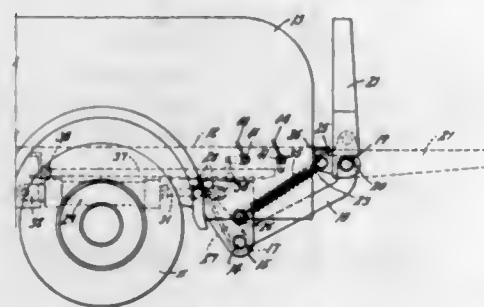


determined number of cans in the upper runway, and means engaging the ends of the cans in the group on the upper runway for simultaneously shifting said group of cut-off cans from its runway onto the cans in the lower runway.

2,715,470

**AUTOMOTIVE WRECK TOW TRUCKS**

Samuel M. Marcus, Charles E. Rinn, and Julian A. Zinghelm, Denver, Colo., assignors to Marcus Motors, Inc., Denver, Colo., a corporation of Colorado  
Application June 2, 1952, Serial No. 291,238  
3 Claims. (Cl. 214-86)



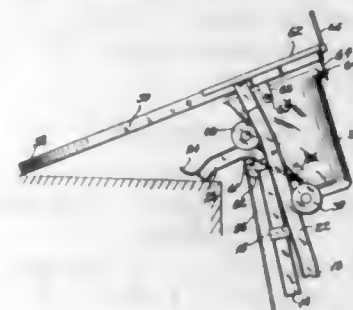
1. An elevatable tail gate for vehicles comprising: a bearing bracket extending downward from said vehicle at each side and adjacent the rear extremity of said vehicle; a rotatable sleeve extending between said brackets; a plurality of lifting arms affixed to and extending rearwardly from said sleeve in alignment with each other; a hinge shaft supported by the rear extremities of said arms; a platform hingedly mounted at its forward extremity upon said hinge shaft; an operating lever affixed to and projecting upwardly from the medial portion of said rotatable sleeve; hydraulic means connected to said operating lever and extending forwardly to a hinged connection with said vehicle for rotating said sleeve; a bracket ear fixedly secured to said platform at each side thereof; a hinge pin mounted in each bracket ear adjacent said hinge shaft, said hinge pins being positioned relative to said hinge shaft so that said pins will be above said hinge shaft when said platform is horizontal, and forwardly of said hinge shaft when said platform is vertical; a telescoping link extending from each hinge pin to one of said bearing brackets in parallel relation to and above said lifting arms; stop means limiting the extension of said telescoping links to a position which will maintain said platform horizontal; tension spring means secured between the extremities of each telescoping link and tending to contract said telescoping links so as to pull said hinge pins forwardly to a position which will support said platform in a substantially vertical position to form a tail gate for said vehicle; a longitudinally immovable, and substantially horizontal, toothed ratchet bar hinged to said vehicle adjacent and above the hinge

point of said hydraulic means and extending rearwardly in parallel relation with the latter, with its toothed portion directed downwardly to engage said operating lever to stop rearward movement of the latter at any desired point; and manually operated means for lifting said ratchet bar out of engagement with said operating lever when desired.

2,715,471

**SKIP ELEVATING AND DUMPING DEVICE**

Asle Seppola, Evansburg, Alberta, Canada  
Application January 11, 1952, Serial No. 266,034  
3 Claims. (Cl. 214-103)

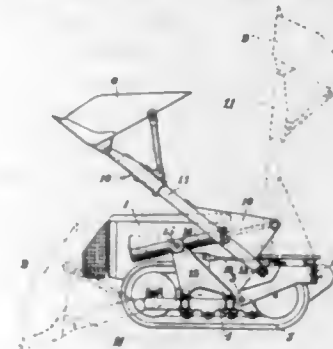


1. A material elevating device comprising in combination a supporting platform, bracing structure associated therewith, a front pair of parallel rails extending upwardly from said platform, a rear pair of parallel rails also extending upwardly from said platform, said rails being pivotally secured along the length thereof to the upper end of said supporting platform and extending at an angle from the vertical, means to vary said angle within limits, a wheeled bucket movable upon said rails, a trestle detachably secured upon the upper side of said bucket, means to elevate and lower said bucket upon said rails, a selectively pivotable extension over-spanning the upper ends of said rear pair of rails, said extension being capable of inclining downwardly in a plane substantially parallel to the upper side of said bucket so that material supported by said trestle may be discharged upon said extension.

2,715,472

**MOBILE SHOVEL LOADER**

Charles L. McEwen, Moncton, New Brunswick, Canada  
Application July 14, 1952, Serial No. 298,858  
3 Claims. (Cl. 214-131)



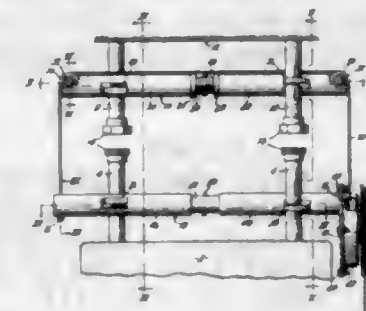
1. A mobile shovel loader of the type having a body frame and track frame on each side of said body frame, and an endless track means on each of said track frames; said body frame being supported near the rear end thereof by pivot means journaled in each track frame and at the front end thereof through spring means disposed between said body frame and the front ends of said track frames; said mobile shovel loader comprising a scoop-carrying U-shaped member adapted to extend around the front end of said body frame and pivotally attached to each side of said body frame at a predetermined distance from the axis of said pivot means, and a double-acting power-applying means disposed on each side of said body frame; each of said power-applying means being disposed between and pivotally attached

to one of said track frames and to one of said arms of said U-shaped member, a restrictor member on each side of said loader connected at one end to one of said track frames, and at the other end connected to said body frame, the point of connection of each said restrictor member to one of said track frames being nearer the front end of said body frame than said pivot means, said restrictor member adapted to act as a stop means when there has occurred a predetermined amount of movement of the track to which it is connected away from the front end of said body frame.

2,715,473

**HOIST AND ADAPTER THEREFOR**

Cecil W. Keck, Carterville, Mo.  
Application March 30, 1953, Serial No. 345,302  
3 Claims. (Cl. 214-658)

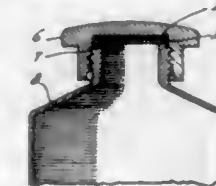


1. A hoist and adapter therefor comprising an upper horizontal beam having end sections axially rotatable relative to each other and freely movable relatively in a direction parallel to the axis of the beam, a hook fixed to each of said end sections and lying in a substantially horizontal plane, said hooks being offset in transversely opposite directions from the axis of said beam and opening in a direction parallel to said axis, a lower horizontal beam substantially coextensive with said upper beam and having end sections axially rotatable relative to each other and freely movable relatively in a direction parallel to the axis of the beam, a hook fixed to each of said lower beam end sections and lying in a substantially horizontal plane, said last named hooks being offset in transversely opposite directions from the axis of said lower beam and opening in a direction parallel to said axis, and adjustably extensible support members extending between and connecting said upper and lower beams, said support members lying substantially in a vertical plane including the axes of said beams.

2,715,474

**CLOSURE LINERS AND METHODS**

Robert M. Phillips, Englewood, N. J., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania  
Application June 9, 1949, Serial No. 98,126  
6 Claims. (Cl. 215-40)

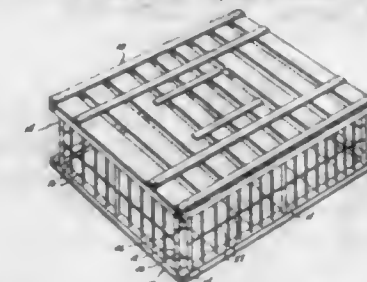


4. A re-seal closure comprising a cap and a wax-absorbent, cushioning cork layer secured therein to which a separable, non-absorbent and fluid impervious facing layer having a heat sealing adhesive on the outer surface thereof is temporarily adhered by an interposed film of wax about .001 inch thick without substantial absorption of the wax in said cork layer, said adhesive being adapted to bond said facing layer to a container orifice to produce an inner seal upon heating and said cork layer being adapted to substantially absorb said wax film upon

2,715,475

**COOP CONSTRUCTION**

Eben G. Donaldson, Jonesboro, Ark.  
Application November 21, 1952, Serial No. 321,861  
1 Claim. (Cl. 217-36)

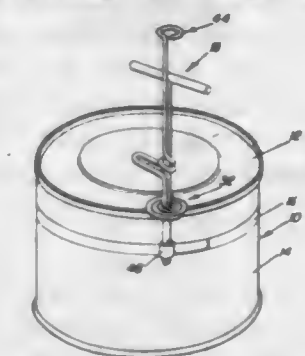


In a coop construction, rectangular top and bottom members, each member having a peripheral rail therearound with the rails arranged in spaced aligned relation, a plurality of spaced dowels secured at opposite ends in the top and bottom rails along each side of the coop and extending between the rails to maintain the rails in their spaced relation, the dowels at each end of each side being of larger diameter to define corner posts, another dowel intermediate the corner posts on each side being of the same diameter as said corner post to impart rigidity to the coop intermediate the corners thereof, a reinforcement comprising a pair of wires extending between the corner posts of each side and passed about the diametrically opposite portions of each dowel, said wires being interconnected by being twisted together in the spaces between succeeding dowels to rigidify the dowels, said wires extending between the corner posts only along each side of the coop, and spaced pairs of wires disposed to opposite sides of said first-mentioned pair of wires and passed about adjacent corner posts at each corner of the coop, and said pairs of wires rigidly interconnected in the space between the corner posts to impart rigidity to the coop at the corners thereof.

2,715,476

**CAN STRIP KEY**

Wylie F. Lusk, New Castle, Pa., assignor of ten per cent to Wylie Henry Lusk, ten per cent to T. Arthur Lusk, and ten per cent to Joseph Solomon, all of New Castle, Pa.  
Application July 10, 1953, Serial No. 367,212  
3 Claims. (Cl. 220-52)



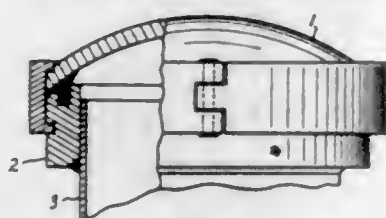
1. A key mechanism for removing the metallic sealing strip from a can, comprising an elongated rod having a notched end portion for receiving the end of a metallic sealing strip, said rod having its opposite end formed with a handle for imparting rotary motion to the rod whereby a sealing strip may be wound thereon, and means slidably carried by said rod for ejecting a coil of wound sealing strip from said end portion of the rod, said means comprising a length of wire having an end spirally wound



upon said rod adjacent the notched end portion thereof, said wire also having a portion extending in juxtaposed parallel relation to said rod and projecting beyond the handle thereof whereby the wire may be finger manipulated slidably along the rod.

### 2,715,477 CLOSURES

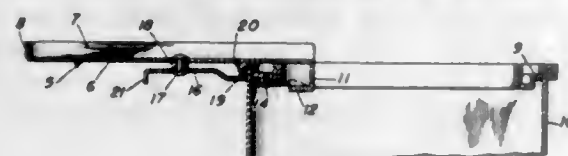
Henry W. North, Erie, Pa., assignor to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania  
Application May 18, 1953, Serial No. 355,428  
2 Claims. (Cl. 220—55)



1. In a pressure vessel having a cover, a split locking ring having a plurality of hinged sections, said sections being of channel cross-section with the flanges extending inward, said vessel having a groove receiving one of the channel flanges and the other channel flange overlapping the cover in the locking position of the ring, means connecting the adjacent ends of the ring for bringing the ends together to clamp the ring about the cover and for spreading the ends apart to release the ring, and cam means cooperating with each end of the ring sections to cam the sections of the ring outward clear of the cover and groove as the adjacent ends of the ring are spread apart to release the ring.

### 2,715,478

PAINT BRUSH HOLDER AND WIPER  
Ralph Andersen, Chicago, Ill.  
Application August 17, 1954, Serial No. 450,432  
3 Claims. (Cl. 220—90)



3. A holder for mounting on paint cans of the type comprising a top including a bead and an annular channel, said holder including a pan comprising a bottom engageable on the top, an apron depending from the bottom into the can, a reversely bent lip on the apron engageable beneath the annular channel, anchoring clips on the lip engageable behind the annular channel, and means co-operable with the lip and the clips for securing the pan in position on the can top, said means comprising a lever cam pivotally mounted beneath the pan for swinging movement in parallelism with the horizontal plane of said bottom thereof and engageable with the paint can beneath the bead thereof.

### 2,715,479

COLLAPSIBLE TUBE CLOSURE STRUCTURE  
Duane C. Maddux, Burbank, Calif.  
Application June 23, 1954, Serial No. 438,803  
5 Claims. (Cl. 222—92)

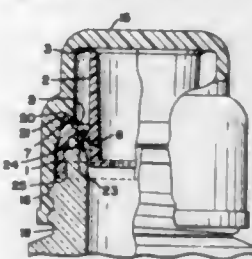


1. The combination with a flexible walled container for a soft extrudible material and having an opening between

end walls thereof, of a closure means therefor comprising a structure having portions clamped on the container end walls at said opening and carrying a pair of opposite jaws having inner surfaces which are flat and parallel and in contact with each side of the container over a predetermined area located immediately adjacent the end edge of said opening, means resiliently supporting said jaws from said structure to press the inner surfaces of the gripped container walls evenly together over said entire predetermined area in advance of said opening with a thin film of material intervening between them throughout said area and forming the seal for the material within the tube, said jaws being out of contact with the adjacent clamped portions of said structure and yieldingly separating on a predetermined increase in pressure on the material in the tube to permit expansion of said opening and extrusion of material therethrough under said pressure and automatically reclosing said opening and reforming said sealing film between said jaw pressed surfaces in said predetermined area upon cessation of said opening pressure.

### 2,715,480

CONTAINER ADAPTER PROVIDED WITH POURING SPOUT, DRIP RETURN, AND CAP  
Jay G. Livingstone, Akron, Ohio  
Application March 9, 1953, Serial No. 341,208  
6 Claims. (Cl. 222—111)



1. An adapter of flexible plastic for a container, the adapter being provided with a spout for pouring liquid therethrough, a wall around the spout, a channel between said wall and the spout for the collection of liquid dripping from the spout and liquid running down the outer wall of the spout, and a slit in the channel dividing at least a part of the channel into one part that adheres to the spout and another part that adheres to the wall, whereby when the spout is depressed with respect to said wall the slit is opened and liquid in the channel drains there-through.

### 2,715,481

DISPENSING DEVICE FOR CONTAINERS HOLDING PRODUCTS UNDER PRESSURE  
Russell Park McGhie, New York, and Frederick William Schneider, Woodhaven, N. Y., assignors to Colgate-Palmolive Company, Jersey City, N. J., a corporation of Delaware  
Application January 18, 1951, Serial No. 206,574  
8 Claims. (Cl. 222—153)

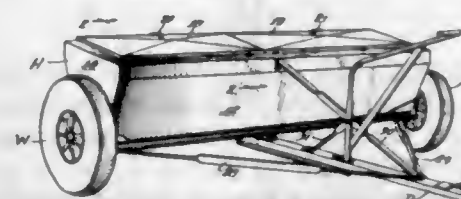


1. A dispensing device comprising a container, a dispensing valve having a reciprocating member for controlling the opening and closing of the valve, said member having a discharge passage therethrough, an operating element mounted on said member, said operating element being provided with a shoulder and a dispensing passage communicating with said discharge passage in said reciprocating member, and locking means comprising a cap mounted on said device, said operating element and

said cap being relatively movable and said cap being adapted in one position relative to said operating element to prevent movement thereof and in another relative position to permit such movement, said cap being furnished with a side wall and an end wall provided with a slotted aperture of sufficient size to permit passage of said operating element.

### 2,715,482

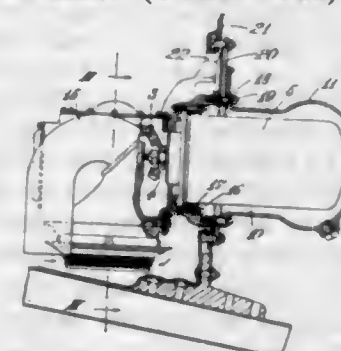
FERTILIZER SPREADERS AND THE LIKE  
Edmond A. Juzwiak, Chicago, Ill., assignor to Ayco Manufacturing Corporation, New York, N. Y., a corporation of Delaware  
Application July 23, 1953, Serial No. 369,904  
4 Claims. (Cl. 222—177)



1. In a fertilizer spreader having an elongated hopper with longitudinally spaced discharge openings in a curved bottom plate, said openings being elongated transversely of the hopper and adjustably closed and opened by a longitudinally movable, underlying shutter plate, an armature comprising: a shaft extending in and along the hopper adjacent and below the center of curvature of the bottom plate; means to impart rotation to said shaft; and fertilizer laterally deflecting and discharge discs, each in register with a discharge opening, said discs being secured to and longitudinally spaced successively along the shaft, each disc comprising an inner, substantially flat, centrally apertured plate of circular shape, the maximum radius of which is such as to barely miss contact with the shutter plate, a series of similarly flat, peripherally distributed fertilizer discharge teeth integral with the inner plate, extending outward to the maximum diameter of the disc, adapted on said rotation to enter into the respective discharge openings between the side edges thereof, and a series of peripherally located and distributed fertilizer agitator vanes on said flat plate, arranged so that adjacent vanes are skewed in opposite senses and at obtuse angles with the leading part of said plate referring to the direction of said rotation, whereby said vanes on said rotation tend directly to deflect fertilizer from the respective openings, said openings being adapted to be indirectly charged with fertilizer by said rotation of adjacent discs.

### 2,715,483

ELECTRIC-MOTOR DRIVEN PUMPS  
George Charles Meredew and George Clement Stevens, London, England, assignors to Bernard Bercovitz, Leaside, Ontario, Canada  
Application October 2, 1951, Serial No. 249,249  
Claims priority, application Great Britain February 26, 1951  
3 Claims. (Cl. 222—181)

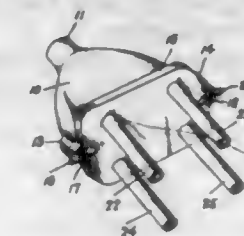


1. A liquid-fuel supply system including a fuel tank having an opening in one of its side walls, an apertured

cover-plate secured to the outside of the tank around the opening, a pump and a motor therefor secured together and both removably supported on the inside of the cover-plate so that whilst the pump normally lies inside the tank and the motor protrudes therefrom through the aperture in the cover-plate they may be removed as a unit through the opening, driving means between the motor and pump, a jacket removably secured to the outside of the cover-plate and disposed about said motor in spaced relation thereto, a fuel passage from the pump discharge to the space between the motor and the jacket and a fuel outlet from the jacket.

### 2,715,484

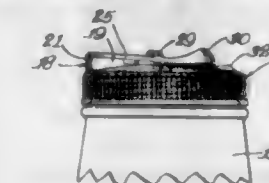
ICE CREAM PACKING NOZZLE  
George G. Alexander, Savannah, Tenn.  
Application January 25, 1952, Serial No. 268,273  
3 Claims. (Cl. 222—478)



1. A distributing head for ice cream dispensing apparatus comprising a hollow housing having an open end and a closed end provided on its closed end with an apertured boss adapted to receive one end of a hose leading from an associated dispensing pump, a closure plate secured to said housing in covering relationship to the open end of the latter and having spaced apart apertures therein, and tubular nozzles secured one in each of said apertures each at one end thereof and projecting from the side of said closure plate remote from said housing, said closure plate being of substantially rectangular shape and said apertures being disposed one adjacent each corner thereof and said housing having internal ribs therein extending perpendicularly from said closure plate to locations spaced from the proximal end of said apertured boss one at each side of said housing and substantially at the mid-length location of said closure plate.

### 2,715,485

DISPENSING CAP  
Rudolph Bernhardt, Evanston, Ill.  
Application February 9, 1950, Serial No. 143,294  
3 Claims. (Cl. 222—498)



1. A dispensing cap comprising, a body element having on the exterior thereof a longitudinally extending slide receiving surface provided with a dispensing opening therein and an elongated slot, a resilient slide member on said surface completely covering said slot, retaining means on said slide member extending through said slot and engaging an interior surface of the body element on opposite sides of said slot for retaining said slide on said slide receiving surface, said resilient slide member being longitudinally slidable on said slide receiving surface between an open position wherein said dispensing opening is unobstructed by said slide and a closed position wherein a first end portion of said slide covers said opening and a portion of said slide receiving surface adjacent the opposite end of said slide is exposed, a depending skirt on said opposite end of said slide, said skirt being inter-



posed between said slide and said slide receiving surface when said slide is in said closed position for flexing said last-mentioned end of said slide upwardly to increase the friction between said first end portion of said slide and said slide receiving surface in the vicinity of said dispensing opening and between said retaining means and said interior surface to hold said slide in closed position, and an upstanding rib on said exposed portion of said slide receiving surface in the path of and traversed by said skirt during movement of said slide, said depending skirt cooperating with and being moved entirely across said rib from one side thereof to the other in a snapping action during movement of said slide between said open and closed positions.

2,715,486

# FAST-THREADING NEEDLE WITH TRAILING FLEXIBLE LINK

Leon Marcoff-Moghadam and George N. Fedoroff,  
Washington, D. C.

Application November 18, 1954, Serial No. 469,696  
3 Claims. (Cl. 223-102)



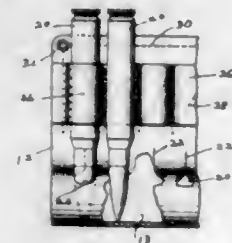
3. An improved sewing needle comprising, in combination, a needle having an eyelet, a thin resilient member attached to said needle, said member comprising an intermediate elongated loop, the strands of the loop being twisted together at the end portions thereof, one of said twisted end portions maintaining one end of said loop in engagement with the eyelet of said needle to prevent misalignment of said needle and said loop, the other twisted end portion providing means to clamp a thread disposed within the twists of the end portion.

2,715,487

# CARTRIDGE HOLDER

George L. Christensen, Tremonton, Utah  
Application April 13, 1953, Serial No. 348,380

2 Claims. (Cl. 224-23)



1. A cartridge holder for attachment to a belt comprising an elongated back panel and an elongated front panel, said panels being formed from flexible material and being coextensive in length and width, said panels having integral bottom edges and adjoining top edges, means securing the top edges together so that the panels have confronting spaced inner faces, the upper portions of said faces forming a belt receiving passage and the lower portions forming a pocket, said front panel having an outer face, a plurality of open ended cartridge retainers provided on the outer face and arranged transversely thereof so as to extend perpendicularly of the pocket, said front panel having a series of apertures formed therein and communicating with the pocket, said apertures being aligned with the retainers so as to receive the nose ends of cartridges sleeved into the retainers and means connected with the apertures for releasably frictionally gripping the nose ends.

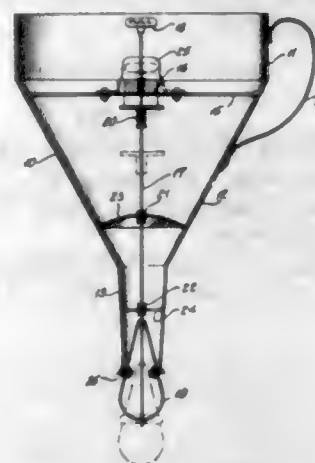
2,715,488

# SELF-SEALING FUNNEL

Charles Stephen Conlon, Portsmouth, N. H.  
Application June 30, 1952, Serial No. 296,531

1 Claim. (Cl. 226-32)

(Granted under Title 35, U. S. Code (1952), sec. 266)



In combination with a funnel having a cylindrical top part, a conical middle part and a conical spout, a handle connected to the top and middle parts of the funnel, a nonmagnetic support member joined to diametrically opposite portions of said conical middle part slightly below the junction of said top and middle parts, a bipolar permanent magnet mounted centrally on the support member, the poles of said magnet extending toward the funnel spout, said magnet having a central bore, a strainer mounted near the lower end of the conical middle part and having a bearing mounted centrally thereof, a second support member mounted in the spout and having a second bearing mounted centrally thereof, the said two bearings and the bore of the magnet being axially aligned, a rod of greater length than the funnel reciprocally mounted in said bearings and bore, a tear-shaped float mounted on the lower end of said rod extending beyond the spout, said float having a neoprene washer mounted centrally thereof and being of larger diameter than said spout, a manually engageable knob having indicating markings mounted on the upper end of said rod, a nonmagnetic shield means mounted on said first support and about said magnet, said nonmagnetic shield means having two vertical leaves, the knob atop said rod adapted to assume a lowered position between said leaves in which position the knob is retracted from view, an adjustable magnetic armature fixedly mounted on said rod for cooperation with the permanent magnet, the rod being in its lowered position when the funnel is positioned in a tank opening for aiding in filling the tank, said rod adapted to rise when the tank liquid rises above the level of the float and continues to do so until the said armature comes into quick positive engagement with the magnet whereby the funnel spout is sealed by the neoprene washer and the indicator atop the rod rises into full view indicating a full tank.

2,715,489

# TUBE FILLING MACHINE

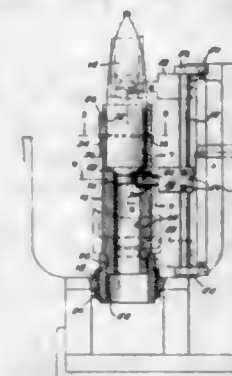
Walter S. Kazmierczak, Detroit, and Leo P. Gajda, Dearborn, Mich., assignors to Arthur Colton Company, Division of Snyder Tool and Engineering Company, Detroit, Mich., a corporation of Michigan

Application November 10, 1951, Serial No. 255,858

10 Claims. (Cl. 226-74)

1. A cap tightener apparatus for collapsible tubes which are filled at an open end opposite the cap and sealed at that end after the walls are closed to a diametrical junction, said apparatus comprising a tube holder having an opening to receive the capped end of a tube, a shoulder at the lower end of said opening to support the tube, said holder having also an opening formed below said shoulder to receive a cap on a threaded neck

of said tube joining with a side opening formed in said tube holder positioned to expose a side of a cap on a tube within said holder, the tube receiving opening of said holder having an out-of-round shape which is occupied by the tube subsequent to the time that the open



end is closed, means for passing said tube from one station to another, and stationary means positioned to contact and rub against a cap on a tube in said holder through the opening in the side wall of the holder to tighten the cap as the tube holder progresses in the apparatus and moves past said stationary means.

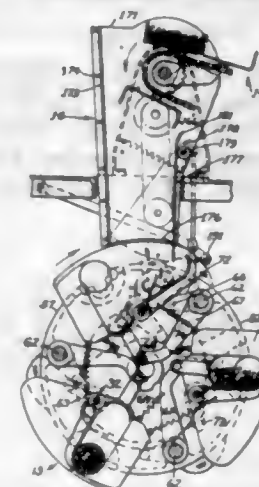
2,715,490

# FILLING MACHINE

Eben H. Carruthers, Warrenton, Oreg.

Application December 12, 1951, Serial No. 261,269

25 Claims. (Cl. 226-101)



1. A machine for packing materials in a container comprising, in combination, a rotary pocket carrying member, means for rotating said pocket carrying member, a material receiving pocket carried by said member, said pocket comprising a pair of side plates and at least two elements movable between said side plates from an extended position in which the pocket is of maximum capacity to a contracted position in which the pocket is approximately of the diameter of the container in which the material is to be packed, and means for moving said elements.

2,715,491

# GREASE DISPENSER

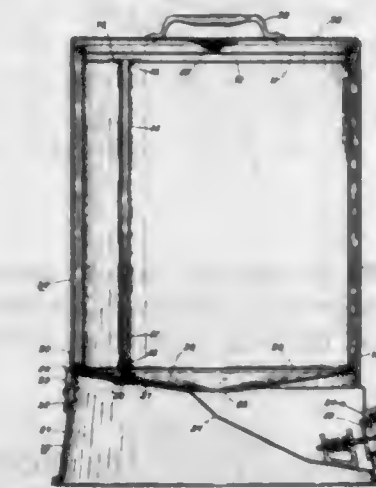
Edwin P. Sundholm, Albert City, Iowa, assignor to Our Savior's Evangelical Lutheran Church, Albert City, Iowa, a corporation of Iowa

Application February 18, 1952, Serial No. 272,156

7 Claims. (Cl. 226-109)

1. A fluid-dispenser including an original vendible merchandising fluid container and a container-support, said fluid container being open only at one end thereof, an air-vent consisting of a duct extending vertically in said container to the open end portion of said container, said container-support having a dished upper surface adapted to be held in spaced relation to a supporting surface by a peripheral skirt, a conduit interconnecting an aperture in said dished surface and a grease-gun socket

operatively secured to said skirt, a sealing-gasket secured to said container support at the outer periphery of said dished surface and constructed and arranged sealingly to engage the open end of said container, a vent-pipe secured



to said container-support and constructed and arranged telescopically to engage the portion of said air-vent adjacent the open end portion of said container when the open end of said container is sealingly secured to said gasket.

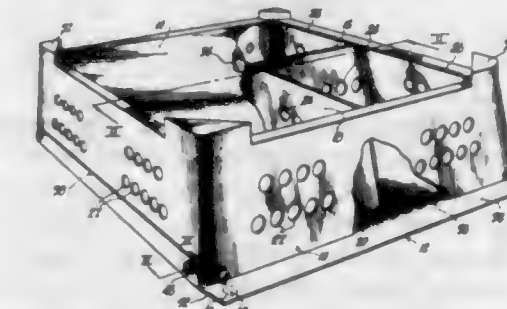
2,715,492

# SHIPPING BOX FOR BABY CHICKS

Ralph S. Zebarth, Hickman Mills, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri

Application September 4, 1951, Serial No. 244,900

3 Claims. (Cl. 229-23)



1. In a permanent shipping box for baby chicks, a plurality of rigidly interconnected side walls; a number of partitions integral with the side walls, presenting a plurality of compartments in the box; a separate, disposable bottom; means fastening the bottom to the side walls; a continuous intumed flange on the side walls in overlying engagement with all of the partitions for discouraging the chicks from jumping out of the box, defining an access opening in the box; a flexible lid separate from all the partitions and the box and resting on all of the partitions when disposed in the access opening to close the same; and means on the lid underlying the flange for holding the lid against the partitions and confined within the opening whereby said flange additionally holds the lid against lateral displacement, said lid being coplanar with the flange when the lid is in the access opening.

2,715,493

# CHAINED ENWRAPMENTS

Clarence W. Vogt, Norwalk, Conn.

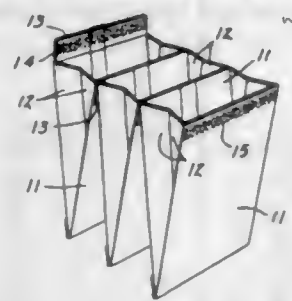
Application December 23, 1948, Serial No. 66,990

6 Claims. (Cl. 229-69)

4. In combination, a plurality of bags each having sides, closed bottoms and open tops and being of substantially equal height and width, said bags being disposed in registry with their bottoms in general horizontal alignment, and having also their open tops in general horizontal alignment, closure means on one side of each bag reversely folded to present an attaching surface adapted to lie



against the adjacent side of an adjacent bag, and detachable adhesive bonds connecting the attaching surfaces to



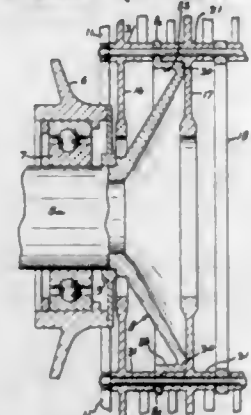
the adjacent sides of adjacent bags to secure said bags in contiguous relationship, said bonds serving to facilitate the supporting and opening of the bags during filling.

2,715,494

**ROTOR FOR AXIAL FLOW AIR COMPRESSOR**

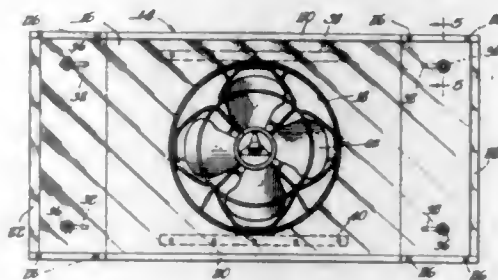
Walter A. Ledwith, Glastonbury, Conn., assignor to the United States of America as represented by the Secretary of the Air Force

Application November 28, 1949, Serial No. 129,831  
1 Claim. (Cl. 230-134)



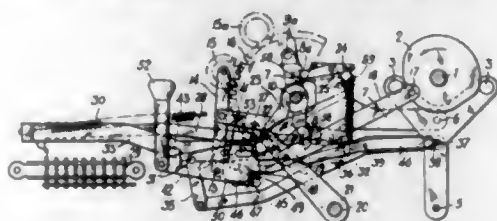
In an axial flow air compressor, a compressor rotor assembly comprising a series of parallel axially spaced rotor wheels, each wheel comprising a central disk-shaped portion open in the center and having a cylindrical axially extending flange portion projecting from each side and secured to the periphery of said disk-shaped portion, and extending toward cylindrical flange portions on adjacent rotor wheels, each cylindrical flange being provided with uniformly and circumferentially spaced axially extending draw bolt receiving bores, a pair of end bells adjacent opposite ends of the rotor, each end bell having a frusto-conical portion with said portions integrally connected at their apical ends to axially extending shaft portions projecting away from each other at opposite ends of the rotor, each end bell including an axially extending annular flange at the base of the frusto-conical portion extending away from said base end toward the apical end in overlapping relation with one of said cylindrical flange portions of the adjacent rotor wheel, the base of said conical portions abutting against the disk-shaped portions of said adjacent rotor wheels, each end bell further including an annular outwardly extending radial flange integrally connected to said axially extending flange at the edge remote from the frusto-conical base of the end bell, the annular radial flange of one bell being located between confronting cylindrical flanges of two adjacent rotor wheels at one end of the rotor, and the annular radial flange of the other bell disposed between confronting cylindrical flanges of the two adjacent rotor wheels at the opposite end of the rotor, each annular radial flange including axially extending uniformly and circumferentially disposed draw bolt receiving bores, draw bolts extending through the bores in the cylindrical flanges in the rotor wheels and the annular radial flanges of the two end bells, means on the opposite ends of the draw bolts to fasten said cylindrical flanges tightly together to keep the assembly of said compressor rotor as a rigid structure.

2,715,495  
**WINDOW FAN ARRANGEMENT**  
Ford SeBastian, Elmhurst, Ill., assignor, by mesne assignments, to The Silex Company, Hartford, Conn., a corporation of Connecticut  
Application May 27, 1950, Serial No. 164,638  
12 Claims. (Cl. 230-259)



1. A window ventilator comprising a substantially transparent shield having an aperture therein, a fan structure including a propeller guard, a fan motor secured to said guard, and a propeller carried within said guard and rotatable by said motor, said fan structure being positioned substantially in line with said aperture, means on and supported by said transparent shield providing rotary bearing means, and cooperating rotary bearing means on said fan structure for pivotally mounting said fan structure at a predetermined distance from said shield, said fan structure being pivotal about said pivotal mounting means to direct an air stream in any of a plurality of predetermined directions.

2,715,496  
**TOTALIZER CONTROL MECHANISM**  
Gustaf Hilarius Hellgren, Enskede, Sweden  
Application February 15, 1952, Serial No. 271,823  
Claims priority, application Sweden February 19, 1951  
3 Claims. (Cl. 235-60.31)



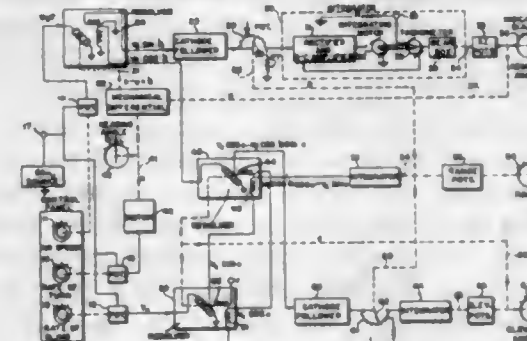
2. In a calculating machine of the type including at least one totalizer and having, in each digital order, setting means provided with stop members adapted to be selectively set in accordance with a numerical value to be entered in the totalizer, a differential member, and actuator means; a movable support for the differential members, driving mechanism, and coupling means between said driving mechanism and said movable support to displace the same from normal inoperative position into position for cooperation of the differential members with said stop members of the setting means on operation of said driving mechanism to enter a numeral value in the totalizer; in combination a manually operable total key adapted when depressed to initiate first an idle machine cycle and thereafter a second machine cycle for extracting an amount accumulated in the totalizer, a first rocking control member operated by the total key, a second rocking control member operated from the driving mechanism of the machine through disconnectable means, a supporting portion on said second rocking control member for a reciprocable shifting member adapted for rocking motion in one of two significant end positions determined by the position of the second rocking control member, said shifting member being adapted when reciprocated in one position to operate the shifting of the totalizer into and out of engagement with the actuator means for cooperation therewith during the second part of the machine cycle for an ordinary computing operation and when reciprocated in the other position to op-

erate the shifting of the totalizer into and out of engagement with the actuator means for cooperation therewith during the first part of the machine cycle for an amount extracting operation, retaining pawls adapted for cooperation with said actuator means, means actuated by said first rocking control member on operation thereof to render said coupling means inoperative, thereby to maintain the movable support in a position in which said differential members are spaced out of cooperating range with the stop members in said setting means, said first rocking control member being adapted, when operated by the total key, to move said disconnectable means in a position ready for engagement with the driving means at the end of the first idle machine cycle to actuate the second rocking control member to a position in which the shifting member is held in the position for shifting the totalizer into and out of engagement with the actuator means for cooperation therewith during the first part of the second machine cycle, actuating means for releasing said pawls, and cooperating means operably connected with the first rocking control member and with the shifting member for operating said actuating means to release said pawls from engagement with the actuator means during the second machine stroke.

2,715,497  
**ELECTRIC INTEGRATING COMPUTER FOR RADAR TRAINER**

Marcel E. Droz and Raymond L. Garman, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application December 13, 1945, Serial No. 634,845  
7 Claims. (Cl. 235-61.5)



1. An electrical computer for the continuous solution in a polar coordinate reference system of the instantaneous position of a moving object in space from its horizontal and vertical velocity components, comprising a source of alternating current, means for deriving potentials from said source proportional to said velocity components, means for resolving said potentials into voltage components in said polar coordinate system, means for deriving from said resolved voltage components resultant voltages representing angular and radial velocity components in said polar coordinate system, means for integrating said resultant voltages to obtain outputs proportional to change of positional polar coordinates of said object, and means to adjust the outputs of said resolving means continuously in response to the instantaneous value of said positional polar coordinates to correct said resultant potentials for the changing position of said moving objects.

2,715,498  
**LOCKING MEANS FOR CASH REGISTERS**  
Karl Heinrich Tenoort and Franz Otto Wendel, Berlin-Neukolln, Germany, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application February 13, 1953, Serial No. 336,852  
Claims priority, application Great Britain June 10, 1952  
9 Claims. (Cl. 235-130)

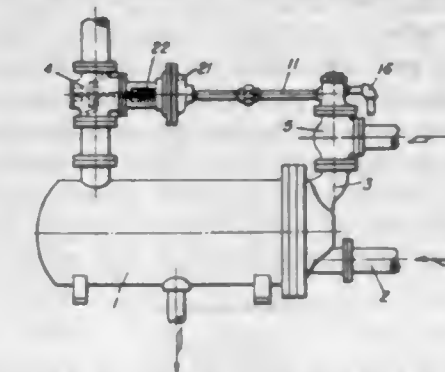
1. In a machine of the class described, the combination of a main operating shaft, means to normally lock

the main operating shaft against operation, a first plurality of manipulative devices to actuate the means to thereby unlock the main shaft, latching means normally disengaged from the locking means and movable to engage the locking means to lock the locking means against actuation by the first plurality of manipulative devices to prevent operation of the machine, a second plurality of manipulative devices, slides operatively connected to the latching means and moved out of normal position



into moved position by certain of the second plurality of manipulative devices to move the latching means into engagement with the locking means, and a member to flexibly maintain the slides in moved positions, said slides actuated by certain other of the second plurality of manipulative devices to restore the slides out of moved positions to normal positions, to restore the latching means to normal positions.

2,715,499  
**HOT WATER CONTROL SYSTEM**  
Roy C. Earley, Danvers, Mass., assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass.  
Application July 27, 1951, Serial No. 238,793  
2 Claims. (Cl. 236-25)



1. In a hot water control system comprising in combination, a heater, a steam supply line to the heater, a steam supply valve in said line, motive means for operating said valve, a cold water inlet to the heater, a hot water delivery outlet from the heater, a casing through which the hot water flows, a flow operated member in said casing, a control chamber mounted on said casing, said control chamber having an upper and lower compartments, a control valve interposed between said compartments, said control valve being operatively connected with said flow operated member, ports leading from the casing to the lower compartment, an atmospheric exhaust connection from the upper compartment, said control valve having a neutral position in which it is not effective and two relatively effective positions in which water pressure from the said casing is conveyed to the steam valve motive means to cause said valve to increase the supply of steam to the heater on an increase in hot water flow acting on said flow member, and to exhaust fluid pressure to cause steam valve motive means to operate said valve to reduce steam supply to the heater on a reduction in the flow of hot water acting on said flow member.

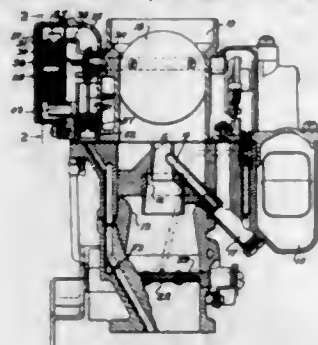


2,715,500

**AUTOMATIC CHOKE CONTROL DEVICE**

Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application April 19, 1950, Serial No. 156,855  
9 Claims. (Cl. 236-101)



7. In an automatic choke control device having a thermostat for regulating the opening of the choke valve, a heat resistant outer cover for the device, a centrally arranged inwardly extending post carried by the cover for mounting said thermostat, a heat storing mass also in said housing and interposed between said thermostat and said cover, said heat storing mass including a body of generally disc form arranged concentrically about said post, a passageway leading into said housing, and means for supplying a flow of heated fluid to said housing.

2,715,501

**DRYING AND GRINDING OF TITANIFEROUS SLAGS**

Ralph J. Magri, Jr., and Guy C. Marcot, Lynchburg, Va., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 25, 1954,  
Serial No. 406,095

6 Claims. (Cl. 241-23)

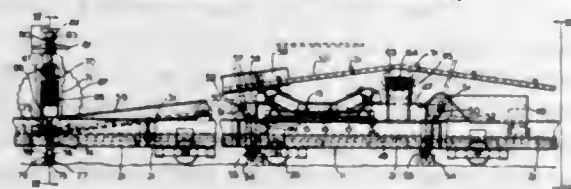
1. A continuous method of preparing wet, coarse titaniferous slag particles for digestion with strong sulfuric acid, said particles having a substantial content of reduced titania and containing more than about 2% of water by weight, which comprises heating said particles to form particles sufficiently dry for grinding and having a temperature in excess of about 150° C., cooling said particles below about 120° C., and grinding said particles to a size such that at least 90% by weight thereof passes through the meshes of a standard 325 mesh screen.

2,715,502

**CONVEYOR CHAIN HOLD DOWN AND CRUSHER AT TRANSFER STATION**

Timothy F. McCarthy, Indiana, Pa., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application October 30, 1953, Serial No. 389,445  
2 Claims. (Cl. 241-200)



1. In a conveyor particularly adapted to convey coal and the like in mines underground, a conveyor pan line, an endless conveying element movable therealong, an inclined transfer pan for elevating said conveying element to discharge from an elevated point with respect to said pan line, and means for maintaining a yieldable hold-down force on said conveying element to maintain the same to the incline of said transfer pan and to crack and crush lumps of coal passing therealong comprising a relatively thin rotatable hold-down wheel engaging the load carrying run of said conveying element at the

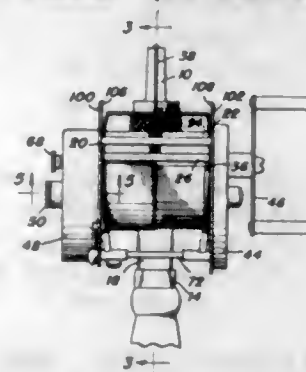
inby end of said transfer pan, a horizontal shaft forming a support for said wheel, vertically extending guide standards at opposite sides of said pan line and having vertical guides therein, means for jacking said standards between a mine floor and roof, bearing blocks guided in said standards for vertical movement therealong and having said shaft journaled therein, and spring means resisting vertical movement of said bearing blocks in an upward direction and accommodating said hold-down wheel to ride over lumps of material incapable of being crushed but maintaining sufficient downward force on said hold-down wheel to maintain said conveying element to the incline of said transfer pan regardless of whether said hold-down wheel is in engagement with said conveying element.

2,715,503

**FISHING REEL**

Edward F. Wegner, Sr., Council Bluffs, Iowa  
Application April 24, 1952, Serial No. 284,054

4 Claims. (Cl. 242-84.5)

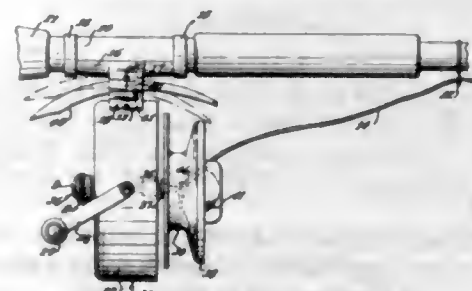


1. An anti-backlash reel comprising a frame, a line receiving spool journaled in said frame, a brake disk connected to said spool, a hinge mounted on said frame, a brake shoe mounted on said hinge, a block of friction material mounted on said shoe, a resilient member yieldingly urging said block of friction material into frictional engagement with the lateral surface of said brake disk, an actuating shaft journaled in said frame, an arm rigidly mounted on said shaft, a cam surface connected with said brake shoe, said arm engaging said cam surface, a lever rigidly connected to said shaft, said lever being operable to oscillate said shaft whereby said arm actuates said cam to urge said brake shoe out of engagement with said brake disk, bridle supporting members rigidly mounted on said actuating shaft, a line engaging bridle rigidly mounted on said supporting members, said supporting members extending above and forwardly of said spool, cheek plates adjacent each end of said spool, forwardly extending projections on said cheek plates extending forward to guard the said bridle, a stop member mounted in said cheek plates, said stop member limiting the oscillatory movement of said actuating shaft.

2,715,504

**SLIP-CAST SPINNING REEL**

Carl K. Monty, Whitehall, N. Y.  
Application February 10, 1953, Serial No. 336,036  
1 Claim. (Cl. 242-84.5)



A slip-cast spinning reel comprising an arcuate stirrup, a pair of spaced parallel ears depending from said stir-

rup, a curved bracket arranged below said stirrup, a pair of spaced parallel lugs extending upwardly from said bracket and connected to said ears, a hollow housing including an annular side wall secured to said bracket, a panel detachably connected to said housing, a drive shaft extending through said side wall, a handle connected to said drive shaft, a first bevel gear positioned in said housing and connected to said shaft, a gear member rotatably connected to said panel and including a second bevel gear arranged in meshing engagement with said first bevel gear, said gear member further including a spur gear, a driven shaft extending through said panel, an adjustable thrust bearing rotatably engaging said driven shaft and including a body member having a knurled collar thereon, a gear wheel mounted on said driven shaft and meshing with said spur gear, a collar positioned on said driven shaft, a drum rotatably mounted on said driven shaft and abutting said collar, said driven shaft being provided with a threaded end portion, said drum being provided with an annular groove for receiving a fishing line, a body member including an integral sleeve arranged in threaded engagement with the threaded portion of said driven shaft, a coil spring interposed between said body member and said drum, there being a central recess in said drum for receiving one end of said coil spring, the other end of said coil spring surrounding said sleeve, a manually operable brake pivotally mounted between said pair of lugs for controlling rotation of said drum, and a coil spring for urging the brake out of engagement with the drum.

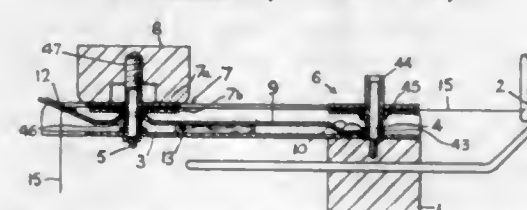
2,715,505

**THREAD-TENSIONING APPARATUS**

Arthur A. Atkins, Coventry, England, assignor to Courtaulds Limited, London, England, a British company

Application October 24, 1952, Serial No. 316,740  
Claims priority, application Great Britain  
November 16, 1951

4 Claims. (Cl. 242-150)



1. A thread tensioning device for maintaining a substantially constant tension in a travelling thread comprising a frame, a cantilever spring mounted on one end of the frame, extending above and toward the other end of the frame, a pair of cooperating surfaces located adjacent to the free end of the spring, the first surface being held in a fixed position and the second surface being supported by the spring in the vicinity of its free end and being urged toward the first surface by the resilience of the spring, the two surfaces thereby leaving a passage therebetween for the thread which offers resistance to the thread, oscillation damping means placed between the spring and the frame to damp undue oscillations in the spring, and a thread guide at the free end of the spring over which the thread passes, leaving it at an angle which causes the thread to bear downwardly on the free end, whereby changes in tension of the thread, which has passed through the passage defined between the surfaces and then over the guide, oppose the action of the spring to make compensating changes in the yarn tension.

2,715,506

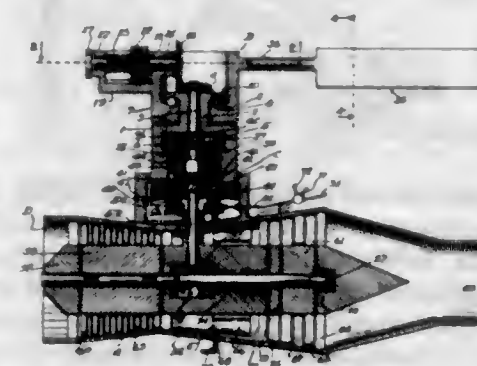
**AIRCRAFT WITH ROTARY AIRFOILS FOLDABLE DURING FORWARD FLIGHT**

Adolphe C. Peterson, Minneapolis, Minn.  
Application July 9, 1951, Serial No. 235,708

9 Claims. (Cl. 244-7)

6. In an aircraft, an aircraft structure having a main wing structure non-rotatable and fixed relatively to the

aircraft structure for sustentation in normal translational flight; a pylon bearing fixed on the aircraft structure; a rotary air foil means including, a mounting hub rotatably mounted on said pylon bearing, a multiple number of air foil blades anchored to said mounting hub by pivots on which the blades are oscillatable in a plane transversely of the axis of the mounting hub and relatively to the mounting hub, a means for transmitting driving torque to the mounting hub and blades, the last named means including a rotatable drive shaft rotatable on an axis co-axial with the axis of the mounting hub, a rotative intermediate actuating element carried in bearings formed in the mounting hub and rotatable in said bearings in the mounting hub and interacting with said mounting hub by its mounting therein, a second interconnecting actuating means between the rotative intermediate actuating element and the said rotatable drive shaft, and a third interconnecting actuating means between the said rotative intermediate actuating element and the said air foil blades

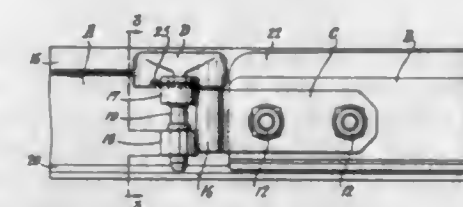


to transmit torque to swing said blades on their pivots in said mounting hub; a power engine having means for forward translational propulsion of the aircraft, an engageable or disengageable transmission between said power engine and said rotatable drive shaft; all the said means to transmit driving torque to the said mounting hub and blades providing torque, when said engageable or disengageable transmission is engaged, to swing said blades on their pivots in said transverse plane to positions in that plane equi-distantly separated, and providing, when said engageable or disengageable transmission is disengaged, for release of the driving torque and movement of the blades on their said pivots to positions parallel and trailing from said axis; the said mounting hub having means limiting the actuation of the means for transmitting driving torque to the mounting hub and blades to effect driving torque by said rotatable drive shaft on said mounting hub and blades for rotation thereof as a unit on said pylon bearing.

2,715,507

**SWITCH POINT PROTECTORS**

Joseph Robinson, New York, N. Y.  
Application October 11, 1949, Serial No. 120,791  
5 Claims. (Cl. 246-437)



1. A switch point protector comprising in combination, a switch blade having a relatively thin forward point, a railway rail against one side of which the blade is adapted to engage, a protector device removably mounted on the other side of said switch blade, said protector device having a part adapted to engage the top of the rail flange to support said device against downward move-



ment relative to the rail and another part adapted to engage under the head of the rail to prevent upward movement of said device.

#### 2,715,508 ENGINE MOUNT

Leslie C. Small, Jr., South Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware  
Original application January 28, 1949, Serial No. 73,404.  
Divided and this application October 11, 1951, Serial No. 250,910

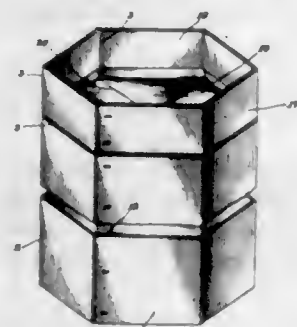
11 Claims. (Cl. 248-5)



6. An engine mount structure for connecting an engine having a crankcase to a supporting structure surrounding said crankcase, said mount structure including an annular diaphragm attached at its inner edge to said crankcase, said diaphragm extending radially outwardly from said crankcase, in combination with a number of individual mounts arranged around said crankcase in angularly spaced relation, each mount including a housing having a projecting strut, a member located within said housing having a projecting stud extending in substantially the opposite direction from said strut, and resilient means secured to said member and positioned between it and the housing to support the member resiliently within the housing, said studs being adapted to be attached to the supporting structure, and the struts being secured to the engine, said strut extending through the diaphragm, each housing having a hub which fits in a bushing in the diaphragm.

#### 2,715,509 DISPLAY STAND

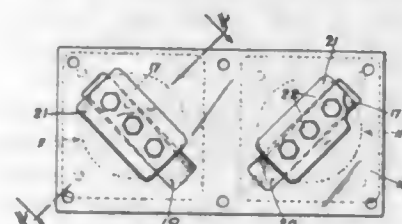
Richard E. Paige, New York, N. Y.  
Application July 12, 1951, Serial No. 236,317  
6 Claims. (Cl. 248-174)



1. A display stand of sheet material comprising a hollow base having sides and a tray above the base with sides each of which is in line with one of said sides on the base, the stand also including sections between the tray and the base, each section being hinge-connected to the lower edge of one side of the tray and the upper edge of an aligned side of the base, said sections and sides being all of substantially the same width, said sections having transverse central score lines about which they are folded inward, said sections when thus folded all projecting inward fully to the middle of the tray and closing the bottom of the tray over substantially the whole extent of said bottom.

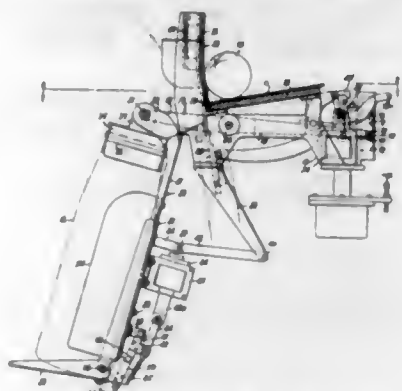
#### 2,715,510 MOUNTS FOR ISOLATING VIBRATION AND ABSORBING SHOCK

Stanley H. Fillon, Scarsdale, N. Y., assignor to Waugh Equipment Company, New York, N. Y., a corporation of Maine  
Application October 21, 1953, Serial No. 387,461  
9 Claims. (Cl. 248-358)



1. A mount for isolating vibration and absorbing shock between an object and a support, which comprises a pair of parallel plates, a mass of rubber bonded to areas on the opposed inner faces of the plates, means for attaching one plate to the object, a shoe mounted on the outer face of the second plate, a member having a slot entered by the shoe, the slot having friction surfaces engageable by the shoe and the shoe having a head overlying the edges of the slot, and means for attaching the member to the support.

2,715,511  
BAG FILLING AND WEIGHING APPARATUS  
Frank Ahlburg and Harry L. Gibson, Los Angeles, Calif., assignors to Desda E. Ahlburg, Los Angeles, Calif.  
Application October 11, 1949, Serial No. 120,754  
9 Claims. (Cl. 249-60)



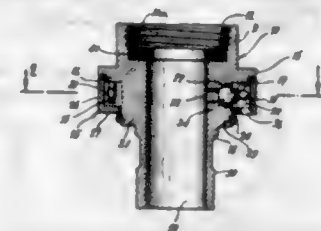
1. In a filling and weighing machine for handling articles such as citrus fruit, potatoes and apples, a pivoted weighing beam, means for supporting a bag from one end of said beam, said bag supporting means including a foot movable between bag retaining and bag releasing positions, said foot being pivotally mounted at the lower end of said bag supporting means, a pair of links attached to said foot and adapted to form a toggle joint, said links serving to hold said foot in bag retaining position when in straight line abutting relationship, and a solenoid adapted to flex said joint to cause said foot to drop to bag releasing position when said solenoid is actuated responsive to movement of said beam.

#### 2,715,512 WATER PRESSURE RELIEF VALVE FOR FAUCET COUPLING

Charles Miller and Pat Romanelli, New York, N. Y., assignors to Ram Domestic Products Company, Englewood, N. J., a partnership  
Application March 9, 1954, Serial No. 415,076  
2 Claims. (Cl. 251-148)

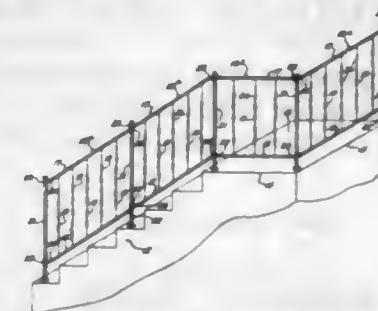
1. In a faucet coupling having an inlet opening, an outlet opening and a through bore connecting said inlet and outlet openings, valve means for releasing water under pressure from said bore, said valve means comprising an auxiliary passageway leading from said bore to an auxiliary outlet opening in said coupling, a ball

valve interposed intermediate said auxiliary passageway and having a valve seat, and a valve control member turnably mounted on said coupling and having an inclined cam surface movable relative to said ball valve



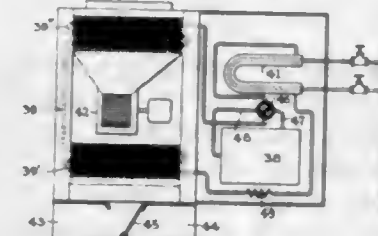
for selectively pressing said ball valve into its valve seat and releasing it therefrom, and spring means normally urging said control member to a position in which said cam surface presses said ball valve into said seat.

2,715,513  
ADJUSTABLE RAILING SECTION  
Edward V. Kools, Appleton, Wis., assignor to Kools Brothers, Inc., Appleton, Wis., a corporation of Wisconsin  
Application April 17, 1953, Serial No. 349,375  
5 Claims. (Cl. 256-21)



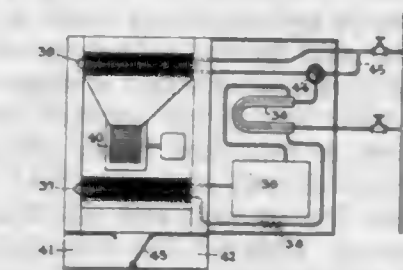
1. A pitch conforming railing section, comprising spaced-apart longitudinal rails having imperforate surfaces, and spindles transversely interposed between said rails in spaced-apart relation, one set of ends of the spindles being anchored to imperforate surface portions of one of the rails and the other set of ends of the spindles being anchored to imperforate surface portions of the other of said rails, said spindles having malleable areas inwardly of their anchored ends to vary the angular relationship between the rails and the spindle extents between said malleable areas while maintaining parallelism between the rails.

2,715,514  
AIR CONDITIONING SYSTEM  
William S. Stair, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware  
Application September 10, 1951, Serial No. 245,894  
3 Claims. (Cl. 257-3)



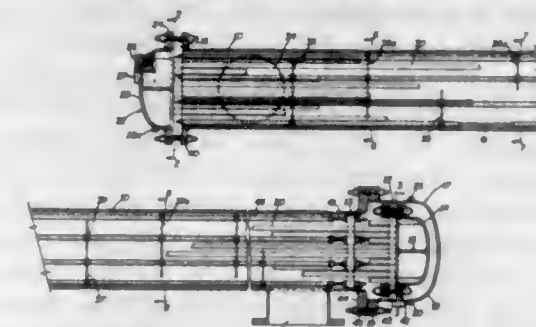
2. The method of conditioning air in a building which consists in circulating a liquid heat exchange medium to a plurality of heat exchangers, connected in parallel flow relation, and selectively and individually operating said heat exchangers as the heat absorbing or heat dissipating surface of a reversible refrigerating unit; controlling the temperature at which said liquid is supplied thereto so that the maximum is less than the maximum permissible for cooling any of the heat dissipating surfaces which it contacts and circulating air in heat exchange relation with the other heat exchange surfaces of said units.

2,715,515  
AIR CONDITIONING SYSTEM  
William S. Stair, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware  
Application September 10, 1951, Serial No. 245,895  
8 Claims. (Cl. 257-3)



1. A heating and cooling installation for buildings comprising a circulating system for a heat exchange medium, the circulating system including a supply header, and connected in parallel flow relation thereto a plurality of supply risers and a return header, and connected in parallel flow relation thereto a plurality of return risers, means to circulate medium through the system, heating means operable to heat the medium circulated, and cooling means operable to cool the circulated medium, said heating and cooling means being selectively operable; a plurality of independently operable room units, each unit including a heating radiator connected between one of the aforesaid supply risers and one of the aforesaid return risers, and through which said medium may be circulated, means operable to terminate flow of the medium therethrough, refrigerating apparatus including an evaporator and a condenser, the condenser having a refrigerant course operatively connected with said evaporator and a liquid course connected between said one of the aforesaid supply risers and said one of the aforesaid return risers; means for circulating air to be supplied to the room in heat exchange relation with the evaporator and with the heating radiator; means to control the temperature of the circulated medium, said control means being selectively adjustable to cause the medium to be circulated at a selected temperature, said selection being made with regard to the load carried by the system, namely an elevated temperature during the heating season, and a low temperature during the cooling season and an intermediate temperature between seasons, said intermediate temperature being higher than the desired room temperature but low enough to act as a cooling medium for the condenser.

2,715,516  
HEAT EXCHANGER DESIGN  
Eugene J. Reinold, Hammond, and Lawrence A. Barry, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana  
Application October 25, 1951, Serial No. 253,176  
2 Claims. (Cl. 257-236)

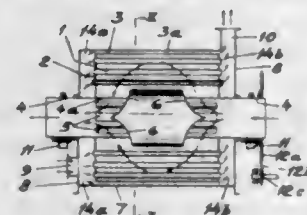


2. In a heat exchanger of the tube and shell type the improvement which comprises the combination of a cylindrical shell, a bundle of tube banks in triangular array, each bank occupying an aliquot circular sector of said shell, a stationary tube sheet closing a first end of said shell and supporting one end of said tube banks,



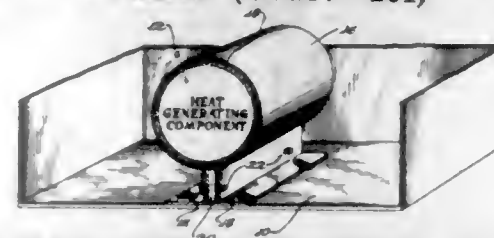
a floating end support plate within the second end of said shell and supporting a terminal portion of said tube banks, a floating tube sheet about the end of said tube banks beyond the second end of said shell, a partitioned convex stationary head supported in fluid-tight relation to said stationary tube sheet, an inlet to a first of said tube banks through said stationary head, a convex floating head fixed to said floating tube sheet and having co-operating radial partitions arranged in alignment with the tubeless zones between adjacent pairs of tube banks, an outlet to the last of said tube banks through said stationary head, said convex stationary head co-operating to provide series flow through said tube banks, whereby fluids flow through each of said tube banks in series countercurrent to fluid in adjacent tube banks, longitudinally spaced pairs of plate-like semicircular baffles ranged transverse to the said tube banks, the individual baffles of each successive pair having their weir edges in register with each other and adjacent pairs of baffles being longitudinally spaced in said shell, each successive pair of baffles being rotated as a unit with respect to the next pair an angle corresponding substantially to the angle of each said aliquot circular sector occupied by each bank, such displacement of each successive pair of baffles placing the weir edges of any baffle in a tubeless zone between adjacent tube banks in said bundle.

**2,715,517**  
**ROTARY, TUBULAR HEAT EXCHANGER**  
Gustav Bojner, Stockholm, Sweden  
Application March 27, 1951, Serial No. 217,741  
5 Claims. (Cl. 257-241)



1. A rotary heat exchanger for passing one flowable material in indirect heat exchange relationship with another comprising a stationary casing including side and spaced end walls, a rotary structure within the casing including a cylindrical substantially horizontally disposed shell spaced from the casing at each end and the sides thereof, tube plates at each end of the shell, a plurality of spaced tubes connected to and extending between and communicating with the spaces beyond the tube plates for providing passages for heat exchange media between the respective ends of the casing, a centrally disposed tube extending through the shell and through and extending beyond the adjacent end walls of the casing, said tube having longitudinally extending slits therein in the portion thereof within the shell, baffle means within the tube including oppositely disposed cone-shaped elements having the apices directed respectively toward the opposite ends of said tube so that material that enters one end of the tube is deflected by one apex of the cone-shaped elements to flow outwardly through the slits in said centrally disposed tube into heat exchange relationship with the tubes disposed between the end plates and the material being directed toward the outlet end of the tube by the other and oppositely disposed apex after it has re-entered the centrally disposed tube through the slits, said casing having greater axial extent than the shell so that the end walls of the casing in combination with the tube plates define end chambers, fluid inlet and outlet means communicated with each end chamber with the fluid inlet means being at the end opposite the collar means constituting the inlet for material, means journalling the collars at areas exteriorly of the casing for reversible rotation, and drive means for rotating the collars and thereby the shell including a driven element carried by one of the collars.

**2,715,518**  
**HEAT CONDUCTING SHOCK MOUNT**  
Irving B. Bickler, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia  
Application January 8, 1953, Serial No. 330,297  
4 Claims. (Cl. 257-261)



4. In electrical apparatus, the combination of an electrical element which generates heat as an incident to its normal operation, a metallic sheath encircling the heat generating portion of the electrical element in radially spaced relation thereto and extending along substantially the entire length of said heat generating portion, a layer of resilient material of good heat conducting properties encircling said heat generating portion of the electrical element between the latter and the surrounding sheath, the resilient layer extending along substantially the entire length of said heat generating portion of the element and having firm contact with both the outer surface of the electrical element and the inner surface of the sheath, and metallic attaching means having a transverse section of substantial area connected with said sheath and extending therefrom to support the sheath and carry away the heat transmitted thereto through said resilient layer from the electrical element.

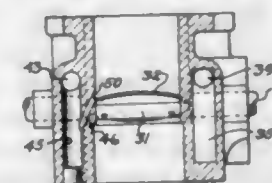
**2,715,519**  
**WHIPPING DEVICE**  
Arnold Schwalbe, Brooklyn, N. Y.  
Application December 19, 1952, Serial No. 326,930  
2 Claims. (Cl. 259-135)



1. A whipping device comprising a frame, a stationary handle fixedly carried by the top of said frame, a drive gear rotatably mounted transversely on said frame, a crank handle carried by said drive gear, a downwardly extending portion integrally formed in the bottom of said frame adjacent said gear, an elongated shaft, said downwardly extending portion being bent around the upper end of said shaft and secured thereto, a first rotor, said first rotor comprising a strap of metal bent into a substantially bowling pin shape, the upper ends of said strap extending substantially parallel to each other and being inwardly bent, a driven bevel gear fixedly secured to said inwardly bent ends and in mesh with said drive gear, said inwardly bent ends and the opposite end of said strap from said inwardly bent ends having aligned openings receiving said shaft, the lower end of said shaft extending downwardly below the bottom of said first rotor, at least one more rotor, said second rotor

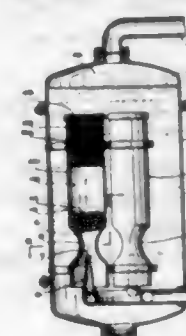
comprising a strap of metal bent into a substantially bowling pin shape, the upper ends of said strap extending substantially parallel to each other and being secured to the intermediate portion of said first rotor, the plane of said second rotor being disposed at substantially right angles to the plane of said first rotor, said second rotor at the bottom thereof having an opening receiving the bottom of said shaft, said shaft extending below the bottom of said second rotor and being externally threaded, a pair of vanes fixedly carried by each of said rotors on each side of said shaft, each of said vanes being vertically disposed and of a substantially S-shaped contour, the ends of said vanes extending outwardly from said shaft, a lock nut secured to the threaded end of said shaft and adapted to support the lowermost of said rotors, a hollow stand having a threaded opening receiving the bottom end of said threaded shaft below said nut, and a substantially ellipsoidal block of material of non-slipping characteristics within said hollow stand and extending downwardly from the bottom thereof whereby to frictionally engage the bottom of a container.

**2,715,520**  
**CARBURETOR DE-ICING MEANS**  
Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware  
Application October 18, 1951, Serial No. 251,976  
2 Claims. (Cl. 261-14)



1. In a carburetor, a mixture conduit having a throttle valve therein, a heating jacket adjacent said throttle valve having a passage communicating with a port in said mixture conduit anterior of the throttle valve when in closed position, and posterior of said valve in the part-throttle range of operation, an inlet for said heating jacket adapted for connection to a source of heated air, a valve for controlling said inlet arranged to open in the direction of flow through said jacket to said port, and flexible, heat responsive means for mounting said valve constructed and arranged to close said valve at high temperatures, and to open said valve at low temperatures.

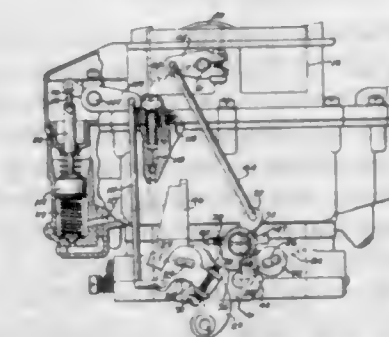
**2,715,521**  
**AIR WASHER AND CONDITIONER**  
Hideo Tadibana, Tokyo, Japan  
Application August 20, 1952, Serial No. 305,401  
Claims priority, application Japan June 13, 1952  
3 Claims. (Cl. 261-18)



1. Apparatus for washing air and adjusting the temperature as well as humidity thereof, comprising a container having liquid therein maintained at a required temperature, provided with a discharging outlet for air to be blown out at its upper portion, a plurality of cylindrical tubes each having a portion of reduced diameter, said tubes being mounted vertically parallel to each other within said container, an air nozzle projecting towards

the center of the entrance of the reduced diameter portion of each cylindrical tube from the bottom of the latter and communicating with a pipe extending to the outside of the container for supplying air under pressure, and fine mesh screens arranged in each of said tubes at three levels to divide the portion of the related tube above the reduced diameter portion thereof into, an upper condensing chamber filled with packings to promote mutual contact between air and liquid and a lower mixing spray chamber loosely containing a plurality of small glass balls, the air ejected from said nozzles acting with sufficient force to drive the liquid from the related lower mixing spray chambers and to introduce air jets containing spray into the mixing spray chambers in which said glass balls are suspended and move freely to ensure intimate contact of the spray laden air with said balls.

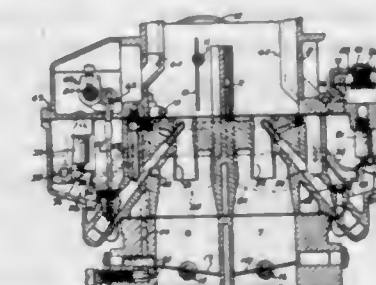
**2,715,522**  
**THROTTLE CONTROL FOR COMPOUND CARBURETORS**  
Harold A. Carlson, Brentwood, and James T. W. Moseley, Richmond Heights, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware  
Application December 26, 1951, Serial No. 263,291  
9 Claims. (Cl. 261-39)



7. In a multi-stage carburetor system, a plurality of induction conduits, a main throttle in one of said conduits, an auxiliary throttle in another of said conduits, a thermostatic stop device for restricting opening of said auxiliary throttle at low temperatures, and a lost motion resilient connection between said throttles comprising first and second arms movable, respectively, with said main and auxiliary throttles, first and second levers pivotally mounted with respect to said main throttle, a lost motion connection between said levers and between said levers and said first arm, a resilient connection between said first lever and the arm movable with said main throttle, and a rigid connection between said second lever and the arm movable with said auxiliary throttle.

**2,715,523**  
**VENTING MEANS FOR CARBURETOR FLOAT BOWLS**

James T. W. Moseley, Richmond Heights, and Harold A. Carlson, Brentwood, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware  
Application December 26, 1951, Serial No. 263,293  
7 Claims. (Cl. 261-72)



7. In a carburetor, a mixture conduit, constant level fuel supply reservoir means for said conduit including a



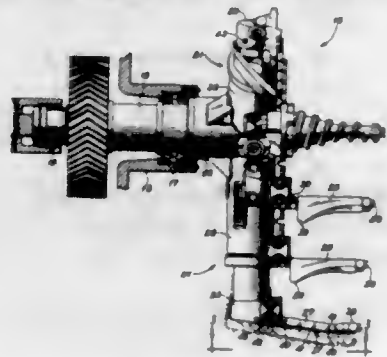
fuel inlet, a valve therein, and a valve controlling float, and a normally closed atmospheric vent in the upper part of said reservoir means and a control for said vent insensitive within a normal range of pressures but operable by excessive pressure beyond said normal range in said inlet anterior to said valve to release vapors.

2,715,524

### BORING HEAD FOR CONTINUOUS MINING MACHINE

James S. Robbins, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application June 1, 1954, Serial No. 433,578  
2 Claims. (Cl. 262-7)

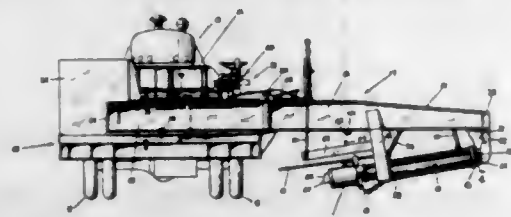


1. In a continuous mining machine for removing mineral from a solid seam, a mobile base, a cutting and dislodging head mounted on said base for up and down pivotal movement with respect thereto, said cutting and dislodging head including at least one boring arm assembly rotatable about a horizontal axis and having at least one radially extending arm carrying at the end thereof a forwardly extending bracket terminating in cutter bit means capable of cutting an annular kerf in a mine face when said boring arm assembly is rotated thereagainst, said bracket flaring outwardly and forwardly and having cutter bit means extending along at least the outer surface thereof whereby said boring arm assembly can be pivoted up or down while cutting to follow variations in level of the seam.

2,715,525

### MACHINE FOR REMOVING CURBS FROM A CONCRETE ROAD

Clarence L. Gleason, Ames, Iowa  
Application June 8, 1951, Serial No. 230,551  
3 Claims. (Cl. 262-15)



1. A machine for removing curbs from a concrete road comprising a main frame, a horizontal beam member, means pivotally supporting said beam member on said frame for movement to a first position extended transversely of said frame and to a second position arranged longitudinally along one side of said frame, said beam in said first position having one end projected outwardly from a side of said frame, a cylinder arranged below said projected beam end in a substantially parallel relation with said beam, support means depending from said beam for supporting said cylinder, a piston for said cylinder movable outwardly from said cylinder in a direction toward said main frame, a hammer carried on the free end of said piston at a position below said main frame, a curb engaging portion on said hammer, and means for operating said piston, with said machine

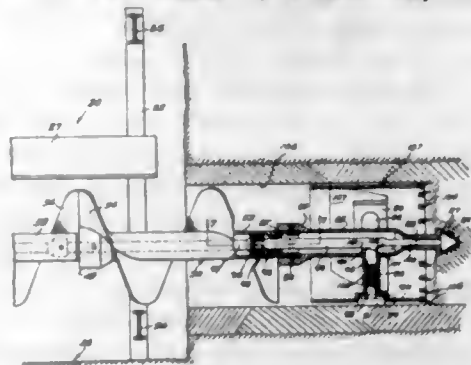
being positioned on the road to provide for said curb engaging portion striking the curb from the outside of the road.

2,715,526

### DIRIGIBLE MINING AUGERS

Harold D. Letts, Zellenople, Pa.

Application October 23, 1953, Serial No. 387,858  
14 Claims. (Cl. 262-26)



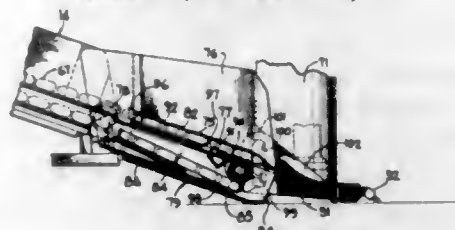
1. In a mining auger, a tubular auger shaft having a rearward and a forward end, driving means connected to the rearward end of the auger shaft for rotating the auger shaft, a cutter head connected to the forward end of the auger shaft, each of the aforesaid connections being of the type to permit lateral play, said cutter head comprising a tubular cutter head shaft having a rear end fixed to the forward end of the auger shaft, radial spokes having inner ends fixed to said cutter head shaft and having outer ends, seats fixed on the outer ends of the spokes, shoes seated on said seats having stems projecting toward the cutter head shaft, said stems having inner ends positioned within said cutter head shaft, a cam operating shaft extending through said tubular auger shaft, said cam operating shaft having a rear end and a forward end, a cam shaft within said cutter head shaft, said cam shaft having a rear end connected with the forward end of the cam operating shaft, a cam on one side of said cam shaft in the region of the inner ends of said stems, said cam operating shaft and said cam shaft being supported on the auger shaft and in the cutter head shaft for both rotary and endwise movements relative thereto and to the said inner ends of the shoe stems, first means connected to the rear end of the cam operating shaft for rotating the cam operating shaft to selectively position said cam for operative engagement with said inner ends of the shoe stems, and second means connected to the rear end of said cam operating shaft for moving said cam operating shaft from a starting position to an operative position in which rotation of the cutting head relative to the cam shaft produces successive operative engagements of the inner ends of the shoe stems with said cam serving to project the shoes outwardly to engage the side of an auger hole so as to deflect the cutter head toward the opposite side of the auger hole.

2,715,527

### MINING MACHINES WITH FLEXIBLE CONNECTION BETWEEN CUTTER BAR AND CONVEYOR

Frank Cartledge and Joseph Gonski, Chicago, Ill., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 12, 1953, Serial No. 391,419  
5 Claims. (Cl. 262-29)



1. In a mining machine, a main frame, a cutting frame mounted on the forward end of said frame, said cutting

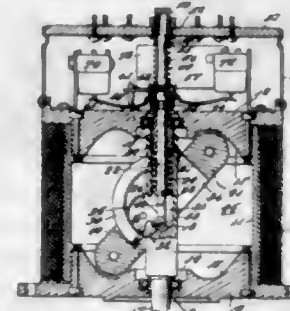
frame including a horizontally disposed cutter bar, means affording lateral and vertical tilting adjustments of said cutter bar relative to said main frame, a conveyor on said main frame for discharging cuttings from said cutting frame, including a trough section fixed on said main frame rearwardly of said cutter bar, an auxiliary trough section forming a continuation of said first-named trough section having its rear end pivotally connected to said first-named trough section on a transverse axis, two intermediate portions of said auxiliary through section being telescopically adjustable relative to each other, and means flexibly connecting the front end of said auxiliary trough section to said cutter bar to maintain the latter in material-receiving relation to said cutter bar in all permissible positions of adjustment thereof.

2,715,528

### FLY-WEIGHT GOVERNOR WITH ELECTRO-MAGNETIC CONTROL OPERATIVE DIRECTLY ON THE FLY-WEIGHT

Fritz Schulte, Philadelphia, Pa.; Wesley H. Caldwell, administrator of said Fritz Schulte, deceased, assignor to Thomas D. Bowes, Bala-Cynwyd, Pa.

Application June 3, 1953, Serial No. 359,317  
8 Claims. (Cl. 264-8)



1. A governor comprising a rotatable element, fly weights pivoted on the rotatable element, a speeder rod operatively associated with the fly weights for axial movement, a speeder spring urging the speeder rod and fly weights toward a static rest position from which they move as a function of rotative speed of said element, means for exposing said fly weights to electro magnetic influence, and said fly-weight being of material and constitution to respond electro-magnetically to such exposure to change the function of response to rotative speed.

2,715,529

### RAIN SIMULATING DEVICES

Ralph A. Ajello, Tuckahoe, and Edward J. Ajello, Briar Cliff Manor, N. Y.

Substituted for abandoned application Serial No. 307,138, August 29, 1952. This application April 21, 1954, Serial No. 424,873

5 Claims. (Cl. 272-8)



1. A device of the class described, comprising a rod, an umbrella-like canopy formed with peripheral projections and being mounted upon said rod, a candle-stick holder arranged a short distance from the rod and being fixedly secured to the latter, a candle mounted in the candle-stick holder, beneath said canopy, the upper end of the rod projecting above the latter, an easily fusible member arranged upon said upper end of the

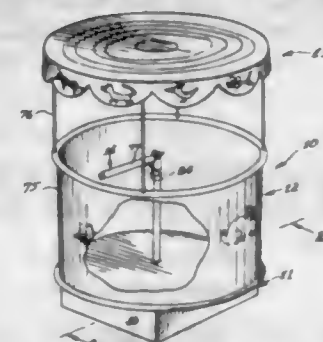
rod, said member being adapted to assume a fluid form upon the lighting of the candle, whereby said fluid will provide drops when falling from the said projections of the canopy.

2,715,530

### COMBINATION PLAY PEN AND CARROUSEL

William Olsen, Miami, Fla.

Application October 16, 1952, Serial No. 315,096  
2 Claims. (Cl. 272-43)



1. In a carousel, a base, said base being hollow, a platform on top of said base, a circular track on the top of said base and a plurality of spaced rollers on the bottom of said platform and adapted for rolling engagement in said track to rotatively mount said platform on said base, a peripheral parapet on said platform to form therewith a pen, a canopy over said platform and mounted on said parapet, a shaft rotatably mounted within said base and extending upwardly through said platform, a spur gear keyed to said shaft within said base, a first pinion gear rotatably mounted within said base and in mesh with said spur gear, a spring operatively connected to said pinion gear for winding and unwinding upon rotative movement of said pinion in opposite directions, a substantially vertical shaft rotatably mounted within said hollow base, a spur gear slidably and rotatably mounted on said last mentioned shaft, said spur gear being in mesh with said first mentioned spur gear, the teeth of said second spur gear being substantially wider than the teeth of said first spur gear whereby to provide for continuous meshing engagement between said teeth when said second spur gear is shifted vertically, a collar extending downwardly and secured to said second spur gear and surrounding said shaft, said collar being provided with ratchet teeth at its lower end, a third spur gear rotatably mounted below said second spur gear, a neck extending upwardly from said third spur gear and having at its upper end ratchet teeth in mesh with said second spur gear ratchet teeth, a governor comprising a rockable member having one end oppositely connected to said third spur gear for oscillatory movement at a frequency proportional to the rotational speed of said shaft and third spur gear, a mass engageable with the other end of said rockable member and movable therewith, a sheath mounted on said first mentioned shaft for shifting movement toward and away from said platform, protections on said sheath and said platform for interlocking engagement with each other when said sheath is moved towards said platform, a handle having one end connected to said shaft for swinging movement from a position transversely of said shaft to a position longitudinally thereof, said handle engaging said sheath for effecting the shifting movement of the latter upon swinging movement of said handle.

2,715,531

### DIRIGIBLE BALL PROJECTOR

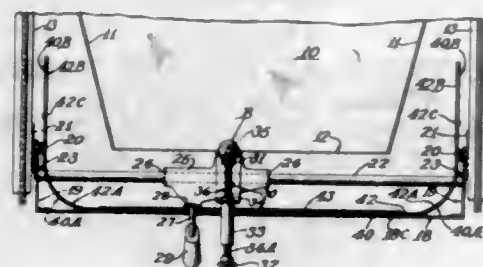
Earle G. Henry, Wilmette, Ill., assignor to Raymond T. Moloney, Chicago, Ill.

Application February 10, 1949, Serial No. 75,537  
6 Claims. (Cl. 273-129)

6. A dirigible ball projecting device comprising a U-shaped bracket and means mounting the same to pivot about a horizontal axis passing through both of the



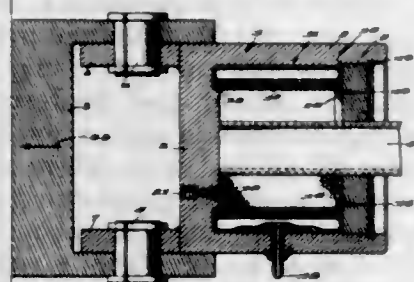
arms thereof near their respective ends; a slide rod extending between said arms in parallelism with said axis at a position between the latter and the right of the



2,715,532

## STRETCH PRESS JAW

Harry B. Gunther, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland  
Application December 12, 1950, Serial No. 200,398  
4 Claims. (Cl. 279-4)

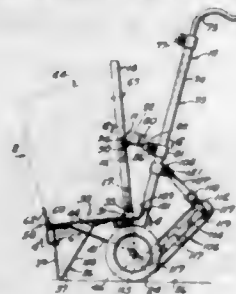


1. A gripper jaw comprising a housing forming an enclosed chamber, said housing including a wall having an opening therethrough adapted to permit the axial insertion of a part to be gripped within said chamber, a mass of generally spherical, freely movable balls approximately filling said chamber and normally loosely confined therein, said opening communicating directly with a portion of said chamber normally filled with said balls and the size of said balls being so related to the size of said chamber and of said opening that, when a part to be gripped is axially inserted through said opening it will radially displace certain of said balls and become completely imbedded in and surrounded in all radial directions by a plurality of layers of said balls and be directly contacted on all sides thereof by a plurality of the balls forming the innermost of said layers, and means for applying pressure to the outer portion of said mass of balls whereby force will be transmitted in all directions throughout said mass to urge the balls in the interior of said mass together so as to produce a gripping action on a part imbedded therein.

2,715,533

## COLLAPSIBLE CART

Chester S. Strausburg, Los Angeles, Calif.  
Application April 2, 1951, Serial No. 218,817  
14 Claims. (Cl. 280-5.22)



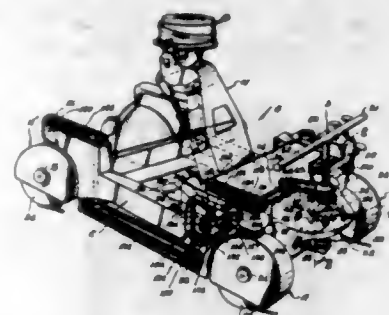
1. In a collapsible cart, the combination of: a frame; a plurality of ground-contacting wheels supported on

said frame; a platform pivotally mounted on said frame and movable between a first position in which it is collapsed against said frame and a second, burden-bearing position in which it is disposed in a plane substantially normal to the vertical axis of said frame; a maneuvering handle pivotally supported on said frame; and a linkage for maintaining said handle in operative position on said frame, said linkage including a lock which is pivotally connected to said frame and which is operable by the movement of the handle from operative to inoperative positions to engage the platform as it is moved into said first position to maintain said platform against said frame in said first position.

2,715,534

## WHEEL STEERING MECHANISM

Ralph O. Hoge, Los Angeles, and Donald P. Wadleton, North Hollywood, Calif., assignors to Thomas Rentals, Inc., Los Angeles, Calif., a corporation of California  
Application April 29, 1953, Serial No. 351,794  
12 Claims. (Cl. 280-47.11)



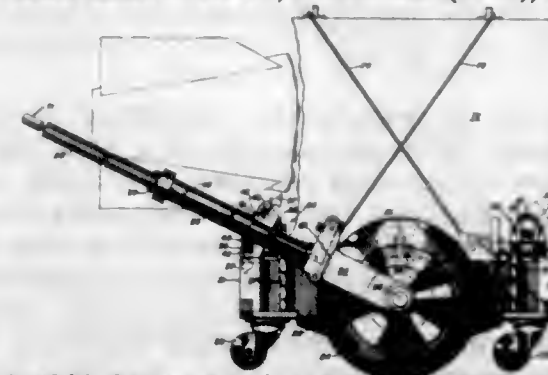
11. A steering mechanism for a chassis, comprising: a pair of steerable front wheels mounted by the front portion of said chassis; a pair of steerable rear wheels mounted by the rear portion of said chassis; a vertically extending steering post journaled by the front portion of said chassis; a forwardly extending arm secured to said post, said arm being formed with a longitudinal slot; a longitudinally extending lever below said arm and mounting a stud at its front end that is slidably disposed within said slot; an inner sleeve coaxial with said post and having an integral ear that extends transversely outwardly relative to one side of said post; an outer sleeve concentric with said inner sleeve and having an integral ear that extends transversely outwardly relative to the opposite side of said post; a pair of angularly disposed links pivotally interposed between said ears and said stud; a longitudinally extending rocker element which when disposed in its first position supports said lever for horizontal pivotal movement about a vertical axis aligned with said post, and which when disposed in its second position supports said lever for horizontal pivotal movement about a vertical axis disposed rearwardly of but in longitudinal alignment with said post; means connecting said inner sleeve to one of said front wheels whereby the latter may be steered by rotation of said post; means connecting said outer sleeve to the other of said front wheels whereby the latter may likewise be steered by rotation of said post; a transfer mechanism interposed between each of said front wheels and its corresponding rear wheel, said transfer mechanisms each including a main shaft connected to said front wheel, a parallel rear shaft connected to said rear wheel, a first pair of aligned gears keyed to said shafts but separated by an idler gear, a second pair of aligned and meshed gears, and a drive sleeve axially slidably carried by and keyed to said main shaft, said drive sleeve when in its first position causing rotation of said main shaft to be transmitted to said rear shaft through said first gears and when in its second position causing rotation of said main shaft to be transmitted to said rear

shaft through said second gears; and shifting means for simultaneously moving said rocker element and said drive sleeve between their first and second positions.

2,715,535

## LOAD HANDLING WHEELED SKID

Joseph H. Prowlinsky, Washington, D. C.  
Application February 6, 1953, Serial No. 335,609  
20 Claims. (Cl. 280-47.16)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

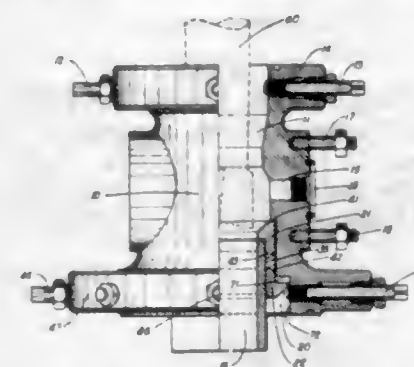


1. A skid for supporting a bomb load comprising a substantially horizontal frame, wheels journaled to said frame, outwardly extending bracket members secured to the ends of said frame, load supporting bracket assemblies carried by said frame, caster members carried by said bracket members, said caster members extending downwardly a distance less than the wheels whereby the skid may rock about the wheels, a handle bracket journaled about the transverse axis of each wheel, a telescopic handle means carried by said bracket, brake control means carried by said handle means, means for latching the handle in any of a plurality of positions, said latching means being actuated to the latching position when said handle means is moved to any one of said plurality of positions, and control means on said handle means for moving said latching means to an unlatched position in response to telescoping movement of said handle means.

2,715,536

## INTERCHANGEABLE TUBING HEAD SEAL AND CASING HOLD-DOWN AND TOOL GUIDE

J C Shuptrine and Andrew C. Oden, Houston, Tex., assignors to George A. Butler, Houston, Tex.  
Application February 16, 1953, Serial No. 336,958  
4 Claims. (Cl. 285-22)



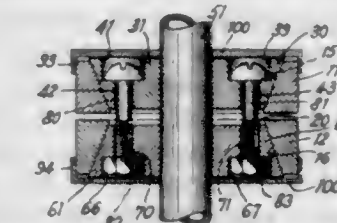
1. In a tubing head having a vertical passage there-through, an annular downwardly facing horizontal shoulder therein, a portion of said passage below said shoulder being cylindrical, three rings coaxial with each other and said passage, said rings being disposed one on top of the other and slidably received in said cylindrical portion, each of said rings having substantially the same outside diameter as the inside diameter of said cylindrical portion and having substantially the same inside diameter adapted to pass over and fit close around a casing extending up into said cylindrical portion, the upper and lower of said rings being made of metal and the middle ring being made of rubber-like material, the upper ring having an in-

turned flange, the lower surface of said flange having a horizontal portion adapted to extend over the upper end of said casing to limit upward travel thereof, the upper surfaces of said flange having a horizontal portion engaging said horizontal shoulder and having an upwardly flaring bevel on its inner periphery extending radially inwardly beyond said shoulder to guide tools into said casing, said lower ring having an upwardly flaring face at its lower end, radial screws passing through threaded apertures in said tubing head adapted to engage said upwardly flaring face on said lower ring to compress said middle ring between said upper and lower rings into sealing engagement with said casing and said cylindrical portion of the tubing head, said three rings being disposed entirely within said tubing head above the lower end thereof between said tubing head and said casing and supported vertically solely by said radial screws from said tubing head.

2,715,537

## COUPLING OR CONNECTING DEVICE

Richard W. Hofheimer, Cambridge, Mass.  
Application December 4, 1952, Serial No. 323,996  
9 Claims. (Cl. 287-54)

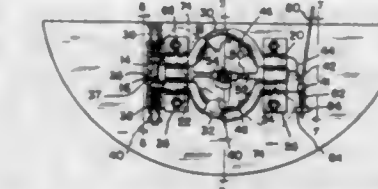


1. A coupling device comprising a pair of opposed members arranged in facing relation with respect to each other, releasable means for effecting movement of said members toward each other for clamping an element arranged therebetween, said means including two other pairs of opposed members, one pair being within each of the first opposed members and arranged therein in facing relation with respect to each other and movable toward each other, and means for moving the members of each of said other pairs of members toward each other for clamping an element arranged therebetween, upon operating said releasable means for effecting movement of the first pair of opposed members toward each other.

2,715,538

## HOOD LATCH STRUCTURE

George Janonis, Detroit, Mich.  
Application March 6, 1950, Serial No. 147,822  
7 Claims. (Cl. 292-50)



3. In a hood latch structure, a pair of latch plates having confronting edges, hinge means for said plates providing for movement of said edges toward and away from each other, resilient means urging said plates toward latched position, a latch bolt movable downwardly between said plates, a pressure plate below said latch plates in position to be engaged by the lower end of said latch bolt, and resilient means urging said pressure plate upwardly to retain said bolt firmly in latched position to

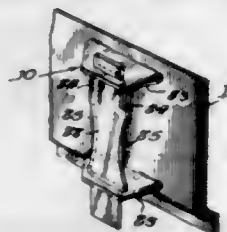


prevent rattling of the hood, said pressure plate being formed with an upwardly facing recess to receive the lower end of said latch bolt and to guide said bolt upwardly when released by said plates.

2,715,539

**BOX CAR DOOR SAFETY LATCH**

John H. Spence, Chicago, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware  
Application August 22, 1951, Serial No. 243,014  
2 Claims. (Cl. 292-189)

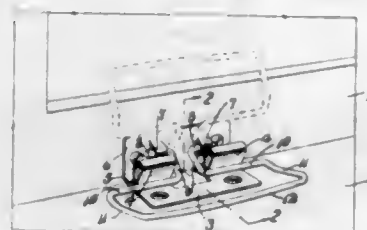


2. Latching means for a door slidable along a vertical wall to open and close an aperture therein, comprising a pair of vertically spaced bracket members extending from the door each having a closed elongated slot defined therein extending substantially parallel to the door, said slots being located in vertically registering relation, a flat plate-like latching element engaged for vertical sliding movement in said slots of the bracket members and located thereby in spaced substantially parallel relation to the door, said latch element having upper and lower end portions of a width corresponding to the length of the slots in the respective upper and lower bracket members and vertically spaced portions of greater width adjacent the end portions respectively engageable with the adjacent bracket members to limit sliding movement of the latch element in opposite directions, said latch element also having the portion thereof between said wider portions narrowed for ready grasping in raising of said latch element and moving of the door.

2,715,540

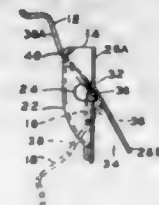
**CAM LATCH**

William W. Potter, Grand Rapids, Mich., assignor to Grand Rapids Hardware Company, Grand Rapids, Mich., a corporation of Michigan  
Application December 27, 1951, Serial No. 263,632  
3 Claims. (Cl. 292-241)



1. A latch comprising, a keeper having a flat base and a plurality of spaced loops at one side of the base extending to a side of and away from the base, generally at right angles thereto, each of said loops having sides integrally connected at one end of each side to the base, said sides diverging away from the base and integrally connected at their other ends by convex curved connecting portions, and a latch member comprising, a base adapted to be located generally at right angles to said keeper base, and a handle having two oppositely extending pintles pivotally connected to the base with sections integral with said pintles extending therefrom adapted to pass between said loops, and with other sections extending oppositely to each other from said first sections adapted to ride over said loops and engage with the sides thereof farthest away from the latch base.

2,715,541  
**METHOD OF MANUFACTURE FOR LATCH UNIT AND INTERMEDIATE PRODUCT**  
Gunnar E. Swanson, Middletown, Conn.  
Application October 20, 1954, Serial No. 463,409  
3 Claims. (Cl. 292-246)

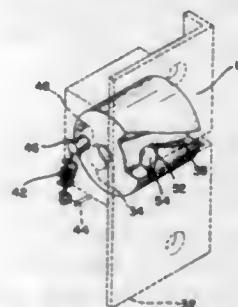


3. An article of manufacture constituting an intermediate product in the manufacture of a latch unit for a latch device of the class described, said article comprising in combination a sheet metal supporting bracket formed with a forwardly projecting integral housing having a front wall and horizontally spaced substantially parallel side walls provided with horizontally aligned apertures near the rear thereof which bracket is also formed with two similar vertical wings extending respectively from said side walls in opposite lateral directions, said wings extending continuously from top to bottom with their upper portions directly joined with the corresponding side walls and with their lower portions separated from the said corresponding side walls by vertical slashes adjacent the side walls of the housing and extending from the bottom of the bracket to the corresponding side wall apertures and said wings having their said lower portions bent rearwardly at an angle to their said upper portions and along a transverse horizontal line near the tops of said apertures so as to provide passageways at the sides of the housing extending from the bottom of the bracket to the side wall apertures, a leaf spring mounted within the said housing and engaging the front wall thereof which spring has a portion extending across the side wall apertures, and a latch having a flat crossbar at its lower end which is at the front of the rearwardly bent lower portions of the wings and which enters the side wall openings sufficiently to engage and rearwardly flex the last said portion of the leaf spring, said latch extending generally forwardly and upwardly from the said crossbar and having an opening located above the crossbar and receiving the upper portion of the housing which opening has an upper portion narrower than the housing with resultant shoulders that engage the upper edges of the housing side walls and cooperate with the leaf spring to hold the latch in place on the bracket.

2,715,542

**ANTI-RATTLE DOOR LATCH**

Otis O. Gould, Portland, Oreg., assignor of one-half to Wayne C. Harrigan, Seattle, Wash.  
Application December 29, 1952, Serial No. 328,398  
6 Claims. (Cl. 292-341.15)



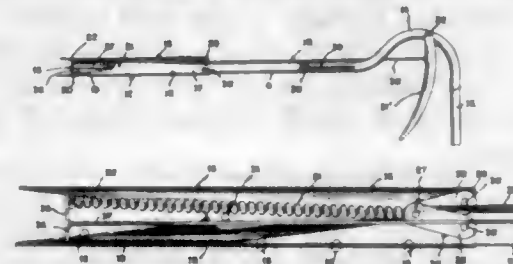
6. A door latch keeper positioned in a jamb adjacent the closing in edge portion of a door, comprising: a locking member positioned in said jamb, said locking member having an L-shaped locking groove in its face forming first and second leg groove portions and the portion of said locking member having said groove being movable substantially vertically and spring means biasing

said locking member toward a first position, said first and second leg portions of said L-shaped groove each forming an acute angle with the horizontal so that in closing a bolt on said door may enter said first leg portion in said first position and may ride therealong moving said locking member against the force of said spring means and then be caught behind said second leg portion.

2,715,543

**CANE TYPE WEED PULLER**

Matt Ristila and John A. Overhouse, Lansing, Mich.  
Application August 11, 1952, Serial No. 303,678  
8 Claims. (Cl. 294-50.9)

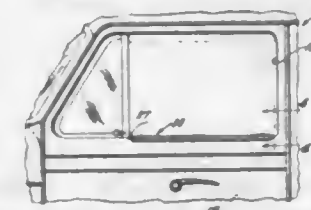


2. A weed puller comprising a tubular staff having a handle at the upper end, a fixed jaw at the lower end of the staff and having a ground piercing blade, a cooperating jaw pivotally supported intermediate the ends thereof by the staff and having a ground piercing blade movable toward and away from the blade on the fixed jaw, a toggle comprising a pair of links having the inner ends pivotally connected together and having the outer ends respectively pivotally supported on the movable jaw and staff at points spaced above the pivotal support for the movable jaw, means for biasing the toggle toward its folded position wherein the blades on said jaws are spaced apart, means positioned adjacent the handle on said staff and connected to the toggle for moving the toggle linkage toward its extended position and thereby swing the blade on the movable jaw toward the blade on the fixed jaw, an ejector supported on the staff between the blades and movable lengthwise of said blades in the open position of the jaws, said ejector comprising a plate movable lengthwise of the blades between the pivotal mounting for the movable blade and the lower ends of said blades, an actuator supported on the staff adjacent the upper end thereof, means interconnecting said actuator and plate comprising a rod extending upwardly from the plate through the staff, said actuator comprising a handle having a part extending through an elongated slot in one side of the staff and connected to the upper end of the rod, and the biasing means for the toggle linkage comprising a coil spring positioned between the jaws and having the opposite ends respectively connected to the ejector plate and the inner ends of the toggle links.

2,715,544

**ARMREST FOR VEHICLE DOORS**

Chester G. Jones, Dallas, Tex.  
Application January 10, 1955, Serial No. 480,639  
8 Claims. (Cl. 296-49.2)



1. An armrest for automobile windows comprising a body composed of elongate flat strips of non-metallic material in spaced apart parallelism, a cover of flexible material of low heat radiating qualities encasing said strips and defining therebetween a flexible area coextensive with said strips, a plurality of clips flexibly attached to said flexible area in longitudinally spaced relation-

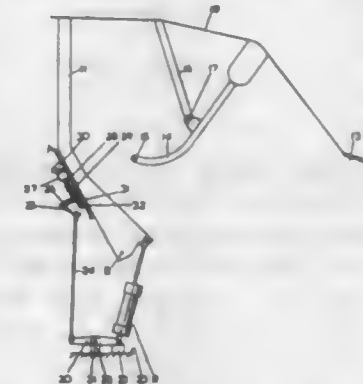
697 O. G.-25

ship and adapted to clampingly engage the top edge of the glass of said window, said strips and enclosing fabric defining wings adapted to lie one on each side of said glass in lowered position of the latter in said window.

2,715,545

**VEHICLE TOP WITH COMBINATION ACTUATING AND LATCHING MEANS**

John Hewitt Orr, Coventry, England, assignor to Carbodies Limited, Coventry, England  
Application February 16, 1953, Serial No. 337,189  
Claims priority, application Great Britain  
February 15, 1952  
4 Claims. (Cl. 296-117)

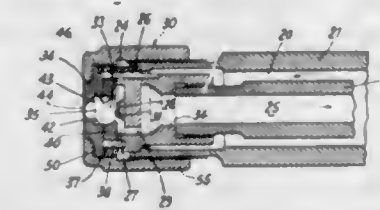


1. A motor-car body with a drop-head including a forward frame member pivoted from said body, a slam-type latch means on said body and coacting with said frame member to hold said head erected, said latch means having a latch biased into engaging position, a double-acting hydraulic ram connected at one end to said frame member, a level pivoted intermediate its ends to said body, a pivotal interconnection between the other end of said ram and one arm of said lever, a rod operatively connected at one end to the latch of said latch means, the connection between said rod and said latch including a lost motion means, an operative connection between the other end of said rod and the other arm of said lever, a stop engaged by said other end of said ram when said head is erected, said ram, when actuated in the direction for lowering said head, first retracting its said other end from said stop and simultaneously acting on said rod to withdraw said latch against its bias to the disengaging position whereby to enable a continuation of the actuation of said ram to lower said head, and said ram when actuated in the direction for raising said head extending first to engage said stop for causing the said one end of said ram to act on said frame member for raising said head.

2,715,546

**ATOMIZER**

Lewis W. Heller, Yardley, Pa., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey  
Application September 10, 1949, Serial No. 115,013  
16 Claims. (Cl. 299-120)

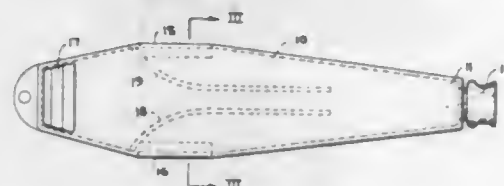


1. A return-flow liquid fuel burner comprising, in combination, means forming a whirl chamber of circular cross section including a fuel inlet zone intermediate the length of the whirl chamber, a discharge orifice at one end thereof, and a rear wall; fuel supply passage means communicating tangentially with such inlet zone; means for removing a portion of the fuel whirling in such chamber



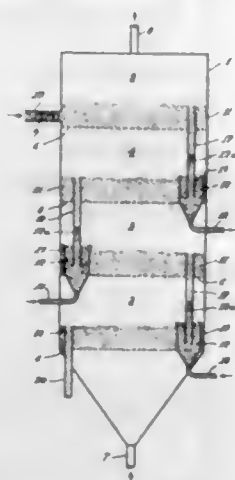
comprising an annular return flow slot communicating peripherally with the rear wall of the chamber and increasing uniformly in diameter and cross-sectional flow area outwardly of the whirl chamber; and a return flow passage communicating with such return flow means.

**2,715,547**  
**MULTIPLE SPRAY WATER NOZZLE**  
August R. Fleck, Franklin, Pa.  
Application December 9, 1952, Serial No. 324,889  
1 Claim. (Cl. 299—121)



A multiple-row plant watering nozzle comprising a horizontally elongated hollow body member having a front wall, side walls, top and bottom walls, and means at the rear end thereof for connection to a water supply hose or the like whereby said body member may be supplied with water; a pair of spaced vertical walls in said body member spanning the top and bottom walls thereof and converging inwardly from said side walls in the direction of said rear end to form therein three compartments to receive the water supplied; one of said compartments being in the front end portion of said body member; said front wall and each of said side walls rearwardly of the front portions of said vertical walls being provided with a horizontally elongated aperture positioned intermediate said top and bottom walls; and means forming an inclined surface extending from said bottom wall upwardly to the bottom edge of each of said apertures whereby the outward flow of water through said apertures will have an initial vertical component of movement.

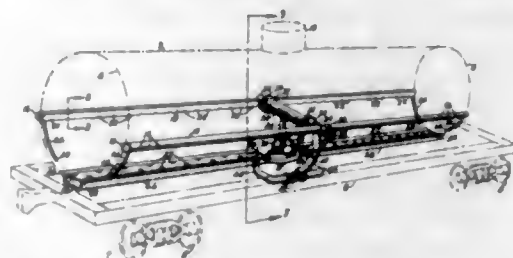
**2,715,548**  
**METHOD OF TRANSFERRING SOLIDS**  
William M. Fish, Rock Hill, Mo., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania  
Application December 24, 1952, Serial No. 327,880  
2 Claims. (Cl. 302—29)



1. In a system comprising a pair of chambers containing beds of finely divided fluidized solids, the gas pressure in one of the said chambers being lower than the gas pressure in the other of said chambers, and the gas pressure differential between the said two chambers being subject to fluctuation, the method of transferring solids from the said chamber of lower gas pressure to the other of said chambers, comprising overflowing solids from the surface of the fluidized bed of solids in the said chamber

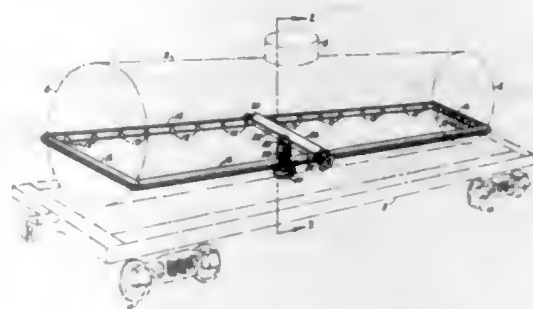
of lower gas pressure into a downwardly directed conduit having an outlet immersed in a fluidized bed of solids in the said chamber of higher gas pressure, conducting the overflowed solids into the latter bed through the said conduit, and overflowing solids from the latter fluidized bed into a second fluidized bed in the said chamber of higher gas pressure, the said two fluidized beds of solids in the said chamber of higher gas pressure being fluidized respectively by separate gas streams, a portion of the said bed in which said outlet is immersed extending upward into the said conduit and forming therein a column of fluidized solids of sufficient height to balance the pressure drop between the said chambers, and there being sufficient fluidized solids of that same bed above the said outlet and outside of the said conduit for the maximum increase which occurs in pressure drop between the two chambers during operation of the system to be balanced by a rise of fluidized solids of that bed in the conduit.

**2,715,549**  
**TANK CAR CONTAINER**  
Robert A. Shields, Bloomsburg, Pa., assignor to ACF Industries Incorporated, a corporation of New Jersey  
Application June 7, 1950, Serial No. 166,756  
14 Claims. (Cl. 302—52)



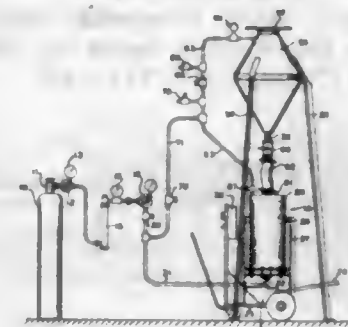
1. In a railway car, a cylindrically curved shell, ends closing the shell and forming a horizontally elongated body, a discharge outlet in the lower portion of the shell, coextensive means secured to the interior and exterior surfaces of the shell and together forming a single conduit divided interiorly by said shell, passageways through the shell within the conduit, said means secured to the interior of the shell having openings therein whereby fluid under pressure may escape from the conduit.

**2,715,550**  
**TANK CAR FOR PULVERULENT MATERIALS**  
Robert A. Shields, Bloomsburg, Pa., assignor to ACF Industries Incorporated, a corporation of New Jersey  
Application June 7, 1950, Serial No. 166,755  
11 Claims. (Cl. 302—53)



1. In a railway car, a horizontally disposed cylindrically curved shell, ends closing the shell and forming a horizontally disposed elongated body, a discharge outlet in the lower portion of the horizontally disposed shell, and continuous closed conduit means secured to the exterior surface of the shell and ends adapted to receive fluid under pressure, said shell and ends having openings therethrough into said conduit means adapted to discharge fluid under pressure in a direction toward the discharge outlet.

**2,715,551**  
**APPARATUS FOR DISPENSING POWDERED MATERIALS AT SUPERATMOSPHERIC PRESSURE**  
Joseph F. Kiernan, Dunellen, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York  
Application December 9, 1952, Serial No. 324,991  
1 Claim. (Cl. 302—55)



Apparatus for continuously feeding powdered material into a flowing gas stream at superatmospheric pressure which comprises a first pressurized powder hopper, means for discharging powder from the bottom of said hopper through a substantially horizontal channel into a vertical conduit, means in said vertical conduit above the intersection of said channel and said conduit for supplying gas from a source of gas at superatmospheric pressure for mixture with said powder in said vertical conduit and delivery therefrom through the lower end of said conduit, conduit means providing communication between said vertical conduit at a point above the intersection of said channel and said conduit and the free space above the powder in said pressurized powder hopper to provide balanced pressure above and below the powder in said hopper at all times during operation, a second pressurized hopper above said first hopper, pressure tight conduit means including a valve connecting the bottom of said second hopper and the top of said first hopper, for the flow of powder from said second hopper to said first hopper, pressure tight conduit means including a valve placing the free volume above the powder in said first hopper in communication with the free volume above said powder in the second hopper to balance the pressure in said two hoppers prior to transfer of material from said second hopper to said first hopper, and means for providing gas at superatmospheric pressure directly to said free volume in said second hopper from said source of gas at superatmospheric pressure whereby the pressure in said second hopper can be built up rapidly by the admission thereto of gas directly from said source without causing a substantial pressure drop in said first hopper and without reducing the downward flow of gas in said vertical conduit from said gas inlet to said outlet.

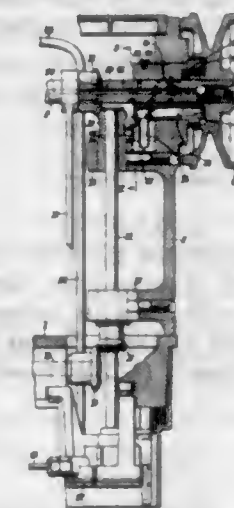
**2,715,552**  
**DRILL STRING BUSHING TOOL**  
John J. Lane, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware  
Application March 1, 1954, Serial No. 413,246  
8 Claims. (Cl. 308—4)



1. In a drill string bushing tool, a hollow mandrel arranged to be incorporated as a part of a drilling string;

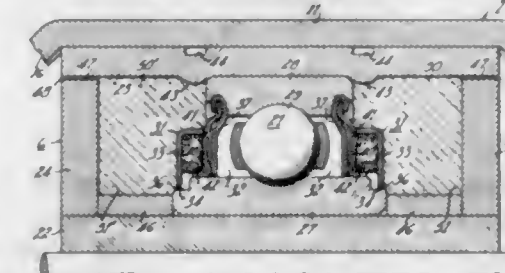
a bushing loosely disposed on the mandrel; said bushing being comprised of a rigid tubular member having longitudinal ribs of resilient material bonded to the outer side thereof, longitudinal flow channels between the ribs, longitudinal ridges of resilient material bonded to the inner side of the tubular member, longitudinal flow grooves between said ridges, and lateral flow apertures provided about the upper end of the bushing; a head member arranged on the mandrel adapted to limit the upward movement of the bushing on the mandrel; a base member on the mandrel adapted to limit the downward movement of the bushing on the mandrel; and the lateral flow apertures being arranged to communicate with the grooves on the inner side of the bushing.

**2,715,553**  
**SEWING MACHINE LUBRICATION**  
Herman Ritter, Cranford, and Charles A. Kessler, Plainfield, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey  
Application October 3, 1951, Serial No. 249,542  
6 Claims. (Cl. 308—36.1)



1. In a sewing machine having a frame, a bushing extending through a wall of the frame, a rotary shaft journaled in the bushing and having a free end extending through the bushing to the exterior of the frame, means for supplying lubricant to the bearing surface between said shaft and bushing, means for collecting the lubricant that escapes from the bearing surface adjacent the free end of the shaft, a lubricant-return conduit formed as a bore in the bushing leading from the collecting means to the interior of the frame, said bore terminating in a portion radially disposed with respect to the bushing, a strap secured to the bushing and carrying a tube communicating with the radially disposed portion of said bore, and a liquid-seal associated with said tube for preventing lubricant-laden air within the frame from entering the conduit.

**2,715,554**  
**BEARING AND SEAL ASSEMBLY**  
Maynard E. Walberg, La Crosse, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application March 30, 1953, Serial No. 345,598  
4 Claims. (Cl. 308—187.2)



1. A unitary, grease packed bearing structure adapted for axial movement, as an assembled unit, into and out

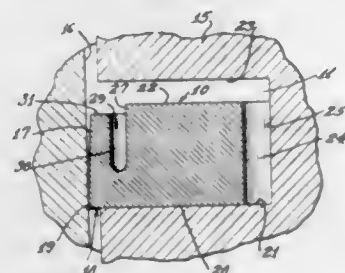


of installed position on a shaft, said bearing structure comprising a pair of coaxial, radially spaced inner and outer sleeve members; an antifriction bearing of shorter axial length than the axial length of the annular space between said sleeve members operatively interposed between radially opposite portions of the latter substantially midway between the axially opposite ends of each of said sleeve members, said antifriction bearing comprising an inner race secured to said inner sleeve member in surrounding, nonrotatable and axially fixed relation thereto, an outer race surrounded by and secured in nonrotatable, axially fixed relation to said outer sleeve member, and an annular series of antifriction bodies operatively interposed between said inner and outer races; a pair of seals operatively interposed between said races at the axially opposite sides, respectively, of said antifriction bearing; a pair of annular end plates extending radially between said sleeve members at the axially opposite sides, respectively, of said antifriction bearing and at predetermined axial distances from the latter so as to provide a pair of packing compartments at said axially opposite sides, respectively, of said antifriction bearing; each of said end plates being secured at one of its inner and outer peripheries to one of said sleeve members and being of a radial width to substantially close the annular space between said sleeve members; and a mass of semi-fluid packing grease enclosed within and entirely filling each of said packing compartments.

2,715,555

## COMPRESSION PISTON RING

Melvin W. Marien, St. Louis, Mo., assignor to Ramsey Corporation, St. Louis, Mo., a corporation of Ohio  
Application April 9, 1953, Serial No. 347,754  
4 Claims. (Cl. 309-44)

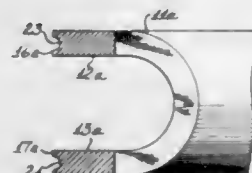


1. A piston ring comprising a radially slit annular ring having a tapered periphery tapering inwardly from the bottom of the ring to have line contact with the cylinder wall at its lower edge when breaking in the ring, and also having an upwardly opening pressure cavity recessed within the top face thereof and extending therearound.

2,715,556

## PISTON RINGS

Herbert F. Prasse, Gates Mills, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application December 27, 1950, Serial No. 202,847  
3 Claims. (Cl. 309-45)



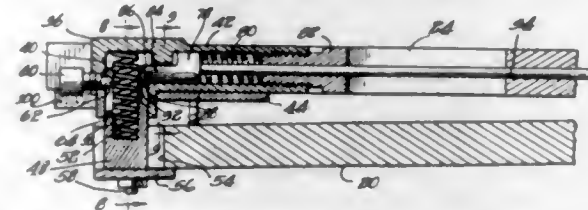
1. A piston ring comprising a plurality of segments, each of said segments having a substantially U-shaped cross-section providing spaced-apart side walls, one of said side walls having an arcuate outer surface and the other side wall having an outer arcuate surface aligned therewith, said aligned arcuate surfaces being adapted to

slidably engage a cylinder wall, and the arcuate surface of each side wall having a groove therein extending longitudinally thereof.

2,715,557

## ADJUSTABLE HEADREST FOR CHIROPRACTIC TREATMENT

George L. Rock, Jonesville, Mich.  
Application July 9, 1953, Serial No. 366,943  
10 Claims. (Cl. 311-10)

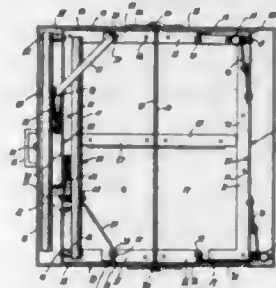


1. In an apparatus for use in chiropractic treatment, a member for supporting a portion of the body of a patient, means mounting said member for movement to and from upper and lower positions, means for normally retaining said member in said upper position and operable to permit said member to be moved to said lower position, and resilient means for locking said last named means to prevent downward movement of said member until a predetermined downward pressure is applied to said member and for releasing said member for downward movement when said predetermined pressure is applied thereto.

2,715,558

## FOLDING SECTIONAL TOP TABLE

Joseph Lander Bell, Staten Island, N. Y., assignor to Portable Tables, Inc., New York, N. Y., a corporation of New York  
Application October 19, 1954, Serial No. 463,151  
6 Claims. (Cl. 311-90)

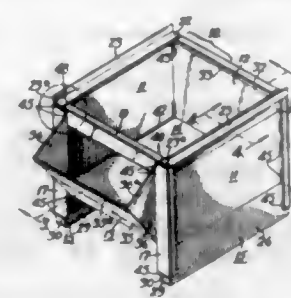


1. A foldable table, comprising a pair of hinged top sections relatively foldable from extended co-planar positions to retracted side by side positions, each of said sections comprising a frame, a pair of table legs pivotally connected individually at their upper ends to each of said frames, respectively, and individually foldable from extended or table supporting positions to retracted positions in which they lie parallel to each other and to the pivotal axis of said hinged sections, each of said section frames having a part disposed adjacent the end of the section sections and also having parts adjacent the opposite sides, respectively, of the companion section extending perpendicularly to said line of fold, and double leg-bracing means for each leg foldable therewith in relation to the companion frame section to and from leg-retracted and leg-extended positions, said double leg-bracing means for each leg comprising a pair of members one of which is secured to the companion leg and to the adjacent one of said last mentioned parts of the frame section so as to brace the leg, in the extended condition thereof, against movement transversely of said line of fold, and the other of said pair of members being secured to said first mentioned part of the companion frame section and to the leg to brace the leg, in the extended condition thereof, against movement parallel to said line of fold.

2,715,559

## FACTORY STORAGE BIN

Joseph P. Villo, Glenside Gardens, Pa., assignor to Standard Pressed Steel Company, Jenkintown, Pa., a corporation of Pennsylvania  
Application February 8, 1952, Serial No. 270,541  
4 Claims. (Cl. 312-107)

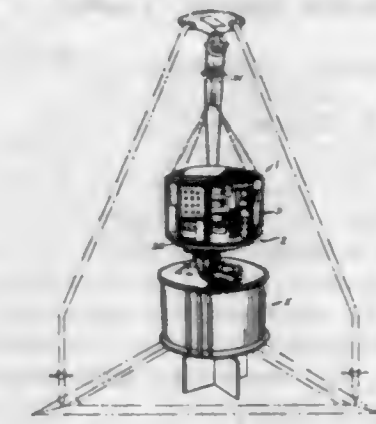


1. A portable factory bin comprising a substantially flat base member, an upwardly extending rear wall, a front piece diverging upwardly and outwardly from the forward edge of said base member, side walls each having at its lower extremity an inwardly projecting horizontal flange to underlie said base member and terminating in a depending lip, and recessed leg members each comprising a vertical web and peripheral walls, the upper said peripheral wall being dimensionally identical with and underlying said horizontal flange and the inner edge of said upper wall seating against said downwardly depending lip whereby the web and the associated side wall present a substantially uninterrupted exterior side surface, and the said side walls each having at its upper extremity a portion bent angularly inwardly and upwardly and terminating in a horizontal flange projecting outwardly beyond said uninterrupted side surface and having at its outer extremity a vertical lip, said flange and lip forming a seat for a second superimposed, like bin.

2,715,560

## HOUSING FOR ELECTRONIC CHASSIS

Robert A. Felburg, Los Angeles, Calif., assignor to the United States of America as represented by the Secretary of the Air Force  
Application May 25, 1954, Serial No. 432,335  
4 Claims. (Cl. 312-298)



1. In combination with a container having electric terminal connections to the bottom thereof of a removable electronic chassis for mounting electronic equipment comprising an upper ring member, a lower ring member, means connecting said ring members in parallel spaced relation defining an open framework, support sections within the framework and intermediate the spaced rings normally locked to the perimeter thereof at spaced points by bolt members whereby a removal of certain of said bolt members, said support sections will pivot outward of said framework in hinged relation thereto, and means depending from said bottom ring member having electrical connections for cooperation with the electric terminals on said bottom of the container whereby on lifting the electronic chassis from said container an operative electrical connection is maintained and ready access to all equipment mounted on said framework may obtain.

## CHEMICAL

2,715,561

## METHOD OF PREPARING THIOPHOSPHORYL-CHLORIDE

Florian F. Knotz, Graz, Austria  
No Drawing. Application October 2, 1953,  
Serial No. 383,935  
8 Claims. (Cl. 23-14)

1. A method of preparing PSCl<sub>3</sub> which comprises reacting PCl<sub>3</sub> with sulfur in the presence of a catalyst mixture comprising a member of the group consisting of chlorine and bromine and mixtures thereof and a member of the group consisting in iron powder, aluminum powder and mixtures thereof said catalyst mixture also including a trace of iodine.

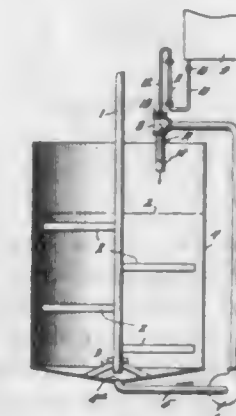
2,715,562

## INSECTICIDAL CALCIUM ARSENATE AND METHOD OF MAKING SAME

John F. Les Veaux, Middleport, N. Y., assignor to Food Machinery and Chemical Corporation, San Jose, Calif.  
Application October 10, 1950, Serial No. 189,317  
4 Claims. (Cl. 23-53)

1. In the method of making an insecticidal calcium arsenate by chemically reacting arsenic acid with an aqueous suspension of hydrated lime, the steps which comprise recirculating the suspension of hydrated lime from a reservoir containing the main bulk of the suspension through a relatively small main reaction chamber where most of the reaction occurs and back to the reservoir; gradually adding the arsenic acid to, and thoroughly mixing it with, the stream of lime suspension

as it passes through the reaction chamber and continuing the aforesaid procedure until substantially all of the hydrated lime in the suspension has been converted to calcium arsenate and then discontinuing the process, the rate of addition of the arsenic acid to the hydrated lime in the reaction chamber being sufficiently low to maintain an excess of unreacted hydrated lime in the reaction chamber throughout substantially the whole of the process, until the conversion of the lime to calcium arsenate is completed; the suspension of hydrated lime in circulation during the reaction and until the reaction is completed containing both the reaction product of the reactants and the excess lime.





2,715,563

**PROCESS FOR THE PRODUCTION OF AMMONIUM SULPHAMATE**

Joseph Newton Robinson and Frederick John Leslie Miller, Trail, British Columbia, and Basil McDonnell, Rossland, British Columbia, Canada, assignors to The Consolidated Mining and Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a company of Canada

No Drawing. Application April 17, 1951,  
Serial No. 221,534

8 Claims. (Cl. 23—114)

1. The process of producing ammonium sulphamate which includes the steps of reacting a mixture of ammonia and sulphur dioxide substantially free from sulphur trioxide at a temperature within the range of from about 100° C. to about 400° C. and under a superatmospheric pressure of ammonia, the ammonia being present in excess of the amount required for reaction with the sulphur dioxide, and recovering ammonium sulphamate from the reaction product.

2,715,564  
**HYDRAZINE**

Orlan M. Arnold, Grosse Pointe, and Robert M. Jamison, Detroit, Mich., assignors to Olin Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application December 23, 1953,  
Serial No. 400,108

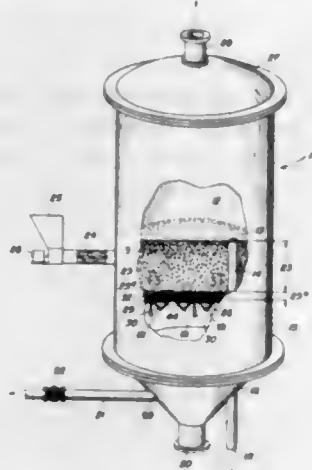
6 Claims. (Cl. 23—190)

5. A method for repressing the dissolution of copper in hydrazine which comprises including as a solute in the hydrazine a compound selected from the group consisting of tetramethyl thiuram monosulfide, tetramethyl thiuram disulfide, 2,2 dibenzothiazyl sulfide and mixtures thereof.

2,715,565  
**REACTOR FURNACES**

James B. McKay, Balmertown, Ontario, Canada, assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application June 26, 1951, Serial No. 233,579  
3 Claims. (Cl. 23—277)



1. In a reactor for the contacting of finely-divided solids and gases under solids fluidizing conditions, which comprises an enclosed chamber having a gas outlet in its upper section and a gas inlet in its lower section as well as a substantially horizontal partition with gas conducting apertures therethrough dividing the chamber into an upper and a lower compartment where the upper compartment is adapted to contain a bed of finely-divided solids supported by the horizontal partition, means for supplying solids to the upper compartment, means for supplying gas to the gas inlet to pass upwardly through the apertures of the partition into and through the upper compartment at solids fluidizing velocities, and means for conducting solids from the upper compartment to a point remote from both compartments; the improved means for retaining solids in the upper compartment dur-

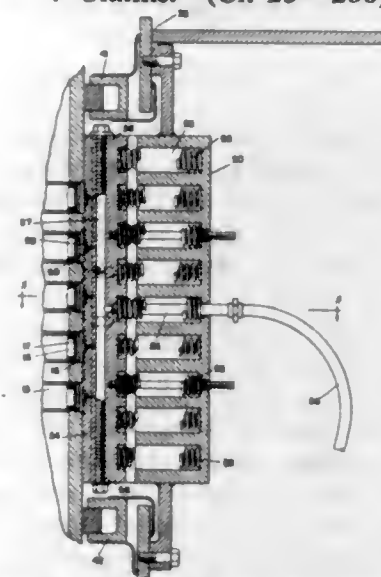
ing periods of solids defluidization, which comprises solids supporting surfaces open to the atmosphere of the lower compartment and located one directly subjacent to each of the gas apertures of the partition, said surfaces having dimensions greater than the diameter of the bases of cones formed as solids spill through the apertures to build up on the supporting surfaces with the apices of such cones extending to the apertures from which it solids spill.

2,715,566

**ROTATABLE GAS CONTACTING APPARATUS**

John F. McKinney, Jr., and Maurice L. Webster, Jr., Swarthmore, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application November 20, 1953, Serial No. 393,446  
7 Claims. (Cl. 23—288)



1. In a converter in which an annular reaction vessel containing transversely extending catalytic chambers is continuously rotatable, the herein described means for feeding a single liquid reactant to the catalyst chambers, the same comprising a stationary distributor support, a distributor carried by, and having a sliding fit with, said support, means constantly pressing the distributor against the wall of the rotary reaction vessel, the distributor having a vertically extending distributing passage and radially extending passages all constantly communicating with said distributing passage for simultaneous individual communication with the catalyst chambers, and a conduit communicating with said distributing passage for supply said liquid reactant thereto.

2,715,567

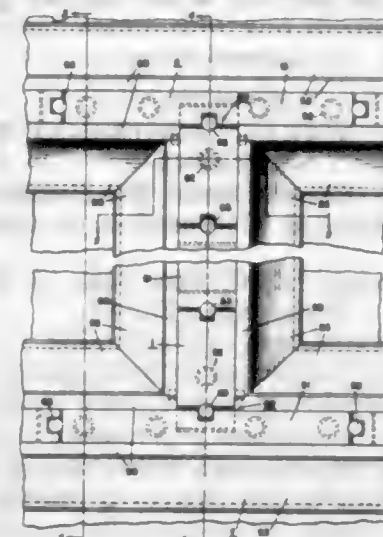
**ROTARY CONVERTER SEALING DEVICES**

Clarence H. Thayer, Wallingford, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 24, 1954, Serial No. 412,230  
11 Claims. (Cl. 23—288)

1. A converter in which different fluids are fed successively into catalyst containers and from which the different products are successively removed, the same comprising a fixed outer cylindrical casing, a fixed inner cylindrical casing, an annular revoluble reaction vessel containing a multiplicity of catalyst chamber arranged around the vessel's circumference and each extending generally radially within the vessel, said vessel being located between the inner and outer casings and spaced from both to form inner and outer circumferential spaces partitioned by vertically and circumferentially extending sealing devices between the annular revoluble reaction vessel and the casings to form sets of inner and outer arcuate spaces, the arcuate spaces of one set adapted to receive the respective fluids, and the arcuate spaces of the other set adapted to receive the effluent fluids; the improvement in said sealing devices which comprises a holder of channel-bar shape supported from one of the

casing walls and open toward the opposing face of the annular revoluble vessel, and a sealing block supported in and slidable radially of the holder, the above specified



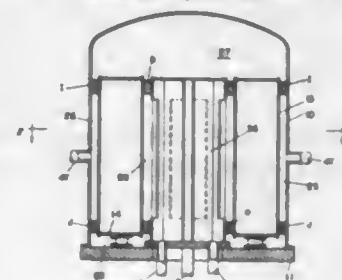
support for the holder comprising plates each sealed at one end to the casing and extending toward and secured to opposite sides of the holder.

2,715,568

**ROTARY CONVERTER SEALING DEVICES**

Clarence H. Thayer, Wallingford, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application June 3, 1954, Serial No. 434,237  
2 Claims. (Cl. 23—288)



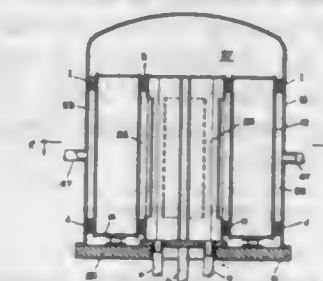
1. In a converter in which different fluids are fed successively into catalyst containers and from which the different products are successively removed, the same comprising a fixed outer cylindrical casing, a fixed inner cylindrical casing, an annular revoluble reaction vessel containing a multiplicity of catalyst chambers arranged around the vessel's circumference and each extending generally radially within the vessel, said vessel being located between the inner and outer casings and spaced from both to form inner and outer circumferential spaces partitioned by vertically and circumferentially extending sealing devices to form sets of inner and outer arcuate spaces, the arcuate spaces of one set adapted to receive the respective fluids, and the arcuate spaces of the other set adapted to receive the effluent fluids; the improvement in any of said sealing devices which comprises spaced-apart bars secured to one of the casings, a holder extending between the bars, the opposite ends of which underlie and are secured to the bars and forming with said bars and the casing an enclosure, a sealing block carried by and closely filling the holder but capable of sliding movement perpendicular to the adjacent wall of the reaction vessel, there being a passage, adapted for connection with a source of pressure fluid, opening into said enclosure, the holder having an orifice affording fluid communication between said enclosure and the space between the holder and the inner face of the sliding block, said pressure fluid thereby acting to maintain the block in sealing contact with the wall of the reaction vessel and blocking leakage, from either of the arcuate spaces on opposite sides of the sealing device, between the opposed faces of the holder and sealing block.

2,715,569

**ROTARY CONVERTER SEALING DEVICES**

John F. McKinney, Jr., Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application June 3, 1954, Serial No. 434,290  
12 Claims. (Cl. 23—288)



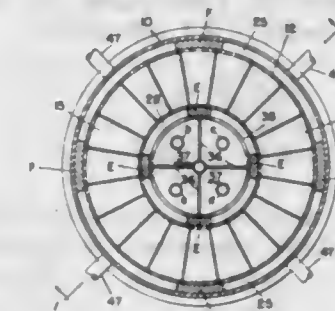
1. In a converter in which different fluids are fed successively into catalyst containers and from which the different products are successively removed, the same comprising a fixed outer cylindrical casing, a fixed inner cylindrical casing, an annular revoluble reaction vessel containing a multiplicity of catalyst chambers arranged around the vessel's circumference and each extending generally radially within the vessel, said vessel being located between the inner and outer casings and spaced from both to form inner and outer circumferential spaces partitioned by vertically and circumferentially extending sealing devices to form sets of inner and outer arcuate spaces, the arcuate spaces of one set adapted to receive the respective fluids, and the arcuate spaces of the other set adapted to receive the effluent fluids; the improvement in any of said sealing devices which comprises a holder between the casing and the reaction vessel, the holder having side arms extending toward the reaction vessel and imparting to the holder a channel-bar shape, a pair of spaced-apart sealing blocks within the holder, the sealing blocks being shaped at their outer ends to engage said side arms and at their outer faces to engage the wall of the reaction vessel, springs between the holder and the sealing blocks pressing the latter against the wall of the reaction vessel, and a spring between the sealing blocks pressing the latter against the side arms of the holder.

2,715,570

**ROTARY CONVERTER SEALING DEVICES**

Nelson F. King, Wilmington, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application June 3, 1954, Serial No. 434,296  
8 Claims. (Cl. 23—288)



1. In a converter in which different fluids are fed successively into catalyst containers and from which the different products are successively removed, the same comprising a fixed outer cylindrical casing, a fixed inner cylindrical casing, an annular revoluble reaction vessel containing a multiplicity of catalyst chambers arranged around the vessel's circumference and each extending generally radially within the vessel, said vessel being located between the inner and outer casings and spaced from both to form inner and outer circumferential spaces partitioned by vertically and circumferentially extending sealing devices to form sets of inner and outer arcuate



spaces, the arcuate spaces of one set adapted to receive the respective fluids, and the arcuate spaces of the other set adapted to receive the effluent fluids; the improvement in any of said sealing devices which comprises spaced-apart bars secured to one of the casings, spaced apart holders secured to the respective bars, a diaphragm each of its opposite ends being secured between a bar and the holder, a sealing block between and closely fitting the holders but slidable toward either casing, the central part of the diaphragm being secured to and carrying the sealing block, the latter contacting with the rotatable reaction vessel.

2,715,571

# PROCESS OF DEVELOPING FINGERPRINTS

Svante Oden, Uppsala, Sweden

No Drawing. Application September 27, 1954, Serial No. 458,709

15 Claims. (Cl. 41-41)

1. A process of treating paper and the like material to develop latent fingerprints occurring thereon, which comprises treating the material with an indicator selected from the group consisting of amino acid and protein indicators.

2,715,572

# CAMPHORIC ACID SALTS AS INHIBITORS FOR WATER SOLUBLE FUELS

Karl F. Hager, Huntsville, Ala., and Morris Rosenthal, Alexandria, Va., assignors, by direct and mesne assignments, to the United States of America as represented by the Secretary of the Army

No Drawing. Application September 13, 1951, Serial No. 246,522

7 Claims. (Cl. 44-55)

2. A corrosion inhibited fuel comprising water in an amount up to about 50% by weight of the total, a combustible water-soluble organic liquid of low molecular weight selected from the group consisting of ethanol and acetone, the water being present in an amount constituting a substantial proportion of the total, and a neutral salt forming about 0.1% by weight of the total, said salt being selected from the group consisting of alkali metal salts of camphoric acid and ammonium salts of camphoric acid.

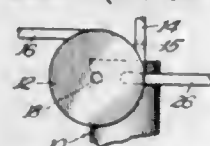
2,715,573

# METHOD FOR GASIFYING COAL

Elmore S. Pettyjohn, Evanston, and Claus G. von Fredersdorff, Roselle, Ill., assignors to The Institute of Gas Technology, Chicago, Ill., a corporation of Illinois

Application May 27, 1950, Serial No. 164,692

6 Claims. (Cl. 48-206)



1. A continuous method of gasifying coal at a high throughput rate which comprises suspending granular coal in a stream of flowing gas, passing said suspension through a restriction to produce an instantaneous pressure drop of at least 15 pounds per square inch to shatter the coal particles, immediately confining said suspension of shattered particles in a cylindrical, axially-limited space and incorporating therewith additional gas capable of reacting with the coal while forming said suspension into a vortex to completely intermix the reactants and further comminute said particles so that at least 80% will pass a 100 mesh screen and at least 50% will pass a 200 mesh screen, axially discharging continuously the comminuted particles from the center of said vortex into a reaction chamber, incorporating with said discharged suspension free oxygen-containing gas in an amount sufficient to provide from 0.5 to 1.0 pound of

total free oxygen per pound of coal to gasify the coal particles with the formation of ash, maintaining the temperature of said reaction chamber above the slagging temperature of the ash and separating the gas from the slag.

2,715,574

# PROCESS OF MAKING SPHERICAL POWDER GRAINS

Gilbert R. Cox, Creve Coeur, Mo., assignor to Olin Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application June 14, 1951, Serial No. 231,647

14 Claims. (Cl. 52-20)

1. In the manufacture of powder grains by dispersing globules of smokeless powder base lacquer in a non-solvent medium, the process of reducing the quantity of non-solvent medium dispersed within said globules which comprises including in the lacquer a volatile liquid non-solvent diluent which is substantially miscible with the lacquer solvent and substantially immiscible with the non-solvent medium.

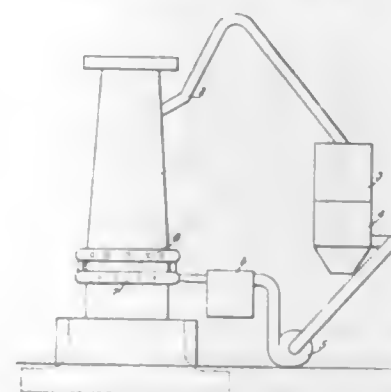
2,715,575

# METHOD OF TREATING IRON ORE BLAST FURNACES

Jay Gould Coutant, Phoenixville, Pa., assignor to Barium Steel Corporation, New York, N. Y., a corporation of Delaware

Application May 7, 1953, Serial No. 353,615

2 Claims. (Cl. 75-41)



1. The method of operating a blast furnace in the manufacture of iron from iron ore which comprises injecting a blast gas comprising at least about 25% of oxygen into the high temperature zone of a blast furnace to burn and heat coke therein to incandescence; injecting water vapor into the high temperature zone of the blast furnace, reacting the water vapor with incandescent coke therein to produce carbon monoxide and hydrogen, reducing iron ore in said blast furnace by means of said carbon monoxide and hydrogen, the proportion of water vapor to oxygen injected into the blast furnace maintaining the temperatures in the blast furnace at blast furnace operating levels, removing the resulting blast furnace gas from the top of said blast furnace, adding water vapor to said gases and recirculating said gases to the blast furnace for further injection thereof into the blast furnace.

2,715,576

# AGE HARDENING ALLOY STEEL OF HIGH HARDENABILITY AND TOUGHNESS

Peter Payson, New York, and William George Johnson, Bronxville, N. Y., assignors to Crucible Steel Company of America, Pittsburgh, Pa., a corporation of New Jersey

No Drawing. Application April 21, 1954, Serial No. 424,757

15 Claims. (Cl. 75-124)

1. An age hardenable alloy steel characterized in being hardenable to a minimum of Rockwell "C" 35 on ag-

ing for about 15 hours at 900° to 1000° F., and in having a V-notch Izod impact value of at least ten foot pounds in the age hardened condition, said steel containing about: 2.5 to 6% nickel; 0.8 to 3% aluminum; up to 2% each of molybdenum, manganese, and chromium; up to about 1% silicon; 0.1 to 0.55% carbon; at least one element selected from the group consisting of 0.1 to 2% vanadium, 0.2 to 3% columbium, 0.2 to 6% tantalum, and 0.1 to 2% titanium; up to 5% of other elements which do not impair the hardening and toughness properties of the steel; and the balance iron.

2,715,577

# COPPER-BASE ALLOYS

Ronald James Malcolm Payne, New Malden, and Alfred William Owen Webb, Brockley, London, England, assignors to J. Stone &amp; Company (Charlton) Limited, London, England, a British company

No Drawing. Application July 9, 1952, Serial No. 297,976

Claims priority, application Great Britain July 24, 1951 1 Claim. (Cl. 75-162)

An aluminum bronze containing not less than 6½% nor more than 9% aluminum, and manganese in an amount corresponding approximately to a manganese to aluminum ratio of 1.6 to 1, 1.5 to 6% nickel, 2 to 4% iron, the rest being essentially copper, the said bronze having an alpha-beta microstructure with minor quantities of other microstructural constituents, and the said bronze having a melting point of about 960° C.

2,715,578

# PHOTOMECHANICAL REPRODUCTION

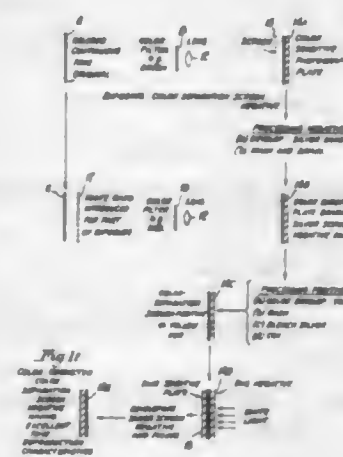
Donald Charles Gresham, London, England, assignor to McCordquodale Company Limited, London, England, a British company

Application January 15, 1951, Serial No. 206,119

Claims priority, application Great Britain

February 8, 1950

11 Claims. (Cl. 95-5.1)



1. Process for the production of screen positives for use in the production of screen negatives for the half-tone block and bi-metal litho processes which comprises exposing a photographic element having an emulsion of high contrast behind a half-tone screen to light from an original subject, developing the screen latent image obtained to a gamma of at least approximately 2.5 in a developer giving only a silver image, reversal exposing the element to light incident on the same side thereof as the original exposure, re-developing the element in an aromatic primary amino developing agent in the presence of a colour former which couples with the oxidation products of such developer formed during development to form a dye image in situ with the developed positive silver image, said development being such as to yield a dye image with a gamma value of at least approximately 2.5, and removing silver and silver salts from the product.

697 O. G.—26

2,715,579

# PREPARATION OF PRE-COOKED RICE

Robert L. Roberts, Walnut Creek, Calif., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application February 3, 1953, Serial No. 334,989

3 Claims. (Cl. 99-80)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process of preparing dry, pre-cooked white rice in the form of porous, expanded, readily rehydratable grains which comprises soaking raw white rice in water until its moisture content is about from 25 to 35%, heating the soaked rice to completely gelatinize the starch content of the grains without substantial increase in the moisture content thereof, drying the gelatinized grains to a moisture content about from 8 to 14%, and then expanding the dried grains at an elevated temperature.

2,715,580

# CEREAL COMPOSITION FOR MOIST BATTERS AND DOUGHS AND METHOD OF MAKING THE SAME

Chastain G. Harrel and Howard W. Lincoln, Minneapolis, Minn., assignors to Pillsbury Mills Inc., Minneapolis, Minn., a corporation of Delaware

No Drawing. Application July 5, 1951, Serial No. 235,374

6 Claims. (Cl. 99-94)

1. A prepared, moist reconstituted cereal flour composition adapted to withstand starch liquefaction during storage periods, containing shortening material, a leavening ingredient and dried comminuted protein food products and including a substantial proportion by weight of a mixture of natural wheat flour and a replacement supplemental wheat flour product, said product being reconstituted and containing essentially only a mixture of dried, comminuted discrete wheat starch substantially free of diastatic enzymes of small, broken starch cells and a smaller proportion of dry, comminuted, undenatured gum gluten, said ingredients being intimately admixed with a quantity of water equal at least to the volume of said ingredients in dried state.

2,715,581

# PRODUCTION OF MAPLE SUGAR PRODUCTS HAVING ENHANCED FLAVOR

Charles O. Willits, North Hills, and William L. Porter, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 21, 1952, Serial No. 321,958

3 Claims. (Cl. 99-142)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A process for producing high-flavored maple products which comprises concentrating maple sap to about 65% solids by vacuum evaporation at a temperature below about 105° F. to produce a bland sirup, then further concentrating the resulting bland sirup to about 90% solids by boiling at atmospheric pressure, then maintaining the temperature in the range 225 to 260° F. for a time sufficient to produce enhancement of the maple flavor.

2,715,582

# PROCEDURE FOR TREATING PRODUCTS TO PREVENT DETERIORATION

Henry C. Marks, Glen Ridge, and Frede B. Strandkov, Clifton, N. J., assignors to Wallace &amp; Tiernan Company, Inc., a corporation of New Jersey

No Drawing. Application February 15, 1950, Serial No. 144,384

14 Claims. (Cl. 99-154)

1. In procedure for treating natural, grown products of vegetable origin to inhibit deterioration thereof, the



steps of establishing on the product a distributed quantity of iodide, and treating said product with a non-corrosive, oxidizing gas for reaction with said iodide to release iodine in available form, on the product, said oxidizing gas being applied from a source external to the product.

2,715,583

# AGGREGATE COMPOSITION OF GRANULATED SLAG AND EXPANDED VERMICULITE

George E. Ziegler, Evanston, Ill., assignor to Zonolite Company, Chicago, Ill., a corporation of Montana  
No Drawing. Application December 3, 1952,  
Serial No. 323,923

7 Claims. (Cl. 106—110)

7. A gypsum plaster consisting essentially of about 2½ cubic feet of aggregate per 100 pounds of gypsum plaster binder, said aggregate consisting essentially of from 20 to 60% by volume of a granulated cellular furnace slag having a dry density of between 12 and 40 pounds per cubic foot and from 80 to 40% by volume of expanded vermiculite having a dry density of less than about 15 pounds per cubic foot.

2,715,584

# FILM CASTING DEVICE AND PROCESS OF MAKING THE SAME

William B. Horback, Irvington, and Walter D. Paist, Berkley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application May 9, 1952,

Serial No. 287,052

16 Claims. (Cl. 117—5.1)

2. In a process for the treatment of a film-casting member having thereon a coating of a film-forming substitution derivative of cellulose, the film-casting surface layers of which have been converted to regenerated cellulose, the step which comprises cross-linking the regenerated cellulose to produce a hard shiny surface having reduced sensitivity to water as compared with an uncross-linked regenerated cellulose.

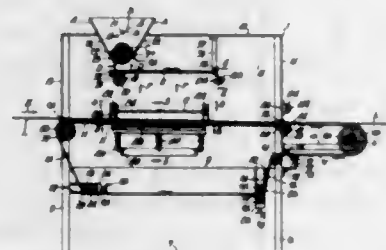
2,715,585

# ELECTROSTATIC FLOCKING PROCEDURES AND APPARATUS

Samuel M. Schwartz and Daniel Gross, Paterson, N. J., assignors to Ververay Corporation, New York, N. Y., a corporation of New York

Application March 15, 1951, Serial No. 215,726

26 Claims. (Cl. 117—17)



10. A method of flock printing fabrics which comprises passing a fabric while depositing flock thereon between two metal plates, said plates being arranged one above the other and the upper plate being an open grille-work both of which metal plates are subjected to a high alternating voltage, said fabric and metal plates being positioned horizontally and said metal plates serving as high potential static charge electrodes and said flock being screened above said upper electrode and being caused to pass through the interstices of said upper electrode onto said fabric.

2,715,586

# METHOD OF COATING A MICA BASE WITH MAGNESIUM HYDROXIDE

Walter Frederick Lawrence, Jr., Nutley, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application August 30, 1951,

Serial No. 244,468

7 Claims. (Cl. 117—62)

1. Method of coating a mica insulator with magnesium hydroxide to reduce leakage paths across said insulator, said method comprising spraying an aqueous dispersion of magnesium hydroxide on said insulator to provide a coating thereon, firing said coating at a temperature above 325° C. and until the coated insulator reaches said temperature at least instantaneously, to transform at least a portion of said coating to magnesium oxide, water wetting until substantially saturated said fired coating to retransform at least a portion of said magnesium oxide to magnesium hydroxide, and drying said wetted coating at a moderate temperature below 325° C., whereby said coating is resistant to separation from said insulator during dry handling and washing in water.

2,715,587

# PROCESS FOR OBTAINING A PRODUCT HAVING A LEATHER-LIKE, TEXTURED FINISH

James D. Armitage, South Orange, Crittenden Bliss, Montclair, and Delton Ezell, West Orange, N. J., assignors to John L. Armitage & Co., Inc., Newark, N. J., a corporation of New Jersey

No Drawing. Application July 8, 1953,

Serial No. 366,862

10 Claims. (Cl. 117—63)

1. A process for obtaining a tough, leather-like, textured finish, which comprises forming a layer with a composition containing at least one resinous material in substantially unsolvated dispersed form and in dissolved form, the amount of said dissolved resin being sufficient to avoid mud-cracking, applying to said layer an organic, oxygenated resin solvent to form a leather-like, textured finish, and fusing said layer while retaining said textured finish.

2,715,588

# LEATHERLIKE PRODUCTS AND PREPARATION OF SAME

Boynton Graham, Claymont, Del., and John Augustus Piccard, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 16, 1952,

Serial No. 326,360

12 Claims. (Cl. 117—65)

1. A leather-like product essentially comprising, by weight, 40% to 85% of matted, oriented fibers of a synthetic linear condensation polymer from the group consisting of polyamides, polyesters, polyester-amides in the molecular structure of which there are solely hydrocarbon groups between the functional groups, said fibers being from 0.5 to 4.0 inches long, from 1 to 3 denier/filament, and softening above 150° C., and, distributed throughout, 60% to 15% of a polymeric binder in which the polymeric component is a vinylidene polymer, said polymeric binder being incompatible with said linear condensation polymer and melting above 90° C. and at least 10° C. below the softening temperature of said linear condensation polymer, said product containing a volume percent of interconnecting void space distributed throughout at least equal to 3000 (weight percent fiber)—1—30 and not greater than 70%.

2,715,589

# METALLIC IMPREGNATION OF POROUS METAL

Guy Benjamin Smith, Kent, Ohio, assignor to Ferro Powdered Metals, Inc., a corporation of Ohio  
No Drawing. Application October 26, 1951,  
Serial No. 253,477

1 Claim. (Cl. 117—131)

The method of impregnating a porous metal part with another metal alloyable therewith and of lower melting point comprising: briquetting the impregnant metal with non-metallic solid material inert as to both said metals beyond said melting point to provide a briquetted part having a face adapted for contact with a face portion of said porous metal part, disposing the resultant briquetted part upon said porous metal part to be supported thereby in face to face contacting relation thereto, raising the temperature of the parts sufficiently to cause said impregnant metal to migrate as a liquid from the briquetted part into the porous metal part by way of said faces while maintaining the support of said inert material by said contacting relation, and removing the residual inert material from the resultant impregnated part.

2,715,590

# PROCESS FOR SIZING NYLON YARN

Francis Joseph Brockman and Owen Clement Wentworth Allenby, McMasterville, Quebec, Canada, assignors, by mesne assignments, to Du Pont Company of Canada Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application November 24, 1952,

Serial No. 322,366

6 Claims. (Cl. 117—138.8)

1. A process for sizing nylon yarn which comprises impregnating said yarn with a dilute aqueous solution of the ammonium salt of an hydrolyzed copolymer of vinyl acetate and crotonic acid having the empirical formula



wherein x, y and z are numbers, the ratio of y plus z to x being within the range of from about 5.5:1 to 19:1 and the ratio of y to z being at least 1:5.5.

2,715,591

# SHEET MATERIAL

Boynton Graham, Claymont, Del., and John Augustus Piccard, Swarthmore, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 16, 1952,

Serial No. 326,359

10 Claims. (Cl. 117—138.8)

10. Sheet material comprising, by weight, 20% to 85% of matted, undrawn but cold-drawable fibers of a synthetic linear condensation polymer from the group consisting of polyamides, polyesters, and polyester-amides in the molecular structure of which there are solely hydrocarbon groups between the functional groups and, distributed therethrough, 80% to 15% of an extensible polymeric binder in which the polymeric component is a vinylidene polymer, said polymeric binder being incompatible with said linear condensation polymer and melting at least 10° C. below the softening temperature thereof.

2,715,592

# CONTROL OF STATIC ELECTRICITY WITH POLYMERIC BETA-PROPIOLACTONE

Harold P. Lundgren and Charles H. Binkley, Berkeley, and Andrew S. Yeiser, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application December 12, 1952,

Serial No. 325,743

2 Claims. (Cl. 117—139.5)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a process wherein wool is subjected to rubbing contact with a metal object, the improvement which

comprises coating the wool with polymeric beta-propiolactone prior to such contact whereby to reduce the ability of the wool to form an electrostatic charge.

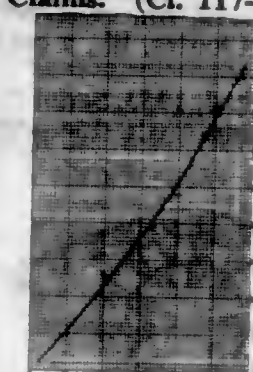
2,715,593

# METHOD OF PROVIDING A CERAMIC BASE WITH A COATING OF BLUE TITANIA AND ARTICLE PRODUCED THEREBY

Collin H. W. Clark, Stourport-on-Severn, England, assignor to Steatite and Porcelain Products Limited, a corporation of Great Britain

Application September 6, 1950, Serial No. 183,382

13 Claims. (Cl. 117—215)



1. A ceramic electrical base having a conducting coating provided on at least part of its surface, the effective conducting constituent of the said coating consisting essentially of blue titania, said constituent being protected from oxidation by a substantially impermeable cover glaze that matures at a temperature above that at which titania is converted to its conducting blue titania form.

2,715,594

# METHOD OF CLEANING ASPHALT TANKS

Charles W. Garrison, Fort Mitchell, Ky., assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application August 26, 1952,

Serial No. 306,493

1 Claim. (Cl. 134—22)

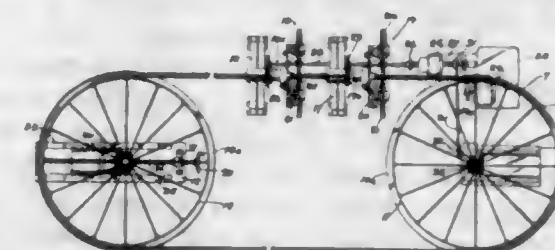
A method of cleaning a tank used for the conversion of petroleum residuum to asphalt to remove a hard solidified layer of material which has accumulated as a result of said conversion on the interior of the tank and which is solid at asphalt liquifying temperatures, which comprises introducing into the tank a layer of a hydrocarbon fraction boiling generally within the range of 350 to 600° F. and blowing live steam below the hydrocarbon layer toward the solidified layer of material on the tank, continuing the steam blowing for a period of from a few hours to a week until the material has been separated from the tank surface, and withdrawing from the tank the hydrocarbon and the water from the condensed steam together with the separated material.

2,715,595

# MANUFACTURE OF INSULATED ELECTRIC CABLES

David C. Prince, Schenectady, N. Y.  
Application March 12, 1954, Serial No. 415,908

2 Claims. (Cl. 154—2.27)



1. In the manufacture of insulated electric cable having a conducting core and layers of tape wrapped around



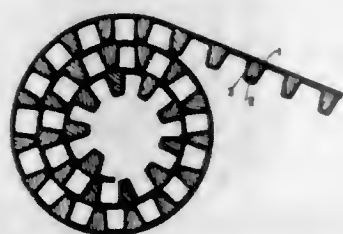
the core, the improvement which comprises forming a closed loop of said core, making a first pass of the looped core in an endless path through a wrapping zone while winding at least one layer of tape around the core in said zone, making a second pass of the core through said zone to wind at least one more tape layer around the core, and cutting the wrapped loop to form a length of insulated cable.

2,715,596

## SHEET MATERIAL AND METHOD FOR THE MANUFACTURE THEREOF

Don M. Hawley, Geneva, Ill., assignor to Hawley Products Company, St. Charles, Ill., a corporation of Delaware

Application July 7, 1953, Serial No. 366,482  
8 Claims. (Cl. 154—90)



1. A rollable material comprising a resinous sheet material of sufficient flexibility to be wound into a roll, permanently united on one surface only to spaced apart, substantially parallel, substantially rigid elongated members extending only transversely of the direction in which said sheet material is to be wound, said elongated members each having a plurality of surfaces, one of which is adherently secured to said surface of said sheet material, the opposite surface of said sheet material being a hard, wear-resistant, impervious resinous surface which is resistant to stains, easily cleaned and not damaged by washing with soap and water, and the spacing between said elongated members being sufficient to permit said sheet material to be wound into a roll.

5. A method of making a re-enforced sheet material capable of being wound into a roll which comprises permanently uniting to one side only of a resinous sheet material of sufficient flexibility to be wound into a roll transversely of the direction in which said sheet material is to be wound, substantially parallel, substantially rigid, elongated members, said elongated members each having a plurality of surfaces, one of which is secured to said surface of said sheet material, and spacing said elongated members a sufficient distance apart to permit said sheet material to be wound into a roll.

2,715,597

## PROCESS FOR MAKING HEAT SEALED RUFFLED ARTICLES

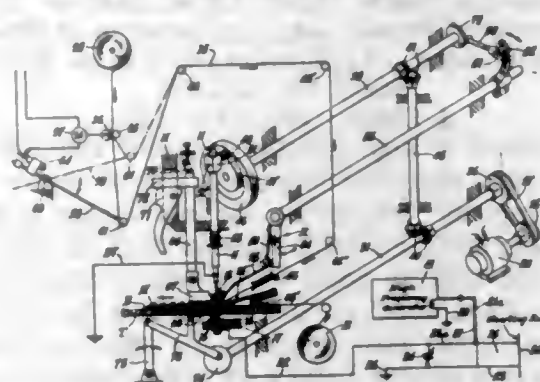
Lee C. Hosfield, Parma, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application October 18, 1950, Serial No. 190,802, now Patent No. 2,666,472, dated January 19, 1954, which is a division of application Serial No. 714,832, December 7, 1946, now Patent No. 2,555,409, dated June 5, 1951. Divided and this application June 26, 1953, Serial No. 364,367

6 Claims. (Cl. 154—117)

1. Process for producing a permanent ruffled article from a sheet-like element of a thermoplastic dielectric material, which comprises intermittently feeding successive increments of such a sheet-like element to and through a spot-welding zone while forming in each such increment a folded area interconnected with and closely spaced from the folded area previously formed and, immediately following the formation of each folded area, permanently welding together under action of heat and pressure each

of the respective sides of such folded area and one side of a next adjacent folded area then being formed in at



least one limited spot welding zone lying within the folded area already formed.

2,715,598

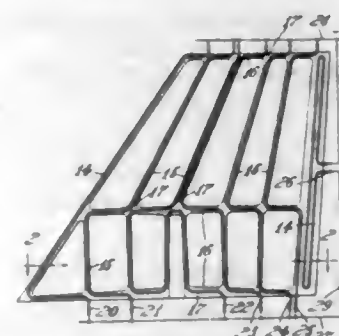
## METHODS OF JOINTING SURFACES BY HEAT-HARDENING RESINS

John Rees and Harold John Pollard, Bristol, England, assignors to The Bristol Aeroplane Company, Limited, Bristol, England, a British company

Application December 7, 1953, Serial No. 396,552

Claims priority, application Great Britain December 16, 1952

15 Claims. (Cl. 154—126)



1. A method of assembling an assemblage comprising two fully cured heat-hardenable resin bonded mouldings, said mouldings each having a plurality of surfaces which are to be adhesively jointed each to a surface on the other moulding to form the assemblage, which method comprises introducing between each pair of surfaces a layer of heat-hardenable adhesive and between all said surfaces of one moulding and all said surfaces of the other moulding a plurality of thin strip-like electric conductors, said conductors being arranged with at least one conductor between each pair of said surfaces to be jointed and none of the conductors crossing any one of the conductors at any point, pressing said pairs of surfaces together and causing electric current to pass along all said conductors to generate sufficient heat to harden said heat-hardenable adhesive.

2,715,599

## METHOD OF MAKING INSECTICIDAL CALCIUM ARSENATE BATCH

John S. Les Veaux, Middleport, and Calvin M. Tidwell, Medina, N. Y., assignors to Food Machinery and Chemical Corporation, San Jose, Calif.

No Drawing. Application March 10, 1951,

Serial No. 215,030

5 Claims. (Cl. 167—15)

1. In the method of making insecticidal calcium arsenate by adding arsenic acid to an aqueous lime slurry in batch operation while the whole admixture is subjected to violent agitation, the improvement which comprises adding the arsenic acid to the lime in an amount insufficient to neutralize completely the lime in the batch and continuing such arsenic acid addition until the batch contains some unreacted lime which is less than 1% by weight of the original lime added and then adding to the

slurry sufficient amount of an aqueous solution of a water soluble weakly acidic salt of a metallic ion other than calcium and having a valence greater than one to produce in the slurry a pH between 7.5 and 12 and then adding additional increments of such salt solution until the pH of the batch remains constant for one-half hour in that range.

2,715,600

## N,N'-(3-NITRO-BENZENE-SULFONYL)ETHYLENE-DIAMINE COMPOSITIONS FOR THE TREATMENT OF COCCIDIOSIS

Thomas W. Zbornik, Neal F. Morehouse, and Arthur W. Walde, Charles City, Iowa, assignors to Dr. Salsbury's Laboratories, Charles City, Iowa, a corporation of Iowa

No Drawing. Application February 24, 1953,

Serial No. 338,566

2 Claims. (Cl. 167—53.1)

1. A medicated feed effective in the control of coccidiosis in chickens, containing N,N'-(3-nitro-benzene-sulfonyl)ethylenediamine as the active ingredient.

2,715,601

## LACTASE ENZYME PREPARATION

Elliott R. Morgan, Bay Shore, N. Y., assignor to National Dairy Research Laboratories, Inc., Oakdale, N. Y., a corporation of Delaware

No Drawing. Application June 17, 1953,

Serial No. 362,393

4 Claims. (Cl. 195—67)

1. A process for the recovery of an improved lactase-active, zymase-inactive enzyme preparation which comprises treating a lactase-active yeast of a lactase-producing strain with ethyl alcohol in an amount ranging from about 1.5 to about 3.6 times the weight of yeast solids until a substantial proportion of the viable organisms have been killed and drying the yeast to recover a lactase-active, zymase-inactive product.

2,715,602

PROCESS FOR THE MANUFACTURE OF VITAMIN B<sub>12</sub>

Robert E. Hargrove, Alexandria, Va., and Abraham Leviton, Washington, D. C., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application August 31, 1951,

Serial No. 244,686

10 Claims. (Cl. 195—96)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. A process for the production of vitamin B<sub>12</sub> comprising inoculating bacteria of the genus Propionibacterium in a growth medium containing cobalt.

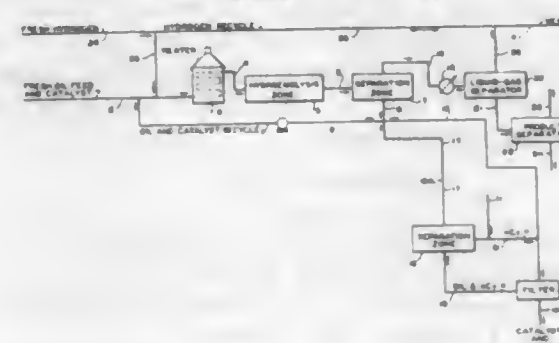
2,715,603

## HYDROGENOLYSIS PROCESS UTILIZING SUSPENDED CATALYST

William C. Lanning and Reagan T. Wilson, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application September 30, 1952, Serial No. 312,262

11 Claims. (Cl. 196—53)



1. In a process in which a hydrocarbon oil having an initial boiling point higher than 400° F. is subjected to

hydrogenolysis in the presence of a suspended hydrogenolysis catalyst, the improvement which comprises the following steps in combination: subjecting a total hydrogenolysis product to gas-liquid separation to produce a gaseous phase and a liquid phase containing a suspended catalyst, adding to said liquid phase from 0.5 to 2 volumes per volume of said liquid phase of a predominantly paraffinic hydrocarbon having from 4 to 9 carbon atoms per molecule, thereby precipitating asphaltenes and other carbonaceous impurities, removing solids from the system, recovering a solid-free oil and recycling a heavy fraction of said oil, free of precipitated asphaltenes and carbonaceous impurities, to the hydrogenolysis step.

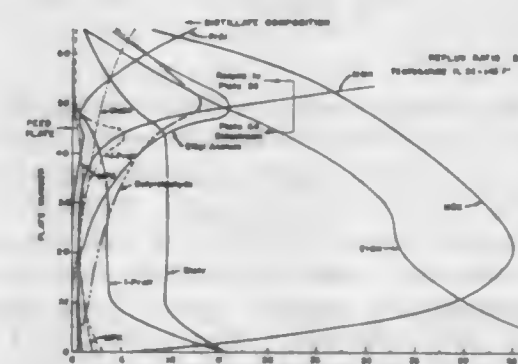
2,715,604

## RECOVERY OF PURE ETHANOL FROM HYDRO-CARBON SYNTHESIS PRODUCT

Joe C. Weaver, Jr., Brownsville, Tex., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application May 10, 1954, Serial No. 428,527

6 Claims. (Cl. 202—39)



4. In a process for obtaining spirit grade ethanol from an aqueous fraction produced in hydrocarbon synthesis involving the reduction of carbon monoxide with hydrogen in the presence of a fluidized iron catalyst, said fraction boiling from about 118° to about 215° F. and including butyraldehyde, ethanol, methyl ethyl ketone and methanol, the steps which comprise introducing said fraction at an intermediate level in a distillation column having a stripping zone and a rectification zone, withdrawing liquid from a point in said column ranging from about 10 plates above to approximately 15 plates below said intermediate level, the quantity of said liquid withdrawn amounting to not more than about 10 per cent of said aqueous fraction, returning said liquid to said rectification zone above the level at which said liquid was withdrawn, maintaining the temperature within the column at the level where said liquid is returned thereto at a value of from about 144° to about 150° F., and withdrawing a bottoms fraction containing ethanol substantially free of methanol.

2,715,605

## PREVENTION OF CORROSION OF FERROUS METALS BY ALKANOLAMINES

Joseph K. Goerner, Austin, Tex., assignor to Jefferson Chemical Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 2, 1952,

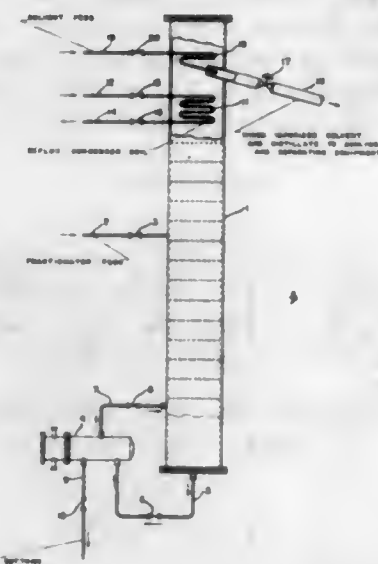
Serial No. 296,961

9 Claims. (Cl. 202—57)

5. A process of minimizing the corrosion of a steel still in which a mixture of lower alkanolamines is subjected to distillation, which comprises adding to the stream of said lower alkanolamines introduced into the still from 0.01% to 1% of an antimony oxide by weight based on the weight of the alkanolamines.

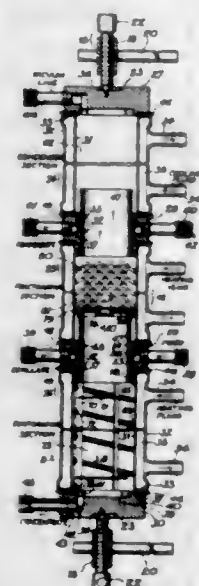


**2,715,606**  
**SOLVENT TREATMENT OF VOLATILE IN THE FRACTIONATION OF NORMALLY SOLID MATERIALS**  
 Henry W. Grote, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware  
 Application October 2, 1952, Serial No. 312,774  
 5 Claims. (Cl. 202-66)



1. In the recovery of a normally substantially solid component from a mixture thereof with a higher boiling material, the method which comprises introducing the mixture to a vertically elongated fractionating zone, applying heat to the lower portion of said zone to vaporize said component from the mixture, cooling and partially condensing the resultant vapors in an intermediate portion of the fractionating zone to provide a refluxing medium for the fractionation, removing the remaining uncondensed vapors from the upper portion of said zone above the region of said cooling and partial condensation, commingling with the vapors being thus withdrawn a solvent for said component, subjecting the resultant mixture to condensation and separating said component from the solvent.

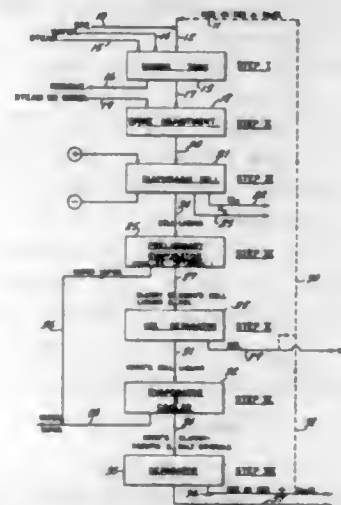
**2,715,607**  
**KNOCKDOWN DISTILLATION APPARATUS**  
 Royal Lee, Elm Grove, Wis., assignor to Lee Foundation for Nutritional Research, Milwaukee, Wis., a corporation of Wisconsin  
 Application September 22, 1949, Serial No. 117,129  
 5 Claims. (Cl. 202-153)



1. In a still, a columnar still assembly including aligned upper and lower column members and a plurality of separately mounted flow fittings one intermediate said column members and others at the upper end of said upper column member and at the lower end of said lower

column member, said lower column member forming an evaporating chamber and said upper column member forming a condensing chamber, said intermediate fitting forming a joint ring between said column members and having a feed inlet for liquid material to be distilled and further having a vapor passage between said chambers and a liquid outlet from the condensing chamber, said ring-forming intermediate fitting further having an annular portion projecting downwardly into said lower column member and provided with an outwardly facing peripheral liquid-receiving groove communicating with said feed inlet and disposed adjacent to the inner wall of said lower column member, and said lower fitting having a liquid outlet for said evaporating chamber.

**2,715,608**  
**ELECTROLYSIS OF AQUEOUS SOLUTIONS OF MIXTURES OF POTASSIUM AND SODIUM CHLORIDE**  
 Ferri Casciani, Lewiston, and Edward J. Lang, Grand Island, N. Y., assignors to Niagara Alkali Company, New York, N. Y., a corporation of New York  
 Application April 8, 1952, Serial No. 281,108  
 15 Claims. (Cl. 204-98)



1. A process for obtaining as separate products potassium chloride, chlorine, hydrogen and mixed sodium and potassium hydroxides from mixtures comprising substantial amounts of sodium chloride and potassium chloride, which comprises subjecting a cell feed brine, as anolyte, comprising an aqueous solution of sodium chloride and potassium chloride in proportions providing a mole ion ratio

$$\frac{\text{Na}^+}{\text{Na}^+ + \text{K}^+}$$

between 0.24 and 0.90 and the total concentration of both alkali chlorides being in excess of 5.5 moles per liter, to electrolysis carried approximately 40% to 60% of completion to obtain an aqueous catholyte having the same

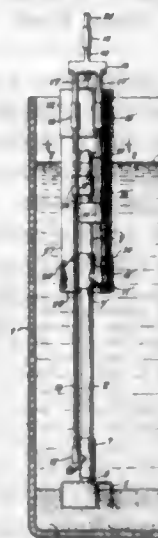
$$\frac{\text{Na}^+}{\text{Na}^+ + \text{K}^+}$$

mole ion ratio, concentrating the catholyte to within the range from about 45% to about 70% water to precipitate substantially pure potassium chloride and recovering a residual caustic alkali solution containing small amounts of unprecipitated  $\text{K}^+$  and  $\text{Cl}^-$  ions and in which the alkali is primarily sodium hydroxide.

**2,715,609**  
**VALVED AERATION DEVICE**  
 Thorwald H. Hansen, Rahway, N. J.  
 Application September 21, 1951, Serial No. 247,619  
 7 Claims. (Cl. 210-16)

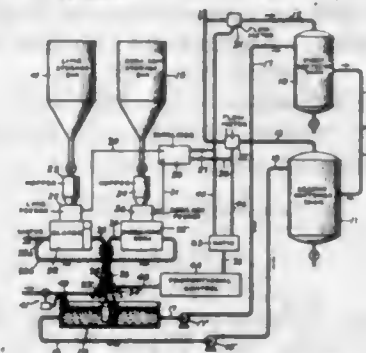
2. In an aeration device for tanks, a pipe adapted to extend below the level of liquid in said tank, an air tube extending along said pipe and entering the same at an

upward angle below said level, a second air tube extending along said pipe and entering the same at an upward angle at a different level, an air chamber above said pipe,



both of said air tubes being fixed to said chamber, said chamber being connected to a single source of air under pressure, and a valve in at least one of said air tubes.

**2,715,610**  
**PROPORTIONER FOR CHEMICAL FEED**  
 Kevin N. Thompson, Lakewood, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio  
 Application February 29, 1952, Serial No. 274,117  
 9 Claims. (Cl. 210-17)



1. In a system for combining materials, means supplying simultaneously a plurality of quantities of a first material, means for measuring each quantity, a single source of a second material, means responsive to a given total quantity of first material for supplying a predetermined quantity of the second material from the source, means for discharging said quantity of second material at a given rate and in a given time interval, and means responsive to said measuring means for directing the discharge of said second material selectively into the respective quantities of first material, the time of discharge into each quantity of first material being a function of the ratio between that quantity and the total quantity of first material.

**2,715,611**  
**AIR DEODORANT**  
 Lloyd E. Weeks, Union, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware  
 No Drawing. Application June 23, 1950,  
 Serial No. 170,061  
 3 Claims. (Cl. 252-1)

1. An air-deodorizing composition consisting of a solution, in a low-boiling chlorofluoromethane, of a hydroperoxide having the general formula



in which R is selected from the class consisting of alkyl and aralkyl radicals of from 4 to 18 carbon atoms, said

composition containing from 0.03 per cent to 1% of said hydroperoxide, and being maintained in the liquid state by super-atmospheric pressure.

**2,715,612**  
**LUBRICATING OIL COMPOSITION CONTAINING PHOSPHORUS SULFIDE HYDROCARBON REACTION PRODUCT**  
 Leonard E. Beare, Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine  
 No Drawing. Application April 25, 1951,  
 Serial No. 222,933  
 10 Claims. (Cl. 252-46.6)

1. A steam-treated, clear, oil compatible, unneutralized reaction product of a mineral oil bright stock and about 7 to 17 per cent phosphorus pentasulfide at about 400° to 500° F., from which insolubles have been separated at a temperature of about 150°-250° F. prior to steam-treatment.  
 2. A lubricating oil composition which consists essentially of a mineral oil base and sufficient to impart extreme pressure characteristics of a steam-treated, clear, oil compatible, unneutralized reaction product of a mineral oil bright stock and about 7 to 17 percent phosphorus pentasulfide at about 400° to 500° F., from which insolubles have been separated at a temperature of about 150°-250° F. prior to steam-treatment.

**2,715,613**  
**DEFOAMER**  
 Paul Gibson, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois  
 No Drawing. Application October 12, 1950,  
 Serial No. 189,897  
 4 Claims. (Cl. 252-321)

1. A method of abating foam produced by heating and agitating solutions and dispersions of foamable materials which comprises: adding to said solutions and dispersions an agent consisting essentially of a 5 to 10 percent by weight dispersion of pentaerythritol monostearate in a liquid media, in an amount to substantially inhibit foaming of the material.

**2,715,614**  
**DEFOAMING AGENT FOR PULP AND PAPER STOCK**  
 Clark E. Snook, East Orange, N. J., assignor to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey  
 No Drawing. Application March 31, 1949,  
 Serial No. 84,769  
 12 Claims. (Cl. 252-358)

1. A defoaming agent for pulp and paper stock consisting essentially of an aqueous emulsion made up of from about 3 parts to about 15 parts of a paraffin hydrocarbon containing at least 12 carbon atoms, from about 3 parts to about 15 parts of a partial ester of a polyhydric alcohol and a fatty acid having from 14 to 22 carbon atoms, from about 3 parts to about 15 parts of a fatty acid ester of a monohydric alcohol containing not more than 8 carbon atoms and a fatty acid containing from 14 to 22 carbon atoms, from about 3 parts to about 15 parts of an ester of a polyethylene glycol having a molecular weight of from about 200 to about 4000 and a fatty acid containing from 14 to 22 carbon atoms, and water with the amount of water in the emulsion not exceeding about 99.98% of the emulsion.



2,715,615

**PLASTIC COMPOSITIONS COMPRISING A VINYL CHLORIDE POLYMER AND A HIGH SOFTENING POINT-COAL TAR PITCH**

John M. De Bell, Longmeadow, and Mortimer H. Nickerson, Springfield, Mass., assignors to Orangeburg Manufacturing Co., Inc., Orangeburg, N. Y., a corporation of New York

No Drawing. Application September 3, 1952, Serial No. 307,717

7 Claims. (Cl. 260—28.5)

1. A thermoplastic resin composition, form stable at temperatures up to 140° F., comprising vinyl chloride polymer resin selected from the group consisting of polyvinyl chloride and the copolymers of vinyl chloride in which over 80% of the resin content of the copolymer is vinyl chloride, and a lesser amount of coal tar pitch having a softening point by the ball and ring method of at least 160° F. and fluid at the molding temperature of the resin, said pitch comprising the sole plasticizing agent present in the composition.

2,715,616

**ORGANIC COATING FOR WIRE**

Robert M. MacIntosh, Columbus, Ohio, assignor to the United States of America as represented by the Secretary of the Army

No Drawing. Application December 20, 1951, Serial No. 262,660

6 Claims. (Cl. 260—31.2)

5. A composition for forming a self-fluxing coating on a wire conductor consisting essentially of about 4 to 5% by weight of a resin selected from the group consisting of vinyl chloride-vinyl acetate polymer and vinyl chloride-vinylidene chloride co-polymer, about 4% by weight of a mixture consisting of 1 part by weight of lactic acid and 4 parts by weight of mannitol, and the remainder, a solvent selected from the group consisting of amyl acetate and a mixture consisting of 1 part by weight of toluene and 1 part by weight of methyl ethyl ketone.

2,715,617

**BEARING COMPOSITIONS CONTAINING POLYTETRAFLUOROETHYLENE**

Hobart S. White, Bethesda, Md., assignor to the United States of America as represented by the Secretary of the Navy

No Drawing. Application July 29, 1954, Serial No. 446,685

12 Claims. (Cl. 260—41)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. A bearing composition comprising a homogeneous compressed mixture of powdered tetrafluoroethylene resin and at least one metal of the group consisting of molybdenum, tungsten and mixtures thereof, the resin forming 10 to 60 percent by weight of the composition.

2,715,618

**RUBBER TREATMENT**

Kenneth W. Doak, Bloomfield, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 16, 1953, Serial No. 398,620

4 Claims. (Cl. 260—41.5)

1. A process which comprises mixing rubber with a relatively large amount of rubber-reinforcing carbon black and from 0.75 to 3 parts of lithium nitrate, calculated as anhydrous salt, per 100 parts of said rubber heating the mixture at a temperature of at least 275° F. but below that at which the rubber would be harmed, thereafter incorporating vulcanizing and other desired ingredients, shaping the mass, and vulcanizing the resulting shaped mass.

2,715,619

**PROCESS FOR MANUFACTURING ALKYLATED METHYLOL MELAMINES**

Tzeng-Jueq Suen, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 14, 1952, Serial No. 304,430

6 Claims. (Cl. 260—67.6)

1. A process for preparing water-soluble alkylated methylol melamine condensation products comprising reacting melamine and formaldehyde in a mixture of water and an aliphatic alcohol selected from the group consisting of methanol and ethanol, at a temperature between 50° C. and reflux at a pH between 7 and 12, wherein the mol ratio of said free alcohol to free water is between about 5:1 and 0.5:1, respectively, the mol ratios of said free alcohol to formaldehyde is between about 0.4:1 to 5:1, respectively, the mol ratio of melamine to formaldehyde is within the range of about 1:1.5 to 1:6, respectively, thereafter adding thereto additional aliphatic alcohol of the class selected to the sphere of reaction in an amount sufficient to bring the mol ratio of the total alcohol charged to the total water charged to at least about 2:1, respectively, heat reacting said mixture so as to effect substantially complete alkylation under acid conditions, and neutralizing the resultant syrup.

2,715,620

**LINEAR SUPERPOLYAMIDES OF 5-T-BUTYL-ISOPHTHALIC ACID**

Earl F. Carleton and Funston G. Lum, Richmond, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 29, 1953, Serial No. 389,176

2 Claims. (Cl. 260—78)

1. A linear superpolyamide of 5-t-butyl-isophthalic acid and an aliphatic diamine of 5 to 10 carbon atoms.

2,715,621

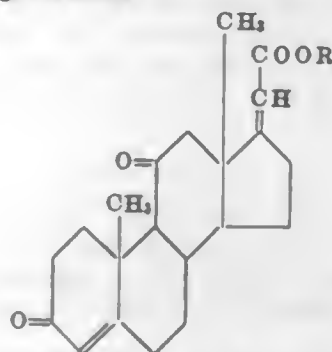
**STERIODS**

John A. Hogg, Kalamazoo Township, Philip F. Beal, Portage Township, and Frank H. Lincoln, Jr., Kalamazoo Township, Kalamazoo County, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application March 30, 1953, Serial No. 345,677

13 Claims. (Cl. 260—239.55)

1. In a process for the production of a 3-cyclic ketalized 11,21-dihydroxy-4,17(20)-pregnadiene-3-one which comprises the steps of: first, contacting a 3,11-diketo-4,17(20)-pregnadiene-21-carboxyloxy steroid represented by the following formula:



wherein R is selected from the group consisting of hydrogen and alkyl radicals, with an organic ketal forming agent selected from the group consisting of alkane-α-diols and alkane-β-diols containing less than nine carbon atoms, in the presence of an acid catalyst, to produce a 3-cyclic ketalized 3,11-diketo-4,17(20)-pregnadiene-21-carboxyloxy steroid and then reacting the thus-produced 3-cyclic ketalized steroid with lithium aluminum hydride in the presence of an organic solvent followed by the

hydrolysis with water of any organo-lithium complexes and excess lithium aluminum hydride present, to produce a 3-cyclic ketalized 11,21-dihydroxy-4,17(20)-pregnadiene-3-one.

2,715,622

**ANTHELMINTIC DYE SALTS**

Koert Gerzon and Donald A. Zuck, Indianapolis, Ind., assignors to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application October 29, 1953, Serial No. 389,141

5 Claims. (Cl. 260—240)

1. A salt comprising the reaction product of a member of the group consisting of phenolphthalin and phenolphthalein and a member of the group consisting of methylrosaniline and [6-dimethylamino-1-methylquinoline-(2)-[2,5-dimethyl-1-phenylpyrrole-(3)]dimethinecyanine.

2,715,623

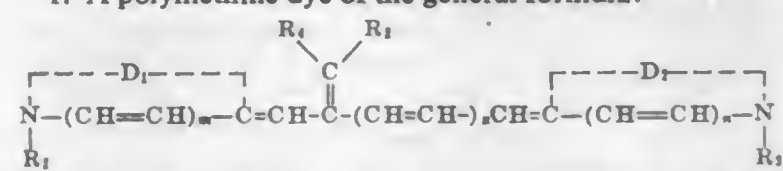
**POLYMETHIN DYES**

Douglas James Fry and Bernard Alan Lea, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application August 7, 1953, Serial No. 373,063

Claims priority, application Great Britain August 18, 1952 5 Claims. (Cl. 260—240.65)

1. A polymethine dye of the general formula:



where R<sub>1</sub> and R<sub>3</sub> are alkyl groups containing up to 4 carbon atoms, R<sub>4</sub> is a cyano group, R<sub>5</sub> is a group selected from the class consisting of the cyano group and COR<sub>6</sub> groups where R<sub>6</sub> is itself selected from the class consisting of alkoxy groups containing up to 4 carbon atoms, amino, alkylamino and phenylamino groups, x, m and n are each selected from nought and one and D<sub>1</sub> and D<sub>2</sub> are each the residue of a heterocyclic nucleus of the type known in cyanine dyes.

2,715,624

**DIMETHYL PIPERAZINIUM THEOPHYLLINE-7-ACETATE**

Joseph Lester Szabo, Drexel Hill, and William F. Bruce, Havertown, Pa., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 4, 1952, Serial No. 291,808

9 Claims. (Cl. 260—253)

2. A dimethylpiperazinium di-theophylline-7-acetate selected from the group which consists of 2,5-dimethylpiperazinium di-theophylline-7-acetate and 2,6-dimethylpiperazinium di-theophylline-7-acetate.

5. The method which comprises reacting theophylline-7-acetic acid and dimethylpiperazine in an aqueous reaction medium.

2,715,625

**METHOD OF PREPARING 4-AMINO URACILS**

Charles E. Maxwell III, Uncasville, Conn., and Charles J. Salivar, Malverne, N. Y., assignors to Chas. Pfizer &amp; Co., Inc., Brooklyn, N. Y., a corporation of Delaware

No Drawing. Application January 30, 1952, Serial No. 269,108

7 Claims. (Cl. 260—256.4)

7. In a process for preparing 1,3-dimethyl-4-amino-5-nitrosouracil, the improvement which comprises com-

mingling at elevated temperatures approximately equimolar proportions of dimethylurea and cyanoacetic acid in acetic anhydride containing a minor proportion of an alkaline condensation catalyst.

2,715,626

**PROCESS OF PREPARING DIHYDROCODEINONE**

Karl Pfister III and Max Tishler, Westfield, N. J., assignors to Merck &amp; Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application July 5, 1950, Serial No. 172,189

3 Claims. (Cl. 260—285)

1. The process for preparing dihydrocodeinone which comprises reacting dihydrocodeine with cyclohexanone and aluminum phenoxide.

2,715,627

**SOLVENT EXTRACTION OF OPIUM ALKALOIDS**

Charles L. Mehlretter and Francis B. Weakley, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application May 26, 1952, Serial No. 290,109

4 Claims. (Cl. 260—285)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method of extracting opium alkaloids from poppy straw comprising extracting dried poppy straw with a solvent comprising isobutanol and water, the weight ratio of water to isobutanol being within the range of from 1:10 to the point of saturation, said solvent also containing sufficient alkali to convert the alkaloids of said poppy straw to the free base form thus to obtain an extract of alkaloids, and recovering alkaloids from said extract.

2,715,628

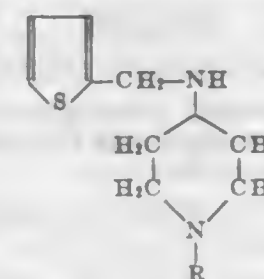
**THIOPHENE DERIVATIVES**

Arthur Stoll, Ariesheim, and Jean-Pierre Bourquin, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland

No Drawing. Application June 21, 1954, Serial No. 438,335

3 Claims. (Cl. 260—293.4)

1. A compound of the formula



wherein R stands for an alkyl group with 1 to 2 carbon atoms.

2,715,629

**SULFONIC ACID DERIVATIVES OF 2-(4'-DIALKYL-AMINOPHENYL)-BENZOTHAZOLE**

Frithjof Zwilmeyer, Edgewood Hills, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 16, 1952, Serial No. 299,260

4 Claims. (Cl. 260—304)

1. As new fluorescence agents, the monosulfonic acids and water-soluble monosulfonates of 2-(4'-dialkylaminophenyl)-benzothiazole, wherein the alkyl groups have no more than 4 C-atoms each.



2,715,630

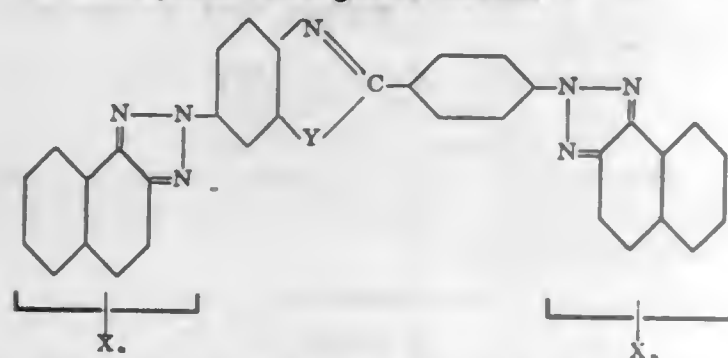
## FLUORESCENT WHITENING AGENTS

Mario Francesco Sartori, Monroe Park, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 16, 1954,  
Serial No. 469,293

8 Claims. (Cl. 260—304)

1. A compound of the general formula



wherein Y designates a member of the group consisting of oxygen, sulfur and the imino radical, X is a sulfo group, while n stands for an integer not greater than 2.

2,715,631

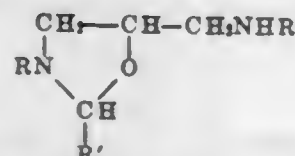
## AMINOMETHYLOXAZOLIDINES

Willard J. Croxall, Elkhart, Ind., and Sidney Melamed, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application December 23, 1952,  
Serial No. 327,662

7 Claims. (Cl. 260—307)

1. As new chemical substances, compounds of the formula



wherein R' represents a member of the class consisting of hydrogen and alkyl, alkenyl, benzyl, and phenyl groups of not over 21 carbon atoms and R represents a hydrocarbon group of not over 18 carbon atoms from the class consisting of alkyl, alkenyl, cycloalkyl, benzyl, and phenyl groups.

2,715,632

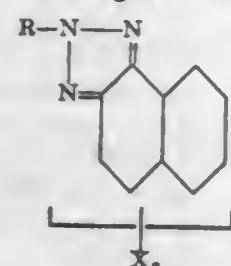
## WHITENING AGENTS FOR CELLULOSIC FIBER

Mario Francesco Sartori, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 23, 1953,  
Serial No. 333,016

3 Claims. (Cl. 260—307)

1. A compound of the general formula



wherein R represents the 4'-radical of a compound of the group consisting of 2-phenyl-benzoxazole, 2-phenyl-methyl-benzoxazole, 2-phenyl-methoxy-benzoxazole, and the monosulfo derivatives of any of these, X stands for a water-solubilizing, acid radical of the group consisting of sulfo, carboxy and their water-soluble salts, while n designates an integer not exceeding 2.

2,715,633

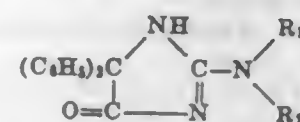
## 2-DISUBSTITUTEDAMINO-5,5-DIPHENYL-4(5)-IMIDAZOLONE COMPOUNDS

Cornelius K. Cain, Flourtown, Pa.

No Drawing. Application August 18, 1953,  
Serial No. 375,065

7 Claims. (Cl. 260—309.6)

1. 2-Disubstitutedamino-5,5-diphenyl-4(5)-imidazolone compounds comprising the fundamental structural formula:



where R1 and R2 are selected from the group consisting of methyl, ethyl, hydroxyethyl, phenyl and benzyl.

2,715,634

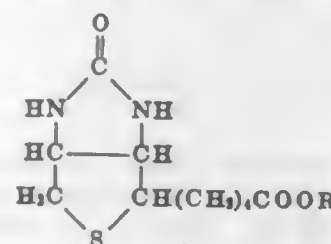
## PROCESS FOR THE PRODUCTION OF BIOCYTIN

John Weijlard, Maplewood, and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application September 9, 1953,  
Serial No. 379,293

6 Claims. (Cl. 260—309.7)

1. The process for manufacturing ε-N-(D-biotinyl)-L-lysine which comprises condensing L-lysine with a biotin ester having the formula



wherein R is selected from the group consisting of alkyl, aryl and aralkyl in the presence of a mixture of inert organic solvents for the reactants, one of these solvents being trichlorobenzene to form ε-N-(D-biotinyl)-L-lysine.

2,715,635

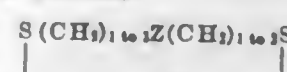
## PROCESS OF MAKING CYCLIC MONOMERIC DISULFIDES

Franklin O. Davis, Trenton, N. J., assignor, by mesne assignments, to Thiokol Chemical Corporation, Trenton, N. J., a corporation of Delaware

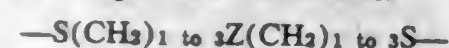
No Drawing. Original application August 2, 1952, Serial No. 240,067, now Patent No. 2,657,198, dated October 27, 1953. Divided and this application February 6, 1953, Serial No. 335,597

2 Claims. (Cl. 260—327)

1. Process of making a cyclic monomeric disulfide having the general formula



where Z is a member of the group consisting of O, S, OCH2O—, —SCH2S—, OC2H4O—, —SC2H4S—, and —CH2—, in which a product consisting essentially of an aqueous dispersion of a polymeric polyalkylene polysulfide having recurring units of the formula



is subjected to steam distillation under alkaline conditions, the alkaline material being of the group consisting of alkali and alkaline earth hydroxides, obtaining a distillate and separating said monomeric disulfide from the distillate.

2,715,636

## QUINONEDIIMINE DERIVATIVES

John F. Carson, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 17, 1953,  
Serial No. 392,780

3 Claims. (Cl. 260—396)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. As a new compound, N,N'-cyclohexyl-2,5-dimethyl-1,4-benzoquinonediimine.

2,715,637

PROCESS FOR PRODUCING Δ<sup>4</sup>-3-KETOSTEROIDS AND INTERMEDIATES THEREOF

George Rosenkranz and Carl Djerassi, Mexico City, Mexico, assignors to Syntex S. A., Mexico City, Mexico, a corporation of Mexico

No Drawing. Application January 23, 1950,  
Serial No. 140,152

14 Claims. (Cl. 260—397.3)

1. A process for the production of 2-iodo-3-ketosteroids selected from the class consisting of 2-iodo-4-bromo-3-ketoallosteroids and 2-iodo-Δ<sup>4</sup>-ketosteroids, which comprises heating a 2,4-dibromo-3-ketoallosteroid with an alkali metal iodide.

2,715,638

## PRODUCTION OF STEROLS FROM TALL OIL PITCH

Hans Albrecht, Stamford, Conn., and Richard Herrlinger, Roselle Park, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 28, 1953,  
Serial No. 370,853

10 Claims. (Cl. 260—397.25)

1. The method of recovering sterols from tall oil pitch which comprises treating the tall oil pitch with a dilute aqueous solution of a member of the group consisting of the hydroxides and carbonates of sodium, ammonium and lithium in an amount sufficient to neutralize the free rosin and fatty acids in said tall oil pitch but not enough to saponify the sterol esters therein; separating the sterol esters from the reaction mixture; saponifying the sterol esters with an alcoholic potassium hydroxide solution comprising a water-soluble aliphatic monohydroxy alcohol and at least 20% excess potassium hydroxide with respect to the sterol esters; diluting the saponified sterol ester solution with hot water having a temperature of at least 40° C. but less than the boiling point of the solution, said hot water being added in a water:solution ratio of from 2:1 to about 5:1; gradually cooling the diluted solution whereby the sterols precipitate out; and separating the precipitated sterols from the cooled, diluted solution.

2,715,639

## PRODUCTION OF STEROLS FROM TALL OIL PITCH

Hans Albrecht, Stamford, Conn., and Richard Herrlinger, Roselle Park, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 28, 1953,  
Serial No. 370,854

10 Claims. (Cl. 260—397.25)

1. The method of recovering sterols from tall oil pitch which comprises saponifying tall oil pitch with an alcoholic potassium hydroxide solution comprising a water-soluble aliphatic monohydroxy alcohol having at least two carbon atoms and at least 20% excess potassium hydroxide with respect to the tall oil pitch; diluting the reaction mixture with hot water having a temperature of at least 40° C. but less than the boiling point of the reaction mixture, said hot water being added in a water: reaction mixture ratio of from about 2:1 to about 5:1 gradually cooling the diluted reaction mixture whereby

the sterols precipitate out of solution; and separating the precipitated sterols from the cooled diluted reaction mixture.

2,715,640

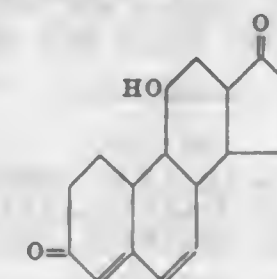
## 11-HYDROXY-3,17-DIOXO-4,6-ANDROSTADIENE AND ITS PREPARATION

Jack W. Ralls, Morton Grove, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 5, 1952,  
Serial No. 297,405

1 Claim. (Cl. 260—397.45)

A compound of the formula



2,715,641

## PRODUCTION OF SATURATED FATTY ACIDS

Joseph W. Ople, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application July 12, 1951,  
Serial No. 236,473

7 Claims. (Cl. 260—409)

1. Process of producing saturated higher fatty acids of good color, which comprises hydrogenating an unsaturated higher fatty acid in the presence of a nickel hydrogenation catalyst, and in the presence of a bleaching earth to reduce the iodine value of the fatty acids below about 5, and subsequently distilling the hydrogenated fatty acids.

2,715,642

## METHOD OF REMOVING KETONES FROM FATTY ACIDS

George Barsky, New York, N. Y., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application April 17, 1951,  
Serial No. 221,521

2 Claims. (Cl. 260—419)

1. A method of purifying fatty acids containing ketones as impurities which comprises providing a fatty acid substantially insoluble in water and containing ketones, adding an alkylamine thereto, agitating and heating the mixture, adding thereto a sufficient amount of water to form a 20–30% soap solution, then allowing the mixture to separate into two layers, removing the soap from said ketones.

2,715,643

## PROCESS FOR PREPARING N-[2'-(4"-CHLORO-2"-SULFOPHENOXY)-5'-CHLOROPHENYL]-N'-[3,4-DICHLOROPHENYL]-UREA

Henry Martin, Feuerthalen (Schaffhausen), Switzerland, assignor to Variapet A. G., Basel, Switzerland

No Drawing. Application December 22, 1951,  
Serial No. 263,025

Claims priority, application Switzerland  
December 26, 1950

5 Claims. (Cl. 260—506)

1. In a process for preparing N-[2'-(4"-chloro-2"-sulfophenoxy)-5'-chlorophenyl]-N'-[3,4-dichlorophenyl]-urea, in a readily soluble form the step of condensing a salt of 2-amino-4,4'-dichloro-1,1'-diphenyl-ether-2'-sulfonic acid with 3,4-dichlorophenylisocyanate, in anhydrous acetonitrile.



2,715,644

**PURIFICATION OF SODIUM GENTISATE**

William B. Wright, Jr., Plainfield, James M. Smith, Jr., North Plainfield, and Kenneth H. Collins, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine  
No Drawing. Application July 12, 1951,  
Serial No. 236,472

2 Claims. (Cl. 260—521)

1. A process of purifying sodium gentisate which comprises precipitating sodium gentisate from an aqueous solution thereof having a pH from 6 to 7 at a temperature not exceeding 10° C., recovering the precipitated sodium gentisate by filtration and washing the precipitated sodium gentisate with a cold, saturated aqueous salt solution.

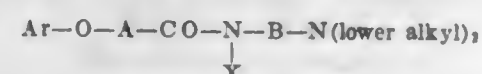
2,715,645

**N-ARYL AND N-ARALKYL DERIVATIVES OF N-DIALKYLAMINOALKYL-ARYLOXYALKANOAMIDES AND METHODS FOR THEIR PRODUCTION**

John W. Cusick, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois  
No Drawing. Application July 16, 1952,  
Serial No. 299,220

15 Claims. (Cl. 260—559)

1. An amide of the structural formula



wherein Ar is a member of the class consisting of aryl hydrocarbon radicals containing 6 to 10 carbon atoms and monocyclic haloaryl radicals containing 6 to 10 carbon atoms; X is a member of the class consisting of monocyclic aryl hydrocarbon radicals containing 6 to 10 carbon atoms, monocyclic haloaryl radicals containing 6 to 10 carbon atoms and radicals in which a monocyclic aryl hydrocarbon radical of 6 to 10 carbon atoms is attached to the amido nitrogen atom through a lower alkylene radical; A is a lower alkylene radical; and B is a lower alkylene radical separating the 2 nitrogen atoms attached thereto by at least 2 carbon atoms.

2,715,646

**MANUFACTURE OF DIISOPROPYLBENZENE HYDROPEROXIDES**

Edwin George Edward Hawkins, Lower Kingswood, Tadworth, Denis Cheselden Quin, Epsom, and Francis Edward Salt, Banstead, England, assignors, by mesne assignments, to Hercules Powder Company, a corporation of Delaware

No Drawing. Application May 9, 1949,  
Serial No. 92,257

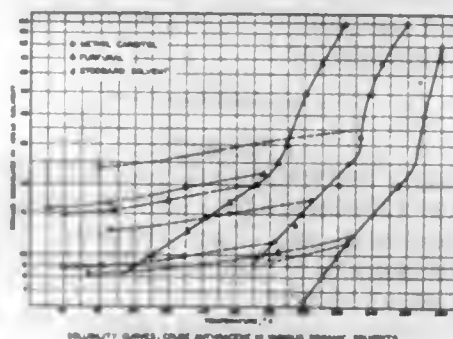
11 Claims. (Cl. 260—610)

1. Process for the manufacture of di-isopropyl benzene hydroperoxides which comprises bringing di-isopropyl benzene in the substantially homogeneous liquid phase at temperatures between 110° and 140° C. into intimate contact with free oxygen-containing gases in the substantial absence of oxidation catalysts other than organic peroxides, adding to the reaction mixture alkaline substances which react with acid substances formed during the oxidation reaction, whereby these acid substances are neutralized, removing the para- and meta-di-isopropyl benzene di-hydroperoxides from the liquid reaction mixture, then treating the remaining reaction mixture with aqueous sodium hydroxide solution of concentration exceeding 15 per cent whereby the sodium salt of the para-di-isopropyl benzene mono-hydroperoxide is precipitated and recovering the meta-mono-hydroperoxide from its solution in unchanged di-isopropyl benzene.

2,715,647

**SEPARATION AND PURIFICATION OF ANTHRACENE**

Louis D. Kleiss and Stanley J. Marwil, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware  
Application June 30, 1952, Serial No. 296,466  
8 Claims. (Cl. 260—675)

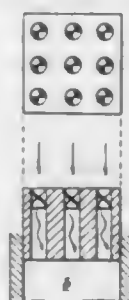


1. A process for the separation and purification of anthracene which comprises, dissolving crude anthracene in a solvent comprising a monoalkyl ether of diethylene glycol containing from one to four carbon atoms in the alkyl group, cooling the resultant solution to crystallize therefrom anthracene crystals of improved purity, and recovering said crystals from the mother liquor.

2,715,648

**PROCESS FOR THE PRODUCTION OF ACETYLENE BY INCOMPLETE COMBUSTION OF HYDROCARBONS**

Hans Sachsse, Kelheim (Danube), Thomas Kosbahn, Heidelberg-Rohrbach, and Erwin Lehrer, Bad Duerkheim, Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen (Rhine), State of Rheinland-Pfalz, Federal Republic of Germany  
Application May 18, 1950, Serial No. 162,687  
In Germany October 1, 1948  
Public Law 619, August 23, 1954  
Patent expires October 1, 1968  
3 Claims. (Cl. 260—679)



1. A process for the production of acetylene by the incomplete combustion of hydrocarbons with oxygen in a flame reaction after the gases have been mixed which comprises passing said hydrocarbons and oxygen into a reaction zone through a block of ceramic material provided with channels having parallel side walls, the width of each of said channels being in excess of 10 millimetres and not exceeding 35 millimetres, and imparting a spiral movement to the gas streams passing through said channels.

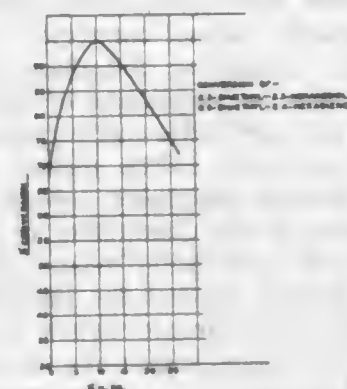
2,715,649

**CATALYTIC DEHYDRATION OF A HEXANEDIOL TO A HEXADIENE**

John A. S. Hammond, Baltimore, Md., assignor, by mesne assignments, to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware  
Application July 26, 1952, Serial No. 301,105  
3 Claims. (Cl. 260—681)

1. A process for converting 2,5-dimethyl-2,5-hexanediol to 2,5-dimethyl-2,4-hexadiene which comprises pass-

ing the 2,5-dimethyl-2,5-hexanediol in vapor form in contact with a catalyst, prepared by treating activated alumina with orthophosphoric acid, and heated to a tem-



perature within the range of 200° to 300° C., the amount of phosphoric acid with which the alumina is treated being within the range of 5% to 20% by weight of the alumina.

2,715,650

**RUBBER TREATMENT**

Kenneth W. Doak, Bloomfield, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey  
No Drawing. Application January 12, 1954,  
Serial No. 403,658  
4 Claims. (Cl. 260—763)

1. A process which comprises mixing rubber selected from the group consisting of natural rubber, synthetic rubbery homopolymers of aliphatic conjugated diolefin hydrocarbons and synthetic rubbery copolymers of said diolefin hydrocarbons with copolymerizable monoolefinic compounds, which copolymers contain at least 25% of combined diolefin, with a relatively large amount of rubber-reinforcing carbon black, and nitrite of a metal selected from the alkali metals and the alkaline-earth metals in amount equal to from 0.5 to 3 parts per 100 parts of said rubber, heating the mixture at a temperature of at least 275° F. but below that at which the rubber would be harmed, masticating the mixture and completing incorporation of vulcanizing and other desired ingredients, shaping the mass, and vulcanizing the resulting shaped mass.

**ELECTRICAL**

2,715,651

**ELECTRIC STORAGE BATTERY**

Manlio Ardena, Milan, Italy  
Application November 21, 1950, Serial No. 196,751  
6 Claims. (Cl. 136—43)



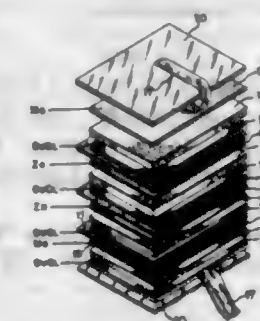
1. An electric storage battery comprising positive elements having a trapezoidal cross-section with the non-parallel sides being convex and negative elements having a trapezoidal cross-section with the non-parallel sides being concave whereby the elements of the positive plates have a transverse cross-section substantially greater than but complementary of that of the negative plates, the shape of said plates being such as to allow them to be positioned alternately side by side in the relationship of one negative and one positive element, inside of each of said elements there being arranged the corresponding active material, a conductive member embedded in the respective active material, and said conductive members of the same polarity being joined together at their one ends and connected to their respective terminals.

2,715,652

**ELECTRIC BATTERY FOR AIRBORNE EQUIPMENT**

Melvin F. Chubb and James M. Dines, Joplin, Mo., assignors to The Eagle-Picher Company, Cincinnati, Ohio, a corporation of Ohio  
Application January 16, 1952, Serial No. 266,736  
2 Claims. (Cl. 136—100)

1. A battery adapted to operate over a substantial temperature range, said battery comprising at least two cells connected in series, one cell comprising a pasted cuprous chloride positive electrode and a pasted zinc



negative electrode, the other cell comprising a pasted cuprous chloride positive electrode and a magnesium negative electrode, each cell having a bibulous pad for holding electrolyte, said pads disposed between the

positive and negative plates of each cell and in engagement with their respective electrodes, said cells being positioned adjacent to each other in the battery whereby a portion of the heat produced upon discharge by the magnesium cell is absorbed by the zinc cell.

2,715,653

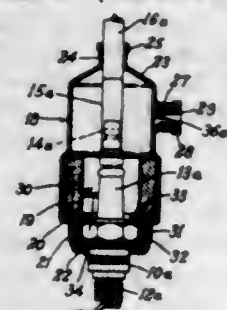
**PRIMARY CELL**

Raymond W. Reid, Sanford, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware  
No Drawing. Application February 27, 1952,  
Serial No. 273,787  
6 Claims. (Cl. 136—100)

1. In a primary cell having in combination an anode comprising magnesium, a cathode comprising a mixture of carbon and a depolarizer of manganese dioxide, and an aqueous electrolyte comprising the bromide of a base selected from the group consisting of the alkali metals, the alkali earth metals and ammonium, the improvement which consists in including in the said mixture from 0.1 to 1.5 per cent by weight on the dry basis of a particulated metal below and including magnesium in the electromotive force series of metals selected from the group consisting of aluminum, bismuth, cobalt, copper, iron, lead, magnesium, manganese, nickel, tin, and zinc, said particulated metal being in particles substantially all passing through a No. 50 while being retained on a No. 325 standard sieve.

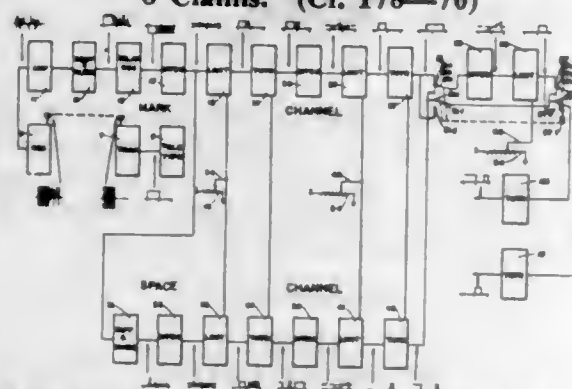


2,715,654  
**SPARK PLUG SHIELD**  
 Lyle E. Lucas, North Canton, Ohio  
 Application May 16, 1952, Serial No. 288,195  
 2 Claims. (Cl. 174-77)



2. A shield for spark plugs comprising a hollow cylindrical flexible rubber shell of a size to surround a spark plug in spaced relation thereto, a spaced pair of internal annular beads at the lower end of said shell adapted to fit over the hexagonal metal portion of the spark plug, an enlarged cylindrical intermediate portion of the shell adapted to surround the insulation portion of the spark plug in spaced relation thereto, and a molded hollow cylinder of moisture absorbent material located in said enlarged cylindrical portion of the shell surrounding and in spaced relation to the insulation portion of the spark plug, a vertical neck and an angular neck on the upper portion of the shell, and thin integral drum type diaphragms closing said necks and adapted to be selectively removed to receive a vertical or an angular connection respectively, each of said diaphragms having a self sealing incision therein to equalize internal and external air pressure upon the shell when a connector is located through the other neck.

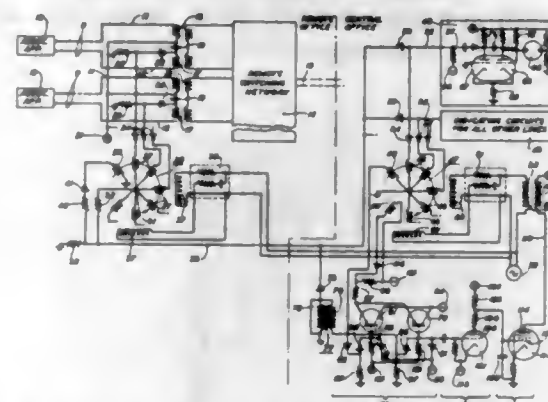
2,715,655  
**CONVERTER FOR TELEGRAPHIC SIGNAL**  
 Francis J. Biltz, Glen Lake, Minn., and Herbert G. Nilles, Jr., Grand Rapids, Mich., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
 Application June 28, 1954, Serial No. 439,948  
 8 Claims. (Cl. 178-70)



1. Apparatus for converting a distorted signal which contains intelligence in the form of pulses of predetermined duration separated by characteristic intervals into a series of pulses all of which are of the same amplitude and polarity and of said predetermined duration and separated by said characteristic intervals, said signal having been distorted by interference therewith resulting in pulses in said intervals and hiatuses in said pulses; said apparatus comprising means for creating a series of first saw-tooth waves from said distorted signal, each of said first saw-tooth waves being created from one of said pulses of said distorted signal and having a maximum amplitude which is directly dependent upon the amplitude and duration of said one signal pulse; a first transmission channel and a second transmission channel, said first saw-tooth waves being applied to said first and second channels in parallel; first electronic switch means in said first channel, said first electronic switch means being adapted to remain in the conductive or the non-conductive state until changed by external means; first initiating

means in said first channel for initiating conduction through said first electronic switch means, said first initiating means being responsive to said first saw-tooth waves which exceed a predetermined amplitude; differentiation means in said second channel for differentiating said first saw-tooth waves into sharp pulses; integrating means in said second channel connected to said differentiation means for integrating said sharp pulses into second saw-tooth waves the amplitudes of which are directly dependent upon the amplitudes and durations of said sharp pulses; second electronic switch means in said second channel, said second electronic switch means being adapted to remain in the conductive or non-conductive state until changed by external means; second initiating means in said second channel for initiating conduction through said second electronic switch means, said second initiating means being responsive to said second saw-tooth waves which exceed a predetermined amplitude; said first and second switch means being so interconnected that the initiation of conduction through one electronic switch means terminates conduction through the other electronic switch means.

2,715,656  
**ELECTRICAL INFORMATION SYSTEM**  
 Frederick T. Andrews, Jr., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
 Application August 2, 1952, Serial No. 302,445  
 14 Claims. (Cl. 179-18)

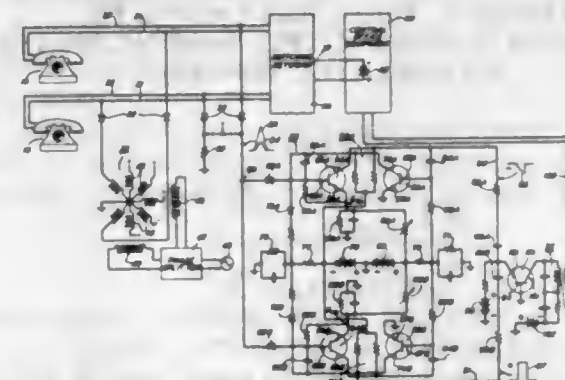


1. An electrical system for scanning a plurality of lines each comprising a pair of wires, and for transmitting information indicating the condition of the lines to a central office remote from the wires comprising a source of direct current potential connected to one wire of each of said lines, a scanning resistor connected to the other wire of each of said lines, means isolating said wires with respect to direct current whereby said wires, source of potential, and scanning resistor define a direct current circuit closed when apparatus associated with said line is connected thereacross, means for generating a plurality of scanning pulses and applying said pulses to each of said scanning resistors in succession, an output resistor common to all of said lines, said output resistor, generating means, and scanning resistors defining a scanning circuit for each of said lines whereby a pulse appears across said output resistor on flow of current in any of said scanning circuits, and means for preventing the application of a scanning pulse to a scanning resistor when current is flowing in that resistor due to flow of current in said direct current circuit.

2,715,657  
**ELECTRICAL INFORMATION SYSTEM**  
 Frederick T. Andrews, Jr., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
 Application August 2, 1952, Serial No. 302,444  
 12 Claims. (Cl. 179-26)

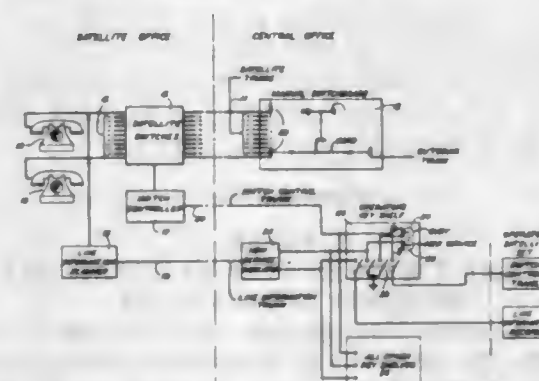
1. An electrical system for scanning a plurality of lines each comprising a pair of wires and transmitting

information indicating the condition of the lines to a central office remote from said lines comprising a detector network, means for transmitting a pulse along one wire of each of said lines in succession, means for applying the pulses returned from the other of said wires of said lines to said detector network, the amplitude of said



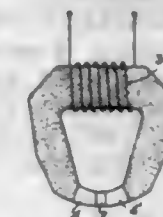
returned pulses depending on the termination of said lines, means comprising said detector network for discriminating between returned pulses of two different amplitudes and translating said different amplitude pulses into pulses of opposite signs, and means for transmitting said pulses of opposite sign to the central office.

2,715,658  
**ELECTRICAL INFORMATION SYSTEM**  
 Kermit S. Dunlap, Madison, and Clarence A. Lovell, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
 Application August 2, 1952, Serial No. 302,372  
 26 Claims. (Cl. 179-27)



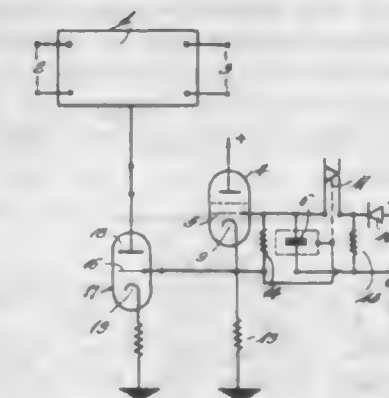
1. In an electrical system comprising a central station and a plurality of lines remote from that station, means for relaying to said station information as to the condition of said lines, said means comprising a plurality of indicating coils arranged in an array, one of said coils being associated with each of said lines, means for passing a current through said coils to generate a magnetic field of one polarity on the occurrence of one condition on one of said lines, means for passing a current through said coils to generate a magnetic field of the opposite polarity on the occurrence of another condition on said one line, a scanning coil, means for sweeping said scanning coil past said array of indicating coils to generate a pulse in said scanning coil if a field is present at one of said indicating coils, a start coil, means to generate a start pulse in said start coil once every sweep of said scanning coil past said array of indicating coils, and means to transmit said pulses to said central station, and means within said central station for recognizing and identifying said indicating pulses transmitted thereto, said last-mentioned means comprising means comprising a counter for identifying said line, an oscillator for driving said counter, means for turning on said oscillator on reception of a start pulse at said central station, means for recognizing the coincidence of an indicating pulse and a pulse from said oscillator, and means activated by said last-mentioned means for indicating the presence of a pulse generating condition on said one line.

2,715,659  
**MAGNETIC HEADS FOR MAGNETIC RECORDING AND REPRODUCING APPARATUS**  
 Masaru Ibuka, Shibuya-ku, Tokyo, and Kazuo Iwama, Shinagawa-ku, Tokyo, Japan  
 Application September 19, 1951, Serial No. 247,232  
 Claims priority, application Japan October 14, 1950  
 1 Claim. (Cl. 179-100.2)



A magnetic head for a magnetic recording and reproducing apparatus, comprising a pressed loop-shaped core member of powdered magnetic material, said core member having a thick portion and a thin portion homogeneously pressed into shape and arranged opposite one another, said thin portion being divided into spaced ends by a gap, a coil wound on said thick portion, a spacer of non-magnetic material disposed in said gap, and pole pieces of magnetic material such as Permalloy extended from opposite sides of said spacer and extended into the ends of said thin portion to effectively concentrate magnetic flux to the pole pieces.

2,715,660  
**TIME CONSTANT CONTROL CIRCUITS FOR RADIO TELEPHONE AND SIMILAR SYSTEMS**  
 Christopher Dering Colchester, Brockham, Runsell Green, Danbury, England, assignor to Marconi's Wireless Telegraph Company, Limited, London, England, a company of Great Britain  
 Application February 13, 1950, Serial No. 143,996  
 Claims priority, application Great Britain February 24, 1949  
 4 Claims. (Cl. 179-171)



1. In a signal transmission system of the kind in which the loss or gain of a signal channel included in said system is automatically controlled by a control valve in dependence upon the charge on a condenser fed with rectified signals; a signal transmission channel of variable loss or gain; a control valve including at least a cathode, a control grid and an anode connected to control said loss or gain in dependence upon the current flow through said valve; input and output circuits connected with said control valve; a cathode return circuit for said control valve; an impedance of the same order of magnitude as the internal impedance of said valve included in said cathode return circuit of said valve; a condenser included in said input circuit; a time constant circuit including said condenser and a resistance of predetermined value which is connected between the control grid and cathode of said valve, said resistance being the time constant determining element in said time constant circuit and connected to apply a voltage from the cathode impedance to said condenser to oppose any change in potential at said condenser and thereby control the rate of discharge of said con-

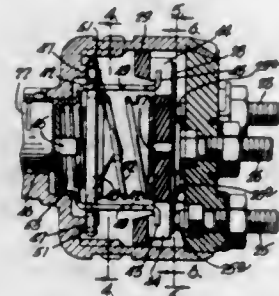


denser; means including a rectifier for applying signal energy to said condenser to charge the same; and a control circuit from the cathode of said valve to said channel to control the loss or gain thereof in dependence upon the potential of said cathode with respect to a point of fixed potential.

2,715,661

## STARTER IGNITION SWITCH

Walter W. Miller, Abington Township, Montgomery County, Pa., assignor to United Specialties Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application April 14, 1953, Serial No. 348,734  
5 Claims. (Cl. 200—11)

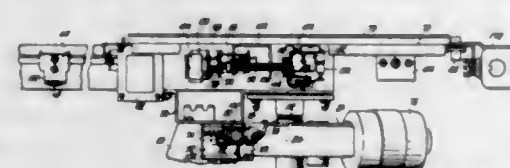


1. In a starter ignition switch comprising a housing having an insulating base at one end thereof, switch actuating means mounted for rotary movement in said housing, a first contact terminal extending a predetermined distance above said base, a second contact terminal mounted in said base and extending outwardly therefrom a distance greater than the distance of said first terminal, a contact plate mounted in said housing for relative rotary movement with respect to said contact terminals between predetermined limit positions in engagement with said first contact terminal in one predetermined position thereof, said contact plate having a cutout portion therein registering with said second contact terminal in said one predetermined position, a bridge piece interconnecting said switch actuating means with said contact plate, and means yieldingly mounting said contact plate on said contact bridge piece for limited displacement thereof upon rotary movement of the contact plate from said one predetermined position to remove said contact plate from engagement with the first contact terminal and into engagement with the second contact terminal.

2,715,662

## DOOR OPERATING MECHANISM HAVING MOTOR ACTUATOR

Boley A. Andrews, Kansas City, Kans., assignor to The Vendo Company, Kansas City, Mo., a corporation of Missouri  
Application August 13, 1951, Serial No. 241,550  
4 Claims. (Cl. 200—47)



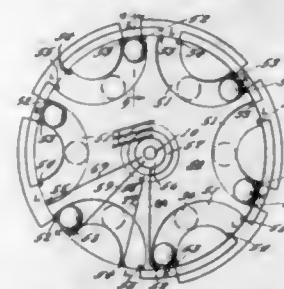
1. In control mechanism having a motor, an elongated track and a motor driven follower reciprocally carried by the track, an elongated bar parallel with the path of travel of the follower and mounted on the track for oscillation on its transverse axis; means for holding the bar against longitudinal movement; a pair of spaced projections rigidly mounted on the bar; a reversing switch connected to the bar for movement thereby and coupled electrically with said motor; and a cam member on the follower engageable with one projection when the follower moves toward one end of the track for moving the bar in one direction to actuate the switch, and engage-

able with the other projection when the follower moves toward the opposite end of the track for moving the bar in the opposite direction to actuate the switch.

2,715,663

## CENTRIFUGAL CIRCUIT CONTROLLER

Thomas D. Bowes, Bala-Cynwyd, Pa.  
Application November 4, 1953, Serial No. 390,153  
6 Claims. (Cl. 200—80)

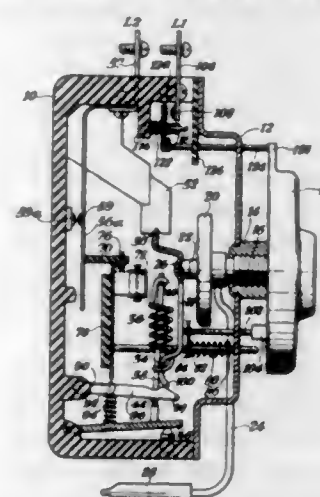


6. A centrifugal circuit controller comprising a device rotatable in either direction about a substantially vertical axis, said device having a curvilinear guide recess substantially tangent to an arc about said axis, three spaced circuit members in said recess, a bridging ball mounted in said recess and having a neutral unbridging position of rest thereagainst out of contact with any of the said circuit members when the device is stationary, the central one of said three circuit members being common to two separate circuits, and the other circuit members respectively being in said respective separate circuits, whereby predetermined rotation of the device in either selected direction moves the ball through inertia from its neutral unbridging position toward a selected pair of said three circuit members and by centrifugal force causes the ball to bridge said selected pair to complete and maintain a selected circuit of said two circuits during rotation in the selected direction and to break the selected circuit by moving to its neutral unbridging position upon the termination of the predetermined rotation.

2,715,664

## CONTROL DEVICES FOR ELECTRICALLY HEATED APPLIANCES

Russell F. Garner, Youngwood, and William J. Russell, Jeannette, Pa., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware  
Application December 21, 1953, Serial No. 399,432  
13 Claims. (Cl. 200—140)



1. A control device comprising switching means having open and closed positions for controlling an energizing circuit, switching means having open and closed positions for controlling a second energizing circuit, means including a manually operable element movable between a plurality of controlling positions for closing both said switching means to establish said circuits when said element is moved to one of said positions, auxiliary switching means having open and closed positions for controlling one of said circuits independently of said switching means there-

for, means responsive to changes in a condition to be controlled, means for opening both said switching means upon a change in said condition affecting said condition responsive means and for substantially simultaneously closing said auxiliary switching means to maintain said one of said circuits, means for opening said auxiliary switching means to discontinue said one of said circuits upon a further change in said condition affecting said condition responsive means, means for controlling said energizing circuits independently of said condition responsive means, and means operatively associated with said last named means for discontinuing both said energizing circuits upon movement of said element to another of said positions.

2,715,665

## ENCLOSED SWITCH WITH EXTERNAL LIQUID-TIGHT OPERATING MECHANISM

Tracy B. Taylor, South Orange, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation of Delaware  
Application October 28, 1953, Serial No. 388,769  
2 Claims. (Cl. 200—168)



1. A switch casing and switch actuating mechanism, including a casing wall having an opening formed therein, a bushing having a passage in alignment with said opening, a plurality of arcuately spaced fastening elements extending from inside the casing, through said wall and into said bushing, a gasket tightly held between said bushing and said casing wall, a composite manual operator including a disk bearing against the inside surface of said wall, a handle bearing against the opposite end surface of said bushing, and a bearing portion between said handle and said disk and having bearing contact with said bushing passage, and interengageable releasable detent means having respective portions on said handle and on said bushing effective to arrest said handle in predetermined arcuately spaced positions, said fastening elements being effective to prevent rotation of said bushing.

2,715,666

## ELECTRIC STRAIN GAGE

John Maxwell Stinchfield, Bethesda, Md.  
Application September 19, 1952, Serial No. 310,575  
6 Claims. (Cl. 201—63)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

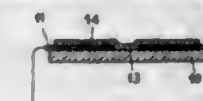


1. In a work piece, a strain gage adapted to be connected to a surface area of the work piece, said strain gage consisting of a film of insulating material approximately fifty molecules thick adapted to be united by atomic forces only to said surface area of the work piece, and a film of electrically conductive material united with said insulating material on the surface thereof opposite to the surface applicable to the work piece.

2,715,667

## ELECTRIC HYGROMETER

Max Auwärter, Balzers, Liechtenstein, assignor to Alois Vogt, Vaduz, Liechtenstein  
Application May 15, 1951, Serial No. 226,441  
Claims priority, application Switzerland May 17, 1950  
15 Claims. (Cl. 201—63)



1. In an electric hygrometer, the combination with a pair of spaced electrodes having a gap therebetween, of a non-porous fluoride, relatively insoluble in water and arranged in electrical contact with the electrodes within said gap and exposed at its surface to the atmosphere whose moisture content is to be measured.

2,715,668

## ELECTRICALLY CONDUCTIVE FILM PANEL HEATERS

Aylwin R. Booker, Tarzana, and Ralph E. Crump, Reseda, Calif., assignors to Electrofilm, Inc., Los Angeles, Calif., a corporation of California  
Application October 23, 1952, Serial No. 316,522  
1 Claim. (Cl. 219—19)



A heater comprising a pair of spaced generally parallel panels, and an electrically resistive heater film carried by a first one of said panels at a side thereof facing the second panel and comprising an electrically insulative binder and minute electrically conductive particles distributed in electrically conductive relation within said binder, a heat reflective coating applied to a surface of said second panel at a side facing said film and first panel and reflecting the heat produced by said film toward said first panel, there being an air space between said film and said reflective coating to reduce heat transmission toward the reflective coating and second panel, both of said panels being formed of asbestos board, a frame extending about and carrying both of said panels and containing top and bottom air circulation openings communicating with said air space, a waterproof resinous plastic coating applied to and entirely about said first panel, and an electric cord extending through an opening in said frame and electrically connected to said film, said first panel having a large number of irregularities at a side opposite that at which said film is carried to facilitate the radiation therefrom of heat produced by the film.

2,715,669

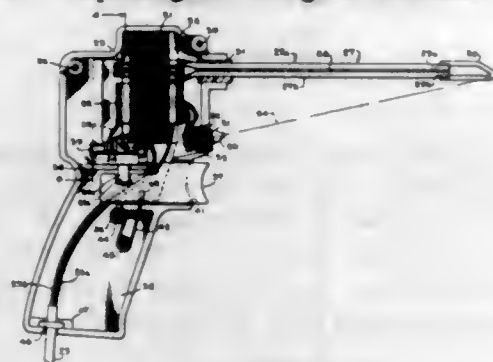
## ELECTRIC SOLDERING TOOL

Allen A. Dicke, Montclair, N. J.  
Application January 29, 1951, Serial No. 208,370  
11 Claims. (Cl. 219—26)

1. An electrical soldering tool comprising a primary winding and a secondary winding, a magnetic field member passing through both of said windings, said secondary winding being part of a combined secondary winding and working finger consisting of one continuous bar of highly conductive material having at least one flat side, the

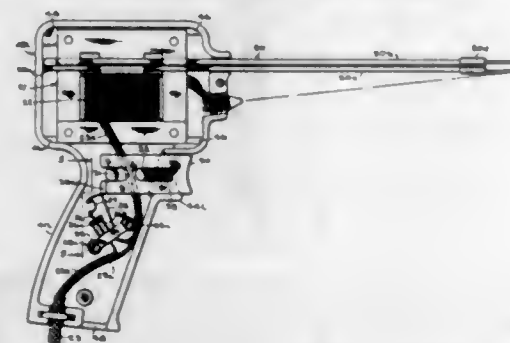


secondary winding portion consisting of at least one turn of said bar material surrounding said field member and said working finger portion comprising two complementary closely adjacent, mutually supporting, highly conductive finger parts electrically insulated from each other and comprising an integral continuation of said



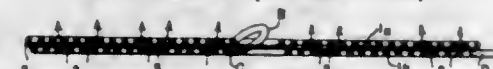
bar, the flat side of the bar forming the flat sides of said working fingers, which flat sides lie adjacent and parallel to each other, said parts being so formed that said secondary winding has its axis extending substantially at right angles to the axis of the working finger, and a U-shaped soldering tip electrically connected to the other ends of said finger parts.

**2,715,670**  
**ELECTRIC SOLDERING TOOL**  
Allen A. Dicke, Montclair, N. J.  
Application October 1, 1951, Serial No. 249,093  
5 Claims. (Cl. 219-26)



1. An electrical soldering tool comprising a primary winding and a secondary winding, a magnetic field member passing through said primary winding and at least twice through said secondary winding, said secondary winding being part of a combined secondary winding and working finger consisting of one continuous bar of highly conductive material, the secondary winding portion consisting of at least one turn of said bar material surrounding said field member at each of at least two spaced points, and said working finger portion comprising two complementary closely adjacent highly conductive finger parts electrically insulated from each other and the ends of which are closely adjacent to each other, and a U-shaped soldering tip electrically connected to the ends of said finger parts.

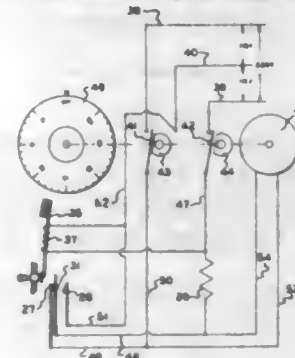
**2,715,671**  
**CONTACT ELEMENT**  
James W. Harrison, Woodbury, N. J., assignor to Oxy-Catalyst, Inc., a corporation of Pennsylvania  
Application November 10, 1953, Serial No. 391,191  
10 Claims. (Cl. 219-38)



9. A method of producing an element suitable for use in contacting operations comprising the steps of doubling a continuous length of wire to produce two parallel wires connected at one end, spirally winding the doubled wire outwardly from the connected end in a single plane to produce a flat spiral coil having contiguous turns and

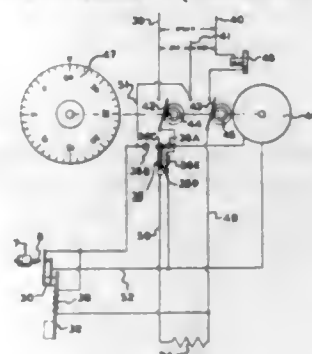
thereafter displacing alternate turns of said single coil to a closely adjacent parallel plane, whereby adjacent turns of each coil are separated from one another by a distance substantially equivalent to the diameter of said wire.

**2,715,672**  
**PRESSURE COOKING APPARATUS**  
Daniel P. Barlow, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York  
Application December 24, 1953, Serial No. 400,222  
7 Claims. (Cl. 219-43)



1. Pressure cooking apparatus comprising a pressure vessel, an electric heating unit for heating said vessel, a heat control circuit including a control switch for modifying the circuit so as to reduce the heat output of said heating unit, a pressure relief valve in said vessel for maintaining a predetermined normal cooking pressure, a pressure valve in said vessel having a plunger movable from a pressure venting position to a first sealing position in response to a predetermined increase in pressure within the vessel and also movable to a second sealing position in response to a further increase in pressure within the vessel, means actuated by movement of said plunger from said first sealing position to said second sealing position for operating said control switch, means normally biased against said plunger with sufficient force to overcome the force exerted on said plunger by said normal cooking pressure, and means for disengaging said last mentioned means from said plunger upon energization of said heating unit.

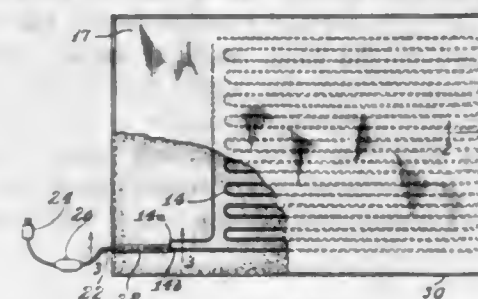
**2,715,673**  
**PRESSURE COOKING APPARATUS**  
George W. Schroeder, Louisville, Ky., assignor to General Electric Company, a corporation of New York  
Application December 24, 1953, Serial No. 400,279  
6 Claims. (Cl. 219-43)



1. In an automatic pressure cooker including a pressure valve in one wall thereof having a movable projecting element movable from a first position to a second position in response to a predetermined increase in pressure within the cooker and also movable from said second position to a third position to vent the cooker, the combination comprising electric heating means for heating said cooker, manually operable means for connecting said heating means to a source of electrical energy, timer means for disconnecting said heating means from said energy source at the end of a predetermined period of time, means in circuit with said heating means for reducing the heat

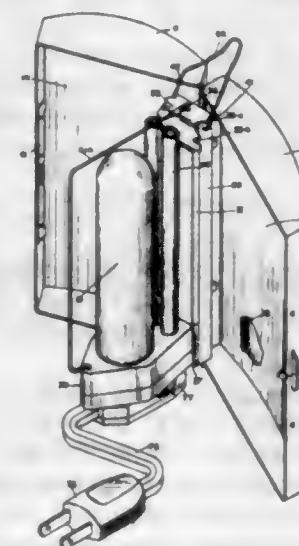
output of said heating means from a first value to a second relatively lower value, a control circuit including a pair of normally open switch contacts movably supported adjacent said pressure valve for operating said last named means and initiating the operation of said timer means, means concurrently energized with said heating means for moving and holding said switch contacts in operative association with said projecting element of said valve, said projecting element and said switch contacts being so arranged that movement of said projecting element from said first to said second position closes said contacts and movement of said contacts out of operative association with said projecting element permits said projecting element to move from said second to said third position.

**2,715,674**  
**ELECTRICALLY HEATED MATTRESS AND SLEEPING PAD**  
Howard C. Abbott, Chicago, and Thomas J. McDermott, Oak Park, Ill.  
Application March 12, 1953, Serial No. 341,858  
3 Claims. (Cl. 219-46)



1. An electrically heated mattress pad adapted to be removably positioned over a mattress and comprising a pad body formed of a pair of foam latex layers secured together by a rubber cement, each layer being approximately 1/4 inch in thickness and of a size to substantially cover an entire mattress, an electrical heating element disposed and secured between said layers to cover substantially not more than three-fourths of the area thereof with the head portion of said pad without said heating element, said heating element adapted to develop a maximum temperature of 75° C. and including a wire spirally wound around a core with said wire and core covered by a sleeve in contact with the adjacent surfaces of said latex layers, and a tape secured around the border of said pad.

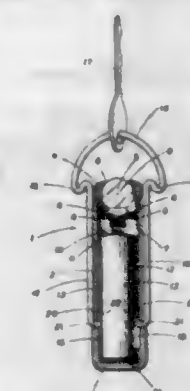
**2,715,675**  
**PORTABLE LAMP STRUCTURE**  
Michel E. Macksoud, Bronxville, N. Y.  
Application August 17, 1951, Serial No. 242,335  
14 Claims. (Cl. 240-1)



1. A combined portable lamp casing and reflector comprising a pair of casing half-sections, hinge means

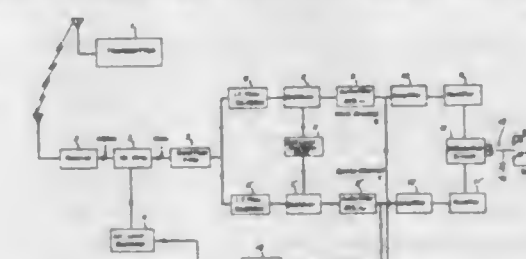
pivotal connecting together one side of each half-section respectively, an upright frame member pivotally connected to said hinge means and positioned forwardly of said hinge means, said frame member being of a height less than said casing half-sections and enclosed within the casing formed by the closure of said casing half-sections, means inter-connecting said casing half-sections and said frame member and positioned adjacent said hinge means to position said frame member to an angular position intermediate said casing half-sections and directly forward of said hinge means and limit the open position of said casing half-sections when opened, reflective surfaces on the inside walls of said casing half-sections, and a lamp carried by said frame member.

**2,715,676**  
**COMBINATION KEY HOLDER AND FLASHLIGHT**  
Bernard B. Fore, Oakdale, Calif.  
Application September 23, 1952, Serial No. 311,020  
2 Claims. (Cl. 240-6.4)



1. A combination key holder and flashlight comprising a tubular metallic body, a globe at one end of the body disposed axially thereof and having a base in contact with the body and a base terminal insulated from said base, a battery in the body in center-contact at one end with the globe terminal, the battery including a metal case insulated from the body, a key retainer normally disposed beyond said one end of the body, resilient legs integral with the retainer projecting lengthwise of the body on opposite sides thereof toward the end of the body furthest from the globe, and returned contact pivot pins on the end of the legs furthest from the retainer; the body having opposed holes exposed to the battery through which the pins turnably project and said body having grooves extending lengthwise of the body from said holes to the globe end of the body and in which the legs snap-engage, the pins then terminating short of contact with the battery, and means formed on the body and cooperating with the legs to cause the pins, when the legs are disengaged from the grooves and swung about the pins through a predetermined arc, to move into contact with the battery case to close the flashlight circuit.

**2,715,677**  
**RADIOTELEGRAPH SYSTEM**  
Richard R. Turner, Haddonfield, N. J.  
Application July 6, 1951, Serial No. 235,553  
1 Claim. (Cl. 250-8)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A combined portable lamp casing and reflector comprising a pair of casing half-sections, hinge means

In a radio telegraphic communication system for receiving mark and space signals at predetermined differ-

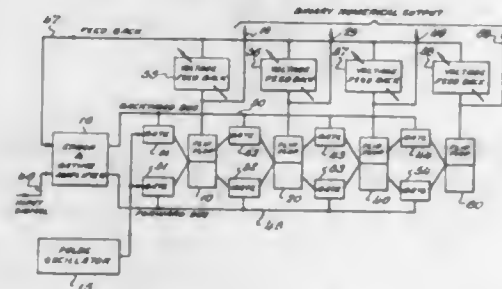


ent frequencies a receiver comprising a first local oscillator, a first mixer coupled to said first local oscillator and to said receiver for converting the received signals to an intermediate frequency, a first band pass filter coupled to said first mixer to pass the intermediate frequency, a mark signal channel and a space signal channel coupled to said first band pass filter, said mark signal channel including a sharply tuned filter peaked at the mark intermediate frequency and said space signal channel including a sharply tuned filter peaked at the space intermediate frequency, second mixers included in each channel, a second local oscillator coupled to both said second mixers and operating at a frequency midway between the peaked frequencies of the sharply tuned filters for heterodyning the intermediate frequency of each channel to the same audio frequency, selective filters included in each channel for passing the said audio frequency, a rectifier in each channel coupled to said selective filters, a differential output circuit coupled to said rectifiers and responsive to the difference in amplitude of each channel to produce an output indicative of a mark or space signal.

2,715,678

## BINARY QUANTIZER

Kay Howard Barney, Great Neck, N. Y.  
Application May 26, 1950, Serial No. 164,530  
7 Claims. (Cl. 250-27)

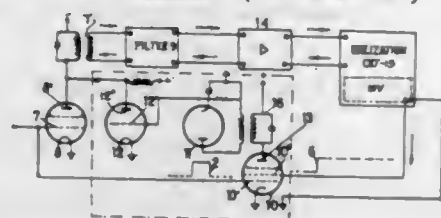


1. Means to quantize a varying voltage to produce a reversible output in digital form comprising counting means including a plurality of trigger circuits, switching means connecting said trigger circuits in cascade and arranged so that the trigger circuit may count in either direction, digital output means connected to each of said trigger circuits, digital multiplier means connected to said output means, and dequantizing means connected to said multiplier means.

2,715,679

## AUTOMATIC PHASE CORRECTOR

Erberto Kleissl, Milan, Italy, assignor to Fabbrica Italiana Magneti Marelli Società per Azioni, Milan, Italy, a firm  
Application May 18, 1951, Serial No. 227,020  
Claims priority, application Italy May 22, 1950  
4 Claims. (Cl. 250-27)

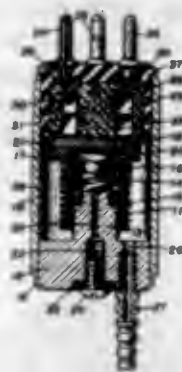


4. An automatic phase corrector operative with a source of input signals comprising an electronic discharge device having at least a first grid for receiving incoming signals, a second grid for receiving a square-wave signal derived from the incoming signal, and a plate circuit; a rectifier connected at one side to said plate circuit; and an electronic reactance device connected between the other side of the rectifier and the source of input signals for adjusting the phase relationship between the incoming signal and the square wave signal.

2,715,680

## TELEMETRIC GAGES

Howard E. Tatel, Silver Spring, Md., and Edgar W. Trainer, Rochester, N. Y., assignors to the United States of America as represented by the Secretary of the Navy  
Application March 22, 1950, Serial No. 151,104  
9 Claims. (Cl. 250-36)

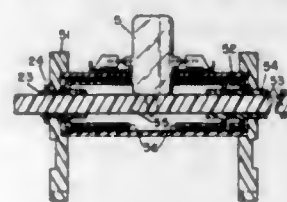


1. In a telemetric gage, a case, a recessed base closing the case at one end thereof, a core of magnetic material in the base said core having an E-shaped longitudinal section, a pair of coils wound on the center leg of said core, an armature in the case, resilient means normally engaging the armature with the center and outside legs of said core, means for transmitting forces to said armature for shifting said armature in a direction away from the core to change the inductance and coupling of the coils, and damping means retarding movement of said armature.

2,715,681

## TUNER FOR ULTRA HIGH FREQUENCIES

Richard L. Campbell, Melrose, Mass., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware  
Application September 21, 1949, Serial No. 116,945  
8 Claims. (Cl. 250-40)



3. A tuning element for high frequency electrical waves comprising a first cylindrical member having a conductive surface, said surface having a longitudinal slot therein, a second cylindrical member having a conductive surface, said second member being supported within said first member and rotatable about the longitudinal axis thereof, said conductive surface of said second member having a longitudinal slot therein, and a third cylindrical member having a conductive surface, said third member being supported within said first member and rotatable about said axis independently of said second member, the conductive surface of said third member being electrically coupled to the conductive surface of said first member.

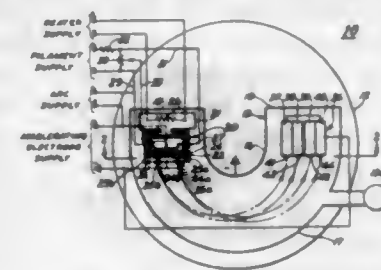
2,715,682

## ION SOURCE FOR CALUTRONS

Ernest O. Lawrence, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application February 3, 1945, Serial No. 576,123  
8 Claims. (Cl. 250-41.9)

1. In a calutron, an ion source comprising wall structure defining an arc chamber, an electron emissive cathode operatively associated with said arc chamber and adapted to discharge electrons thereinto, a source of current connected to three spaced-apart points along said cathode, and means for proportioning the potentials

applied from said source between said three spaced-apart cathode points in order to control the electron emission

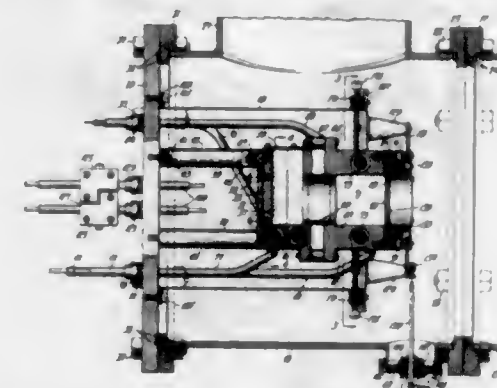


of the corresponding intervening portions of said cathode.

2,715,683

## ION SOURCE FOR A CALUTRON

John G. Backus and Bernard Peters, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission  
Application February 16, 1945, Serial No. 578,280  
6 Claims. (Cl. 250-41.9)

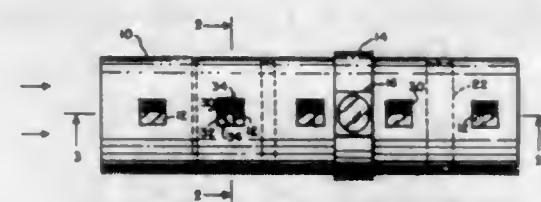


1. A calutron comprising a vacuum vessel having a wall, means for establishing a magnetic field, structure fixed on said wall for forming an arc chamber with an exit slit, means for supplying gas to be ionized to said arc chamber, arc generating means mounted on said structure and associated with said arc chamber and said exit slit, a shield encompassing said structure mounted on said wall, insulating means mounted on said shield, accelerating means mounted on said insulating means in operative relationship with said exit slit, oppositely disposed screws received in said shield and bearing on said structure for displacing said shield with respect to said structure and aligning said slit and said accelerating means, and a collector unit disposed in said vessel for intercepting said accelerated ions.

2,715,684

## RADIATION DETECTION INSTRUMENT

Erich G. K. Schwarz, Eatontown, N. J., assignor to the United States of America as represented by the Secretary of the Army  
Application September 2, 1954, Serial No. 453,976  
7 Claims. (Cl. 250-71)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



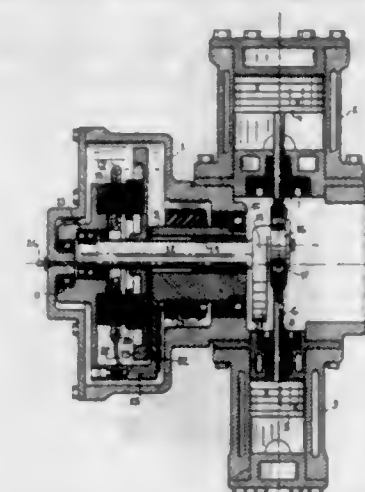
1. An instrument for determining gamma radiation dosage rate comprising a housing consisting of material having a high atomic number, a window which absorbs beta radiation but is transparent to gamma radiation at one end thereof, a plurality of crystals arranged in series therein which fluoresce upon being subjected to gamma radiation, a plurality of discrete gamma radiation

absorbers between adjacent crystals, said absorbers being of progressively increasing gamma radiation absorption capacity whereby a correspondingly greater predetermined gamma radiation energy is required to cause each succeeding crystal to fluoresce, discrete light comparison means corresponding to predetermined gamma radiation dosages associated with each of said crystals, means for shielding said light comparison means from said gamma radiation, and discrete transparent portions in said housing through which the comparison of the fluorescence of each of said crystals and the luminescence of its associated light comparison means may be observed.

2,715,685

## DYNAMO-ELECTRIC MACHINE AND RECIPROCABLE POWER UNIT THEREFOR

Arthur E. Brown, Scotia, N. Y.  
Application March 23, 1953, Serial No. 344,180  
10 Claims. (Cl. 290-1)

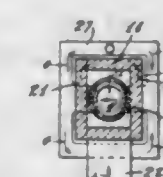


1. A power unit comprising a supporting frame for supporting parts in proper spaced relation, a reciprocable member, said reciprocable member being reciprocable relative to said supporting frame, a carrier member rotatably mounted in said supporting frame, a crankshaft rotatably mounted in said carrier member, said reciprocable member being rotatably connected to said crankshaft at a position eccentric from the axis of said crankshaft, a dynamo electric machine, said dynamo electric machine having a primary magnet member and a secondary magnet member, one of said magnet members being fastened to said carrier member, the other magnet member being fastened to said crankshaft, and said magnet members adapted to rotate relative to each other.

2,715,686

## LINEAR DYNAMOELECTRIC MACHINE WITH LIQUID ARMATURE AND SERIES EXCITATION

Jacob F. Asti, Waukesha, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application November 12, 1953, Serial No. 391,462  
8 Claims. (Cl. 310-11)



1. A linear direct current dynamoelectric machine operable as an electromagnetic generator or as an electromagnetic pump comprising a conduit containing an electrically conductive fluid serving as the armature for said machine, a compensation conductor disposed adjacent said armature and connected in series with said armature for conducting armature current adjacent said



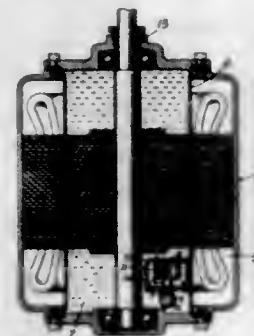
armature in a direction opposite its direction in said armature, a first lead conductor connected to said armature and crossing said conduit adjacent one end of said armature to form a portion of a conductor turn about said armature, a second lead conductor crossing said conduit adjacent the other end of said armature to form another portion of the conductor turn about said armature, said lead conductors, said armature and said compensation conductor being connected in a series circuit effecting a conductor turn about said armature to provide series excitation producing a magnetic field through said armature and said compensation conductor substantially normal to said armature current and the flow of said fluid.

2,715,687

# TEMPERATURE RESPONSIVE VOLUME COMPENSATOR FOR SUBMERSIBLE MOTORS

Lawrence Makous, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application December 18, 1953, Serial No. 399,090  
4 Claims. (Cl. 310—87)



1. In a temperature responsive device for changing the effective volume of a submersible motor to prevent replacement in service through the motor seals of fluid confined in said motor to cool the same, an expansible member located within the motor in contact with the confined fluid with said member being supported against expansion at one end and disposed to expand at the other end, resilient means normally holding said member in expanded position, a second expansible member of a size to displace less volume of fluid than the first named member located within the motor in contact with the confined fluid with said second member being supported against expansion at one end and disposed to expand at the other end in engagement with the expansible end of the first named expansible member, and a fluid in said second named expansible member having an expansion rate upon heating greater than the fluid confined in said motor to compress the first named expansible member by expansion of the second named member through heating of the fluid in the latter by the motor fluid and thereby increase the effective volume of the motor for storage of heated motor fluid and upon cooling of the fluids to decrease the effective volume of said motor for storage of cooled motor fluid.

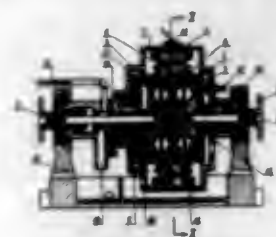
2,715,688

# ELECTRO-HYDRAULIC POWER BRAKES

Otto Häcker, Traisa, near Darmstadt, Germany, assignor to Carl Schenck Maschinenfabrik Darmstadt G. m. b. H., Darmstadt, Germany, a corporation of Germany  
Application August 14, 1951, Serial No. 241,793  
Claims priority, application Germany August 28, 1950  
9 Claims. (Cl. 310—93)

1. A dynamometer comprising a rotatable brake shaft, a first hydraulic brake element directly coupled for rotation with said brake shaft, a second hydraulic brake element indirectly coupled for rotation with said first brake element, and a third brake element including a housing oscillatably mounted on said brake shaft, electrical rotor

armature means extending from said second brake element, electrical stator pole means for coaction with said armature means carried by said third brake element, said



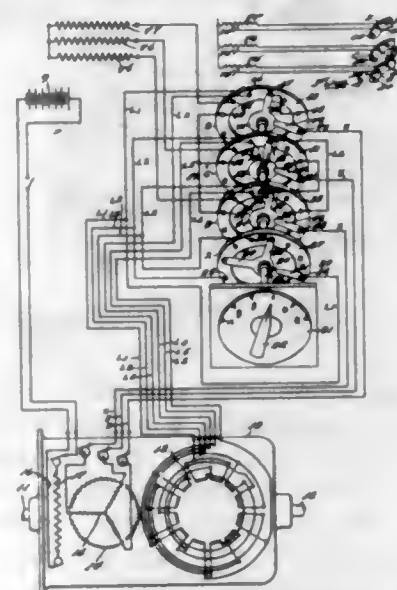
rotatable brake shaft being common to said first hydraulic brake element and said electrical rotor armature, and said housing for said third brake element operatively enclosing said first and second hydraulic brake element.

2,715,689

# VARIABLE RATIO DYNAMOELECTRIC TRANSMISSION

Thomas D. Bowes, Bala-Cynwyd, Pa.

Application November 5, 1952, Serial No. 318,944  
4 Claims. (Cl. 310—102)



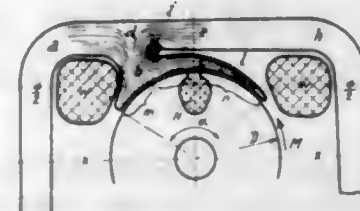
1. A dynamoelectric transmission comprising a driven rotor, a rotatable generator armature in operative relation to the rotor, a rotatable motor member and a stator motor member, said stator member having related windings with input leads for a maximum multipole motor energization or selectively for a minimum pole motor energization, means for selectively energizing the respective input leads from the generator output to selectively establish the ratio of drive between the driven rotor and the rotatable motor member, and means for synchronously short-circuiting the connections of the minimum motor pole organization as the connections for the maximum motor pole organization are coupled to the generator output.

2,715,690

# SALIENT POLE FOR COMMUTATOR MACHINES

Otto Neuenschwander, Kilchberg-Zurich, Switzerland

Application February 28, 1952, Serial No. 274,005  
2 Claims. (Cl. 310—220)



1. In small unidirectional commutator machines having a stator comprising yokes, an armature rotatably mounted in said stator for cooperation with brushes, salient poles projecting from the inside of said stator yoke,

and a stator winding surrounding each of said poles, each of said poles comprising a pole shoe with an armature facing surface having a contour closely conforming to the circumference of said armature, and a pole neck connecting said pole shoe to said stator yoke at one side of the center line of said pole shoe so as to provide a free space between said yoke and said pole shoe extending from one edge of the pole shoe to the opposite side of said center line of the pole shoe whereby to facilitate the mounting of said stator winding, the radial thickness of said pole shoe at the center line being less than the thickness of said yoke and the configuration of said pole shoe and thickness of said pole neck being such as to increase the magnetic reluctance therein in a peripheral direction and to effect a substantially even distribution of the magnetic flux over the entire area of the pole shoe facing the armature so as to substantially suppress the "armature reaction" while enabling the brushes to remain in the magnetically neutral zone at all charges.

2,715,691

# VAPOR DISCHARGE LAMP

George Meister, Newark, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1951, Serial No. 234,395  
1 Claim. (Cl. 313—25)



A cesium vapor lamp adapted to operate at about 2 watts per square centimeter of the inner envelope surface area to maintain said cesium as a vapor at a temperature at about 300° C. and comprising an inner vitreous light transmitting envelope, oppositely disposed electrode mounts in said inner envelope and each having at least two tungsten leading-in conductors and a filamentary electrode thereon, an hermetic seal between said conductors and said inner envelope, with said conductors being oxide-free at least along substantially the length of said hermetic seal thereon, said seal having degasified borosilicate glass hermetically fused directly to said oxide-free tungsten conductors without an oxide bond at the metal-glass interface and through a degasified borosilicate glass button to said inner envelope, an ionizable medium in said inner envelope for initiating and sustaining a discharge admixed with small quantity of cesium which is readily vaporizable and an outer evacuated vitreous light transmitting envelope enclosing said inner envelope for conserving the heat of operation.

2,715,692

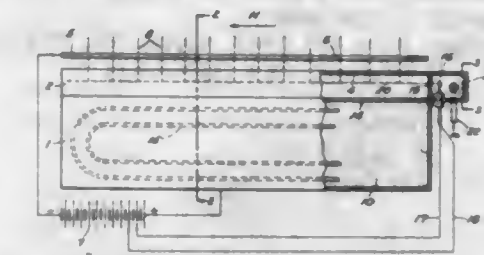
# ION PRODUCING APPARATUS

Alvin B. Cardwell, Manhattan, Kans., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application September 20, 1946, Serial No. 698,338  
16 Claims. (Cl. 313—63)

1. Apparatus for developing gaseous ions of a source material comprising an ionization chamber, means for

traversing said chamber with an ionizing electron stream, means for introducing vapor of the source material into said chamber at one position to be ionized by said electron



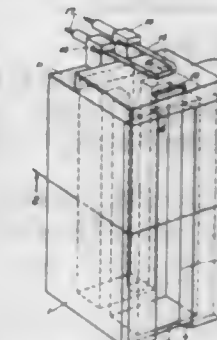
stream, and separate means, removed from said source gas introducing means, for introducing an additional gas into said chamber at a different position.

2,715,693

# DEEP COLLIMATING SLOT

Stephen M. MacNellie, Oak Ridge, Tenn., and Kenneth R. MacKenzie, Vancouver, British Columbia, Canada, assignors, by direct and mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application May 5, 1947, Serial No. 746,032  
7 Claims. (Cl. 313—63)



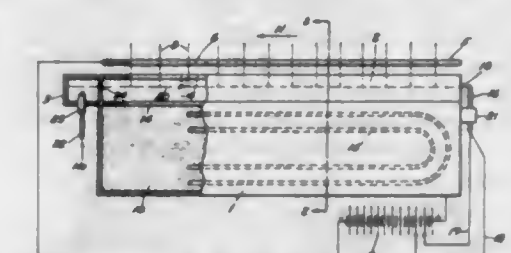
6. An ion producing mechanism of the character described comprising an ionizing chamber adapted to receive gaseous vapors, a cathode for feeding electrons into said chamber to ionize the vapors, a deep slotted thickened barrier interposed between said cathode and said ionizing chamber to permit the flow of electrons while lowering the critical alloying voltage of the cathode and reducing ion bombardment, said barrier having a thickness at least five times the width of said slot, an opening for said ionizing chamber, and electrodes positioned on either side of said opening to provide an accelerating potential for the ejection of ions from said ionizing chamber.

2,715,694

# ION PRODUCING APPARATUS

Hubert P. Yockey, Inglewood, Calif., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application May 9, 1947, Serial No. 747,063  
18 Claims. (Cl. 313—63)



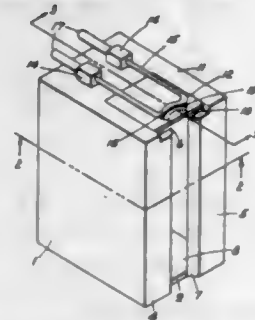
1. Apparatus for developing gaseous ions comprising an ionization chamber, means for traversing said chamber with an ionizing electron stream, means for introducing the gas to be ionized into said chamber, and means disposed at the anode end of said electron stream for introducing into said chamber a gas different from the gas to be ionized.



2,715,695

## ION PRODUCING MECHANISM

James A. De Juren, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application June 19, 1947, Serial No. 755,551  
5 Claims. (Cl. 313-63)

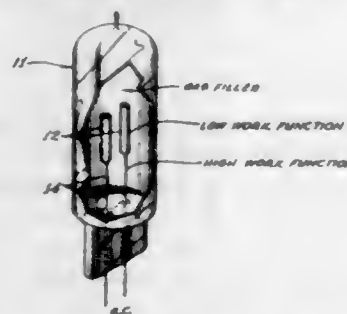


1. An ion producing mechanism of the character described comprising an ionizing chamber adapted to receive gaseous vapors, a cathode positioned outside of said chamber for striking an arc across it to ionize said vapors, an opening in the ionizing chamber to permit the egress of ions therefrom, and means providing a barrier having a slot with a constricted central portion for the passage of electrons to define an arc of substantially uniform ion density.

2,715,696

## GAS-FILLED DISCHARGE LAMP

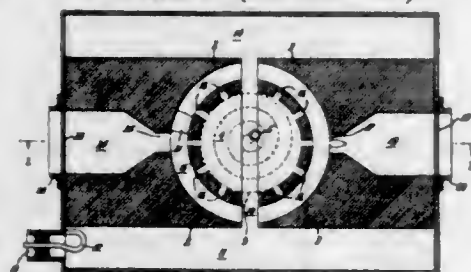
Robert D. Hancock, Compton, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California  
Application August 28, 1951, Serial No. 244,003  
2 Claims. (Cl. 313-210)



1. A glow tube consisting of an envelope having a filling of a gas at glow discharge pressure, a pair of cylindrical cold electrodes positioned parallel to each other in said envelope, both said electrodes being identical and made throughout of thoriated tungsten, a lead wire connected to each said electrode and passing through said envelope, said lead wires being exposed at their inner ends to said gas within said envelope, each of said leads being identical and made of platinum, whereby when a suitable source of alternating potential is connected across said lead wires, both said electrodes will glow equally and said inner ends of said lead wires will not glow.

2,715,697

MICROWAVE ELECTRON DISCHARGE DEVICE  
Stanley E. Webber, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York  
Application February 27, 1951, Serial No. 212,939  
19 Claims. (Cl. 315-39)



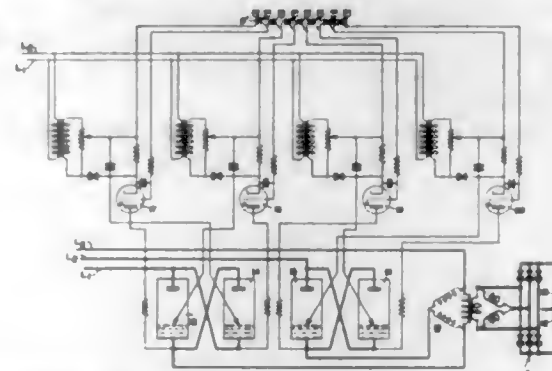
1. Microwave apparatus comprising an evacuated structure including a plurality of hollow electrodes

forming a substantially circular evacuated space, said hollow electrodes being separated by a gap, an electron emitting cathode within said circular space, means to provide a magnetic field through said space whereby the electrons emitted by said cathode travel in orbital paths about the cathode and repeatedly traverse said gap, means to apply alternating voltage across said gap whereby said electrons are accelerated to high velocities, and a wave guide structure around the periphery of said orbital paths for transmitting electromagnetic waves at substantially the same angular velocity as the fully accelerated electrons.

2,715,698

## POWER CONTROL CIRCUIT PARTICULARLY FOR ELECTRIC RESISTANCE WELDERS

Joseph J. Riley and William S. Dustman, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio  
Application August 15, 1951, Serial No. 242,002  
6 Claims. (Cl. 315-197)



1. In apparatus for controlling the flow of electric power from an alternating current source and having a pair of discharge valves connected in inverse parallel relation and each having an ignition electrode and an associated grid-controlled discharge device for conducting current to the said electrode, the improvement comprising a second pair of grid-controlled discharge devices connected to be energized by said source and when energized to apply biasing potentials to the grids of the first mentioned discharge devices, means to apply to the grids of said second pair of discharge devices periodic control potentials bearing pre-selected phase relation to the alternations of the source, a grid-controlled discharge device connected in series in the energizing circuit for said second pair of discharge devices, a further grid-controlled discharge device connected in parallel with said second pair of devices and the last named device, timing means to apply a positive biasing potential to said further discharge device for a predetermined number of cycles, means to initiate conduction in said last named discharge device simultaneously with initiation of conduction in said further discharge device, and energy storage means to apply a positive potential to the grid of said last named discharge device for a part of the half cycle of the source following the cessation of conduction of said further discharge device.

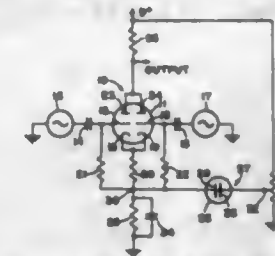
2,715,699

## ZERO BEAT INDICATOR

James M. Lawther, State College, Pa., assignor to the United States of America as represented by the Secretary of the Navy  
Application February 28, 1950, Serial No. 146,821  
2 Claims. (Cl. 315-208)

1. The combination with an electronic frequency mixer including at least one anode, at least one cathode and at least two control electrodes, means for impressing on said control electrodes voltages of the frequencies to be mixed, a source of direct current, an anode circuit including an anode load resistor connected between said current source and said anode, and a cathode circuit in-

cluding a cathode load resistor connected between said current source and said cathode, of a zero beat indicator including a bleeder resistor connected across said current source, and a glow-discharge lamp having one electrode connected to the cathode end of said cathode load resistor and the other electrode connected to an intermediate

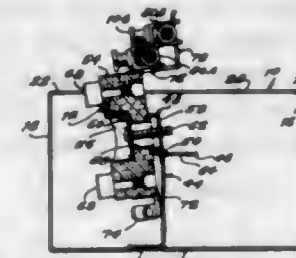


point on said bleeder resistor selected to develop a potential difference across said glow-discharge lamp near but less than the breakdown voltage of said lamp whereby a beat signal voltage appearing in the cathode circuit of said mixer alternately augments and diminishes said potential difference and thereby causes said lamp to flicker at the frequency of the beat signal.

2,715,700

## ADJUSTABLE MOUNT FOR ELECTRIC METERS

Victor L. Rothstein, Long Island City, and Eugene Kron, Floral Park, N. Y., assignors to Federal Electric Products Company, Essex County, N. J., a corporation of Delaware  
Application January 8, 1952, Serial No. 265,508  
7 Claims. (Cl. 317-109)

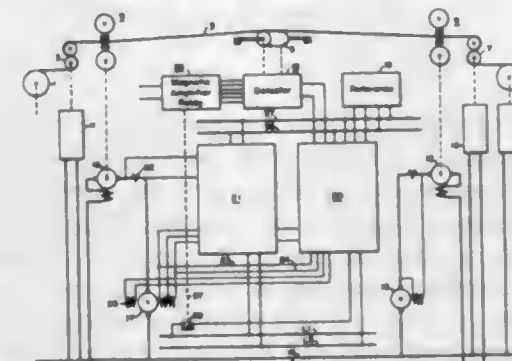


1. An electric meter trough provided with a front opening, meter socket support means within said trough, a meter socket provided on said support means and normally disposed thereby inwardly of said front opening, electric wiring terminals provided on said socket, and means for moving said socket, while mounted on said support, from said normal position thereof to a position in which said terminals have passed through said opening and are disposed outwardly of the trough, whereby to facilitate the wiring of said terminals.

2,715,701

## MOTOR REGULATION FOR STRIP TENSION CONTROL

Raymond W. Moore, Snyder, and Arthur O. Fitzer, Eggertsville, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application September 30, 1953, Serial No. 383,208  
16 Claims. (Cl. 318-6)



1. A control system for a tension device having a pair of rolls between which a strip of material is disposed to

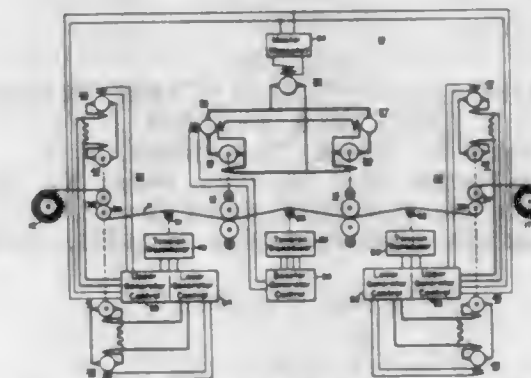
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pass comprising, a first and a second electric motor each connected in driving relation with one of the pair of rolls, said first and second motors adapted to be connected across a power source, a generator connected in circuit relationship with said first motor, first and second individual sets of field windings for said generator, at least one magnetic amplifier stage connected to energize said first set of field windings, means for supplying a flux to the magnetic amplifier cores of said magnetic amplifier stage in accordance with the difference in a reference signal and a signal which is a function of the tension in the strip of material between the two rolls, said second individual set of field windings for said generator being connected to control means for said magnetic amplifier stage to supply said magnetic amplifier cores in accordance with the rate of change of voltage of said generator.

2,715,702

## MOTOR CONTROL SYSTEMS FOR TENSION CONTROL

Amos J. Winchester, Jr., Lockport, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application August 19, 1950, Serial No. 180,405  
11 Claims. (Cl. 318-7)



1. In a control system for a tension device having a pair of rolls about and between which a strip of material is disposed to pass, a dynamo electric machine connected in driving relation with each of the rolls, a principal generator individual to each dynamo electric machine, a regulating generator individual to each principal generator, each of said regulating generators having a plurality of field windings including current and pattern field windings, and circuit means including a manual transfer switch connected in one position to effect limited energization of the current field windings in accordance with the armature current of its associated principal generator and effect energization of the pattern field windings in accordance with the tension of the strip, said switch being operable to another position to connect the pattern field windings to a source of control voltage and increase the energization of the current field winding in accordance with the current.

2,715,703

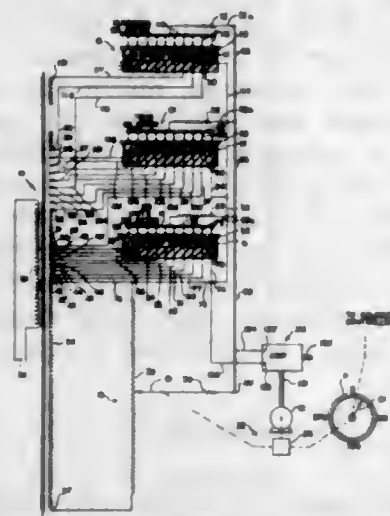
## REMOTE DIGITAL CONTROLLERS

Oscar Hugo Schuck, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application June 29, 1950, Serial No. 170,971  
3 Claims. (Cl. 318-28)

2. In a device of a class described, in combination: a member to be adjusted into any selected one of a plurality of conditions serially identified by successive whole numbers in the decimal system; a voltage source having groups of taps for supplying voltages in increments of one, ten, and one hundred units, each group including not more than ten taps; means making contact with not more than one tap in each group in accordance with the values of the digits of a selected condition identifying number; means combining the voltages supplied by the



taps so contacted to comprise a control signal; a variable voltage source having a maximum voltage proportional to the largest condition identifying number; motor means varying said variable source and simultaneously deter-

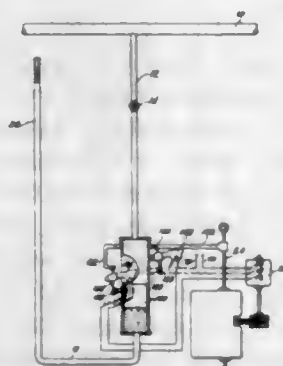


mining the condition of said member; and means responsive to any difference between said control signal and said variable signal for causing operation of said motor means to adjust the condition of said member and to vary said variable signal until it becomes equal to said control signal.

#### 2,715,704 FOLLOW-UP TYPE OF ELECTRIC MOTOR CONTROL SYSTEM

Gerald S. Carrick, Pleasantville, N. Y.  
Original application May 10, 1945, Serial No. 593,073,  
now Patent No. 2,555,674, dated June 5, 1951. Di-  
vided and this application May 23, 1951, Serial No.  
227,850

4 Claims. (Cl. 318—31)

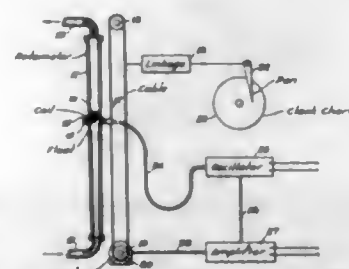


3. In an automatic device operative by variations in fluid pressure, hollow means for containing a liquid column, means for varying the level of said column in response to variations in said pressure, a magnet disposed to float at the surface of the liquid in said member, a pair of electric switches vertically spaced beside said hollow member, each switch including magnetic means attractable by said magnet for operating the respective switch, said switches being located relative to said hollow member so that the magnet therein is normally opposite the magnetic means of the lower switch and below the magnetic means of the upper switch whereby an increase in liquid level raises the magnet to a position in which it attracts the magnetic means of the upper switch and a decrease in level lowers the magnet to a position in which it releases the magnetic means of the lower switch, a reversible electric motor connected to be operated in one direction in response to the attraction of the magnetic means of said upper switch and in the opposite direction in response to the release of the magnetic means of said lower switch, and means driven by said motor for moving said switches in the same direction as the direction of movement of the liquid and said magnet which resulted in the operation of the motor.

#### 2,715,705 MOTOR CONTROL SYSTEM FOR INDICATING AND RECORDING ROTAMETER

Ormond E. Barstow, Lloyd Taylor Finlayson, and William A. Bridge, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application July 16, 1951, Serial No. 237,047  
4 Claims. (Cl. 318—31)

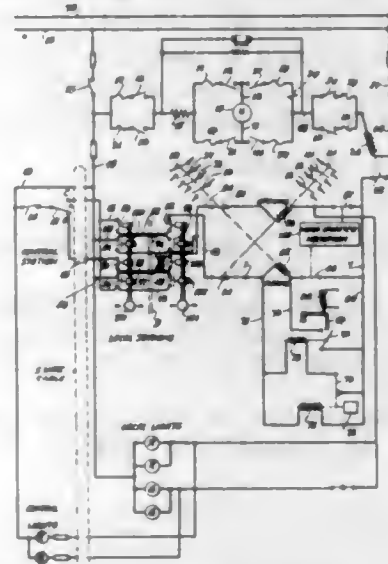


1. In a meter having a metal-containing indicating element confined for movement in a fixed path, a single electrical detector coil encircling the path, a carriage holding the coil and mounted for travel along the path, and a reversible motor for moving the carriage, the improved system for controlling the reversible motor which comprises an electron-tube radio-frequency oscillator having a tuning circuit connected to include the detector coil and arranged to produce one direct-current output potential when the coil is remote from the indicating element and a different output potential when the coil is encircling the element, an opposed source of direct current reference potential smaller than the one oscillator output potential but larger than the other, and an electron-tube power amplifier having as its input the potential difference between the oscillator D. C. output potential and the reference potential and having its output connected to actuate the reversible motor to move the carriage in a direction to cause the two opposed potentials to be equated.

#### 2,715,706 MOTOR CONTROL CIRCUIT

Pao H. Chin, Elizabeth, N. J., assignor to Continental Engineering Corporation, Flemington, N. J., a corporation of New Jersey

Application November 30, 1949, Serial No. 130,171  
21 Claims. (Cl. 318—264)

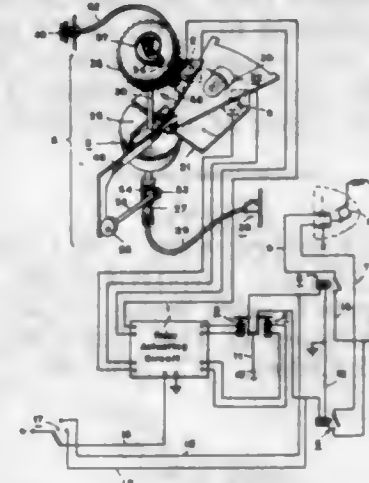


1. A motor control circuit comprising a circuit for a motor including normally open contactor means, and a torque relay connected in series with the contactor means which is energized upon a heavy operating current flow therethrough; a control circuit connected in shunt with the motor circuit including in series manually operated switch means having a single output terminal, an operating relay connected with the normally open motor circuit contactor means to close the same, and a normally open torque contactor; means to hold the torque contactor

closed when closed and connected with the torque relay in the motor circuit for release of the holding means, and means connected in the control circuit with the single output terminal and shunting at least the torque contactor and operated upon closing of the manually operated switch means, said means being connected with the torque contactor to close the same and hold it closed for a predetermined period.

#### 2,715,707 AUTOMATIC MOTOR CONTROL FOR VARYING PROPELLER PITCH

Robert Haskins, Richmond, Va., assignor to Flight Research, Incorporated, a corporation of Virginia  
Application December 20, 1950, Serial No. 201,795  
19 Claims. (Cl. 318—283)



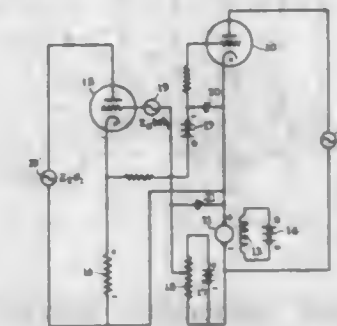
1. In a condition responsive control system for a reversible control motor, the combination of two light sensitive devices, means selectively controlled by said devices for operating the motor in one direction when one light sensitive device is activated and in the opposite direction when the other light sensitive device is activated, a light source for activating said light sensitive devices, two opaque shutter members interposed between said source and said light sensitive devices, means supporting said shutter members for independent oscillatory movement transversely of the light path from said source to said light sensitive devices, condition responsive means operatively associated with one of said shutter members to move said one shutter member in one direction to expose one of said light sensitive devices to light from said source in response to an excess condition and in the opposite direction to expose the other of said light sensitive devices to light from said source in response to a deficiency condition, and power means independent of said condition responsive means and operatively connected to the other of said shutter members to continuously oscillate the same, whereby the flow of light from said source to either of said light sensitive devices exposed by movement of said first mentioned shutter member is cyclically interrupted to prevent said system from hunting.

#### 2,715,708 ELECTRONIC MOTOR SPEED CONTROL

Oscar E. Carlson, Paterson, N. J.  
Application June 4, 1954, Serial No. 434,517  
4 Claims. (Cl. 318—331)

1. A running speed control system for D. C. motors comprising: grid controlled gaseous rectifier means connected to supply D. C. voltage to the armature of the motor from an A. C. source; means comprising an electrical load device; means for supplying D. C. voltage to said load device including a thyatron and means for supplying the anode-cathode circuit of said thyatron through said load device with only an A. C. voltage, the magnitude of the A. C. voltage being of the order of three to five times the magnitude of the anode-cathode voltage of said gaseous rectifier means; means connecting oppo-

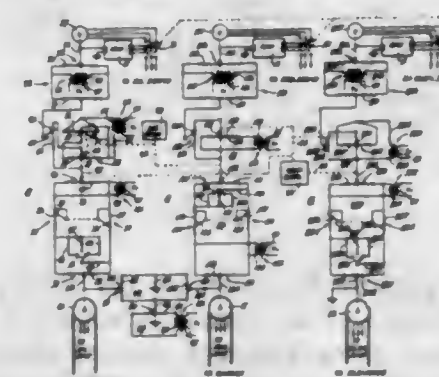
site ends of said load device to the grid and cathode circuits of said gaseous rectifier means; means connected to the grid of said thyatron for supplying thereto, an A. C. voltage which is substantially 90 degrees out of phase with the anode voltage; means providing a D. C.



reference voltage; means connecting in the thyatron grid to cathode circuit a voltage which is the resultant of a voltage proportional to the back E. M. F. of the motor connected in series with the phase shifted A. C. voltage and in series opposition with the D. C. reference voltage; and means for immersing the motor armature in a uni-directional magnetic field.

#### 2,715,709 AIRCRAFT STEERING APPARATUS

John F. Schoepel, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application December 8, 1944, Serial No. 567,254  
50 Claims. (Cl. 318—489)



2. A motor control system which includes: a main controller; a rebalancing controller; a motor to be controlled, and operatively connected to said rebalancing controller; means actuated by the unbalance between said main controller and said rebalancing controller and connectable to said motor to operate said motor to reduce said unbalance; means to shift the point of unbalance between said main controller and said rebalancing controller at which said first means will cause said motor to operate, said means being connectable to said first means and operated thereby; and means for selectively connecting said first means to said motor or to said second means.

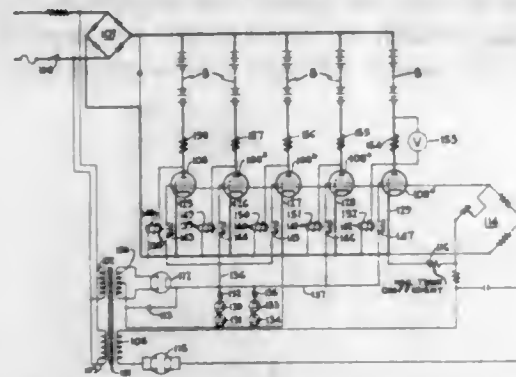
#### 2,715,710 BATTERY CHARGER

James B. Godshalk, Philadelphia, and Aaron Anton, Glenside, Pa., and Gerard Rezek, Collingswood, N. J., assignors to Fox Products Company, Philadelphia, Pa., a corporation of Pennsylvania  
Application August 20, 1952, Serial No. 305,454  
11 Claims. (Cl. 320—22)

1. In a charging apparatus for maintaining a plurality of batteries at a given state of charge, the combination of a charging circuit for supplying direct current to the batteries, adjustable means for supplying a substantially constant current for changing number of batteries connected in said charging circuit in series with the batteries, a temperature responsive device subjected to ambient temperature, and electrical means controlled by said temperature responsive device and arranged to



adjust said adjustable means to change the value of the current supplied by the adjustable means in response to



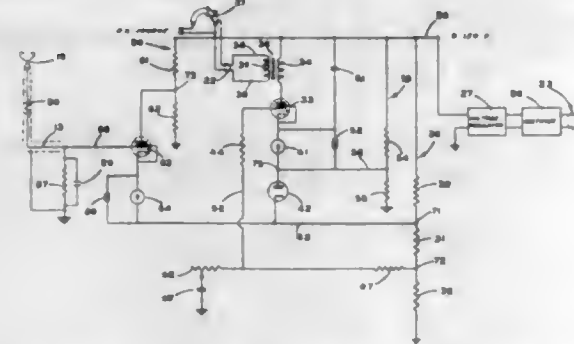
changes in ambient temperature detected by said temperature responsive device.

2,715,711

# METHOD AND MEANS FOR CHECKING IGNITION TIMING OF AN INTERNAL COMBUSTION ENGINE

Lawrence V. Wells and Ralph J. Weidner, Kalamazoo Township, Kalamazoo County, and Lee W. Parmater, Cooper Township, Mich., assignors to Allen Electric Equipment Company, Kalamazoo, Mich., a corporation of Michigan

Application December 31, 1952, Serial No. 328,978  
43 Claims. (Cl. 324-16)



32. In apparatus for checking the timing adjustment of the distributor of an internal combustion engine, the combination: a lamp having a starting electrode; a triggering circuit means for energizing said starting electrode and connectible to a source of power; means repeatedly and successively energizing said triggering circuit in response to the repeated and successive creation of energizing impulses for a selected spark plug; and triggering circuit means including time delay means energizing said starting electrode a predetermined period of time following each time of energizing of said triggering circuit; an indicator indicating the ratio of each of said several predetermined periods of time with respect to the duration of each cycle in which the predetermined periods of time respectively occur.

2,715,712

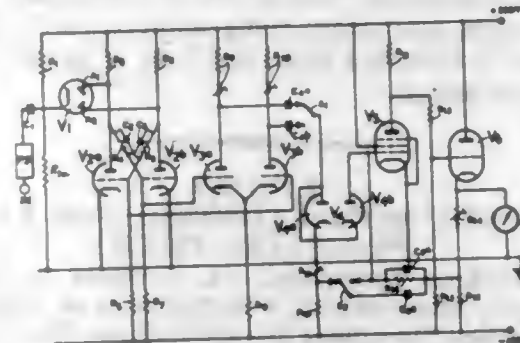
# INTEGRATING CIRCUITS

Edgar William Pulsford, Strand, London, England, assignor, by mesne assignments, to National Research Development Corporation, London, England, a corporation of Great Britain

Application August 16, 1950, Serial No. 179,766  
3 Claims. (Cl. 324-78)

1. A pulse rate measuring circuit comprising, means deriving constant amplitude voltage steps at a rate related to the input pulse rate, means applying the voltage steps to a first plate of a feed condenser having the second plate connected to an electrode of one polarity of a first diode and to an electrode of opposite polarity of a second diode, a reservoir condenser having a first plate connected to the other electrode of one of said diodes, a resistance in shunt with said reservoir condenser to form a rate circuit, a high gain negative feed back

D. C. amplifier having an input grid forming a substantially fixed reference point of potential, means connecting the first plate of said reservoir condenser to said input grid, means connecting the remaining diode electrode to



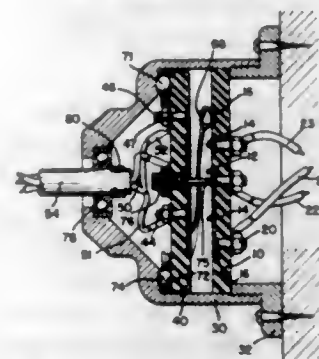
a further substantially fixed reference point of potential having a low impedance to earth, means connecting the second plate of said reservoir condenser to the output of said amplifier, and voltage measuring means connected across the output of said amplifier.

2,715,713

# SWIVEL CONNECTOR FOR A PLURALITY OF ELECTRIC CONDUCTORS

Morris T. Selm, Seattle, Wash.

Application October 12, 1951, Serial No. 251,015  
5 Claims. (Cl. 339-8)



3. A swivel connector for a plurality of electrical conductors, comprising: a hollow housing having an axially aligned opening in one end; a brush plate and a collector ring plate positioned in said housing coaxial with each other and with said opening and spaced apart from and parallel to each other; said collector plate having a plurality of spaced conductor rings coaxial with said opening and said brush plate having a plurality of resilient, helical brush members extending obliquely from said brush plate and having revoluble contact rollers at their distal ends bearing on said conductor rings, there being at least two brushes for each conductor ring; an anti-frictional bearing between said housing and said brush plate rotatably mounting said brush plate; electrical conductor means secured to said collector ring plate and a cable positioned in said opening and secured to said brush plate and said housing having anti-frictional bearing means positioned adjacent said opening rotatably supporting the cable and including thrust means holding said cable against withdrawal from said housing, said electrical conductor means and said cable having separate strands connecting to said brush members and conductor rings.

2,715,714

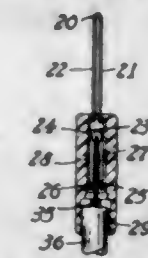
# TERMINAL CONNECTORS

George Pavlinetz, Carteret, N. J.

Application May 19, 1950, Serial No. 162,932  
6 Claims. (Cl. 339-213)

1. A terminal connector having oppositely disposed elongated leg portions to be received within a socket, said portions being joined at one end and being provided at their free ends with inwardly and upwardly extend-

ing supporting terminations, and a U-shaped insert received between said leg portions and contacting and supported by said supporting terminations, and an insulating sleeve received over said elongated leg portions, said sleeve having an apertured end wall, said elongated leg portions extending through the apertured end



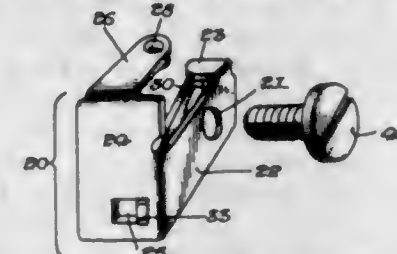
of said sleeve, said sleeve engaging said free ends for forcing said free ends toward each other and said insert into contact with a conductor received within said insert, said insert being grooved on its inside surfaces to provide serrations, the grooves of one surface registering with the intermediate portions between the grooves of the other surface.

2,715,715

# CLAMP-TYPE WIRE TERMINAL WITH INSULATING HOUSING

Robert H. Bentley, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut

Application October 1, 1953, Serial No. 383,558  
7 Claims. (Cl. 339-216)



1. A wire terminal for electrical devices comprising a stationary member having a side plate portion and an end plate portion bent at substantially a right angle thereto, one of said portions having an aperture therein, a clamping member having a tapped hole, a screw having its shank passing freely through said aperture and threaded into said tapped hole for causing said clamping member to move toward and from said apertured portion, said clamping member having a portion adjacent one end extending into an orifice in the other portion of said stationary member, said portion adjacent said end being made larger than the corresponding dimension of said orifice to maintain said clamping member hingedly mounted on said stationary member with said aperture and tapped hole in register, the end of said clamping member opposite the hinge being free and an insulating housing enclosing said terminal and having an opening in one wall through which said screw is insertable into said terminal, means for mounting said stationary terminal member in said housing across said opening with said clamping member in back thereof, and a lug bent from the top edge of said apertured portion positioned over an opening in said housing through which the bared end of a conductor wire may be inserted between said clamping member and said stationary member, said lug limiting the insertion of said bared end to a predetermined length.

2,715,716

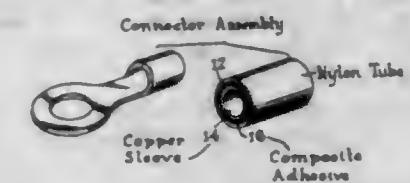
# NYLON INSULATED ELECTRICAL CONNECTOR AND METHOD OF MAKING THE SAME

Harold O. Woolley, Jr., Lemoyne, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa.

Application August 11, 1952, Serial No. 303,825  
4 Claims. (Cl. 339-276)

1. An insulated electrical connector of the type which is adapted to be applied to a wire by severe deformation

and plastic flow of the wire and of the connector including its insulation, said connector comprising a soft conductive metal tube adapted to receive said wire for crimping thereto, a nylon insulating tube fitted over said metal tube and an intermediate composite cementing layer bonding the outer surface of the metal tube to the inner surface of



the nylon tube, said composite cementing layer comprising an inner layer composed essentially of a mixture of vinyl chloride-vinyl acetate copolymer and a phenolic resin bonded to said metal tube, and an outer layer composed essentially of a resorcinol-formaldehyde resin bonded to said nylon tube, said two adhesive layers being bonded to one another.

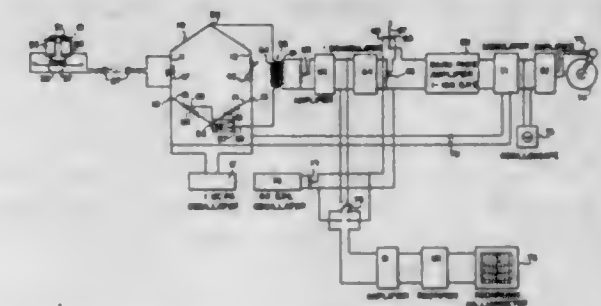
2,715,717

# METHOD AND APPARATUS FOR MEASURING AND ANALYZING TRANSIENT PRESSURES IN A BODY OF WATER

Joseph F. Keithley and Matthew L. Sands,

Washington, D. C.

Application March 25, 1943, Serial No. 480,576  
16 Claims. (Cl. 340-4)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



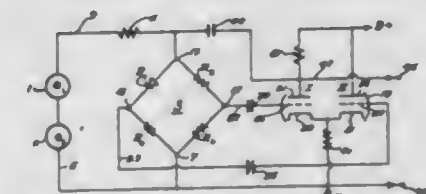
16. Apparatus for measuring low frequency pressure changes comprising, in combination, a source of alternating current, a pressure responsive inductive means energized from said source for producing signals corresponding to said pressure changes as modulations of said alternating current, an electroresponsive device connected to said inductive means and responsive to said signals, and adjustable means for rendering the inductive means non-resonant to the alternating current.

2,715,718

# VOLTAGE-SELECTION AND COMPARISON SYSTEM AND METHOD

Malcolm C. Holtje, West Concord, Mass., assignor to General Radio Company, Cambridge, Mass., a corporation of Massachusetts

Application May 13, 1954, Serial No. 429,443  
18 Claims. (Cl. 340-149)



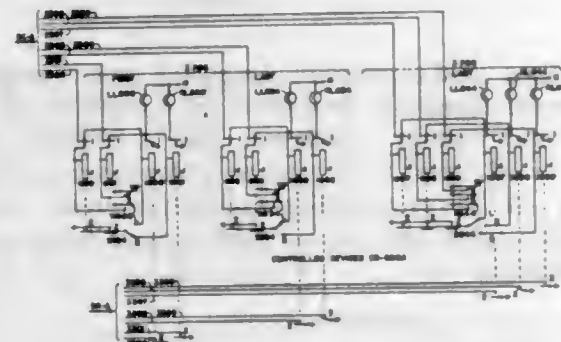
1. An electric system having, in combination, a bridge provided with an input and an output, at least one of the arms of the bridge containing a non-linear device, means for applying a voltage to the input of the bridge to vary the impedance of the non-linear device, and differential



amplifying means interconnecting the input and output of the bridge to provide a pair of opposite polarity feedback loops.

2,715,719

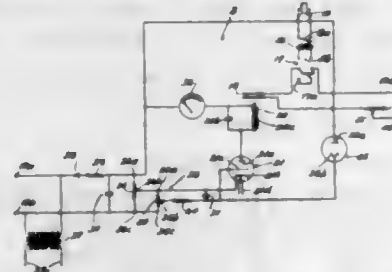
**REMOTE SUPERVISORY AND CONTROL SYSTEM**  
John I. Bellamy, Wheaton, and Paul W. Hemminger, Calumet City, Ill., assignors, by mesne assignments, to International Telephone and Telegraph Corporation, a corporation of Maryland  
Application June 14, 1951, Serial No. 231,584  
4 Claims. (Cl. 340-163)



1. In a remote control system including a control station and field devices under the control thereof, each field device being capable of assuming any one of a plurality of positions, position-control wires extending from the control station to each field device comprising respective wires for the said positions of such device, position-control means at the control station for maintaining any said control wire of any field device energized continuously according to the position currently desired for such field device, response means in each field device responsive to the said continuous energization of any said associated control wire for causing the field device to assume and maintain the corresponding position, and means local to any said field device for opening each of the control wires thereof between the control station and the response means of such field device and for energizing the local end section of any desired opened wire.

#### 2,715,720 FIRE-SMOKE DETECTION AND WARNING APPARATUS

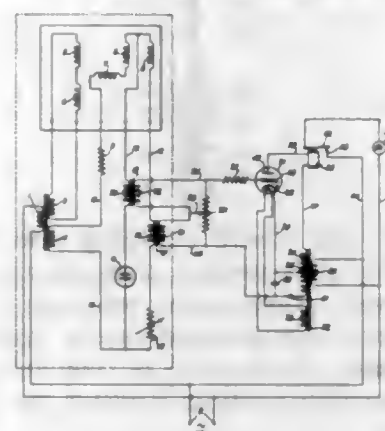
Felton S. Jenkins, Philadelphia, Pa.  
Application October 25, 1951, Serial No. 253,069  
1 Claim. (Cl. 340-228)



In automatic smoke detecting and warning apparatus, a sensing unit comprising: a rectifier; a resistor connected with the rectifier and having two end terminals and an intermediate tap; a potentiometer connected between the tap and one terminal of said resistor, the potentiometer having a movable arm; an electron tube having at least a plate, a grid and a cathode, the cathode being connected to said tap; an electromagnet connected between said plate and the other of the terminals of said resistor; a photoelectric tube having an anode and a cathode, the anode being connected to the other of the terminals of said resistor; a second resistor connected between the movable arm of said potentiometer and the cathode of said photoelectric tube; and an electrical connection between said grid and the cathode of said photoelectric tube.

#### 2,715,721 SIGNAL CONTROL CIRCUIT FOR COUPLING TO METERING SYSTEM

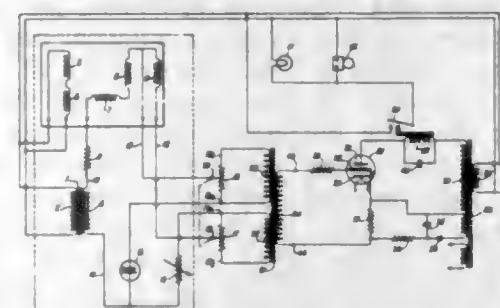
Eric R. Behn, Garden City, N. Y., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York  
Application November 5, 1949, Serial No. 125,812  
3 Claims. (Cl. 340-253)



1. In an electrical signaling apparatus adapted to compare the respective values of a reference current and a current which is variable with respect thereto, a pair of transformers having primary and secondary windings, said primary windings respectively being energized by said two currents, a comparison network coacting with said secondary windings and including means setttable to produce a null condition of said network when said two currents are in a balanced relationship to each other, signal means coupled to said comparison network and responsive to the output voltage thereof for giving a warning indication when said currents are unbalanced in one sense, and signal suppression means effective when said currents are unbalanced in the opposite sense to prevent said signal means from giving said warning indication.

#### 2,715,722 SALINITY INDICATING SYSTEM

Matthew J. Rells, New York, N. Y., assignor to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York  
Application September 2, 1950, Serial No. 183,067  
3 Claims. (Cl. 340-253)

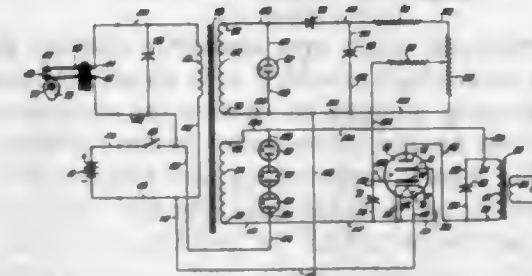


1. In a measuring apparatus adapted to compare the respective values of a variable alternating input current and another independently variable input current of the same frequency, a transformer having a pair of primary windings and a single secondary winding, a pair of resistors each having its terminals connected to the ends of a respective primary winding, a tap on each of said resistors, and means to apply each of said input currents to a tap and a terminal of a respective resistor to energize said primary windings in phase opposition with respect to their effects upon said secondary winding, the location of the tap on at least one of said resistors being variable so that the relative locations of said taps on their respective resistors are adjustable to produce a null condition in the secondary winding of said transformer when said input currents are in any given ratio, whereby an output voltage occurring in said secondary winding is indicative of a ratio deviation of said input currents from the ratio for which said taps are relatively adjusted and

the phase relationship of said output voltage with respect to said input currents in indicative of the direction of said ratio deviation.

#### 2,715,723 VEHICLE SPEEDOMETER HAVING ELECTRICAL ALARM SYSTEM

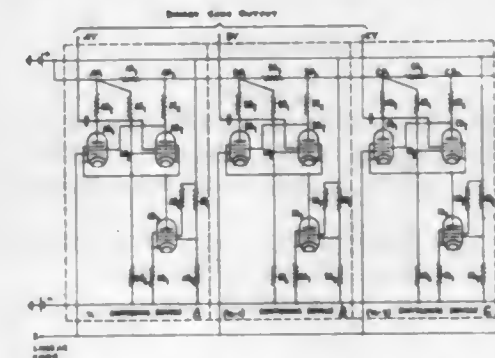
Raymond C. Webster, Kansas City, Mo., assignor to W. E. Anderson, Inc., Kansas City, Mo.  
Application February 23, 1954, Serial No. 412,003  
3 Claims. (Cl. 340-263)



1. A speed alarm for an automobile having a battery and a rotating speedometer shaft, said alarm comprising an indicating device requiring electrical power for operation; an output transformer having a primary winding and a secondary winding, the latter being coupled with said device; a power transformer having a primary winding and a secondary winding; a power circuit coupling the secondary of the power transformer with the primary of the output transformer; a pulse generating circuit adapted to couple the primary of the power transformer with said battery; an electrical switching assembly adapted for coupling with said shaft, connected in series with said pulse generating circuit and adapted for alternately making and breaking said last-mentioned circuit during each revolution of said shaft; electronic gating means coupled in said power circuit and adapted for selectively opening and closing said power circuit; and a control circuit coupled with said pulse generating circuit and with said gating means for controlling the latter to close said power circuit only when the frequency of generation of pulses by the pulse generator circuit exceeds a predetermined rate.

#### 2,715,724 CONVERTER FOR LINEAR AND BINARY CODES

Roelof Maarten Marie Oberman and Antonie Snijders, The Hague, Netherlands, assignors to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands  
Application October 29, 1951, Serial No. 253,634  
18 Claims. (Cl. 340-347)

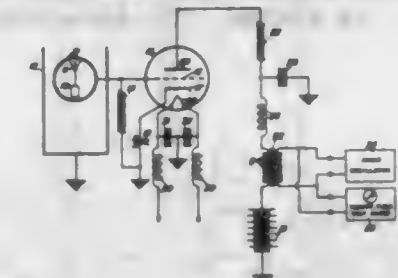


1. A static circuit for interconverting linear voltage and binary codes comprising: a series connection of successively geometrically proportioned resistors corresponding in number to the elements of the binary code, a number of switching devices corresponding to each resistor, each switching device comprising a pair of crosswise coupled electron discharge tubes each having an anode of at least one tube, the anodes of each pair of said tubes being connected to the resistor corresponding

to that device, separate voltage divider circuits for each device providing a given bias to the control grid of at least one of said pair of tubes to aid in controlling the operation of said switching devices, a linear voltage code connection multiplied to each device, and a plurality of binary code connections corresponding to each device.

#### 2,715,725 CIRCUIT TESTER FOR ELECTRONIC FUZES FOR MUNITIONS

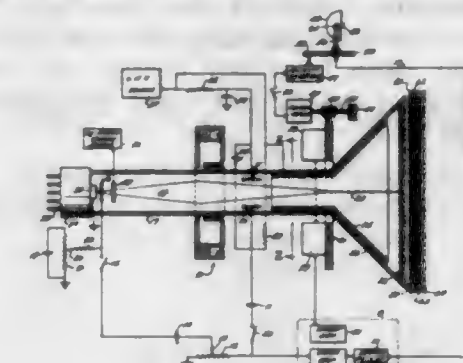
Frank H. Jackson, Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application July 31, 1946, Serial No. 687,442  
7 Claims. (Cl. 343-7)



1. A testing arrangement for gauging the sensitivity of a radio signaling device having a radiator, comprising an artificial load coupled to said radiator for imposing radiation resistance thereon, means for electrically isolating the radio signalling device from surrounding objects, means including an interelectrode circuit of a vacuum tube for varying said radiation resistance periodically and continuously within a predetermined range, the relationship between said variation and the response of said device indicating said sensitivity, said artificial load including means surrounding said radio signalling device within said isolation means and coupling said device to said interelectrode circuit.

#### 2,715,726 DUAL INDICATOR CATHODE RAY TUBE

Robert F. Rychlik, Dayton, Ohio  
Application December 27, 1946, Serial No. 718,723  
7 Claims. (Cl. 343-11)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

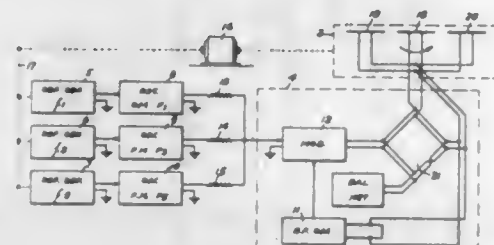


5. A radio system presentation device for use in a transmitter-receiver system, comprising a radar system initiating signals, an antenna assembly transmitting and receiving said signals, an electromagnetic-electrostatic cathode ray tube containing electrodes and a screen and connected with said radar system and said antenna assembly for providing signal presentations, contrast controlling first variable resistor means connected between said radar system and a signal receiving first electrode in said tube, intensity controlling second variable resistor means connected between said signal receiving first electrode in said tube and ground, a first switch means connected between said first and second resistors, a first electrostatic sweep deflection plate within said tube, a second switch means capacitatively connected between said radar system and said first deflection plate, a second electrostatic sweep deflection plate positioned within



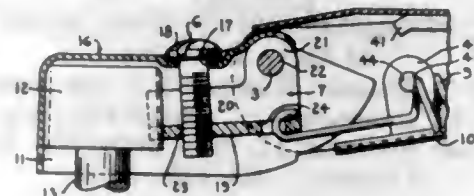
said tube, a signal focusing permanent magnet positioned between said first electrode and said pair of plates, a voltage source supplying voltage to both of said plates, rectifier means connected between said plates, sweep deflection coils positioned between said pair of plates and the tube screen, and a sweep deflection coil adjusting knob for altering the position of said switch deflection coils with respect to said tube.

**2,715,727**  
**OMNIDIRECTIONAL RADIO RANGE SYSTEM**  
Sidney B. Pickles, Tarrytown, N. Y., assignor to International Telephone and Telegraph Corporation, a corporation of Maryland  
Application March 14, 1951, Serial No. 215,537  
10 Claims. (Cl. 343—106)



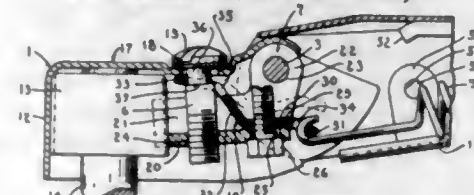
1. A radio beacon system comprising a directive antenna including a central radiator and a pair of radiators spaced from said central radiator, means to produce effective rotation of said spaced radiators about said central radiator whereby radiation at a fixed position with respect to said antenna will vary with a fundamental frequency dependent upon the rotation speed, said radiators being spaced to produce a directive pattern whereby at least one bearing signal harmonic frequency of said fundamental frequency will result, a source of radio frequency energy coupled to said outer radiators, a source of reference frequency energy synchronized with rotation of said antenna for producing reference frequency energy at said fundamental frequency and harmonic frequency, a modulator for modulating said reference frequency energy upon said radio frequency energy, and means for applying modulated energy from said modulator to said central radiator.

**2,715,728**  
**WINDSHIELD WIPER ARM ASSEMBLY**  
Fred A. Krohm, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana  
Application April 17, 1951, Serial No. 221,387  
9 Claims. (Cl. 15—255)



1. A windshield wiper arm assembly adapted to be attached to a drive shaft provided with an enlargement comprising a housing adapted to receive the enlargement, an outer arm unit pivotally connected to the housing, manually operable means mounted on said housing for adjustment, a locking element for engaging the enlargement arranged in and connected to the housing and connected to said manually operable means, and a spring having one end connected to the outer unit and its other end to the locking element for pulling the locking element toward the outer unit when the locking element is released from a locking position by the manually operable means.

**2,715,729**  
**WINDSHIELD WIPER ARM**  
John W. Anderson, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana  
Application July 3, 1951, Serial No. 235,001  
6 Claims. (Cl. 15—255)

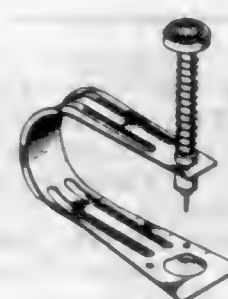


1. A windshield wiper arm comprising an inner shaft engaging section, an outer blade carrying assembly, a pivot pivotally connecting the section and assembly together, locking means mounted on the inner section for locking the arm to a shaft, means adjustable on the locking means, an elongated helical spring having one end connected to the assembly and its other end to the adjustable means, the arrangement being such that by manipulating the adjustable means, the adjustable means may be moved relative to the pivot so that the spring pressure may be varied.

## DESIGNS

AUGUST 16, 1955

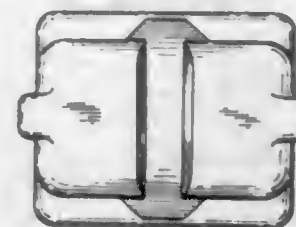
**175,329**  
**JEWEL SETTING DEVICE**  
Joseph Archer, Burbank, Calif.  
Application October 15, 1954, Serial No. 32,685  
Term of patent 14 years  
(Cl. D54—13)



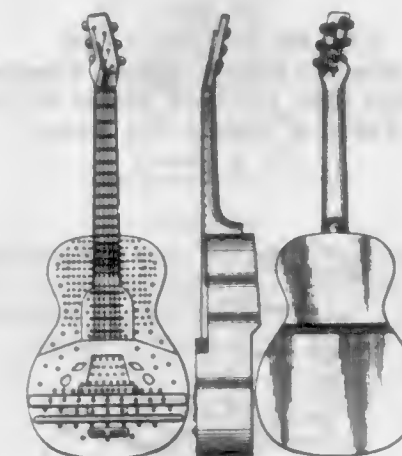
**175,330**  
**WRITING INSTRUMENT OR THE LIKE**  
Bruno D. Aston, Los Angeles, Calif., assignor of one-half to Marmike Manufacturing Corp., Brooklyn, N. Y.  
Application May 3, 1954, Serial No. 30,289  
Term of patent 3½ years  
(Cl. D74—17)



**175,331**  
**COVER FOR STORAGE BATTERIES**  
Robert S. Beverlin, Toledo, Ohio, assignor to The City Auto Stamping Company, Toledo, Ohio, a corporation of Ohio  
Application November 4, 1954, Serial No. 32,961  
Term of patent 7 years  
(Cl. D26—6)



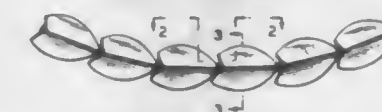
**175,332**  
**GUITAR**  
Carl F. Bivens, Denver, Colo.  
Application November 1, 1954, Serial No. 32,905  
Term of patent 14 years  
(Cl. D56—1)



**175,333**  
**TOY AUTO**  
Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York  
Application February 4, 1955, Serial No. 34,365  
Term of patent 14 years  
(Cl. D34—15)



**175,334**  
**LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE**  
Michael Chernow, New York, N. Y.  
Application April 5, 1954, Serial No. 29,837  
Term of patent 7 years  
(Cl. D45—16)



**175,335**  
**COMBINED PEW AND KNEELER**  
James Clark, Chappaqua, N. Y., assignor to The Gothic Altar Studio, Incorporated, Katonah, N. Y., a corporation of New York  
Application December 9, 1954, Serial No. 33,465  
Term of patent 14 years  
(Cl. D15—1)





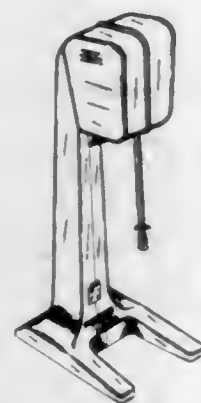
175,336  
COMBINED CURLER COMB AND CLIP  
Annie Anthony Coakley, Miami Beach, Fla.  
Application June 21, 1954, Serial No. 31,088  
Term of patent 14 years  
(Cl. D86—8)



175,337  
CHAIR OR THE LIKE  
Alfred C. Dion and Henry J. Dion, Putnam, Conn.  
Application June 14, 1954, Serial No. 30,979  
Term of patent 3½ years  
(Cl. D15—1)



175,338  
DRINK MIXER  
W Arthur Ernst, Racine, Wis.  
Application August 11, 1954, Serial No. 31,817  
Term of patent 14 years  
(Cl. D44—1)



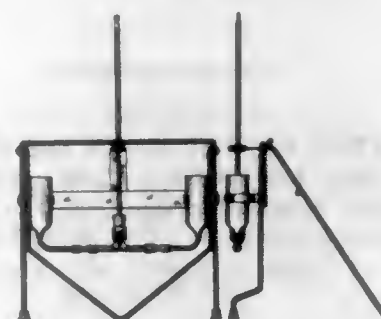
175,339  
CHESS PIECE  
Donald E. Folley, Fayetteville, N. Y.  
Application April 26, 1954, Serial No. 30,171  
Term of patent 3½ years  
(Cl. D34—5)



175,340  
CHESS PIECE  
Donald E. Folley, Fayetteville, N. Y.  
Application April 26, 1954, Serial No. 30,172  
Term of patent 3½ years  
(Cl. D34—5)



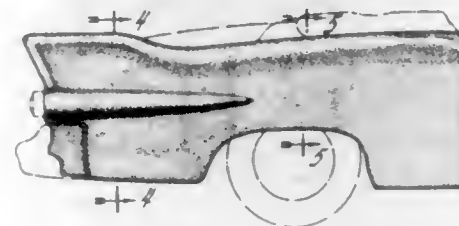
175,341  
APPARATUS FOR TESTING AND DISPLAYING  
THE BOILING POINT OF BRAKE FLUID  
Irwin E. Fuchs and Leon Kresser, St. Louis, Mo., assignors to The Bardahl Oil Company, Inc., St. Louis, Mo., a corporation of Missouri  
Application January 10, 1955, Serial No. 33,904  
Term of patent 7 years  
(Cl. D16—2)



175,342  
AIRPLANE  
Henry B. Gibbons, Alfred L. Jarrett, and Forbes Mann, Dallas, Tex., assignors, by mesne assignments, to Chance Vought Aircraft, Incorporated, a corporation of Delaware  
Application March 22, 1951, Serial No. 14,594  
Term of patent 7 years  
(Cl. D71—1)



175,343  
FENDER FOR AN AUTOMOBILE  
Edward E. Glowacke, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application December 16, 1954, Serial No. 33,583  
Term of patent 7 years  
(Cl. D14—6)



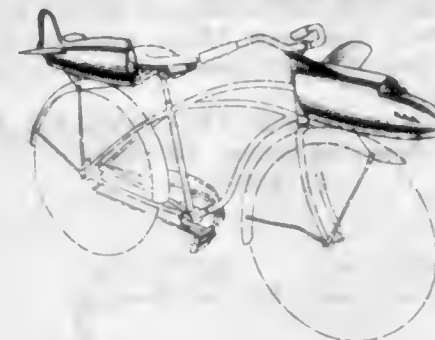
175,344  
END PLATE FOR BICYCLE PEDAL  
Harry Golden, Brooklyn, N. Y.  
Application March 7, 1955, Serial No. 34,912  
Term of patent 7 years  
(Cl. D90—14)



175,345  
VACUUM CLEANER OR SIMILAR ARTICLE  
Lurelle V. A. Guild, Noroton Heights, Robert C. Lampe, Stamford, and George W. Norrick, New Canaan, Conn., assignors to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware  
Application November 23, 1954, Serial No. 33,208  
Term of patent 14 years  
(Cl. D9—2)



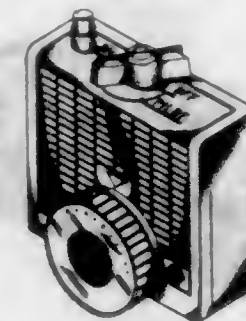
175,346  
BICYCLE OR SIMILAR ARTICLE  
Henry Worthington Kalt, Valley Stream, N. Y., assignor to Kalt, Breeding & Hadden, Inc., a corporation of New York  
Application June 18, 1954, Serial No. 31,077  
Term of patent 7 years  
(Cl. D90—8)



175,347  
BEVERAGE DISPENSER  
Bruce Kamp, Lansdowne, Pa., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey  
Application December 10, 1954, Serial No. 33,478  
Term of patent 14 years  
(Cl. D2—3)



175,348  
WATER HEATER THERMOSTAT  
Henry C. Keck, Pasadena, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware  
Application January 14, 1955, Serial No. 33,986  
Term of patent 14 years  
(Cl. D52—1)



175,349  
VENDING MACHINE CABINET  
Lincoln M. Keefe, New York, N. Y.  
Application July 31, 1953, Serial No. 26,206  
Term of patent 14 years  
(Cl. D52—3)



175,350  
CHILD'S MUFF  
Sarah Klein, Brooklyn, N. Y., assignor to Merry Products, Inc., Brooklyn, N. Y., a corporation of New York  
Application February 21, 1955, Serial No. 34,587  
Term of patent 7 years  
(Cl. D3—2)



175,351  
CHILD'S MUFF  
Sarah Klein, Brooklyn, N. Y., assignor to Merry Products, Inc., Brooklyn, N. Y., a corporation of New York  
Application February 21, 1955, Serial No. 34,588  
Term of patent 7 years  
(Cl. D3—2)





175,352

**ROLLER FOR A PAINT ROLLER**

Stephen Knapp, Jr., Cleveland Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application January 12, 1955, Serial No. 33,942  
Term of patent 14 years  
(Cl. D9—2)

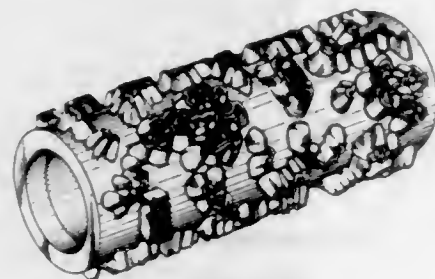


175,353

**ROLLER FOR A PAINT ROLLER**

Stephen Knapp, Jr., Cleveland Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application January 12, 1955, Serial No. 33,943  
Term of patent 14 years  
(Cl. D9—2)



175,354

**ROLLER FOR A PAINT ROLLER**

Stephen Knapp, Jr., Cleveland Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application January 12, 1955, Serial No. 33,944  
Term of patent 14 years  
(Cl. D9—2)



175,355

**ROLLER FOR A PAINT ROLLER**

Stephen Knapp, Jr., Cleveland Heights, Ohio, assignor to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

Application January 12, 1955, Serial No. 33,945  
Term of patent 14 years  
(Cl. D9—2)



175,356

**ADDING MACHINE**

Paul M. Koons, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

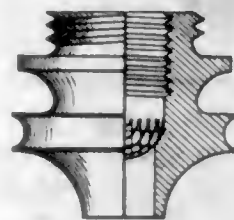
Application April 19, 1954, Serial No. 30,093  
Term of patent 14 years  
(Cl. D64—11)



175,357

**GAS MANTLE HOLDER**

Alvin J. McFall, Vista, Calif.  
Application March 14, 1955, Serial No. 35,026  
Term of patent 7 years  
(Cl. D48—10)

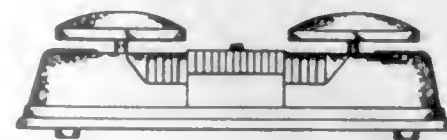


175,358

**DUAL ELECTRIC FOOT VIBRATOR FOR THERAPEUTIC USE OR SIMILAR ARTICLE**

Samuel L. McNair, Whitman, Mass., assignor to Standard Products Corporation, Whitman, Mass., a corporation of Massachusetts

Application November 26, 1954, Serial No. 33,254  
Term of patent 14 years  
(Cl. D83—1)



175,359

**ELECTRIC LAMP**

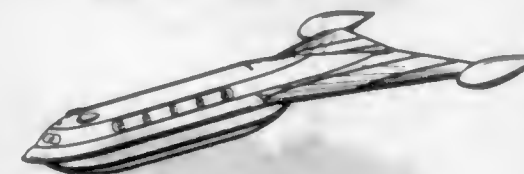
John J. Mooney, Yonkers, N. Y.  
Application October 6, 1954, Serial No. 32,561  
Term of patent 3½ years  
(Cl. D48—20)



175,360

**BOAT HULL OR SIMILAR ARTICLE**

George A. Moore, Encinitas, Calif.  
Application November 26, 1954, Serial No. 33,259  
Term of patent 14 years  
(Cl. D71—1)

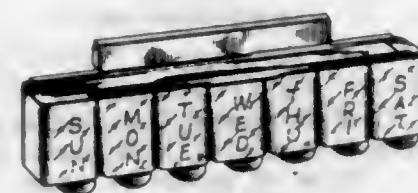


175,361

**PILL BOX UNIT**

Emil H. Orenick, Parma, Ohio, assignor to The State Tool & Die Company, Cleveland, Ohio, a corporation of Ohio

Application July 28, 1954, Serial No. 31,637  
Term of patent 14 years  
(Cl. D52—2)



175,362

**POT HOLDER RACK**

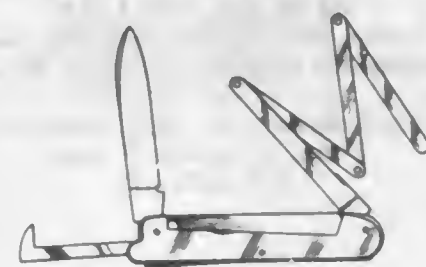
Heleen Richards, Chicago, Ill.  
Application September 3, 1954, Serial No. 32,163  
Term of patent 3½ years  
(Cl. D44—29)



175,363

**COMBINED KNIFE, CALIPER AND FOLDING RULE**

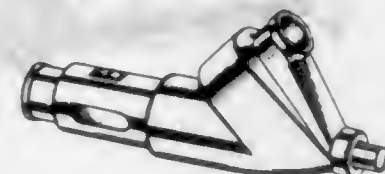
Jack Polincovsky, New York, N. Y.  
Application September 23, 1953, Serial No. 26,922  
Term of patent 14 years  
(Cl. D22—3)



175,364

**CIGAR LIGHTER**

Albert Edward Pollock, New York, N. Y.  
Application April 13, 1954, Serial No. 29,982  
Term of patent 3½ years  
(Cl. D48—27)



175,365

**BRUSH**

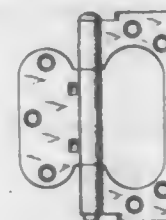
Albert R. Racicot, Aurora, Ill., assignor to National Brush Company, Aurora, Ill., a corporation of Illinois  
Application March 8, 1955, Serial No. 34,947  
Term of patent 7 years  
(Cl. D9—2)



175,366

**HINGE**

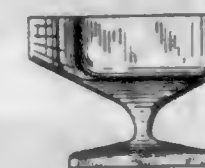
Kurt Schoen, New Hyde Park, and Alfred O. Belaschk, Elmhurst, N. Y.  
Application February 3, 1953, Serial No. 23,406  
Term of patent 14 years  
(Cl. D10—9)



175,367

**STREAMLINED CIGARETTE HOLDER**

Philip J. Schoenberger, St. Paul, Minn.  
Application November 29, 1954, Serial No. 33,293  
Term of patent 14 years  
(Cl. D85—2)



175,368

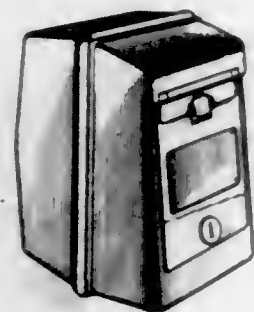
**CIGARETTE HOLDER**

Philip J. Schoenberger, St. Paul, Minn.  
Application November 29, 1954, Serial No. 33,294  
Term of patent 14 years  
(Cl. D85—2)





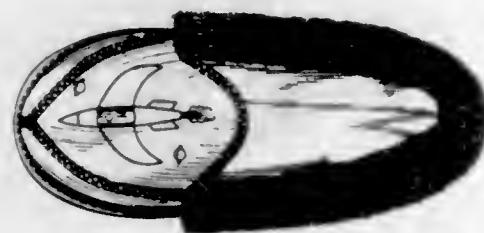
175,369  
**PARKING FINE DEPOSIT BOX**  
 Rinaldo Sciaccero, Chicago, Ill., assignor to Miller  
 Meters, Inc.  
 Application April 19, 1954, Serial No. 30,086  
 Term of patent 14 years  
 (Cl. D52—3)



175,370  
**COMBINED HAMMER AND TACK LIFTER**  
 Maurice E. Seaman, Wolverine, Mich.  
 Application October 7, 1954, Serial No. 32,576  
 Term of patent 7 years  
 (Cl. D54—13)



175,371  
**SLIPPER**  
 Myer S. Silver, Brookline, Mass.  
 Application June 14, 1954, Serial No. 30,963  
 Term of patent 14 years  
 (Cl. D7—7)



175,372  
**FLOOR MAT OR SIMILAR ARTICLE**  
 Henry B. W. Snelling, Boston, Mass.  
 Application July 13, 1954, Serial No. 31,400  
 Term of patent 14 years  
 (Cl. D92—21)



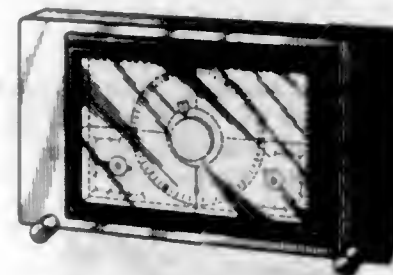
175,373  
**FLOOR MAT OR SIMILAR ARTICLE**  
 Henry B. W. Snelling, Boston, Mass.  
 Application July 13, 1954, Serial No. 31,401  
 Term of patent 14 years  
 (Cl. D92—21)



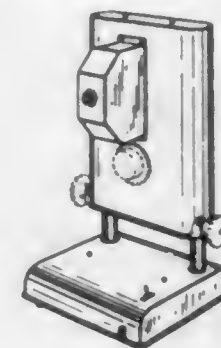
175,374  
**ROD HOLDER**  
 Ervin D. Stroud, Houston, Tex.  
 Application December 3, 1954, Serial No. 33,391  
 Term of patent 14 years  
 (Cl. D31—4)



175,375  
**COMBINATION WEATHER INSTRUMENT FOR A  
 DESK OR THE LIKE**  
 Howard S. Taylor, Fox River Grove, Ill., assignor to Air-  
 guide Instrument Company, Chicago, Ill., a corporation  
 of Illinois  
 Application February 21, 1955, Serial No. 34,590  
 Term of patent 7 years  
 (Cl. D52—7)



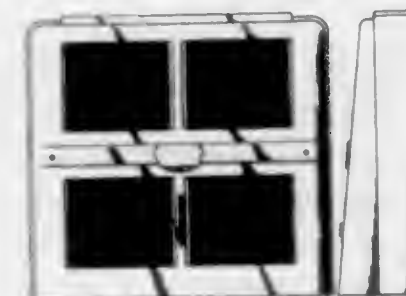
175,376  
**COLOR COMPARING INSTRUMENT  
 OR THE LIKE**  
 Astro J. Tuomi, Southbridge, Mass., assignor to Ameri-  
 can Optical Company, Southbridge, Mass., a voluntary  
 association of Massachusetts  
 Application July 6, 1954, Serial No. 31,275  
 Term of patent 14 years  
 (Cl. D57—1)



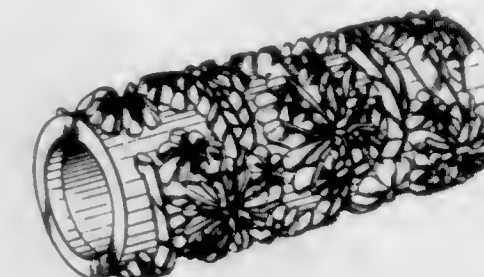
175,377  
**SNACK TRAY**  
 William Douglas Warren, New York, N. Y.  
 Application April 1, 1955, Serial No. 35,328  
 Term of patent 7 years  
 (Cl. D44—10)



175,378  
**WARM AIR REGISTER**  
 Norman Burlin Watkins, Wichita, Kans., assignor to The  
 Coleman Company, Inc., Wichita, Kans., a corporation  
 of Kansas  
 Application January 29, 1954, Serial No. 28,743  
 Term of patent 14 years  
 (Cl. D81—21)



175,379  
**ROLLER FOR A PAINT ROLLER**  
 Esther C. Watzulik, Cleveland, Ohio, assignor to The  
 Sherwin-Williams Company, Cleveland, Ohio, a cor-  
 poration of Ohio  
 Application January 12, 1955, Serial No. 33,955  
 Term of patent 14 years  
 (Cl. D9—2)



175,380  
**VALENTINE**  
 Delbert Wells, Odessa, Tex.  
 Application July 16, 1954, Serial No. 31,476  
 Term of patent 7 years  
 (Cl. D59—2)



175,381  
**COMPACT**  
 Solomon Young, Stamford, Conn., assignor to The Zell  
 Products Corporation, Norwalk, Conn., a corporation  
 of Connecticut  
 Application February 11, 1955, Serial No. 34,488  
 Term of patent 14 years  
 (Cl. D86—10)(7)





## LIST OF DESIGN PATENTEEES

- Airguide Instrument Co.: *See*—  
Taylor, Howard S. 175,375.  
American Optical Co.: *See*—  
Tuomi, Astro J. 175,376.  
Archer, Joseph. 175,329, Cl. D54—13.  
Aston, Bruno D., 1/2 to Marmike Mfg. Corp. 175,330, Cl. D74—17.  
Bardahl Oil Co., Inc. The: *See*—  
Fuchs, Irwin E. 175,341.  
Belasch, Alfred O.: *See*—  
Schoen, Kurt. 175,366.  
Beverlin, Robert S., to The City Auto Stamping Co. 175,331, Cl. D26—6.  
Bivens, Carl F. 175,332, Cl. D56—1.  
Campbell, Laurie J., to Louis Marx & Co., Inc. 175,333, Cl. D34—15.  
Chance Vought Aircraft, Inc.: *See*—  
Gibbons, Henry B., Jarrett, and Mann. 175,342.  
Chernow, Michael. 175,334, Cl. D45—16.  
City Auto Stamping Co., The: *See*—  
Beverlin, Robert S. 175,331.  
Clark, James, to The Gothic Altar Studio, Inc. 175,335, Cl. D15—1.  
Coakley, Annie A. 175,336, Cl. D86—8.  
Coleman Company, Inc., The: *See*—  
Watkins, Norman B. 175,378.  
Dion, Alfred C. and H. J. 175,337, Cl. D15—1.  
Dion, Henry J.: *See*—  
Dion, Alfred C. and H. J. 175,337.  
Electrolux Corp.: *See*—  
Guild, Lurelle V. A., Lampe, and Norrick. 175,345.  
Ernst, W. Arthur. 175,338, Cl. D44—1.  
Folley, Donald E. 175,339, Cl. D34—5.  
Folley, Donald E. 175,340, Cl. D34—5.  
Fuchs, Irwin E., and L. Kresser, to The Bardahl Oil Co., Inc. 175,341, Cl. D16—2.  
General Motors Corp.: *See*—  
Glowacke, Edward E. 175,343.  
Gibbons, Henry B., A. L. Jarrett, and F. Mann, to Chance Vought Aircraft, Inc. 175,342, Cl. D71—1.  
Glowacke, Edward E., to General Motors Corp. 175,343, Cl. D14—6.  
Golden, Harry. 175,344, Cl. D90—14.  
Gothic Altar Studio, Inc. The: *See*—  
Clark, James. 175,335.  
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190: 2,715,255	66— 27: 2,715,325	122— 24: 2,715,398	195— 67: 2,715,463	252— 46.6: 2,715,516	187.2: 2,715,652
277: 2,715,256	67— 60: 2,715,326	123— 25: 2,715,399	196— 53: 2,715,464	71: 2,715,517	309— 44: 2,715,653
288: 2,715,257	68— 131: 2,715,327	41.01: 2,715,399	200— 47: 2,715,465	148: 2,715,518	310— 45: 2,715,654
2,715,258	69— 1: 2,715,328	119: 2,715,400	47: 2,715,466	252— 46.6: 2,715,519	11: 2,715,655
2,715,259	70— 88.5: 2,715,329	179: 2,715,401	80: 2,715,467	46.6: 2,715,520	87: 2,715,656
2,715,260	71— 139: 2,715,330	125— 73: 2,715,402	140: 2,715,468	321: 2,715,521	98: 2,715,657
2,715,261	72— 161: 2,715,331	126— 110: 2,715,403	168: 2,715,469	358: 2,715,522	102: 2,715,658
2,715,262	178: 2,715,332	127— 208: 2,715,404	201— 63: 2,715,470	21: 2,715,523	220: 2,715,659
2,715,263	278: 2,715,333	128— 148: 2,715,405	202— 39: 2,715,471	256— 3: 2,715,524	10: 2,715,660
2,715,264	290: 2,715,334	129— 214: 2,715,406	203— 66: 2,715,472	257— 3: 2,715,525	90: 2,715,661
2,715,265	379: 2,715,335	130— 327: 2,715,407	204— 94: 2,715,473	236: 2,715,526	107: 2,715,662
2,715,266	391: 2,715,336	131— 82: 2,715,408	205— 46: 2,715,474	241: 2,715,527	298: 2,715,663
2,715,267	424.8: 2,715,337	132— 94: 2,715,409	206— 65: 2,715,475	261: 2,715,528	25: 2,715,664
2,715,268	594.7: 2,715,338	133— 99: 2,715,410	207— 3: 2,715,476	31.2: 2,715,529	63: 2,715,665
2,715,269	765: 2,715,339	134— 111: 2,715,411	208— 18: 2,715,477	41: 2,715,530	210: 2,715,666
2,715,270	801: 2,715,340	135— 140: 2,715,412	209— 130: 2,715,478	41.5: 2,715,531	39: 2,715,667
2,715,271	81: 2,715,341	136— 182: 2,715,413	210— 16: 2,715,479	67.6: 2,715,532	197: 2,715,668
2,715,272	82: 2,715,342	137— 151: 2,715,414	211— 17: 2,715,480	78: 2,715,533	208: 2,715,669
2,715,273	83: 2,715,343	138— 246.17: 2,715,415	212— 36: 2,715,481	239.55: 2,715,534	315— 39: 2,715,670
2,715,274	84— 1.28: 2,715,344	139— 387: 2,715,416	213— 19: 2,715,482	240.65: 2,715,535	197: 2,715,671
2,715,275	85— 36: 2,715,345	140— 399: 2,715,417	214— 49: 2,715,483	253: 2,715,536	109: 2,715,700
2,715,276	86— 183: 2,715,346	141— 442: 2,715,418	215— 6: 2,715,484	256.4: 2,715,537	6: 2,715,701
2,715,277	87— 121: 2,715,347	142— 484.2: 2,715,419	216— 86: 2,715,485	285: 2,715,538	7: 2,715,702
2,715,278	88— 1: 2,715,348	143— 510: 2,715,420	217— 103: 2,715,486	293.4: 2,715,539	28: 2,715,703
2,715,279	89— 57: 2,715,349	144— 31: 2,715,421	218— 131: 2,715,487	304: 2,715,540	31: 2,715,704
2,715,280	90— 140: 2,715,350	145— 45: 2,715,422	219— 36: 2,715,488	307: 2,715,541	264: 2,715,705
2,715,281	91— 164: 2,715,351	146— 109: 2,715,423	220— 26: 2,715,489	307.25: 2,715,542	283: 2,715,706
2,715,282	92— 11.5: 2,715,352	147— 71: 2,715,424	221— 43: 2,715,490	307.3: 2,715,543	331: 2,715,707
2,715,283	93— 71: 2,715,353	148— 43: 2,715,425	222— 46: 2,715,491	307.45: 2,715,544	489: 2,715,708
2,715,284	94— 80: 2,715,354	149— 33: 2,715,426	223— 52: 2,715,492	307.45: 2,715,545	22: 2,715,710
2,715,285	95— 142: 2,715,355	150— 1.8: 2,715,427	224— 55: 2,715,493	307.45: 2,715,546	16: 2,715,711
2,715,286	96— 154: 2,715,356	151— 213: 2,715,428	225— 90: 2,715,494	307.45: 2,715,547	78: 2,715,712
2,715,287	97— 154: 2,715,357	152— 416: 2,715,429	226— 92: 2,715,495	307.45: 2,715,548	8: 2,715,713
2,715,288	98— 154: 2,715,358	153— 35: 2,715,430	227— 111: 2,715,496	307.45: 2,715,549	213: 2,715,714
2,715,289	99— 154: 2,715,359	154— 48: 2,715,431	228— 153: 2,715,497	307.45: 2,715,550	217: 2,715,715
2,715,290	100— 154: 2,715,360	155— 2.27: 2,715,432	229— 177: 2,715,498	307.45: 2,715,551	276: 2,715,716
2,715,291	101— 154: 2,715,361	156— 117: 2,715,433	230— 181: 2,715,499	307.45: 2,715,552	4: 2,715,717
				307.45: 2,715,553	149: 2,715,718
				307.45: 2,715,554	163: 2,715,719
				307.45: 2,715,555	228: 2,715,720
				307.45: 2,715,556	253: 2,715,721
				307.45: 2,715,557	263: 2,715,722
				307.45: 2,715,558	347: 2,715,723
				307.45: 2,715,559	7: 2,715,724
				307.45: 2,715,560	11: 2,715,725
				307.45: 2,715,561	100: 2,715,726
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TRADEMARKS  
NOTICES

Trademark Suits

Notices under 15 U. S. C. 1116: Trademark Act of July 5, 1946

T. M. 181,540 (Grady), R. A. Barron, Tool-handle wedges; T. M. 578,418, same, Red Devil Tools, Wedges for tool handles, filed June 20, 1955, D. C. N. J. (Newark), Doc. 535/55, *Robston Mfg. Co. v. Red Devil Tools*.

T. M. 284,377 (Electrolux), Electrolux Corp., Electrically-operated portable vacuum cleaners and attachments therefor for blowing, etc.; TM 545,686, same, Air filters for use in vacuum cleaners; 2,596,806, L. P. Borkoski, Vacuum cleaner dust bag; 2,596,807, M. C. Dippel, Self-sealing bag for separating dust from an air stream; 2,596,808, G. E. Lofgren,

same, filed June 20, 1955, D. C., W. D. Pa. (Pittsburgh), Doc. 13534, *Electrolux Corp. v. A. J. Weinstein Co. et al.*

T. M. 545,351 (Disciplined Fabric), T. M. 605,225 (Disciplined), Bates Mfg. Co., Cotton piece goods, filed June 13, 1955, D. C., S. D. N. Y., Doc. 101/172, *Bates Mfg. Co. v. A. E. Nathan Co., Inc.*

T. M. 545,686. (See T. M. 284,377.)

T. M. 558,820 (Dormin), Dormin, Inc., Medicinal preparations intended as aids for the relief of insomnia, headaches and neuralgia, filed June 13, 1955, D. C., S. D. N. Y., Doc. 101/178, *Dormin, Inc. v. Paradormin Co. et al.*

T. M. 578,418. (See T. M. 181,540.)

T. M. 605,225. (See T. M. 545,351.)

CONDITION OF TRADEMARK APPLICATIONS AS OF JULY 22, 1955

Total number of applications awaiting action (excluding renewals and republications)..... 11,385  
Date of oldest new application..... Feb. 1, 1955  
Date of oldest amended application..... Feb. 2, 1955

TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....	2-1-55	2-28-55
II. SHRYOCK, R. F. (Acting), Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....	2-1-55	2-2-55
III. WENDT, C. M. (Acting), Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.....	2-1-55	2-11-55
Renewals (All Classes).....	6-1-55	6-7-55
Republications (All Classes).....	5-8-55	6-17-55

Applications Filed During Week Ended July 22, 1955—400

Registrations Issued..... 351—No. 610,512 to No. 610,862  
Renewals Issued..... 34



## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5. As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 659,689. Western Chef Products, Inc., Spokane, Wash. Filed Jan. 18, 1954.

**bar-b-kets**

For Compressed Sawdust Barbecue Briquettes Fuel. Use since during November 1953.

SN 662,432. Flex-O-Glass, Inc., d. b. a. Warp Brothers, Chicago, Ill. Filed Mar. 11, 1954.

**COVERALL**

For Very Thin, Comparatively Wide, Transparent and Translucent Plastic Sheets. Use since January 1954.

SN 663,252. Charles M. Brown, Minneapolis, Minn. Filed Mar. 25, 1954.

**Airelite**

For Filled and Seeded Pots for Flowers and the Like. Use since Feb. 1, 1954.

SN 665,192. Forestrong Company, Los Angeles, Calif. Filed Apr. 26, 1954.

**CASTWOOD**

For Fiber Sheets for General Use in the Industrial Arts. Use since Mar. 24, 1952.

SN 666,403. Peter Van Well, d. b. a. Van Well Nursery, Wenatchee, Wash. Filed May 14, 1954.

**RED KING**

For Delicious Apple Trees and Propagative Stock for Delicious Apple Trees, Including Scions and Buds. Use since Mar. 1, 1954.

TM 90

SN 671,235. American Cyanamid Company, New York, N. Y. Filed Aug. 6, 1954.

**X-54**

Applicant claims ownership of Reg. Nos. 566,382, 580,226, and others.

For Synthetic Fiber in the Form of Filament Fiber, Staple Fiber and Tow.

Use since July 19, 1954.

SN 673,621. Standard Packaging Corporation, Jersey City, N. J. Filed Sept. 22, 1954.

**MYLENE**

For Plastic Composition in Sheet Form. Use since Sept. 8, 1954.

SN 675,028. C. T. Takahashi & Co., Inc., Seattle, Wash. Filed Oct. 18, 1954.

**天**

The trademark is a Japanese character corresponding to "T."

For Logs and Rough Lumber.

Use since Sept. 7, 1954.

SN 675,471. General Foam Corporation, New York, N. Y. Filed Oct. 26, 1954.

**Beauty Foam**

The background of the mark is colored red as indicated in the drawing.

For Foam Rubber and Synthetic Foam Rubber.

Use since Oct. 6, 1954.

SN 677,752. C. E. Wilson Nurseries, Jacksonville, Tex. Filed Dec. 3, 1954.

**DELUXE SILVER SEAL BRAND**

The words "Deluxe" and "Brand" are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Reg. Nos. 506,680 and 570,976.

For Rose Bushes.

Use since March 1947.

AUGUST 16, 1955

U. S. PATENT OFFICE

TM 91

SN 678,165. St. Regis Paper Company, New York, N. Y. Filed Dec. 10, 1954. SN 679,513. Clinchfield Coal Corporation, Dante, Va. Filed Jan. 6, 1955.

**ALBERTA**  
**Hi-Brite**  
**KRAFT**

Applicant disclaims exclusive rights to the words "Alberta" and "Kraft" apart from the mark as shown in the drawing and without prejudice to any of applicant's statutory rights in foreign countries or common law rights.

For Bleached Pulp for Making Paper Products.

Use since on or about Nov. 26, 1954.

SN 678,850. Eastman Kodak Company, Rochester, N. Y. Filed Dec. 23, 1954.

**TENITE**

Applicant claims ownership of Reg. Nos. 304,385 and 433,452.

For Molding Compounds of Plastic Material, and Thermoplastic Molding Composition, Having a General Use in the Industrial Arts.

Use since Nov. 30, 1932.

SN 679,099. Thomas B. Harvey Leather Company, Philadelphia, Pa. Filed Dec. 29, 1954.

**SCULPTURED KID**

For Leather.

Use since Nov. 16, 1954.

SN 679,182. Seton Leather Company, Newark, N. J. Filed Dec. 30, 1954.

**DURONA**

For Leather.

Use since Oct. 1, 1947.

SN 679,505. Wero Mills, Inc., Brewster, N. Y. Filed Jan. 5, 1955.

**"SPINFUR"**

For Animal Hair and Fibers of Wool, Cotton, Synthetics, and Mixtures Thereof for Use in the Production of Yarns and Textile Fabrics.

Use since Oct. 1, 1954.

**COMPASS**  
**POINTS**  
**THE WAY**  
**COAL**

No claim is made to the word "Coal" apart from the mark as shown. Applicant claims ownership of Reg. No. 537,035. For Coal.

Use since Feb. 2, 1953; and on Sept. 29, 1948, in a slightly different form.

SN 679,515. Clinchfield Coal Corporation, Dante, Va. Filed Jan. 6, 1955.

**CLINCHFIELD**

Applicant claims ownership of Reg. No. 190,883.

For Coal.

Use since Oct. 10, 1952; and on Dec. 28, 1915, in a slightly different form.

SN 679,576. Hermann Loewenstein, Inc., New York, N. Y. Filed Jan. 7, 1955.

**Kafalope**

For Tanned Calfskins.

Use since on or about July 26, 1954.

SN 679,716. The Celotex Corporation, Chicago, Ill. Filed Jan. 11, 1955.

**CELOPAD**

For Packaging and Cushioning Material—Namely, Fiberboard for Such Use.

Use since Oct. 15, 1954.



SN 679,962. George Morrell Corporation, Roosevelt Park, Mich. Filed Jan. 3, 1955.

## PLASTRONG

For Synthetic Resin and Glass Fiber Heat Hardening Molding Material.  
Use since July 1, 1954.

### CLASS 3

SN 680,609. Georg Jensen Inc., New York, N. Y. Filed Jan. 27, 1955.



The abbreviation "Inc." is disclaimed apart from the trademark as shown. Applicant claims ownership of Reg. Nos. 293,530, 540,621, and others.  
For Spurs.  
Use since July 1942.

### CLASS 4

SN 637,369. Gardner Machine Company, Beloit, Wis. Filed Oct. 30, 1952.

## TRU-LOK

For Abrasive or Grinding Wheels and Discs and Mounting or Supporting Plates Therefor.  
Use since Apr. 10, 1952.

SN 647,929. John F. Jumer, d. b. a. Electro Glo Company, Chicago, Ill. Filed May 29, 1953.

## Ferro Glo

For Electropolishing Solution for Use in Electropolishing Carbon Steel and the Like.  
Use since Sept. 2, 1949.

SN 660,466. Barnes Drill Co., Rockford, Ill. Filed Feb. 2, 1954.

## PLAS-T-CLAD

For Replaceable Abrasive Elements Used in Honing Tools Comprising Rigid Abrasive Bars Partially Enclosed by Non-abrasive Material.  
Use since July 21, 1953.

SN 678,448. William Gartner, d. b. a. Carshield Wax Company, Wallingford, Conn. Filed Dec. 16, 1954.

carshield

For Combination Cleaning, Polishing, and Waxing Compound for Automobiles.  
Use since on or about Oct. 27, 1954.

### CLASS 5

SN 660,955. Morris Paper Mills, Chicago, Ill. Filed Feb. 11, 1954.

## GUM-X

For Adhesive Seal Component of a Packaging Unit.  
Use since Jan. 25, 1954.

SN 682,290. Penn Crete Products Co., d. b. a. Penn Crete Paint Co., Philadelphia, Pa. Filed Feb. 24, 1955.

## DURA-WELD

For Bonding Agent for Concrete and Plasters, and This Bonding Agent Bonds Concrete and Plasters to Any Type of Masonry Surface.  
Use since Dec. 1, 1954.

SN 682,851. Armstrong Cork Company, Lancaster, Pa. Filed Mar. 7, 1955. Sec. 2(f).

Armstrong

For Pastes and Adhesives in Liquid and Semiliquid Form.  
Use since Jan. 3, 1955.

### CLASS 6

SN 677,942. The d-Con Company, Inc., Chicago, Ill. Filed Dec. 8, 1954.



Applicant claims ownership of Reg. No. 602,587.  
For Insecticide.  
Use since Aug. 2, 1954.

### CLASS 7

SN 663,412. American Manufacturing Company, Brooklyn, N. Y. Filed Mar. 29, 1954.

## ROYAL

For Rope, Cord, and Twine.  
Use since Jan. 6, 1909.

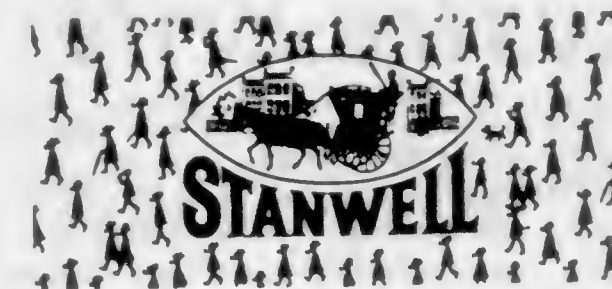
SN 676,140. Security Fur Seal Company, Inc., d. b. a. Security Seal Co., New York, N. Y. Filed Nov. 5, 1954.

## NON-BRAKO

For Cord Sold for Use in Coin Bag Seals.  
Use since July 15, 1954.

### CLASS 8

SN 677,907. Stanwell Briar Pipes V. Poul Nielsen, Kyringe, near Ringsted, Denmark. Filed Dec. 7, 1954.



Applicant claims ownership of Danish Reg. No. 1659/1951, dated Nov. 24, 1951.  
For Smoking Pipes.

### CLASS 9

SN 676,740. The Marlin Firearms Company, New Haven, Conn. Filed Nov. 16, 1954.

## LEVERMATIC

For Guns.  
Use since on or about Oct. 11, 1954.

### CLASS 10

SN 676,144. Suburban Farm Service Co., Whippany, N. J. Filed Nov. 5, 1954.



Applicant disclaims the words "Agricultural Ammonia" apart from the mark as shown.  
For Anhydrous Ammonia.  
Use since in the fall of 1952.

SN 678,206. Crown Zellerbach Corporation, San Francisco, Calif. Filed Dec. 13, 1954.

## CROWN KOKUA

Applicant claims ownership of Reg. Nos. 247,311 and 250,760.  
For Mulch Paper.  
Use since Feb. 12, 1951.

SN 678,983. Garden Research Laboratories, New York, N. Y. Filed Dec. 27, 1954.

## RX-15

For Liquid Fertilizer.  
Use since Mar. 1, 1953.

SN 679,660. Eric W. Eweson, Newport, R. I. Filed Jan. 10, 1955.

## FERTILO

For Organic Compost.  
Use since Dec. 14, 1954.

SN 679,994. International Minerals & Chemical Corporation, Chicago, Ill. Filed Jan. 17, 1955.

## FERTILIS

Applicant claims ownership of Reg. No. 212,106.  
For Fertilizers.  
Use since Nov. 17, 1925.

SN 679,995. International Minerals & Chemical Corporation, Chicago, Ill. Filed Jan. 17, 1955.

## MELLO-GREEN

For Fertilizers.  
Use since Mar. 5, 1954.

### CLASS 11

SN 661,386. James Weiss, d. b. a. Master Products Company, Chicago, Ill. Filed Feb. 19, 1954.

## SUPERTONE

For Duplicating Inks.  
Use since Mar. 10, 1952.

### CLASS 12

SN 664,153. Anna Grancell, d. b. a. I. H. Grancell, Los Angeles, Calif. Filed Apr. 8, 1954.

## 'BESTOLIFE

For Joint Sealing and Anti-Seize Compound.  
Use since Feb. 15, 1929.



SN 665,571. Crandall Products Co., Chicago, Ill. Filed May 3, 1954.

## EASY-AWN

For Wooden Awnings and Parts Thereof.  
Use since Feb. 4, 1954.

SN 667,670. The Butter Hardware Co., Milwaukee, Wis. Filed June 4, 1954.



No claim is made to the words "Butter" or "Hardware" apart from the mark.

For Millwork—Namely, Doors and Door Units, Windows and Window Units, Mouldings and Pre-cut Unassembled Building Parts; Plywood; Lumber; Supporting Brackets, Fastenings, Hangers and Supports Used in Building Construction; Sliding Door Tracks and Hangers; Wallboard; Insulation Materials; Weatherstripping; Roofing Materials; Patching Cement; Crack Filler; Putty; Sealing Compounds; Cement Treating and Waterproofing Compounds; Building Paper; Glass; Shelving; and Wood Flooring.  
Use since on or about May 15, 1951.

SN 679,503. United States Steel Corporation, Pittsburgh, Pa. Filed Jan. 5, 1955.

## CYCLONE

Applicant claims ownership of Reg. Nos. 100,957 (lapsed), 212,792, and 213,643.  
For Wire Mesh Partitions for Construction Purposes.  
Use since at least as early as Nov. 1, 1913.

SN 681,488. The Celotex Corporation, Chicago, Ill. Filed Feb. 11, 1955.

## "ARISTOCRAT"

For Asphalt Shingles.  
Use since Sept. 29, 1954.

SN 682,597. Sealrite Insulation Manufacturing Corporation, Waukesha, Wis. Filed Mar. 1, 1955.

## SEALJET

For Glass Fiber Mineral Wool Used for Thermal Insulation.  
Use since July 2, 1952.

## FOAMSIL

Applicant claims ownership of Reg. No. 398,771.  
For High Temperature Cellulated Silica Structural Material Composed of Rigid Blocks, Disks, Lumps, Slabs or the Like, Suitable for Use as Insulation or Structural Elements.  
Use since Jan. 20, 1955.

SN 682,838. United States Plywood Corporation, New York, N. Y. Filed Mar. 4, 1955.

## DEKAPLY

For Wood Products, Such as Hardboard.  
Use since Dec. 2, 1954.

SN 683,008. Lloyd S. Wilson, d. b. a. L. S. Wilson Mfg. Co., Chicago, Ill. Filed Mar. 7, 1955.

## Lustre-Brite

For Window Screens in Assembled or Knocked Down Form and Parts for Making Such Screens.  
Use since Feb. 7, 1955.

SN 683,061. Pittsburgh Corning Corporation, Pittsburgh, Pa. Filed Mar. 8, 1955.

## DURAFACE FOAMGLAS

Applicant claims ownership of Reg. No. 398,771.  
For Cellular Structural Material Composed of Rigid Cellulated Slabs, Blocks, Lumps or the Like Suitable for Use as Insulation or Various Structural Elements.  
Use since Feb. 11, 1955.

SN 683,271. Bridgeville Finishing Mill, Bridgeville, Pa. Filed Mar. 11, 1955.



For Doors of Both Wood and Metal.  
Use since on or about Nov. 1, 1946.

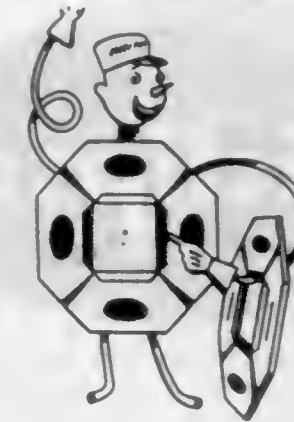
### CLASS 13

SN 652,613. Donald C. Green, d. b. a. Mansfield and Green, Cleveland, Ohio. Filed Sept. 1, 1953.

## TWIN SEAL

For Check Valves.  
Use since May 10, 1945.

SN 663,304. Reading Tube Corporation, New York, N. Y. Filed Mar. 25, 1954.



For Copper and Aluminum Tubing.  
Use since Sept. 26, 1953.

SN 663,491. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 29, 1954.

## MONSANTO

Applicant claims ownership of Reg. Nos. 315,300, 511,037, and others.  
For Aspirating Devices for Connection to a Hose or Faucet for Siphoning Solutions Into the Line.  
Use since Jan. 5, 1954.

SN 666,895. Aeroquip Corporation, Jackson, Mich. Filed May 24, 1954.

## "little gem"

For Detachable, Reusable End Fittings for Flexible Hose Lines.  
Use since on or about Sept. 2, 1953.

SN 667,179. Tinnerman Products Inc., Cleveland, Ohio. Filed May 26, 1954. Sec. 2(f).

## SPEED CLAMP

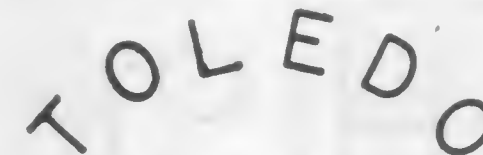
For Hose Clamp.  
Use since on or about Mar. 9, 1945.

SN 667,180. Tinnerman Products Inc., Cleveland, Ohio. Filed May 26, 1954. Sec. 2(f).

## SPEED CLINCH

For Self-Clinching Fasteners for Attaching Roofing or Siding.  
Use since on or about Mar. 19, 1945.

SN 667,444. The Relchert Float & Manufacturing Company, Toledo, Ohio. Filed June 1, 1954. Sec. 2(f).



For Floats and Tank Balls or Valves.  
Use since during the month of June 1925.

## AMERICAN

Applicant claims ownership of Reg. Nos. 144,096, 344,080, and others.

For Wire Nails—Namely: Anchor Nails; Boat Nails; Brads; Broom Nails; Clinch Nails; Clout Nails; Car and Wagon Nails; Common Nails; Crate, Case, Basket, Box, Barrel and Hoop Nails; Concrete Nails; Dating and Marking Nails; Dowel, Escutcheon and Shade Roller Pins; Dual and Duplex Head Nails; Electrician's Staple Nails; Fibreboard Nails; Finishing and Casing Nails; Fire Door Nails; Foundry Nails; Hinge Nails; Saddlery Nails; Shade Nails; Siding, Sheathing, Shingle, Roofing, Flooring, Insulation, Plaster Base and Lath Nails; Spikes; and Wire Tacks, Namely: Bill Poster's Tacks; Carpet Tacks; Household Tacks; and Upholsterer's Tacks.

Use since at least as early as Oct. 1, 1899.  
Subj. to Intf. with Reg. No. 519,656.

SN 669,568. The Nylok Corporation, New York, N. Y. Filed July 7, 1954.



The lining is for blue. Applicant claims ownership of Reg. No. 439,351.  
For Threaded Fasteners.  
Use since on or about Mar. 18, 1946.

SN 669,705. Standard Oil Company of California, Wilmington, Del. Filed July 9, 1954.

## SOMASTIC

Applicant claims ownership of Reg. No. 275,936.  
For Metal Pipe Coated With Asphalt, Asphalt Mastic, and Other Materials.  
Use since May 8, 1930.

SN 673,074. Aircraft-Marine Products Inc., Harrisburg, Pa. Filed Sept. 13, 1954.



For Plastic Conduit Tubing.  
Use since Jan. 10, 1944.

SN 673,146. United States Quarry Tile Company, Canton, Ohio, now by change of name to United States Ceramic Tile Company. Filed Sept. 13, 1954.

## ROMANY

For Glazed Accessories—Namely, Soap Holders, Towel Bar Brackets, Tumbler Holders, and Paper Holders, Sold Individually or in Complete Sets.  
Use since Apr. 1, 1926.



SN 673,813. Continental Boiler and Sheet Iron Works, St. Louis, Mo. Filed Sept. 27, 1954.



For Large Metal O. D. Piping and Pressure Vessels.  
Use since 1903.

SN 674,999. Olympic Metals Corp., Chicago, Ill. Filed Oct. 18, 1954.

**WILLIAMSBURG.**

For Cooking Vessels.  
Use since July 6, 1954.

SN 677,962. Keller Tool Company, Grand Haven, Mich., to Gardner-Denver Company. Filed Dec. 8, 1954. Sec. 2(f).

**KELLER**

Applicant claims ownership of Reg. No. 420,677.  
For Air Valves and Pendant Controls for Pneumatic Hoists.  
Use since Sept. 19, 1948.

SN 678,442. Eclipse Fuel Engineering Co., Rockford, Ill. Filed Dec. 16, 1954.



The drawing is lined for red, but no claim is made to any particular color.

For Gas Cocks; Rigid-Bar Type Hangers for Connecting Gas Meters to Gas Supply and Service Pipes; Tubular Straight and Offset Type Swivels for Connecting Gas Meters to Rigid Meter Bars; Nuts for Connecting the Tubes of Gas Meters to Meter Bar Swivels; Combustion Controlling Valves—Namely, Blast Gates, Gate Valves, Temperature Control Valves, Safety Shut-Off Valves, and Solenoid Valves; Accessories for Oil Burner Systems—Namely, Piston-Type Relief Valves, Pressure Reducing and Regulating Valves, and Pressure Regulators and Pipe Line Strainers.  
Use since on or about Apr. 15, 1912.

SN 678,443. Eclipse Fuel Engineering Co., Rockford, Ill. Filed Dec. 16, 1954.



The drawing is lined for red, but no claim is made to any particular color.  
For Pressed Steel and Cast Iron Pots.  
Use since on or about Apr. 15, 1912.

#### CLASS 14

SN 681,114. Valenite Metals Corporation, Royal Oak, Mich. Filed Feb. 4, 1955.



For Sintered Tungsten Carbide Metal in the Form of Blanks or Sheets.  
Use since Jan. 3, 1955.

SN 681,213. Claude C. Slate Company, Los Angeles, Calif. Filed Feb. 7, 1955.

**FLOTRUSION**

For Extruded Metal Tubing and Shapes.  
Use since Dec. 12, 1954.

SN 681,448. National-Standard Company, Niles, Mich. Filed Feb. 10, 1955.

**Trucoat**

For Music Spring Wire.  
Use since Jan. 25, 1955.

SN 681,572. Bliss & Laughlin, Incorporated, Harvey, Ill. Filed Feb. 14, 1955.

**LUSTERIZED**

For Cold-Worked Steels.  
Use since Feb. 7, 1955.

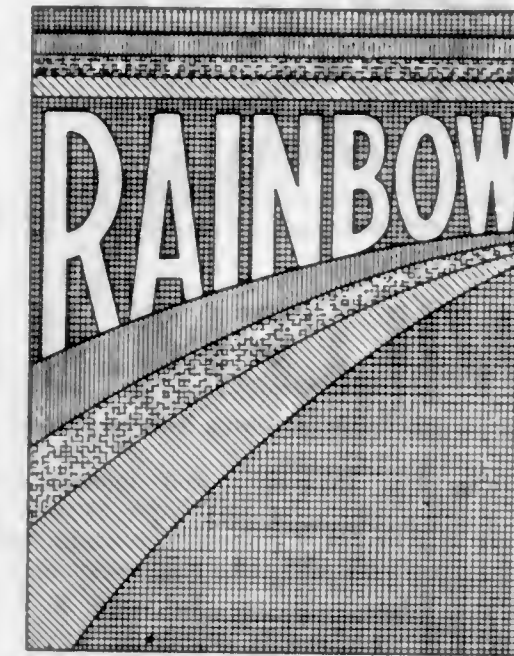
SN 681,835. The Colorado Fuel and Iron Corporation, Denver, Colo. Filed Feb. 17, 1955.

**HISI**

For Railway Rails.  
Use since January 1955.

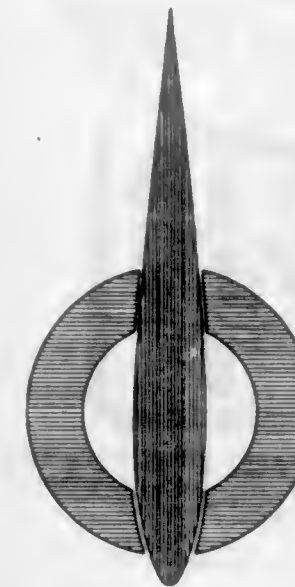
#### CLASS 15

SN 667,358. True's Oil Company, Spokane, Wash. Filed May 28, 1954.



The drawing is lined for black, red, yellow and green. Color is not claimed as a part of the mark.  
For Gasoline, Kerosene, Benzine, Naphtha, Lubricating Oils and Greases, and Fuel Oils.  
Use since Jan. 1, 1917.

SN 670,827. Compagnie Francaise des Petroles, Société Anonyme, Paris, France. Filed July 30, 1954.



Priority under Sec. 44(d). French application filed Feb. 3, 1954, Reg. No. 28,559 dated Feb. 3, 1954. The drawing is lined for red and blue.

For Lubricating Oils, Lubricating Greases, Road Oils, Fuel Oils, Gasoline, Kerosene, Illuminating Oils, Diesel Oil, Mineral Waxes, Jet Fuels of the Petroleum Distillate Type, Liquid Petroleum Gases, and Solvents of the Petroleum Distillate Type.

SN 672,483. Anglo-Iranian Oil Company Limited, London, England, now by change of name The British Petroleum Company. Filed Aug. 31, 1954.

**ENERGREASE**

Applicant claims ownership of British Reg. No. 647,850, May 16, 1946.  
For Industrial Greases (Other Than Edible Oils and Fats or Essential Oils).  
TM 697 O. G.—10

#### CLASS 16

SN 668,849. The Martin-Senour Company, Chicago, Ill. Filed June 24, 1954.

**MAR-SEN-ITE**

For Paints.  
Use since Mar. 10, 1954.

SN 669,284. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed July 1, 1954.

**PENNPAIN**

For Corrosion Resistant Paint.  
Use since Jan. 12, 1950.

SN 677,433. Benjamin Moore & Co., New York, N. Y. Filed Nov. 29, 1954.

**PENTAFLEX**

For Ready Mixed Paints.  
Use since Oct. 28, 1954.

SN 677,713. Albert Jacquez, Woodstock, N. Y. Filed Dec. 3, 1954.



The drawing is lined for orange.  
For Vinyl Art Supply Materials—Namely, Paints, and Paint Thinners.  
Use since June 21, 1954.

SN 680,373. Duro Chemical Products Company, Detroit, Mich. Filed Jan. 24, 1955.



For Bowling Pin Finishes—Namely, Sealers, Lacquers and Thinners Therefor.  
Use since Feb. 1, 1954.



SN 682,823. Pratt & Lambert-Inc., Buffalo, N. Y. Filed Mar. 4, 1955.

# PALKYD

For Paint Enamels.  
Use since Dec. 14, 1954.

SN 682,860. Atlas Paint and Glass Manufacturing Company, Kansas City, Mo. Filed Mar. 7, 1955.



For Mixed Paints and Enamels.  
Use since Feb. 14, 1955.

SN 682,909. The Glidden Company, Cleveland, Ohio. Filed Mar. 7, 1955.

# Drama-Tone

For Tinting Bases.  
Use since Feb. 8, 1955.

SN 683,668. Desmond Bros. Paint Co., Los Angeles, Calif. Filed Mar. 17, 1955.

# deft

For Interior Finish for Wood Surfaces.  
Use since Jan. 25, 1954.

SN 683,699. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Mar. 17, 1955.

# CODIT

For Liquid Material Containing Reflective Beads, Said Liquid Material Being Adapted for Application to Various Surfaces and Articles To Provide a Reflective Finish Thereon.  
Use since at least as early as Mar. 4, 1953.

SN 684,256. The Sherwin-Williams Company, Cleveland, Ohio. Filed Apr. 13, 1955.

# MANTON

For Paints (Ready Mixed and Paste).  
Use since Jan. 20, 1953.

## CLASS 17

SN 674,489. N. V. Willem II Sigarenfabrieken v. h. H. Kersten & Co., Valkenswaard, Netherlands. Filed Oct. 7, 1954.

# WILLEM II

Applicant claims ownership of Dutch Reg. No. 74,917, dated Nov. 14, 1939.  
For Cigars, Cigarillos, Cigarettes, and Smoking Tobacco.

## CLASS 18

SN 680,026. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Jan. 17, 1955.

# Vigofac

For Supplement Containing a Growth Accelerating Agent for Incorporation in Animal Feeds  
Use since Dec. 13, 1954.

## CLASS 19

SN 655,313. Harwill Inc., St. Charles, Mich. Filed Oct. 26, 1953.



For Water Ballast Tanks Adapted To Fit on the Hull of a Boat and Increase Stability Thereof.  
Use since Aug. 21, 1953.

SN 664,581. Arnolt Corporation, Warsaw, Ind. Filed Apr. 15, 1954.



No claim is made to the word "Arnolt" apart from the mark shown.  
For Automobiles and Wind Wings and Heaters Therefor.  
Use since at least as early as Apr. 4, 1953.

SN 668,819. Borg-Warner Corporation, Chicago, Ill. Filed June 24, 1954.

# feather touch

For Power Brakes for Automotive Vehicles, and Parts Thereof for Replacement and Repair.  
Use since early in November 1953.

SN 668,977. Dr. Ing. H. C. F. Porsche K. G., Stuttgart-Zuffenhausen, Germany. Filed June 28, 1954. Sec. 2(f) as to "Porsche."



Applicant disclaims the word "Stuttgart" apart from the mark as shown.  
For Automobiles and Parts Thereof.  
Use since September 1951.

SN 668,978. Dr. Ing. H. C. F. Porsche K. G., Stuttgart-Zuffenhausen, Germany. Filed June 28, 1954. Sec. 2(f).

# PORSCHE

For Automobiles and Parts Thereof.  
Use since September 1951.

SN 669,160. Walter Motor Truck Company, Brooklyn, N. Y. Filed June 29, 1954. Sec. 2(f).

# 4 POINT POSITIVE DRIVE

Applicant claims ownership of Reg. No. 226,700.  
For Motor Trucks and Tractor Trucks.  
Use since on or about Dec. 1, 1931.

SN 674,705. The Smash-Proof Co., Ashtabula, Ohio. Filed Oct. 12, 1954.

# SERVISEAT

For Repairmen's Trucks for Working Under Vehicles and Non-Mechanical Hand-Operated Dollies.  
Use since on or about June 1949.

SN 678,512. Joseph F. Chamberlin, d. b. a. Chamberlin Metal Products, Chicago, Ill. Filed Dec. 17, 1954.

# Mail Kaddie

For Postmen's Caris.  
Use since Oct. 1, 1954.

SN 678,976. The Duralite Manufacturing Company, Ridgely, Md. Filed Dec. 27, 1954.



For Truck Bodies.  
Use since Nov. 1, 1947.

SN 679,334. Railroad Friction Products Corporation, Willmerding, Pa. Filed Jan. 3, 1955.

# COBRA

For Brake Shoes for Vehicles—Namely, Railroad Cars.  
Use since December 1954.

SN 681,483. The Barnes Corp., Erwin, N. C. Filed Feb. 11, 1955.

# PORT-A-WALL

For Removable Sidewalls for Vehicle Tires.  
Use since Jan. 12, 1955.

SN 683,985. Old Town Canoe Company, Old Town, Maine. Filed Mar. 22, 1955. Sec. 2(f).

# Old Town

Applicant claims ownership of the marks shown in expired Reg. Nos. 57,385 and 149,793.  
For Canoes, Boats, Skiffs, and the Various Types of Each, and Structural Parts Thereof; Paddles and/or Oars, Backrests for the Same; Boat and Canoe Sails and Lee-Boards.  
Use since Jan. 26, 1908.

SN 686,722. Atlas Supply Company, Newark, N. J. Filed May 3, 1955.

# ATLAS

Applicant claims ownership of Reg. Nos. 291,757, 545,069, and others.  
For Wire Mesh Bug Screen with Attachments for Mounting on the Front of Automobile Radiators To Prevent Bugs from Clogging the Radiator Core and Causing Overheating.  
Use since Mar. 24, 1955.

SN 686,864. Sumner Boat Company, Inc., Amityville, N. Y. Filed May 4, 1955.

# Summercrafft

For Motorboats.  
Use since Sept. 24, 1954.



SN 686,875. The Anderson Company, Gary, Ind. Filed May 5, 1955. SN 667,423. Multisonic Products, Brooklyn, N. Y. Filed June 1, 1954.

# turtleback

For Windshield Wiper Blades.  
Use since Mar. 1, 1955.

## CLASS 21

SN 655,924. Polarad Electronics Corporation, Brooklyn, N. Y. Filed Nov. 5, 1953.



For Television Amplifiers, Signal Generators, Radio and Television Receivers, Spectrum Analyzers, Picture and Wave Form Monitors, Power Supplies, Attenuators, Radio Cue Systems (i. e. Communication Apparatus Comprising a Radio Transmitter and Pocket-Size Radio Receivers for Receiving Communications Within a Restricted Area), Regulated Electrical Power Units, Radio and Television Tuning Units, and Parts Thereof.

Use since January 1946.

SN 660,779. Audio Equipment Co., Inc., Great Neck, N. Y. Filed Feb. 9, 1954.

**SOFT  
SPEAKER**

The word "Speaker" is disclaimed apart from the trademark as shown.

For Loud Speakers.  
Use since Nov. 9, 1953.

SN 663,637. Continental Copper & Steel Industries, Inc., Hillside, N. J. Filed Mar. 31, 1954.

# HATEX

For Rubber, Plastic and Braided Covered Wire, Metallic and Non-Metallic Armored Cables, Insulated Wire and Cable, and Wire Cord-and-Plug Sets.

Use since Jan. 1, 1908.

SN 665,375. Protectolarm, Inc., Philadelphia, Pa. Filed Apr. 28, 1954.

**Protectolarm**

For Electrical Fire Alarm Systems Intended Particularly for Home Use, and Parts Thereof.  
Use since on or about Feb. 25, 1954.

**RECO-CUSHN**

For Phonograph Turntable Pad.  
Use since in or about May 1954.

SN 668,335. The Master Electric Company, Dayton, Ohio. Filed June 16, 1954.



Applicant claims ownership of Reg. Nos. 156,704, 441,294, and others.

For Control Panels and Parts Thereof and Electrically Controlled Variable Speed Power Transmission Units.  
Use since June 17, 1953.

SN 668,543. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed June 21, 1954.

# MYLAR

Applicant claims ownership of Reg. No. 559,948.  
For Flexible Film for Electrical Insulation.  
Use since June 21, 1951.

SN 669,480. Christian J. Reimüller, Redlands, Calif. Filed July 6, 1954.

**Tenna Tube**

For Device for Leading an Antenna Installation Line Through a Wall.  
Use since July 15, 1953.

SN 670,174. Curtiss-Wright Corporation, Wood-Ridge, N. J. Filed July 19, 1954. SN 675,442. Stromberg-Carlson Company, Rochester, N. Y. Filed Oct. 25, 1954.



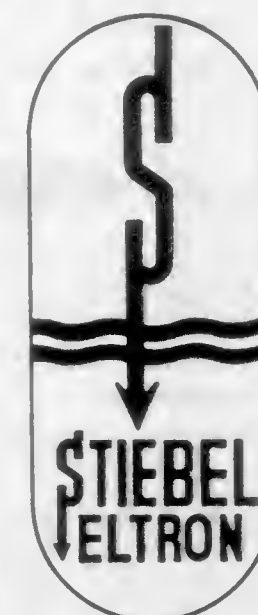
For Electronic Apparatus for Ground Training of Aircraft Crewmen and Parts Thereof.  
Use since Feb. 4, 1954.

SN 672,753. Pan-Mar Corporation, New York, N. Y. Filed Sept. 3, 1954.

**Brilliant**

For Loudspeakers and Microphones.  
Use since July 28, 1954.

SN 674,710. Theodor H. Stiebel, Holzminden, Weser, Germany. Filed Oct. 12, 1954.



Applicant disclaims the word "Stiebel" apart from the mark as shown. The drawing shows the letters and design of the mark as solid on a clear field, but they may be clear on a solid field. Applicant claims ownership of German Reg. No. 616,804, dated Feb. 14, 1952, and U. S. Reg. Nos. 541,400 and 541,984.

For Electrical Space Heaters, Electrical Immersion Heaters; Electrical Switches and Controllers; Electric Current Supply Regulators; Electrically Heated Water Reservoirs, Storage and Supply Tanks; Electrically Heated Meal and Beverage Containers for Mobile Vehicles, Such as Automobiles, Aircraft, etc.; Electrically Heated Oven and Hearth Plates, Kettles, Percolators, Dripcookers, Cooking Pots and Pans With Covers, Egg Poachers, Broilers, Double Browsers and Grills; Electrical Dishwashers; and Electric Stoves.

# HI-FI-ET

For Phonographs.  
Use since Jan. 20, 1954.

SN 680,090. National Dryer Manufacturing Corporation, Chicago, Ill. Filed Jan. 18, 1955.

# Mirro-Vue

For Electric Warm-Air Hand Dryers.  
Use since Jan. 10, 1955.

SN 681,138. Buehler Ltd., Evanston, Ill. Filed Feb. 7, 1955.

# MICROMET ETCHER

The word "Etcher" is disclaimed apart from the mark as shown.

For Electrolytic Etching Apparatus.  
Use since Jan. 3, 1955.

SN 683,501. Goodmans Industries Limited, Wembley, Middlesex, England. Filed Mar. 15, 1955.

# JEMU

Applicant claims ownership of British Reg. No. 616,225, dated Sept. 15, 1941.

For Wireless and Television Apparatus and Parts Thereof Including Loudspeakers and Microphones.

SN 683,764. Duro-Test Corporation, North Bergen, N. J. Filed Mar. 18, 1955.



Applicant claims ownership of Reg. No. 520,004.  
For Incandescent Lamps.  
Use since May 24, 1948.

SN 683,910. The Peerless Corporation, New York, N. Y. Filed Mar. 21, 1955.

# CORSAIR

For Infra-Red Broiler Rotisserie.  
Use since Mar. 9, 1955.

SN 683,911. The Peerless Corporation, New York, N. Y. Filed Mar. 21, 1955.

# CARIOCA

For Infra-Red Broiler Rotisserie.  
Use since Mar. 9, 1955.



SN 684,103. Beckman Instruments, Inc., Fullerton, Calif. Filed Mar. 24, 1955.

# VIBRODE

For Capacitor Modulators.  
Use since Feb. 14, 1955.

SN 684,115. Conducto-Lube Company, Portland, Oreg. Filed Mar. 24, 1955.

*Conducto-Lube*

For Electrically Conductive Lubricating Compositions.  
Use since Mar. 5, 1955.

SN 684,184. Anaconda Wire and Cable Company, New York, N. Y. Filed Mar. 25, 1955.

# EPONEX

For Insulated Wire.  
Use since Feb. 3, 1955.

SN 684,535. Charlotte Chemical Laboratories, Inc., Charlotte, N. C. Filed Mar. 30, 1955.

# CHARLAB IDENTA-LITE

For Light Fixture Adapted To Emit Rays of Light of Wave Lengths Shorter Than Visible Rays.  
Use since Mar. 11, 1955.

SN 684,540. The Crescent Company, Inc., Pawtucket, R. I. Filed Mar. 30, 1955.

# FIRE - GARD

For Automotive Battery Wires and Cables.  
Use since on or about Feb. 14, 1955.

## CLASS 22

SN 657,705. L. M. Eddy Manufacturing Co., Inc., Framingham, Mass. Filed Dec. 9, 1953.

# State Trooper

For Toy Holsters and Toy Pistol and Toy Holster Sets.  
Use since Oct. 16, 1953.

SN 658,225. American Metal Specialties Corporation, Hatboro, Pa. Filed Dec. 21, 1953.

*Kidd-E-Barro*  
by

*AmSCO*

No claim is made to the words "Kidd-E-Barrow" except in the association shown. Applicant claims ownership of Reg. Nos. 539,036 and 539,703.  
For Child's Toy Comprising a Wheelbarrow.  
Use since Feb. 10, 1953.

SN 670,029. Samuel Brown, d. b. a. Canvas Sports Co., Mobile, Ala. Filed July 15, 1954.



The words "Fish Bag" are disclaimed apart from the complete mark as shown.  
For Fish Bags.  
Use since Apr. 6, 1954.

SN 676,639. Evelyn Krauss, Toledo, Ohio. Filed Nov. 15, 1954.

*Little Herman*

For Toys—i. e., Animal and Human Figures, Both Imaginary and Real, Figures and Representations of Inanimate Objects Rendered From Sponge Rubber and the Like in Small Scale Size for Little Children.  
Use since Aug. 23, 1954.

SN 679,581. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.



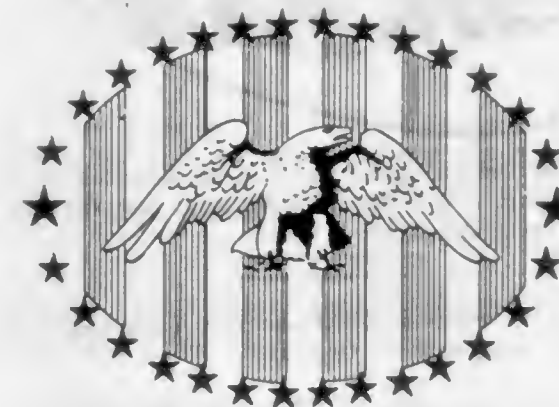
The drawing is lined for the color red.  
For Educational and Scientific Hobby Kits, Specifically Electronics Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Mar. 1, 1954.

SN 679,582. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.



The drawing is lined for the color red.  
For Educational and Scientific Hobby Kits, Specifically Weather Kits and Optical Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Mar. 1, 1954.

SN 679,583. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.



The drawing is lined for the color red.  
For Educational and Scientific Hobby Kits, Specifically Geology Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Mar. 1, 1954.

SN 679,584. Industrial America Incorporated, Chicago, Ill. Filed Jan. 7, 1955.



The drawing is lined for the color red.  
For Educational and Scientific Hobby Kits, Specifically Medical Kits, Consisting of Basic Equipment With Printed Directions for Conducting Simple Experiments Designed To Amuse Children and Also To Stimulate Their Interest in the Sciences.  
Use since Nov. 14, 1952.

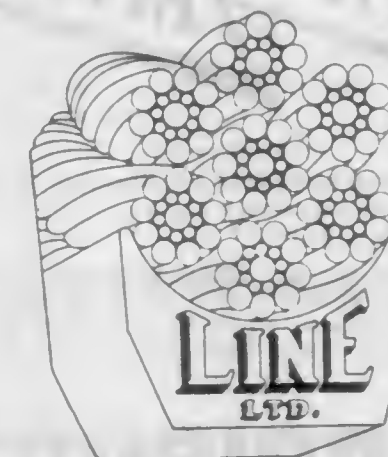
## CLASS 23

SN 634,486. Planet Products Corporation, Cincinnati, Ohio. Filed Aug. 26, 1952.

**PLANET**

For Special Machinery—Namely, Deformation Generators, Slushing Stands, Honing Machines, Torque Wrenches, and Belt Grinders.  
Use since Sept. 5, 1951, on honing machines.

SN 635,600. Lebus International Engineers, Ltd., Longview, Tex. Filed Sept. 22, 1952.



For Hoisting Equipment Utilized in Rotary Drilling Units for Oil Wells—Namely, Hoisting Drums and Winches.  
Use since Mar. 15, 1952.

SN 650,225. Textile Machine Works, Wyomissing, Reading, Pa. Filed July 13, 1953. Sec. 2(f).

# The "READING"

Applicant claims ownership of Reg. Nos. 312,896, 325,009, and 346,502.

For Knitting Machines, Their Parts and Accessories Thereof, Hosiery Examining Forms, Hosiery Handling Tables, and Hosiery Counters.  
Use since Oct. 27, 1933.

SN 656,810. Lectrolite Corporation, Defiance, Ohio. Filed Nov. 23, 1953.

# S-K LECTROLITE

Applicant claims ownership of Reg. No. 567,405.  
For Box Wrenches, Combination Box and Open End Wrenches, Open End Wrenches, "Stillson" Pipe Wrenches, Pliers, Automotive Pliers, Rim Wrenches, Tire Irons, and Valve Lifting Tools.  
Use since during June 1953.

SN 657,362. Mount Hope Machinery Company, Taunton, Mass. Filed Dec. 3, 1953.

# FREE WHEELING

For Sheet-Expanding and Contracting Units and Parts Thereof—Namely, Expanders and Contractors for Textile, Elastic, Paper, and Like Materials.  
Use since August or September 1945.



SN 662,456. Lockwood Hardware Mfg. Co., Fitchburg, Mass. Filed Mar. 11, 1954.

# SPEEDRIL

For Boring Jigs and Parts Thereof.  
Use since Feb. 18, 1954.

SN 662,661. Millers Falls Company, Greenfield, Mass. Filed Mar. 15, 1954.

# DYNO-MITE

Applicant claims ownership of Reg. No. 353,862.  
For Hole Saws and Hole Saw Blades.  
Use since Jan. 27, 1954.

SN 665,382. Thompson Products, Limited, St. Catharines, Ontario, Canada. Filed Apr. 28, 1954. Sec. 2(f).

# LIDDICOAT

For Drill Bits and Rock Bits.  
Use since April 1947.

SN 665,691. F. E. Erickson Company, Inc., North Sacramento, Calif. Filed May 4, 1954.

# Feeco

For Coin Operated Cigarette Vending Machines.  
Use since Feb. 26, 1954.

SN 667,770. Army Chemical Corporation, New York, N. Y., to Wrap-Vertiser Corporation, New York, N. Y. Filed June 7, 1954.



For Machine for Printing Wrapping Papers as Used.  
Use since Apr. 15, 1954.

SN 669,345. The Milescraft Manufacturing Company, Cleveland, Ohio. Filed July 2, 1954.

# Milescraft

For Carpentry, Masonry, and Plastering Tools, and Tools for Working in Cement and Analogous Materials—Namely, Carpenters' Planes, Spoke Shaves, Hand and Breast Drills, Pliers, Pincers and Nippers, Wire Cutters, Wrenches, Screw Drivers, Bevels, Mallets, Chisels and Wood Gouges, Handles for Wood Chisels and Gouges, Saws and Saw Handles and Blades, Plain and Ratchet Braces, Vices, Punches, Nail Sets, Putty Knives, Trowels, Tampers, Cement Floats, Edgers, Groovers and Darbies, Plaster Paddles, Hammers and Hammer Handles, Hatchets and Hatchet Handles, Axes and Ax Handles, Adzes and Files.

Use since on or about May 1, 1945, on carpentry, masonry, and plastering tools.

SN 670,343. The Elwell-Parker Electric Company, Cleveland, Ohio. Filed July 21, 1954.



For Power Driven Industrial Trucks Adapted for Transporting, Lifting, and Tying of Material and the Like.  
Use since on or about June 9, 1954.

SN 670,733. "Everest"-Nähmaschinen-Verkaufsgesellschaft m. b. H., Stuttgart-N., Germany. Filed July 28, 1954.



Applicant claims ownership of German Reg. No. 640,984, dated June 16, 1952.

For Sewing Machines and Parts Thereof, Sewing Machine Frames, Sewing Machine Needles, Sewing Machine Attachments—Namely, Seam Forming Devices, Fabric Feeders, and Folding Devices, and Tools.

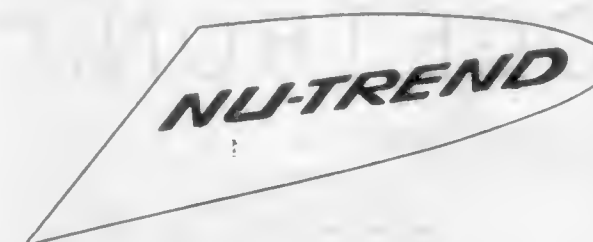
SN 672,399. Flavor-Seal Corporation, d. b. a. Coreling Products Company, Chicago, Ill. Filed Aug. 30, 1954.

# Coreling

For Houseware Items—Namely, Stainless Steel Flatware for Table Use; Cutlery—Namely, Culinary Knives, Forks and Scrapers, Carving Sets, Can Openers, and Peeling and Coring Tools.

Use since May 17, 1954.

SN 672,400. Flavor-Seal Corporation, d. b. a. Nu-Trend Products Company, Chicago, Ill. Filed Aug. 30, 1954.



For Houseware Items—Namely, Stainless Steel Flatware for Table Use; Cutlery—Namely, Culinary Knives, Forks and Scrapers, Carving Sets, Can Openers, Peeling and Coring Tools; Kitchen Tools—Namely, Ladles, Spatulas, Food Servers, Vegetable Mashers, Egg Beaters, and Spoons and Turners.

Use since Mar. 6, 1954.

SN 672,659. Hayes Spray Gun Company, Pasadena, Calif. Filed Sept. 2, 1954. Sec. 2(f).



For Spray Guns in the Nature of Garden Hose Spray Attachments for Diluting and Applying Concentrated Liquid Fertilizer.

Use since in the year 1934.

SN 672,661. Hayes Spray Gun Company, Pasadena, Calif. Filed Sept. 2, 1954.

# FERTL-RAIN

For Spray Guns in the Nature of Garden Hose Spray Attachments for Diluting and Applying Concentrated Liquid Fertilizer.

Use since 1948.

SN 674,301. Gebrüder Thiel G. m. b. H., Sand, near Kassel, Germany. Filed Oct. 4, 1954.



Applicant claims ownership of German Reg. No. 607,258, dated May 16, 1951.

For Machine Tools—Namely, Shapers, Sawing Machines including Band Saws, Planing Machines, Milling Machines, Reaming Machines, Threading Machines, Turning Machines, Lathes, and Gear Cutting Machines and Parts of the Said Machines.

SN 674,613. Nihon Mishin Seizo Kabushiki Kaisha, Mizuho-Ku, Nagoya, Japan. Filed Oct. 11, 1954.

# SELECT-O-MATIC

Priority is claimed under Sec. 44(d). Japanese application filed Aug. 4, 1954; Reg. No. 464,725, dated Apr. 21, 1955.  
For Sewing Machines and Parts Thereof and Accessories—Namely, Needle Bars, Shuttle Race Bodies, Shuttle Drivers, Balance Wheels, Bobbin Winder Spinners, Feed Regulators.

SN 675,122. The American Well Works, Aurora, Ill. Filed Oct. 20, 1954.

# HOMOMIX

For Diffusion Device for Mixing in a Pipeline One or More Chemicals or Gases With Other Chemicals, Gases, Water, Sewage, Industrial Waste, and the Like.

Use since Apr. 25, 1946.

SN 678,011. American Optical Company, Southbridge, Mass. Filed Dec. 9, 1954.

# POWER-MATIC

For Lens Surfacing Machines and Parts for the Aforesaid Machines.

Use since Dec. 1, 1954.

SN 678,523. Hubert N. Divilbiss, d. b. a. H. N. Divilbiss Mfg. Co., Napa, Calif. Filed Dec. 17, 1954.



Applicant disclaims the word "Divilbiss," apart from the mark as shown.

For Leather Tools—Namely, Swivel Top Cutters and Blades Thereof, Thonging Chisels and Prongs Thereof, Dot Anvils, Dot Setters, Snap Setters and Eyelet Setters.

Use since October 1946.

## CLASS 26

SN 644,671. Holger Andreasen, Inc., San Francisco, Calif. Filed Apr. 3, 1953.

# ANDREX

The lining indicates blue.  
For Industrial X-Ray Machines.  
Use since Mar. 19, 1953.

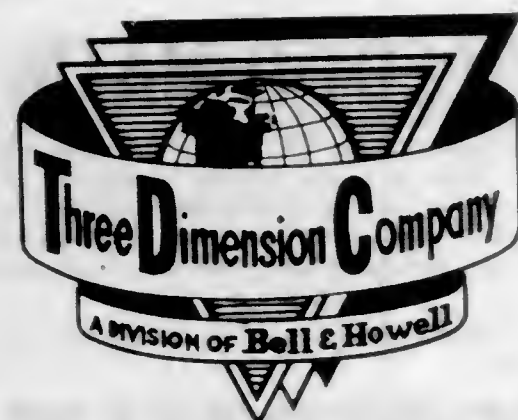
SN 666,149. Victory Engineering Corporation, Union, N. J. Filed May 11, 1954.

# VECO

For Gas Analysis Cells, Combustion Analyzers, Temperature Sensing Devices.  
Use since August 1950 on analysis cells.



SN 608,436. Bell & Howell Company, Chicago, Ill. Filed June 18, 1954. SN 683,214. Logetronics, Inc., Washington, D. C. Filed Mar. 10, 1955.



Without prejudice to any common law rights now owned or hereafter acquired, no claim is made herein to the words "Three Dimension Company" and "A Division of Bell & Howell" apart from the mark as shown for the purposes of this registration.

For Stereopticon Slide and Film Strip Projectors, Slide Changers and Slide Mounts for Stereopticon Projectors, Stereo Projectors and Cameras.  
Use since January 1954.

SN 671,329. Joseph Sidney Elwood Gary, New Iberia, La. Filed Aug. 9, 1954.

### "THE ELWOOD PRICER"

For Slide Rule Calculators.  
Use since Aug. 20, 1953.

SN 680,263. Fairchney Instrument Corporation, Watertown, N. Y. Filed Jan. 21, 1955.



For Thermometers.  
Use since June 14, 1954.

SN 680,352. Aseptic-Thermo Indicator Co., North Hollywood, Calif. Filed Jan. 24, 1955.

### steri Line

Applicant claims ownership of Reg. No. 558,718.  
For Paper Container Having an External Thermosensitive Indicator Thereon for Indicating When Contents Have Been Subjected to Sterilizing Conditions.  
Use since Nov. 3, 1954.

SN 680,367. Continental Optical Company, Inc., Indianapolis, Ind. Filed Jan. 24, 1955.

### BARRELOC

For Spectacle Frames.  
Use since Dec. 27, 1954.

## LOGETRONIC

For Photographic Apparatus.  
Use since Feb. 16, 1955.

### CLASS 29

SN 661,133. Gibson-Thomsen Co., Inc., New York, N. Y. Filed Feb. 16, 1954. Sec. 2(f).

### Howard

For Hair Brushes.  
Use since December 1932.

SN 680,780. National Brush Company, Aurora, Ill. Filed Jan. 31, 1955.

## Sno-Chaser

For Combination Whisk Broom and Surface Scraper for Removing Snow and Ice From Automobile Windows.  
Use since on or about Sept. 1, 1953.

### CLASS 31

SN 615,045. Bamag-Meguin Aktiengesellschaft, Berlin, Germany, now by change of name, Pintsch Bamag Aktiengesellschaft. Filed June 12, 1951.



Priority under Sec. 44(d). German application filed Dec. 21, 1950, Reg. No. 619,902, dated Jan. 24, 1952.

For Water Softening Apparatus for Softening Water by Ion Exchange, Filters for Filtering Liquids, Rakes for Removal of Sludge From Filtered Water Passing Therethrough, Control Devices for Controlling the Inflow and Outflow of Water and Purifying Agents in Water Purifying and Clarifying Plants, Sleeve Devices for Water Filtration, Filter Drums, and Filter Blades.

SN 646,687. Room-Temp Lockers, Inc., Tacoma, Wash. Filed May 8, 1953.

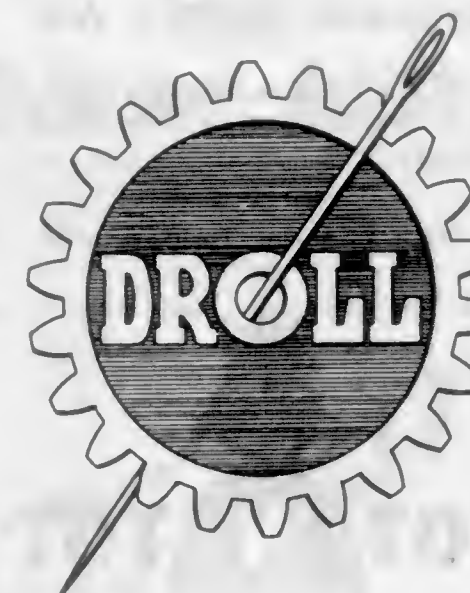
## COLD CACHE

The word "Cold" is disclaimed apart from the mark as shown.

For Commercial, Compartmented, Cold Storage Lockers.  
Use since July 1, 1950.

### CLASS 32

SN 652,027. Meridan Corporation, Chicago, Ill., to United Mattress Machinery Company, Quincy, Mass. Filed Aug. 19, 1953.



For Mattresses and Box Springs.  
Use since June 11, 1953.

SN 669,379. William D. Townson, Senior, d. b. a. W. D. Townson Lumber Company, Murphy, N. C. Filed July 2, 1954.

## PAL-A-RAK

For Combined Sectional Storage Racks and Pallets Therefor.  
Use since Dec. 18, 1952.

SN 670,157. George L. Beran, d. b. a. Allegheny Plywood Company, Pittsburgh, Pa. Filed July 19, 1954.

## Quick-Set

For Frames of Knocked-Down Tables.  
Use since Mar. 15, 1954.

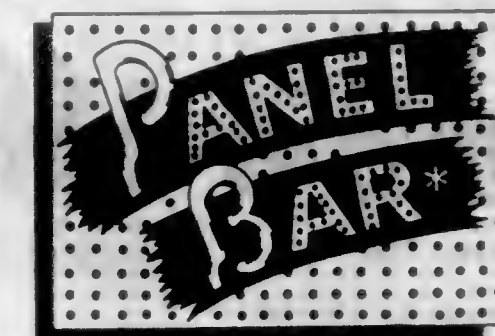
SN 673,713. Adams Engineering Co., Inc., Miami, Fla. Filed Sept. 24, 1954.



No claim is made to the words "Exclusive With ABC" apart from the mark as shown.

For Plastic Webbing Woven to Size and Merchandised in That Form for Aluminum Summer Furniture.  
Use since Sept. 9, 1954.

SN 675,644. The Metaloid Company, Cleveland, Ohio. Filed Oct. 28, 1954.



For Article Support and Display Boards Comprising Perforated Metal Faced Boards and Hooks or Brackets for Supporting Articles.  
Use since on or about Oct. 1, 1954.

SN 676,209. Lukens Manufacturing Company, Philadelphia, Pa. Filed Nov. 8, 1954.

## Luxurtuft Bedding

Exclusive use of the word "Bedding" is not claimed apart from the mark shown.  
For Mattresses.  
Use since Oct. 7, 1954.

SN 677,952. Finer Chrome Products Co., Inc., Bronx, N. Y. Filed Dec. 8, 1954.

## Finer Loyal

For Furniture—Namely, Dinette Sets and Chairs and Tables of the Type Used in Dinette Sets.  
Use since March 1952.

SN 678,327. Gruber Industries, Inc., Royersford, Pa. Filed Dec. 14, 1954.

## SERVI-SEAT

For Portable Folding Aluminum Furniture Having Multiple Uses—Namely, for Use as Chairs, Stools, Tables, Luggage Racks, Ottomans, and Stands.  
Use since Nov. 4, 1954.

SN 678,483. Southern Equipment Company, St. Louis, Mo. Filed Dec. 16, 1954.

## Southern

For Dish and Portable Tables.  
Use since Sept. 28, 1954.

SN 678,707. Robert J. Carrithers, d. b. a. Mayfair Co., Chicago, Ill. Filed Dec. 21, 1954.



Applicant disclaims the words "Another" and "Product" apart from the mark as shown.

For Steel Card Files, Steel Stationery Holders, Steel Letter Files, Steel Letter Separators, and Steel Typewriter Tables.  
Use since Nov. 2, 1953.



SN 679,742. Show-Off, Inc., Jamestown, N. Y. Filed Jan. 11, 1955.

# Show-off

For Bedroom and Living Room Furniture—Namely, Beds, Dressers, Chests, Night Stands, Mirrors, Bookcases, and Coffee Tables.

Use since May 19, 1954, on beds.

SN 679,748. B. Altman & Co., New York, N. Y. Filed Jan. 12, 1955. Sec. 2(f).

## The Madison Group

For Upholstered Furniture—Namely, Sofas, Loveseats, and Chairs.

Use since 1940.

SN 679,944. Benjamin J. Smith, d. b. a. Ben J. Smith Mfg. & Supply Co., Frontenac, St. Louis County, Mo. Filed Jan. 14, 1955.

# CUSH-N-KNEES

For Kneeling Cushions for Pews, Communion Steps, and Prie Dieux.

Use since Dec. 20, 1950.

SN 679,968. American Seating Company, Grand Rapids, Mich. Filed Jan. 17, 1955.

# AMEREX

For Sheet Plastic-Surfaced Tops of Tables, Desks, Tablet Arm Chairs, and the Like.

Use since about Jan. 1, 1955.

SN 679,989. Paul Heinley, Santa Monica, Calif. Filed Jan. 17, 1955.

## Paul Heinley

For Louvered Shutters, Finished or Unfinished, for Forming Free Standing Screens, Fireplace Screens, Panels, and Doors on Cabinets and Portable Wardrobe Closets, and Other Items of Furniture.

Use since Mar. 5, 1952.

SN 679,992. International Business Machines Corporation, New York, N. Y. Filed Jan. 17, 1955.

# IBM

Applicant claims ownership of Reg. Nos. 550,421, 589,930, and others.

For Typewriter Desks and Lecterns.

Use since July 23, 1954, on typewriter desks.

## CLASS 34

SN 640,776. Bachmann Uxbridge Worsted Corporation, Uxbridge, Mass. Filed Jan. 15, 1953.

## UXBRIDGE GENTLE AIR

For Air Driers for High Speed Spinning—I. e., Drying Sized Yarn, and Other Textile Materials by Means of Heat.

Use since Apr. 14, 1948.

SN 658,301. Alan L. Moore, Ypsilanti, Mich. Filed Dec. 21, 1953.



For Portable Space Heater.

Use since on or about Sept. 21, 1953.

SN 659,804. Minikay Aktiebolag, Göteborg, Sweden. Filed Jan. 20, 1954.

# MINIKAY

Applicant claims ownership of Swedish Reg. No. 69,339, dated Jan. 19, 1951.

For Systems for Circulating Drying Air Through the Insulating Material of Walls, Floors, and Ceilings of Insulated Rooms To Dehumidify and/or Dehydrate the Same.

SN 666,083. York-Shipley, Inc., York, Pa. Filed May 10, 1954. Sec. 2(f).



No claim is made herein to that part of the mark consisting of the word "Gas," apart from the mark as shown. Applicant claims ownership of Reg. No. 520,615.

For Gas Burning Hot Air Heaters and Hot Water Heaters.

Use since Dec. 17, 1953.

SN 668,878. W. T. M. Manufacturing Company, Ripon, Wis. Filed June 24, 1954.

# Ripon King

For Hot Water Heaters, Heated by Any Appropriate Source of Energy Such as Electricity or Gas.

Use since Jan. 10, 1949.

SN 674,941. W. A. Case & Son Mfg. Co., Buffalo, N. Y. Filed Oct. 18, 1954.

# Trojan

Applicant claims ownership of Reg. Nos. 224,668 and 513,409.

For Boilers and Oil Burners.

Use since Jan. 1, 1892, on boilers.

SN 677,968. Memphis Metal Manufacturing Company, Inc., Memphis, Tenn. Filed Dec. 8, 1954.



DELIGHT IN EVERY BITE

The word "System" is disclaimed apart from the mark as shown.

For Barbecue Equipment and Products—Namely, Ovens, and Parts Thereof.

Use since on or about May 7, 1954.

SN 679,050. Sarco Company, Inc., New York, N. Y. Filed Dec. 28, 1954.

# SARCOFIN

Applicant claims ownership of Reg. Nos. 186,041 and 187,188.

For Finned-Tube and Baseboard Radiation.

Use since June 1, 1954.

SN 679,580. The Hotstream Heater Company, d. b. a. Rapid Water Heater Co., Cleveland, Ohio. Filed Jan. 7, 1955.

# RAPIDAC

For Water Heaters.

Use since January 1953.

## CLASS 35

SN 666,173. Connare Manufacturing Corporation, Manchester, N. H. Filed May 12, 1954.

# HI-CRU

For Re-Capped Tires.

Use since September 1953.

SN 669,016. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed June 28, 1954.

# Western

For Fabric Endless Belts Suitable for Forming, Elevating, and Conveying Purposes.

Use since on or about Mar. 31, 1953.

SN 669,282. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed July 1, 1954.



For Fabric Endless Belts Suitable for Forming, Elevating, and Conveying Purposes.

Use since on or about Mar. 31, 1953.

## CLASS 36

SN 648,500. Joseph Rogers, Jr. & Son, Inc., Farmingdale, N. J., now by change of name, Joseph Rogers, Inc. Filed June 9, 1953.

## Joe. Rogers Jr.

### Three Star Brand

The word "Brand" is disclaimed apart from the mark as shown.

For Banjo and Drum Heads and Drums.

Use since on or about Jan. 2, 1953.

SN 648,502. Joseph Rogers, Jr. & Son, Inc., Farmingdale, N. J., now by change of name, Joseph Rogers, Inc. Filed June 9, 1953. Sec. 2(f).

# ROGERS

Applicant claims ownership of the marks shown in Reg. Nos. 260,191, 260,318, and 261,077, all expired.

For Banjos, Drums, Tamborines, Tom-Toms, Drum Pedals, Cymbals, Cymbal Holders, Drum Spurs, Drum Sticks, Drum Beaters, Drum Practice Pads, Drum Stands, Drum Strainers, Bass Drum Muffers, Drum Leg Rests, and Snares.

Use since on or about Jan. 1, 1943.



## CLASS 37

SN 632,182. The Sydney-Thomas Corporation, Cincinnati, Ohio. Filed July 5, 1952.



For Roll Wrappings Made of Film or Foil Sheets of Such Materials as Plastic and Cellophane.  
Use since sometime in 1944.

SN 636,222. Eagle Pencil Company, New York, N. Y. Filed Oct. 6, 1952. Sec. 2(f).

# RELIABLE

For Wood Encased Pencils.  
Use since Apr. 1, 1925.

SN 642,182. United States Envelope Company, Springfield, Mass. Filed Feb. 12, 1953. Sec. 2(f).

# SELF

# SEAL

Applicant claims ownership of Reg. Nos. 342,657 and 342,658.  
For Envelopes.  
Use since Aug. 22, 1935.

SN 642,183. United States Envelope Company, Springfield, Mass. Filed Feb. 12, 1953. Sec. 2(f).

# SELF-SEAL

Applicant claims ownership of Reg. Nos. 342,657 and 342,658.  
For Envelopes.  
Use since Aug. 22, 1935.

SN 652,059. Crown Zellerbach Corporation, San Francisco, Calif. Filed Aug. 20, 1953.



Applicant claims ownership of Reg. Nos. 149,366, 580,835, and others.  
For Paper Bags, Waxed Paper Sandwich Bags, and Disposable Paper Garbage Bags.  
Use since June 3, 1953.

SN 657,471. Zellstofffabrik Waldhof, Mannheim-Waldhof, Germany. Filed Dec. 4, 1953.



Applicant claims ownership of German Reg. No. 608,164, dated June 15, 1951.

For Pulp; Paper and Paper Products—Namely, Wrapping Paper, Glassine Paper, Grease Proof Paper, Packing Paper, Lining Paper, Bag Paper, Coated Paper, Laminated Paper, Crepe Paper, Writing Paper, Tissue Paper, Paper Tissue, and Sanitary Paper.

SN 662,009. Kurtz Bros., Clearfield, Pa. Filed Mar. 4, 1954.

# KURBRO

For Writing, Drawing and Duplicator Paper, Mimeograph Paper; Paper Tablets, Notebooks and Composition Books; Blackboard Erasers; Stencils, and Penholders; Cellulose Duplicator Stencils, Lettering Guides, Stylus, Paper Covers for Cylinders, Filing Wrappers for Stencils, and Cellophane.  
Use since Sept. 1, 1939.

SN 665,393. Roland A. Beckman, d. b. a. Beckman Industrial Engineers, Chicago, Ill. Filed Apr. 29, 1954.

# REDiPRINT

For Stencils.  
Use since Apr. 1, 1954.

SN 665,788. Sherman Paper Products Corporation, Newton, Mass. Filed May 5, 1954.

# CARBION

For Flexible, Corrugated Paper, and Plastic Sheeting, Used as Wrappings, Liners, Packaging Pads, Blanks for Trays or Boxes, and Ornamental Displays.  
Use since Mar. 3, 1954.

SN 665,789. Sherman Paper Products Corporation, Newton, Mass. Filed May 5, 1954.

# SHEIRY-A-PAK

For Flexible, Corrugated Paper and Plastic Sheeting, Used as Wrappings, Liners, Packaging Pads, Blanks for Trays or Boxes, and Ornamental Displays.  
Use since Apr. 1, 1954.

SN 672,944. Fort Howard Paper Company, Green Bay, Wis. Filed Sept. 9, 1954.

# BYNAP

For Paper Napkins.  
Use since Feb. 1, 1954.

SN 672,945. Fort Howard Paper Company, Green Bay, Wis. Filed Sept. 9, 1954.

# HYNAP

For Paper Napkins.  
Use since Feb. 1, 1954.

SN 674,845. The Richard Publishing Company, Melvindale, Mich. Filed Oct. 14, 1954.

# "Friends for Keeps"

For Memorandum and Data Book.  
Use since May 19, 1953.

SN 678,009. Byron Weston Company, Dalton, Mass. Filed Dec. 8, 1954.

# Weston's Hand Weave

Applicant claims ownership of Reg. No. 538,063.  
For Writing Paper for Correspondence and Typing.  
Use since on or about Aug. 1, 1954.

SN 678,342. C. A. Reed Company, Williamsport, Pa. Filed Dec. 14, 1954.

# Rembrandt

For Paper Napkins, and Paper Table Covers.  
Use since Dec. 8, 1954.

# Havanaps

Applicant claims ownership of Reg. Nos. 211,600 and 596,550.

For Paper Napkins.  
Use since Dec. 15, 1954.

SN 678,977. Elbe File & Binder Co., Inc., Fall River, Mass. Filed Dec. 27, 1954.

# ELBE

Applicant claims ownership of Reg. Nos. 126,674, 214,100, and 426,602.

For Stationery and Office Supplies—Namely, Loose-Leaf Binders, Indexes, Celluloid Tabs, Rings, Fillers, Loose-Leaf Posts and Accessories Therefor, Clip Binders, Magazine Binders, Clip Boards, Aluminum Sheet Holders, Sales Book Holders, Board Clips, Binders for Storing Papers, Order Book Holders, Arch Files, Clip Files, Pressboard Folders, Pressboard Guides, Phone Book and Check Book Covers, Covers for Magazines and Publications, Sample and Swatch Book Covers, Visible Record Binders, Photograph and Postage Stamp Albums, Blank Stock Books, Blank Scrap Books, Blank Approval Cards, Blank Stock Sheets; Philatelic Supplies Comprising Stamp Collecting Albums, Binders for Stamp Holding Sheets, Paper Wallets, Paper Display Cards and Blank Stock Sheets; Paper Products—Namely, Fillers for School Notebooks; and School Supplies—Namely, Loose-Leaf Notebooks, Loose-Leaf Split Rings, College Examination Blank Books; Paper and Fiber Carrying Cases and Portfolios for Carrying Papers, Catalogs and Flat Articles.  
Use since about January 1906.

## CLASS 38

SN 656,380. Child Life, Inc., Boston, Mass. Filed Nov. 16, 1953.



# Busy Bee

The word "Book" is disclaimed apart from the mark as shown on the drawing.

For Series of Children's Books Published From Time to Time.  
Use since June 25, 1953.

SN 658,478. Ralston Purina Company, St. Louis, Mo. Filed Dec. 23, 1953. Sec. 2(f).

# PURINA RESEARCH DIGEST

Applicant claims ownership of Reg. Nos. 61,057, 523,420, and others.

For House-Organ Magazine.  
Use since Dec. 7, 1953.



SN 675,120. American Home Products Corporation, d. b. a. Wyeth Laboratories, Division of American Home Products Corporation, Philadelphia, Pa. Filed Oct. 20, 1954.

*your* PATIENT

For Periodical Publication.  
Use since Dec. 10, 1953.

SN 678,880. The National Association of Independent Insurance Adjusters, Chicago, Ill. Filed Dec. 23, 1954. Sec. 2(f).

*The* INDEPENDENT  
*Adjuster*

For Periodical Issued Quarterly.  
Use since Apr. 1, 1938.

SN 678,903. Auto-Vehicle Parts Company, Newport, Ky. Filed Dec. 24, 1954.

THE  
Indexer

For Catalogues of Small Replacement Parts for Automobiles Issued From Time to Time.  
Use since Mar. 25, 1932.

#### CLASS 39

SN 628,979. Bernhard Altmann, New York, N. Y., to The Bernhard Altmann Corporation, New York, N. Y. Filed May 1, 1952.



BERNALTMAN

Applicant claims ownership of Reg. Nos. 352,957 and 542,227.

For Men's and Ladies' Overcoats, Topcoats and Sweaters and Cardigans, Ladies' Dresses and Men's Hosiery.  
Use since 1948.

SN 648,668. S. Goldberg & Co. Inc., Hackensack, N. J. Filed June 12, 1953.

JET ACE

For House Slippers for Men, Women, and Children.  
Use since May 28, 1953.

SN 648,827. S. Goldberg & Co. Inc., Hackensack, N. J. Filed June 12, 1953.

JET PATROL

Applicant claims ownership of Reg. No. 569,215.  
For House Slippers for Men, Women, and Children.  
Use since May 28, 1953.

SN 648,834. Curt Baumann, Mosbach/Baden, Germany. Filed June 16, 1953.

Bama

Applicant claims ownership of German Reg. No. 626,458, dated Sept. 15, 1952.

For Shoes, Slippers, Stockings, Socks, Insoles for Men, Women, and Children.

SN 650,116. Oakmont Hosiery Mills, Greensboro, N. C. Filed July 10, 1953.



For Hosiery for Men, Women, and Children.  
Use since Apr. 4, 1953.

SN 654,600. Pleasant Valley Shoe Co., Westminster, Md. Filed Oct. 13, 1953.

Kiddie Kubs

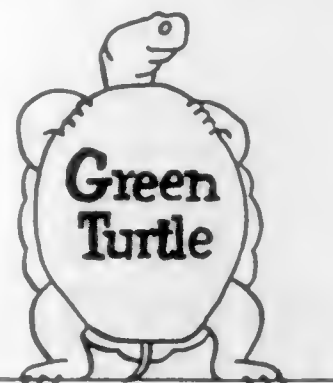
For Children's Shoes.  
Use since July 10, 1949.

SN 668,348. The Selby Shoe Company, Portsmouth, Ohio. Filed June 16, 1954.

MARGARET  
ROSE

For Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials.  
Use since June 10, 1954.

SN 668,650. Edmont Manufacturing Company, Coshocton, Ohio. Filed June 22, 1954.



For Utility Gloves Made of Fabric Coated With Rubber or Other Similar Composition.  
Use since on or about Apr. 27, 1954.

SN 668,668. Kops Bros., Inc., New York, N. Y. Filed June 22, 1954. SN 678,553. Randolph Manufacturing Company, Incorporated, Randolph, Mass. Filed Dec. 17, 1954.

BEHAVE

For Foundation Garments.  
Use since June 7, 1954.

SN 672,914. Société à Responsabilité Limitée Dite: Racine, Nice, Alpes Maritimes, France. Filed Sept. 8, 1954.

Pampelone

Applicant claims ownership of French Reg. No. 357,886, dated Dec. 23, 1943.  
For Women's and Children's Dresses Made of Jersey.

SN 674,932. Brooks Brothers, Inc., New York, N. Y. Filed Oct. 18, 1954.



"Sermona Consona Facta" may be freely translated "Deeds Agreeing With Words."

For Wearing Apparel—Namely, Men's, Women's and Children's Suits, Outer Coats, Hosiery, Pajamas, Hats, Sweaters, and Underwear; Women's and Girls' Dresses; and Men's and Boys' Neckties.  
Use since about 1880.

SN 676,232. Saxone Shoe Company Limited, Kilmarnock, Scotland. Filed Nov. 8, 1954.

SAXONE  
GOLF  
Master

Applicant claims ownership of British Reg. No. 689,952, dated June 19, 1950, and U. S. Reg. No. 272,007.  
For Golf Shoes.

SN 678,051. Stacy Adams Company, Brockton, Mass. Filed Dec. 9, 1954. Sec. 2(f).

STACY-ADAMS

Applicant claims ownership of Reg. Nos. 150,119 and 380,669.

For Men's Shoes.  
Use since prior to Jan. 1, 1876.

RANDY qoofies

Applicant claims ownership of Reg. No. 584,777.  
For Canvas Shoes for Men and Women.  
Use since Sept. 14, 1954.

SN 679,179. Clifford C. Rosser, d. b. a. Kip-Craft Enterprises, Cleveland Heights, Ohio. Filed Dec. 30, 1954.

Kip-Craft

For Children's Costumes—Namely, Velvet and Net Head-Dress, Taffeta Bandeau, Nylon Net Stole, Evening Skirt, Net Ballerina Skirt, Evening Cape, and Wristlets.  
Use since on or about Aug. 1, 1953.

SN 679,509. Bear Brand Hosiery Co., Chicago, Ill. Filed Jan. 6, 1955.

STAR-FLEX

For Women's Hosiery.  
Use since June 1, 1954.

SN 679,696. Willey-Bickford-Sweet Corp., Worcester, Mass. Filed Jan. 10, 1955.

SIESTA

Applicant claims ownership of Reg. No. 96,563, expired.  
For Slippers and Slipper-Soles.  
Use since July 1912.

SN 679,707. Aldens, Inc., Chicago, Ill. Filed Jan. 11, 1955. Sec. 2(f).

The Alden Jr.

Applicant claims ownership of Reg. Nos. 331,100, 577,057, and others.

For Men's and Boys' Outer Suits.  
Use since Nov. 11, 1934.

SN 679,741. Salant & Salant, Inc., New York, N. Y. Filed Jan. 11, 1955.



For Boys' Sport Shirts.  
Use since Dec. 22, 1954.



SN 679,747. Weinberg Corporation, Chicago, Ill. Filed Jan. 11, 1955.

# Ventoga

For Men's and Boys' Suits, Vests, Pants, Belts, and Outer-coats.  
Use since on or about Dec. 10, 1954.

SN 679,923. Milsan Mills, Inc., Lebanon, Pa. Filed Jan. 14, 1955.

# JR. ROCK

For Men's and Boys' T-Shirts, Briefs, Undershirts, Under-shorts, Pajamas, and Polo Shirts.  
Use since July 22, 1954.

SN 679,924. Milsan Mills, Inc., Lebanon, Pa. Filed Jan. 14, 1955.

# LITTLE ROCK

For Men's and Boys' T-Shirts, Briefs, Undershirts, Under-shorts, Pajamas, and Polo Shirts.  
Use since July 22, 1954.

SN 679,925. Milsan Mills, Inc., Lebanon, Pa. Filed Jan. 14, 1955.

# BIG ROCK

For Men's and Boys' T-Shirts, Briefs, Undershirts, Under-shorts, Pajamas, and Polo Shirts.  
Use since July 22, 1954.

SN 679,991. C. H. Hyer & Sons, Inc., Olathe, Kans. Filed Jan. 17, 1955.

# WESTERN WELLINGTON

For Boots and Shoes Made of Leather, Fabric, and/or Combination Thereof for Men, Women, and Children.  
Use since Dec. 29, 1954.

## CLASS 40

SN 668,550. Dorothy Flicek Industries, Inc., Chicago, Ill. Filed June 21, 1954.



For Surface Ornaments—to Wit, Sequins, Spangles, Beads, Imitation Jewels, and Small Ornamental Figures, Adapted for Home and Hobby (Commonly Called "Do-It-Yourself") Ornamentation of Clothing and Fabrication of Jewelry, and Devices for Mounting and Fastening Such Ornaments.  
Use since Sept. 25, 1951.

## CLASS 42

SN 670,494. Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Filed July 23, 1954.

# LUSTERNYL

Applicant claims ownership of Reg. No. 597,151.  
For Textile, Woven, Woolen Rugs and Carpets.  
Use since June 14, 1954.

SN 679,547. Belrug Mills of South Carolina, Greenville, S. C. Filed Jan. 7, 1955.

# WUNDA BELLE

Applicant claims ownership of Reg. No. 582,960.  
For Loom Woven Cut Pile Rugs.  
Use since Dec. 15, 1954.

SN 679,549. Belrug Mills of South Carolina, Greenville, S. C. Filed Jan. 7, 1955.

# WUNDA LURE

Applicant claims ownership of Reg. No. 574,703.  
For Loom Woven Cut Pile Rugs.  
Use since Dec. 16, 1954.

SN 679,567. Fieldcrest Mills, Inc., Spray, N. C. Filed Jan. 7, 1955.

# Vignette

For Textile Rugs.  
Use since on or about Jan. 3, 1955.

SN 679,745. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Jan. 11, 1955.

# BORDAFIX

For Flocked Plastic Film, and Flocked Textile Piece Goods Made of or Containing Fibers of Cotton, Wool, Silk or Linen; or of Rayon, Nylon, or Other Synthetic or Plastic Materials, as Well as Combinations of Any of the Foregoing Fibers and Materials, Said Flocked Goods Comprehending the Deposition or Distribution and Fixation of Finely Divided Particles or Fragmentary Material Upon a Surface, Usually, But Not Always, in the Form of a Pattern or Design Arrangement.  
Use since on or about Dec. 28, 1954.

SN 679,746. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Jan. 11, 1955.

# VELVEFIX

For Flocked Plastic Film, and Flocked Textile Piece Goods Made of or Containing Fibers of Cotton, Wool, Silk or Linen; or of Rayon, Nylon, or Other Synthetic or Plastic Materials, as Well as Combinations of Any of the Foregoing Fibers and Materials, Said Flocked Goods Comprehending the Deposition or Distribution and Fixation of Finely Divided Particles or Fragmentary Material Upon a Surface, Usually, But Not Always, in the Form of a Pattern or Design Arrangement.  
Use since on or about Dec. 28, 1954.

SN 679,907. Archibald Holmes & Son, Philadelphia, Pa. Filed Jan. 14, 1955.

# Miralon

For Carpets and Rugs Including Pile Ones, of Cotton, Wool, and Synthetic Fibres.  
Use since Dec. 8, 1954.

SN 681,140. Cannon Mills Company, Kannapolis, N. C. Filed Feb. 7, 1955. Sec. 2(f).

# Featherlite

Applicant claims ownership of the mark shown in Reg. No. 322,256.  
For Sheets and Pillow Cases.  
Use since 1927.

SN 681,144. Draper Brothers Company, Canton, Mass. Filed Feb. 7, 1955.

# MARVELON

For Knitted and/or Woven Fabrics in the Piece Made of Acrylic Fibers Alone and/or in Combination With Silk, Rayon, Cotton, and Animal Fibers.  
Use since Sept. 25, 1954.

SN 681,181. J. B. Martin Company, New York, N. Y. Filed Feb. 7, 1955.

# COPELLA

For Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers.  
Use since 1935.

SN 681,182. J. B. Martin Company, New York, N. Y. Filed Feb. 7, 1955.

# GRISELDA

For Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers.  
Use since Mar. 4, 1935.

SN 681,183. J. B. Martin Company, New York, N. Y. Filed Feb. 7, 1955.

# LA BOHEME

For Velvet and Pile Fabrics in the Piece, Made of Silk, Wool, Cotton, and Synthetic Fibers.  
Use since May 24, 1940.

## CLASS 43

SN 667,892. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-LIN

For Thread and Yarn.  
Use since May 10, 1954.

## CLASS 44

SN 631,771. Air-Shields, Inc., Hatboro, Pa. Filed June 26, 1952.

# VAPOJETTE

For Humidifiers for Therapeutic Purposes.  
Use since May 1952.

SN 646,445. Walk-Easy Foot Rest Manufacturing Company, St. Louis, Mo. Filed May 4, 1953.

# Cushionaire

Applicant claims ownership of Reg. No. 302,586 (renewed).  
For Arch Supports and Components Therefor.  
Use since 1933.

SN 664,251. Nurse-A-Babee Products, Malden, Mass. Filed Apr. 9, 1954.

# nurse - a - babee

For a Nursing-Bottle Holder, Comprising an Insulating Pouch Adopted To Receive and Completely Enclose the Nursing Bottle, With a Slide Fastener on Said Pouch Which Allows the Folding Back of Said Pouch so That the Bottle Cap May Be Exposed, Together With a Strap Constructed and Arranged to Support the Holder at Varying Altitudes, Elevations, and Lateral Positions.  
Use since Aug. 20, 1953.

SN 667,979. Piper Brace Co., Kansas City, Mo. Filed June 9, 1954.

# RUPTURE-GARD

For Trusses.  
Use since on or about Nov. 5, 1953.

SN 668,029. The Gillette Company, d. b. a. The Toni Company, Boston, Mass. Filed June 10, 1954. Sec. 2(f).

# Silver Curl

Applicant claims ownership of Reg. No. 595,337.  
For Home Permanent Waving Kits Consisting of Cold Wave Waving Lotion and End Papers.  
Use since Dec. 18, 1952.



SN 668,366. Bard-Parker Company, Inc., Danbury, Conn. Filed June 17, 1954.

# B-P

For Dental, Medical, and Surgical Equipment—Namely, Detachable Dental and Surgical Knife Blades, Blade Holders, Instrument Containers, Forceps, X-Ray Attachments, Dermatomes and Accessory Parts, Surgical Scissors, Pipettes, and Hematological Sets.

Use since January 1916 on surgical blades.

SN 671,642. Hugo Gloeckler, New York, N. Y. Filed Aug. 13, 1954.



For Sanitary Panties.  
Use since on or about Dec. 15, 1953.

SN 674,507. George Frost Company, Shirley, Mass. Filed Oct. 8, 1954.

# DAWNY

For Athletic Supporters.  
Use since Mar. 23, 1953.

SN 674,894. The Kendall Company, Boston, Mass. Filed Oct. 15, 1954.

# Sernit

For Elastic Stockings.  
Use since Oct. 4, 1954.

SN 675,374. Ethicon, Inc., New Brunswick, N. J. Filed Oct. 25, 1954.

# ETHILON

Applicant claims ownership of Reg. Nos. 270,970, 599,432, and others.  
For Sutures and Ligatures.  
Use since Sept. 10, 1954.

SN 675,477. Henry L. Hoffmann, d. b. a. Lockomatic Mfg. Co., Minneapolis, Minn. Filed Oct. 26, 1954.

# LockOmatic

For Truss.  
Use since Apr. 15, 1952.

SN 680,358. E. D. Bullard Company, San Francisco, Calif. Filed Jan. 24, 1955.

# SHORT-CUTS

For Adhesive Bandages.  
Use since Dec. 1, 1954.

SN 680,509. Edgar W. Barksdale, d. b. a. Super-Dontic Manufacturing Co., Montezuma, Ga. Filed Jan. 26, 1955.

# Super-Dontic

For Dental Engine Pulleys and Engine Arms.  
Use since July 1, 1954.

SN 680,671. The Gillette Company, d. b. a. The Toni Company, Boston, Mass. Filed Jan. 28, 1955.

# Short Cut

For Home Permanent Waving Kits, Including Hair Waving Lotion, Bobby Pins, Hair Curlers, and Paper End Tissues.  
Use since Oct. 22, 1954.

## CLASS 45

SN 679,943. Joseph W. Simoneau, d. b. a. Lucky Strike Ginger Ale Company, Nashua, N. H. Filed Jan. 14, 1955.

# Slyng

For Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.  
Use since Jan. 5, 1955.

## CLASS 46

SN 638,660. Producers Creamery Company, Springfield, Mo. Filed Nov. 26, 1952.

# YUM

For Frozen Desserts Containing Milk, Cream, Sugar, Flavoring, and Gelatin.  
Use since Oct. 2, 1952.

SN 646,515. American Stores Company, Philadelphia, Pa. Filed May 6, 1953.

# Ideal



Applicant claims ownership of Reg. Nos. 50,065, 578,978, and others.  
For Tea, Food Flavoring Extracts, Gelatin Desserts, Spices, Marshmallow Creme.  
Use since Mar. 6, 1950.

SN 652,611. Fuhrer-Ford Milling Co., Mount Vernon, Ind. Filed Sept. 1, 1953. Sec. 2(f).

# PURE AN WHITE

For Plain and Self-Rising Wheat Flour.  
Use since Mar. 4, 1934.

SN 658,350. Turnbull Cone Baking Company, Chattanooga, Tenn. Filed Dec. 21, 1953.

# CUP-O-JOY

For Unfilled Ice Cream Cones and Unfilled Chili Cones.  
Use since 1947 on ice cream cones.

SN 659,995. Diamond Crystal Salt Co., St. Clair, Mich. Filed Jan. 25, 1954.

# weather-pruf

For Salt.  
Use since June 26, 1951.



For Salt.  
Use since June 26, 1951.

SN 666,487. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

# IMPERIAL

For Food Colors.  
Use since as early as January 1907.

SN 667,651. George C. Mathias and Jennie B. Mathias, d. b. a. Robin-Hood Nut Shoppes and Robin Hood Candy Company, Upper Darby, Pa. Filed June 3, 1954.

# Robin Hood

For Candy, Raw Nuts, Salted Nuts and Candy Coated Nuts.  
Use since in or about June 1930.

SN 670,123. Red Top Dairy Products, Inc., Vallejo, Calif., to Associated Independent Dairies of America, San Francisco, Calif. Filed July 16, 1954.

# Gingham Girl



For Pasteurized Milk, Cottage Cheese, Ice Cream, Butter-milk, Milk Containing Chocolate Flavor, Milk Containing Strawberry Flavor, Ice Milk, and Skim Milk.  
Use since Oct. 8, 1953.



SN 675,190. B. Westergaard & Co, Inc., d. b. a. B. Westergaard Co., Brooklyn, N. Y. Filed Oct. 20, 1954.



In Norwegian "Stabbur" means silo. Applicant claims ownership of the mark shown in expired Reg. No. 265,916. For Jams, Jellies, and Preserves. Use since February 1928.

## CLASS 47

SN 665,332. Zyma-Blaes A. G., Munchen, Germany. Filed Apr. 27, 1954.

**AFERRIN**

Applicant claims ownership of German Reg. No. 629,005, dated Sept. 24, 1952. For Wine Clarifier.

SN 668,885. Farbenfabriken Bayer Aktiengesellschaft, Leverkusen-Bayerwerk, Germany. Filed May 27, 1954.

**Sulfovin**

Applicant claims ownership of German Reg. No. 358,841, dated Nov. 2, 1926. For Preservative Agent for Wines.

## CLASS 49

SN 677,555. Destiladora Nacional, S. A., d. b. a. The Womack American Whiskey Co., Panama, Republic of Panama. Filed Dec. 1, 1954.

**AGEWOOD**

Applicant claims ownership of Reg. No. 314,028, expired. For Whiskey. Use since Mar. 9, 1934.

## CLASS 52

SN 648,638. Add-A-Life Brush and Cleaner Company, Long Beach, Calif. Filed June 12, 1953.

**ADD-A-LIFE**

For Paint Brush Cleaning Fluid. Use since Jan. 26, 1952.

SN 653,804. American Alcolac Corporation, Fairfield, Baltimore, Md. Filed Sept. 28, 1953.

**MY**

For Liquid and Pulverulent Detergents Sold in Bottles and in Packages for Dishwashing and Fine Laundering Purposes. Use since on or about Sept. 28, 1953.

SN 657,960. Neilson Chemical Company, Detroit, Mich. Filed Nov. 27, 1953.

**Metalprep**



Applicant claims ownership of Reg. No. 324,746. For Chemical Preparation Designed for Removing and Inhibiting Rust and Rust Producing Agents, Removing Oils and Greases, Etching Metals, and Otherwise Cleaning and Preparing Metals for Coating Materials Such as Paint and the Like. Use since October 1940.

SN 666,674. Lowell Laboratories, Inc., Manchester, N. H. Filed May 19, 1954.

**SPECs**

For Liquid Eye-Glass Cleaner. Use since Jan. 28, 1954.

SN 666,841. General Dyestuff Corporation, New York, N. Y., now by merger General Aniline & Film Corporation. Filed May 21, 1954.

**DRY-A-PON**

For Synthetic Chemical Products and Compositions Thereof Having Detergent, Wetting, Emulsifying, and Dispersing Properties. Use since Apr. 7, 1954.

SN 672,488. Bohme Fettechemie GMBH, Dusseldorf, Germany. Filed Aug. 31, 1954.

**FEWA**

Applicant claims ownership of German Reg. No. 224,046, May 13, 1918, and U. S. Reg. Nos. 303,348 and 305,892. For Soaps, Detergents and Bleaching Agents for Cleaning and Washing Purposes.

SN 678,544. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Dec. 17, 1954.

**budding beauty**

For Toilet Soap and Bath Soap. Use since on or about Aug. 18, 1954.

**GRIN**

Applicant claims ownership of Reg. No. 178,491. For Liquid Preparation for Cleaning and De-Greasing External Surfaces of All Types of Motors; and an Automobile Washing Compound. Use since Dec. 30, 1922.

## SERVICE MARKS

## CLASS 100

SN 623,302. Freezer Owners Association, Incorporated, New York, N. Y. Filed Jan. 8, 1952.



For Arranging for Members of the Organization To Purchase Certain Food Products From Sources Designated by Applicant, and Also for the Dissemination of Information to Members of the Organization Relating to the Ordering, Purchase, and Use of Frozen Foods, and To Dissemination to Members of the Organization Relating to Facts on Nutrition, Recipes, Menus. Use since December 1950.

SN 671,854. Theta Sigma Phi, Austin, Tex. Filed Aug. 17, 1954. COLLECTIVE MARK.

*Theta Sigma Phi*

For Organizing of Chapters in a National Honorary and Professional Fraternity for Women in Journalism, Maintaining Membership Therein, Furthering Civic and Educational Ideals Thereof, Maintaining Student and Alumnae Chapters Therein. Use since Apr. 8, 1909.

## CLASS 101

SN 669,694. Motorists' Discount Service of America, Inc., Poughkeepsie, N. Y. Filed July 9, 1954.



The words "Motorists' Discount Service of America Inc." are disclaimed apart from the mark.

## CLASS 103

SN 669,505. Sylvan Pools, Inc., Doylestown, Pa. Filed July 6, 1954.



For Construction, Maintenance and Repair of Swimming Pools, Testing Water of Swimming Pools, and Repair of Mechanical Equipment for Swimming Pools. Use since March 1952.

## CLASS 107

SN 678,784. Norman D. Harris, Wayland, Mass. Filed Dec. 22, 1954.

*Living Wonders*

For Entertainment Service by Television Broadcast Programs and Illustrated Lectures on Zoological Subjects and Specimens. Use since October 1949.



## TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

### CLASS 1

- 610,512. REPRESENTATION OF STEER'S HEAD WITH BRIAR WREATH. Barrett & Company, Inc. SN 662,707. Pub. 5-17-55. Filed 3-16-54.  
610,513. SHAMSKIN. Charles G. Davis, d. b. a. Davis Service Company. SN 671,311. Pub. 5-10-55. Filed 8-9-54.  
610,514. (See Class 37 for this trademark.)

### CLASS 2

- 610,515. STAK-TIER. Hart Metal Products Corporation. SN 652,941. Pub. 5-10-55. Filed 9-9-53.  
610,516. FLICK AND DESIGN. Frank Micelche. SN 659,001. Pub. 5-17-55. Filed 1-5-54.  
610,517. FULTON FUL-KROP. Fulton Bag & Cotton Mills. SN 660,988. Pub. 5-10-55. Filed 2-8-54.  
610,518. WIRE TAINER AND INANIMATE DESIGN. Springport Steel Products, Co. SN 661,297. Pub. 5-10-55. Filed 2-18-54.  
610,519. JOLLY JUG. The Hamilton Metal Products Co. SN 662,003. Pub. 5-17-55. Filed 3-4-54.  
610,520. FEATHER FLITE. Polaron Products, Inc. SN 663,118. Pub. 5-10-55. Filed 3-23-54.

### CLASS 3

- 610,521. JEAN K. Jean Kolker. SN 660,873. Pub. 5-17-55. Filed 2-10-54.  
610,522. LYCEUM LUGGAGE. L. & C. Mayers Co., Incorporated. SN 665,618. Pub. 5-24-55. Filed 5-3-54.  
610,523. HANDEE-SIXES. Philip Florin, Inc. SN 673,276. Pub. 5-24-55. Filed 9-16-54.  
610,524. TWEET AND DESIGN (BIRD). House of Huston, Inc. SN 675,795. Pub. 5-17-55. Filed 11-1-54.

### CLASS 6

- 610,525. TAP MAGIC. V. Edward Smith, d. b. a. Smith Tool & Engineering Co. SN 652,301. Pub. 5-3-55. Filed 8-25-53.  
610,526. MYCOTOX. Hazel Cutler. SN 652,653. Pub. 5-3-55. Filed 9-2-53.  
610,527. EMKA. Emkay Chemical Company. SN 657,122. Pub. 5-3-55. Filed 11-30-53.  
610,528. REXO. Emkay Chemical Company. SN 657,123. Pub. 5-3-55. Filed 11-30-53.

### CLASS 7

- 610,529. REPRESENTATION OF A PIECE OF WIRE ROPE OR CABLE. Paulsen-Webber Cordage Corporation. SN 650,639. Pub. 5-25-54. Filed 7-22-53.

### CLASS 8

- 610,530. ZIG ZAG AND DESIGN. Braunstein Freres, Incorporated. SN 645,385. Pub. 5-17-55. Filed 4-16-53.

### CLASS 11

- 610,531. PLASTIKOTE. C. O. Monk of Maryland, Inc. SN 655,681. Pub. 5-24-55. Filed 11-2-53.

### CLASS 12

- 610,532. RIPPLE-CORE HOLLOW CORE PANELS AND DESIGN. Coru-Ply Corporation. SN 654,866. Pub. 2-8-55. Filed 10-15-53.  
610,533. DESIGN-RED COLOR ON FACE OF STUD. Cheney Lumber Company, Inc. SN 662,605. Pub. 6-7-55. Filed 3-15-54.

### CLASS 13

- 610,534. ROTARY UNION. Perfecting Service Company. SN 627,772. Pub. 4-26-55. Filed 4-8-52.

- 610,535. AIR SCOOP. Taco Heaters, Incorporated. SN 637,011. Pub. 5-17-55. Filed 10-22-52.  
610,536. ROCK-A-CRIB. Die Engineering Co. SN 639,874. Pub. 4-26-55. Filed 12-22-52.  
610,537. P-G AND DESIGN. P and G Supply Company, Inc. now by change of name P-G Products Mfg., Inc. SN 643,555. Pub. 9-15-53. Filed 3-12-53.  
610,538. ZURN SYSTEM. J. A. Zurn Mfg. Co. SN 648,071. Pub. 4-26-55. Filed 6-1-53.  
610,539. SHELFMAKER. Philip L. Du Boff, d. b. a. Du Boff and Company. SN 648,379. Pub. 5-10-55. Filed 6-8-53.  
610,540. DENISON MULTI-RANGE. The Denison Engineering Company. SN 648,846. Pub. 5-10-55. Filed 6-16-53.  
610,541. LS. Ludlow-Saylor Wire Cloth Company. SN 657,049. Pub. 8-17-54. Filed 11-27-53.  
610,542. TECHNOCHECK VALVE. Fred D. Mosher, d. b. a. Techno Company. SN 662,663. Pub. 5-10-55. Filed 3-15-54.  
610,543. WHETHA-TUBE. Wheatland Tube Company. SN 663,239. Pub. 5-3-55. Filed 3-24-54.

- 610,544. ATCOMETER. Automatic Temperature Control Co., Inc. SN 664,391. Pub. 5-3-55. Filed 4-13-54.  
610,545. FAIRFIELD. The Autoyre Company. SN 664,647. Pub. 5-3-55. Filed 4-16-54.  
610,546. POW'RGRIIP. Allmetal Screw Products Company, Inc. SN 670,083. Pub. 5-3-55. Filed 7-16-54.  
610,547. PANELINK AND DESIGN (REPRESENTATION OF A LINK ON PANEL). Panelink Fence Company. SN 670,227. Pub. 5-3-55. Filed 7-19-54.  
610,548. BUMPER CROP. Oaks Irrigation Manufacturing Company. SN 670,964. Pub. 4-26-55. Filed 8-2-54.

- 610,549. "PERMA-SEALED." Melnor Metal Products Co. Inc. SN 671,259. Pub. 4-26-55. Filed 8-6-54.  
610,550. SPACE-KLIPS. Reflector-Hardware Corporation. SN 673,130. Pub. 5-10-55. Filed 9-13-54.  
610,551. A SUPERMATIC. National Pneumatic Company, Inc. SN 673,192. Pub. 5-10-55. Filed 9-14-54.  
610,552. ECLIPSE. John C. Kupferle Foundry Company. SN 675,214. Pub. 4-26-55. Filed 10-21-54.  
610,553. WIG-O-FLEX. E. B. Wiggins Oil Tool Company, Inc. SN 675,339. Pub. 5-3-55. Filed 10-22-54.  
610,554. BLUE BOY AND DESIGN (REPRESENTATION OF A HUMAN MALE). Owen C. Cripe, d. b. a. Cripe Electric & Machine Company. SN 675,545. Pub. 5-10-55. Filed 10-27-54.

- 610,555. LONE STAR STEEL CO. (DESIGN OF STAR). Lone Star Steel Company. SN 675,807. Pub. 5-10-55. Filed 11-1-54.

- 610,556. ROLLPIN. Elastic Stop Nut Corporation of America. SN 675,978. Pub. 5-10-55. Filed 11-3-54.  
610,557. VERSATUBE. Calumet & Hecla, Inc. SN 676,177. Pub. 5-10-55. Filed 11-8-54.  
610,558. DESIGN OF SCREEN WITH WHITE BORDER. Chickopee Mills, Inc. SN 679,026. Pub. 4-26-55. Filed 1-10-55.

### CLASS 14

- 610,559. D (WITHIN REPRESENTATION OF AN ANVIL). Jos Dyson & Sons, Inc. SN 642,955. Pub. 5-17-55. Filed 3-2-53.  
610,560. VR. Vascoloy-Ramet Corporation. SN 653,658. Pub. 5-17-55. Filed 9-23-53.

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- 610,561. NOKORODE. The M. W. Dunton Company. SN 673,654. Pub. 5-10-55. Filed 9-23-54.  
610,562. TURRETOP. Hanson-Van Winkle-Munning Company. SN 673,916. Pub. 5-17-55. Filed 9-28-54.  
610,563. VMC IN CIRCLE DESIGN. Vacuum Metals Corp. SN 674,022. Pub. 5-17-55. Filed 9-29-54.  
610,564. GUNITE. Gunite Foundries Corporation. SN 674,512. Pub. 5-17-55. Filed 10-8-54.  
610,565. PSW PRECISION AND DESIGN. Precision Steel Warehouse, Inc. SN 676,757. Pub. 5-17-55. Filed 11-16-54.

- 610,566. PNA. The Plume & Atwood Manufacturing Company. SN 677,601. Pub. 5-17-55. Filed 12-1-54.

### CLASS 15

- 610,567. RICHWAX. Richfield Oil Corporation. SN 672,688. Pub. 5-17-55. Filed 9-2-54.  
610,568. EASTERN GAS AND FUEL ASSOCIATES ETC. AND DESIGN. Eastern Gas and Fuel Associates. SN 675,975. Pub. 5-17-55. Filed 11-3-54.  
610,569. AVON ANNALOS. Tide Water Associated Oil Company. SN 676,246. Pub. 5-17-55. Filed 11-8-54.  
610,570. AVON ACROMA. Tide Water Associated Oil Company. SN 676,247. Pub. 5-17-55. Filed 11-8-54.  
610,571. PARAFILINT. Moore & Munger. SN 676,744. Pub. 5-24-55. Filed 11-16-54.  
610,572. THAT GOOD GULF GASOLINE AND DESIGN. Gulf Oil Corporation. SN 676,960. Pub. 5-24-55. Filed 11-19-54.  
610,573. GULF AND DESIGN. Gulf Oil Corporation. SN 676,971. Pub. 5-24-55. Filed 11-19-54.  
610,574. GULF. Gulf Oil Corporation. SN 676,972. Pub. 5-24-55. Filed 11-19-54.

### CLASS 17

- 610,575. COUNTESS ETC. AND DESIGN. Nicholas J. Tweel. SN 654,364. Pub. 5-17-55. Filed 10-27-53.  
610,576. JOSÉ MELENDI. Joseph Melendi, d. b. a. José Melendi. SN 671,171. Pub. 5-17-55. Filed 8-5-54.

### CLASS 18

- 610,577. SORUNEX. Mathieson Chemical Corporation, now by merger and change of name Olin Mathieson Chemical Corporation. SN 653,580. Pub. 4-19-55. Filed 9-22-53.

### CLASS 19

- 610,578. RANGER. Prior Products, Inc. SN 658,138. Pub. 11-30-54. Filed 12-17-53.

### CLASS 21

- 610,579. V BEAM AND DESIGN. Duro-Test Corporation. SN 631,549. Pub. 7-6-54. Filed 6-21-52.  
610,580. MAGNESOUND. Victor Animatograph Corporation. SN 653,335. Pub. 5-10-55. Filed 9-17-53.  
610,581. STEAMARVEL. Louis Levine. SN 654,466. Pub. 5-10-55. Filed 10-9-53.  
610,582. FINCOR. Fidelity Instrument Corporation. SN 657,822. Pub. 5-10-55. Filed 12-11-53.  
610,583. DUO-FEED. The Hobart Manufacturing Company. SN 659,145. Pub. 5-17-55. Filed 1-7-54.  
610,584. MELODY MIKE. Audio Equipment Company, Inc. SN 659,522. Pub. 5-10-55. Filed 1-15-54.  
610,585. BIRTCHEE, KOOL KLAMP. The Birtcher Corporation. SN 660,701. Pub. 5-17-55. Filed 2-8-54.  
610,586. POWERCHARGER. Fox Products Company. SN 661,073. Pub. 5-17-55. Filed 2-15-54.  
610,587. SOLAR. Solar Manufacturing Corporation. SN 661,158. Pub. 5-17-55. Filed 2-16-54.  
610,588. MASTIFF. Constantine A. Morgillo. SN 662,328. Pub. 5-10-55. Filed 3-9-54.

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- 610,589. SILVER KNIGHT. Thompson and Sons, Inc. SN 665,320. Pub. 5-17-55. Filed 4-27-54.  
610,590. BAKE-O-MATIC. Peerless Electric, Inc. SN 665,371. Pub. 5-3-55. Filed 4-28-54.  
610,591. TRANS-A-MOUNT AND DESIGN. Westinghouse Electric Corporation. SN 666,409. Pub. 5-10-55. Filed 5-14-54.

- 610,592. TRANSOCKET AND DESIGN. Westinghouse Electric Corporation. SN 666,410. Pub. 5-10-55. Filed 5-14-54.

- 610,593. REKAIR. Martin-Parry Corporation. SN 669,274. Pub. 5-17-55. Filed 7-1-54.

- 610,594. PERMAPLAST. The Richardson Company. SN 669,701. Pub. 5-17-55. Filed 7-9-54.

- 610,595. R. Retron Manufacturing Co., Inc. SN 670,009. Pub. 5-10-55. Filed 7-14-54.

- 610,596. ELECTROVECTOR AND DESIGN. Electrovector Inc. SN 670,472. Pub. 5-17-55. Filed 7-23-54.

- 610,597. EVANITE. Evans Products Company. SN 673,656. Pub. 5-10-55. Filed 9-23-54.

- 610,598. SONOBOND. Aeroprojects Incorporated. SN 673,889. Pub. 5-17-55. Filed 9-28-54.

- 610,599. MOTOR MASTER AND DESIGN (REPRESENTATION OF A FLAG). Motor Master Products Corp. SN 674,901. Pub. 5-17-55. Filed 10-15-54.

- 610,600. BOWL-CALL. Maurice L. Goldstein, d. b. a. Atlas Sound Systems. SN 676,048. Pub. 5-17-55. Filed 11-4-54.

- 610,601. CAPTAIN TV AND DESIGN. Medal Manufacturing Company. SN 676,124. Pub. 5-17-55. Filed 11-5-54.

- 610,602. NELEX. Nelson Electric Manufacturing Company. SN 677,277. Pub. 5-17-55. Filed 11-24-54.

- 610,603. POWERSTRIP. Bulldog Electric Products Co. SN 677,863. Pub. 5-17-55. Filed 12-7-54.

- 610,604. CAC AND DESIGN. Communications Accessories Company. SN 678,437. Pub. 5-17-55. Filed 12-16-54.

- 610,605. DURALEX. The Firestone Tire & Rubber Company. SN 678,446. Pub. 5-17-55. Filed 12-16-54.

- 610,606. C-E-Z. Verd-A-Ray Corporation. SN 678,755. Pub. 5-17-55. Filed 12-21-54.

### CLASS 23

- 610,607. "ROCKET." Klekhaefer Corporation. SN 565,940. Pub. 11-27-51. Filed 9-27-48.

- 610,608. B.C. Club Razor & Blade Manufacturing Corp. SN 597,251. Pub. 11-2-54. Filed 5-11-50.

- 610,609. GRAY VOICERASER. The Gray Manufacturing Company. SN 605,158. Pub. 9-8-53. Filed 10-19-50.

- 610,610. TAYPAX. Earl Lorne Taylor. SN 636,154. Pub. 5-17-55. Filed 10-3-52.

- 610,611. DISHMAID. Dishmaid, Inc. SN 642,270. Pub. 5-24-55. Filed 2-16-53.

- 610,612. ROYAL MASTER. Royal Master Metal Products Company. SN 645,672. Pub. 5-17-55. Filed 4-21-53.

- 610,613. HYDRAQUIP. Hydraquip Corporation. SN 645,990. Pub. 5-17-55. Filed 4-27-53.

- 610,614. IMPCO AND DESIGN. Industrial Metal Products Corporation. SN 647,355. Pub. 5-24-55. Filed 5-20-53.

- 610,615. PACKETTE. Continental Motors Corporation. SN 648,002. Pub. 5-24-55. Filed 6-1-53.

- 610,616. BOOKMATE. Arthur G. Croninger, d. b. a. The Bookmate Company. SN 656,386. Pub. 5-24-55. Filed 11-16-53.

- 610,617. VELVET LAWN. Johnston Lawn Mower Corporation. SN 656,422. Pub. 5-17-55. Filed 11-16-53.

- 610,618. QUAKER MULE AND DESIGN. Earl L. Grate, d. b. a. Grate Machine Company. SN 658,845. Pub. 5-17-55. Filed 12-31-53.



- 610,619. MECCO AND DESIGN. M. E. Cunningham Company. SN 662,609. Pub. 5-17-55. Filed 3-15-54.
- 610,620. MECCO SAFETY AND DESIGN. M. E. Cunningham Company. SN 662,610. Pub. 5-17-55. Filed 3-15-54.
- 610,621. CHOPIE. Frank Stephan Chopieska, d. b. a. Chopie Tool and Die Co. SN 663,441. Pub. 5-17-55. Filed 3-29-54.
- 610,622. VACUFLOW AND DESIGN. Pneumatic Scale Corporation, Limited. SN 663,945. Pub. 5-24-55. Filed 4-5-54.
- 610,623. PNEUMACAP AND DESIGN. Pneumatic Scale Corporation, Limited. SN 663,946. Pub. 5-24-55. Filed 4-5-54.
- 610,624. BUZZ'S 4 IN 1 HANDY YARD TOOL AND DESIGN. Ralph H. Hogan. SN 666,358. Pub. 5-17-55. Filed 5-14-54.
- 610,625. POK-A-HOL AND DESIGN. Atlanta Tool Company. SN 667,491. Pub. 5-17-55. Filed 6-2-54.
- 610,626. HAIL QUEEN. Clawson Machine Company. SN 668,636. Pub. 5-17-55. Filed 6-22-54.
- 610,627. VEDETTE UNIC. Fabrique l'Essor. SN 670,041. Pub. 5-24-55. Filed 7-15-54.
- 610,628. ELECTRABRASIVE. Abrasive Machine Tool Company. SN 670,821. Pub. 5-24-55. Filed 7-30-54.
- 610,629. "WOODY TOOLE." Edw. L. Sibley Mfg. Co., Inc. SN 671,206. Pub. 5-24-55. Filed 8-5-54.
- 610,630. REPRESENTATION OF A GROTESQUE MAN. Edw. L. Sibley Mfg. Co., Inc. SN 671,207. Pub. 5-24-55. Filed 8-5-54.
- 610,631. OREGON-IZE. Oregon Saw Chain Corp. SN 671,661. Pub. 5-24-55. Filed 8-13-54.
- 610,632. G ILL AND DESIGN. Illinois Gear & Machine Company. SN 671,898. Pub. 5-24-55. Filed 8-18-54.
- 610,633. HKP WITHIN OVAL. H. K. Porter, Inc. SN 671,910. Pub. 5-17-55. Filed 8-18-54.
- 610,634. GISMO. American Zinc, Lead and Smelting Company. SN 671,975. Pub. 5-24-55. Filed 8-20-54.
- 610,635. EL RANCHO. Chas. D. Briddell, Inc. SN 672,628. Pub. 5-24-55. Filed 9-2-54.
- 610,636. FLOWVEYOR. Mechanical Handling Systems, Inc. SN 672,678. Pub. 5-24-55. Filed 9-2-54.
- 610,637. MAGNALINER. Mark Wexler, d. b. a. The Deblisteve Company. SN 672,709. Pub. 5-24-55. Filed 9-2-54.
- 610,638. AUTO VORTEX AND DESIGN. Charles E. Wood, d. b. a. Charles E. Wood Company. SN 672,858. Pub. 5-24-55. Filed 9-7-54.
- 610,639. SURFORM. Firth Brown Tools Limited. SN 672,887. Pub. 5-17-55. Filed 9-8-54.
- 610,640. KORNER KING. RCS Tool Sales Corporation. SN 672,978. Pub. 5-24-55. Filed 9-9-54.
- 610,641. McK STURDYBILT AND DESIGN. The John A. McKay Manufacturing Co., Inc. SN 673,241. Pub. 5-24-55. Filed 9-15-54.
- 610,642. NEWARK. Niles-Bement-Pond Company. SN 673,379. Pub. 5-24-55. Filed 9-17-54.
- 610,643. THOMSON AND DESIGN. Thomson Machine Company, now by merger Wallace & Tiernan Incorporated. SN 673,552. Pub. 5-24-55. Filed 9-21-54.
- 610,644. VORTI. Infalco Incorporated. SN 673,830. Pub. 5-24-55. Filed 9-27-54.
- 610,645. TATUM (WITHIN OVAL DESIGN). Wilson Jones Company. SN 673,958. Pub. 5-24-55. Filed 9-28-54.
- 610,646. ELECTRO-CYCLE. The Warner & Swasey Company. SN 674,025. Pub. 5-24-55. Filed 9-29-54.
- 610,647. NYLOMAT. Emilian Bobkiewicz Reg'd. SN 674,131. Pub. 5-17-55. Filed 10-1-54.
- 610,648. TAPER-LOCK. Dodge Manufacturing Corporation. SN 674,142. Pub. 5-17-55. Filed 10-1-54.
- 610,649. UNICASTER. Uniloy Corporation. SN 674,303. Pub. 5-17-55. Filed 10-4-54.
- 610,650. DUMP O Matic AND DESIGN. National Lift Company. SN 674,411. Pub. 5-17-55. Filed 10-6-54.
- 610,651. 3D ROTO-VUER. Ster-E-O, Inc. SN 649,967. Pub. 5-17-55. Filed 7-7-53.
- 610,652. 3D TRU-MOUNT. Ster-E-O, Inc. SN 649,968. Pub. 5-17-55. Filed 7-7-53.
- 610,653. PANORAMASCOPE. Perkins Theatre Supply Co. Inc. SN 652,625. Pub. 5-17-55. Filed 9-1-53.
- 610,654. ROBERTSON. Robertson Photo-Mechanix, Inc. SN 655,087. Pub. 5-17-55. Filed 10-20-53.
- 610,655. DINOBLUELINE. The Di-Noc Company. SN 662,521. Pub. 5-17-55. Filed 3-12-54.
- 610,656. DINOLITH. The Di-Noc Company. SN 662,522. Pub. 5-17-55. Filed 3-12-54.
- 610,657. DINOPLEX. The Di-Noc Company. SN 662,523. Pub. 5-17-55. Filed 3-12-54.
- 610,658. TWINPOT. Bourns Laboratories, Inc. SN 663,427. Pub. 5-17-55. Filed 3-29-54.
- 610,659. ATCO. American Thermo-Ware Company. SN 666,713. Pub. 4-5-55. Filed 5-20-54.
- 610,660. ARGUS AND DESIGN (REPRESENTATION OF A TRIANGLE). Argus Cameras, Inc. SN 667,072. Pub. 5-17-55. Filed 5-26-54.
- 610,661. DYNACOLOR. Dynacolor Corporation. SN 673,270. Pub. 5-17-55. Filed 9-16-54.
- 610,662. KENDENT. The Torsion Balance Company. SN 673,313. Pub. 5-17-55. Filed 9-16-54.
- 610,663. KENTRALL. The Torsion Balance Company. SN 673,314. Pub. 5-17-55. Filed 9-16-54.
- 610,664. TRILCO FILMS T AND CIRCLE DESIGN. Margaret Trillas, d. b. a. Trilco Films. SN 673,631. Pub. 5-17-55. Filed 9-22-54.
- 610,665. MAGNA-WELD. Industrial Optical Company. SN 673,745. Pub. 5-17-55. Filed 9-24-54.
- 610,666. SIERRA SAM. Sierra Engineering Co. SN 674,289. Pub. 5-17-55. Filed 10-4-54.
- 610,667. SUPER SNIFFER. Nuclear Instrument and Chemical Corporation. SN 674,995. Pub. 5-17-55. Filed 10-18-54.
- 610,668. DOALL AND DESIGN (GLOBE). The DoAll Company. SN 675,371. Pub. 5-31-55. Filed 10-25-54.
- CLASS 27**
- 610,669. NIVARA. Nevada S. A. SN 653,989. Pub. 5-17-55. Filed 9-30-53.
- 610,670. DUETTE. Suter Watch Factory Inc. SN 661,043. Pub. 5-17-55. Filed 2-12-54.
- 610,671. BELFORTE. Benrus Watch Company, Inc. SN 673,003. Pub. 5-17-55. Filed 9-10-54.
- 610,672. SEITZ. Pierre Seitz. SN 673,871. Pub. 5-17-55. Filed 9-27-54.
- 610,673. TRADITION. Sears, Roebuck and Co. SN 673,943. Pub. 5-17-55. Filed 9-28-54.
- CLASS 28**
- 610,674. IMPERIAL CROWN. Goldstein-Gerson Co. SN 642,031. Pub. 5-17-55. Filed 2-10-53.
- 610,675. AM LEE. Am Lee Jewelry Company, Inc. SN 673,420. Pub. 5-17-55. Filed 9-20-54.
- CLASS 29**
- 610,676. FLOAT-A-BOAT. Johnson & Johnson. SN 640,740. Pub. 5-17-55. Filed 1-14-53.
- 610,677. SNO BUG AND DESIGN. Marvel Plastic Products. SN 673,363. Pub. 4-26-55. Filed 9-17-54.
- 610,678. QUALITY +. Stanley Home Products, Inc. SN 674,037. Pub. 5-17-55. Filed 9-13-54.
- CLASS 30**
- 610,679. GROTESQUE FIGURE OF ARTIST AT WORK (PAINTING). Shenango Pottery Company. SN 673,779. Pub. 5-17-55. Filed 9-24-54.
- CLASS 31**
- 610,680. WORTHINGTON. Worthington Corporation. SN 659,962. Pub. 5-10-55. Filed 1-22-54.
- 610,681. WORTHINGTON AND DESIGN. Worthington Corporation. SN 659,964. Pub. 5-10-55. Filed 1-22-54.
- 610,682. CEL. Dole Refrigerating Company. SN 661,987. Pub. 5-17-55. Filed 3-4-54.

## CLASS 32

- 610,683. NUKRAFT. Nukraft Manufacturing Co., Inc. SN 632,795. Pub. 5-17-55. Filed 7-19-52.
- 610,684. PRIDE KITCHENS. K. & C. Metal Products Co., Inc. SN 654,219. Pub. 5-17-55. Filed 10-5-53.
- 610,685. NOTATUFT BY LUKENS. Lukens Manufacturing Co. SN 655,254. Pub. 5-17-55. Filed 10-23-53.
- 610,686. TOY MART. Alvin T. Fleishman. SN 656,890. Pub. 5-17-55. Filed 11-24-53.
- 610,687. GODDESS OF SLEEP, ETC. AND DESIGN. Duplex Products Company, Incorporated, d. b. a. The Duplex Product Company and Duplex Products Corporation. SN 666,007. Pub. 5-17-55. Filed 5-10-54.
- 610,688. HAPPY HOME FILE AND DESIGN (TWO REPRESENTATIONS OF HUMAN MALES, ETC.). D. H. Lawson. SN 671,165. Pub. 5-17-55. Filed 8-5-54.
- 610,689. ART-FULL. William Geoffrey, d. b. a. The Art-Full Picture Frame Co. SN 672,890. Pub. 5-17-55. Filed 9-8-54.
- 610,690. FEN-PAK. The Fenn Manufacturing Company. SN 673,170. Pub. 5-17-55. Filed 9-14-54.

## CLASS 33

- 610,691. PRISM CRYSTAL BY LANCASTER. The Lancaster Lens Company. SN 641,847. Pub. 5-17-55. Filed 2-8-53.
- 610,692. CHROME-CRYSTAL AND DESIGN. Gilley, Inc. SN 642,029. Pub. 5-17-55. Filed 2-10-53.
- 610,693. YALACTA. René Pierre Marie Savary. SN 658,749. Pub. 5-17-55. Filed 12-29-53.

## CLASS 34

- 610,694. CHUCK RANGE. Texarkana Casket Company. SN 641,992. Pub. 5-17-55. Filed 2-9-53.
- 610,695. HI-RATE. General Water Heater Corporation. SN 655,309. Pub. 5-17-55. Filed 10-26-53.
- 610,696. FOGTOBAC. Bright Leaf Industries, Inc. SN 661,774. Pub. 5-17-55. Filed 3-1-54.
- 610,697. J-JACKSON AND DESIGN. W. L. Jackson Manufacturing Company, Inc. SN 669,555. Pub. 5-17-55. Filed 7-7-54.
- 610,698. DUALZONE. Sterling Air Conditioning Corporation. SN 672,457. Pub. 5-10-55. Filed 8-30-54.
- 610,699. KENMORE. Sears, Roebuck & Co. SN 672,538. Pub. 5-17-55. Filed 8-31-54.
- 610,700. BILTWEEL. Fraser & Johnston Co. SN 672,812. Pub. 5-17-55. Filed 9-7-54.
- 610,701. DETROIT JEWEL. Detroit-Michigan Stove Company, now by merger, consolidation and change of name to Weibull Corporation. SN 674,231. Pub. 5-10-55. Filed 10-4-54.
- 610,702. ROTO-SPIT. Arthur Rowley, d. b. a. Rowley Tool & Engineering Co. SN 674,477. Pub. 5-17-55. Filed 10-7-54.

## CLASS 36

- 610,703. HENRI SELMER AND DESIGN (A WREATH). H. & A. Selmer Inc. SN 665,865. Pub. 4-5-55. Filed 5-6-54.
- 610,704. L'ORGANOLA. M. Hohner, Inc. SN 669,333. Pub. 5-17-55. Filed 7-2-54.
- 610,705. LEARNING IS FUN! AND DESIGN (SEAL). Capitol Records, Inc. SN 670,540. Pub. 5-10-55. Filed 7-26-54.

## CLASS 37

- 610,514. DUBBLE DELITE. Fruit Products Corporation. SN 627,437. Pub. 10-28-52. Filed 4-2-52.
- 610,706. DUCKY DUBBLE. Fruit Products Corporation. SN 629,564. Pub. 11-25-52. Filed 5-12-52.
- 610,707. ERVING SNOW-SOFT. Erving Paper Mills. SN 639,322. Pub. 5-17-55. Filed 12-11-52.
- 610,708. MEGA-CHART. Kay Electric Company. SN 646,877. Pub. 5-17-55. Filed 5-12-53.
- 610,709. REPRESENTATION OF CARICATURE OF MAN IN CIRCLE. Scott Paper Company. SN 655,160. Pub. 4-12-55. Filed 10-21-53.

- 610,710. AEEO AND DESIGN. Atlanta Envelope Company. SN 655,451. Pub. 8-10-54. Filed 10-28-53.
- 610,711. FOR DISTINGUISHED SERVICE ON EVERY FRONT AND DESIGN. David Kahn, Inc. SN 658,531. Pub. 5-17-55. Filed 12-24-53.
- 610,712. DUPLICOPLES. E. C. Kinney Printing Co. SN 663,197. Pub. 5-17-55. Filed 3-24-54.
- 610,713. TWO VARICOLOR DISCS LINED FOR ORANGE, YELLOW, BLUE, AND GREEN. Eberhard Faber Pencil Company. SN 666,927. Pub. 5-17-55. Filed 5-24-54.
- 610,714. THE MIDWEEK CALL TO WORSHIP. Master Sunday Bulletin Club. SN 672,520. Pub. 5-17-55. Filed 8-31-54.
- 610,715. LONE STAR BOND AND DESIGN (REPRESENTATION OF MAP OF TEXAS STATE). Olmsted-Kirk Company. SN 674,761. Pub. 5-17-55. Filed 10-13-54.
- 610,716. REPRESENTATION OF A SCHOONER. Hudson Pulp & Paper Corporation. SN 675,479. Pub. 5-17-55. Filed 10-26-54.
- 610,717. FLAIR. Hudson Pulp & Paper Corporation. SN 675,480. Pub. 5-17-55. Filed 10-26-54.
- 610,718. EXECUTIVE. S. H. Kress and Company. SN 675,489. Pub. 5-17-55. Filed 10-26-54.

## CLASS 38

- 610,719. SMS AND DESIGN. Donohue Directories, Inc. SN 647,169. Pub. 5-17-55. Filed 5-18-53.
- 610,720. DOUBLE THRIFT, ETC. AND DESIGN. U. S. Robinson, d. b. a. Double-Thrift Stamp Co. SN 660,176. Pub. 5-17-55. Filed 1-27-54.
- 610,721. THE CAROLINA FARMER. The Tarheel Electric Membership Association, Incorporated. SN 674,537. Pub. 5-17-55. Filed 10-8-54.

## CLASS 39

- 610,722. CAMPUS TRED. Belk's Buying Service, Incorporated. SN 556,531. Pub. 5-23-50. Filed 5-8-48.
- 610,723. REPRESENTATION OF LIGHTNING FLASH. E. D. Bullard Company. SN 631,462. Pub. 5-17-55. Filed 6-20-52.
- 610,724. HONEY TOGS. Honea, Inc. SN 643,685. Pub. 3-23-54. Filed 3-16-53.
- 610,725. LANCERGAB. Jack Schultz, Inc. SN 656,665. Pub. 5-17-55. Filed 11-19-53.
- 610,726. SEA-ESTA. Theodore R. Upland, d. b. a. Ted Upland Associates of California. SN 656,868. Pub. 5-17-55. Filed 11-23-53.
- 610,727. MERE-LAN. Cluett, Peabody & Co., Inc. SN 660,113. Pub. 5-17-55. Filed 1-26-54.
- 610,728. BUSYPOCKETS. Midge Grant, to Midge Grant, Inc. SN 662,729. Pub. 12-7-54. Filed 3-16-54.
- 610,729. MINIMUM WEIGHT MAXIMUM COMFORT G AND DESIGN. Gordon Clothes, Inc. SN 666,660. Pub. 5-17-55. Filed 5-19-54.
- 610,730. MODA GRANDE. Spurgeon Hosiery Corporation. SN 666,878. Pub. 5-17-55. Filed 5-21-54.
- 610,731. BULLSEYE BILL AND DESIGN. The Phoenix Manufacturing Company. SN 668,118. Pub. 5-17-55. Filed 6-11-54.
- 610,732. LIFE O'WEAR. Leiter Mfg. Corp. SN 669,618. Pub. 5-17-55. Filed 7-8-54.
- 610,733. LA MUNECA NEW YORK. Charles E. Bar, d. b. a. Latin American Trading Co. SN 669,728. Pub. 5-17-55. Filed 7-12-54.
- 610,734. SWEET DAYS-EES. Empire Shield Co., Incorporated. SN 670,186. Pub. 5-17-55. Filed 7-19-54.
- 610,735. PENDLETON TURNABOUT. Pendleton Woolen Mills. SN 670,850. Pub. 5-17-55. Filed 7-30-54.
- 610,736. CAPE CLOUD. The Londontown Manufacturing Company. SN 671,903. Pub. 5-17-55. Filed 8-18-54.
- 610,737. DYLAN. Stevensons Dyers Limited. SN 672,698. Pub. 5-17-55. Filed 9-2-54.
- 610,738. JUNGLE GOATSKIN. The Miller Shoe Company. SN 673,369. Pub. 5-17-55. Filed 9-17-54.
- 610,739. HONEYBARE. Neumode Hosiery Co. SN 673,376. Pub. 5-17-55. Filed 9-17-54.



- 610,619. MECCO AND DESIGN. M. E. Cunningham Company. SN 662,609. Pub. 5-17-55. Filed 3-15-54.
- 610,620. MECCO SAFETY AND DESIGN. M. E. Cunningham Company. SN 662,610. Pub. 5-17-55. Filed 3-15-54.
- 610,621. CHOPIE. Frank Stephan Chopleska, d. b. a. Chopie Tool and Die Co. SN 663,441. Pub. 5-17-55. Filed 3-29-54.
- 610,622. VACUFLOW AND DESIGN. Pneumatic Scale Corporation, Limited. SN 663,945. Pub. 5-24-55. Filed 4-5-54.
- 610,623. PNEUMACAP AND DESIGN. Pneumatic Scale Corporation, Limited. SN 663,946. Pub. 5-24-55. Filed 4-5-54.
- 610,624. BUZZ'S 4 IN 1 HANDY YARD TOOL AND DESIGN. Ralph H. Hogan. SN 666,358. Pub. 5-17-55. Filed 5-14-54.
- 610,625. POK-A-HOL AND DESIGN. Atlanta Tool Company. SN 667,491. Pub. 5-17-55. Filed 6-2-54.
- 610,626. HAIL QUEEN. Clawson Machine Company. SN 668,636. Pub. 5-17-55. Filed 6-22-54.
- 610,627. VEDETTE UNIC. Fabrique l'Essor. SN 670,041. Pub. 5-24-55. Filed 7-15-54.
- 610,628. ELECTRABRASIVE. Abrasive Machine Tool Company. SN 670,821. Pub. 5-24-55. Filed 7-30-54.
- 610,629. "WOODY TOOLE." Edw. L. Sibley Mfg. Co., Inc. SN 671,206. Pub. 5-24-55. Filed 8-5-54.
- 610,630. REPRESENTATION OF A GROTESQUE MAN. Edw. L. Sibley Mfg. Co., Inc. SN 671,207. Pub. 5-24-55. Filed 8-5-54.
- 610,631. OREGON-IZE. Oregon Saw Chain Corp. SN 671,661. Pub. 5-24-55. Filed 8-13-54.
- 610,632. G ILL AND DESIGN. Illinois Gear & Machine Company. SN 671,898. Pub. 5-24-55. Filed 8-18-54.
- 610,633. HKP WITHIN OVAL. H. K. Porter, Inc. SN 671,910. Pub. 5-17-55. Filed 8-18-54.
- 610,634. GISMO. American Zinc, Lead and Smelting Company. SN 671,975. Pub. 5-24-55. Filed 8-20-54.
- 610,635. EL RANCHO. Chas. D. Briddell, Inc. SN 672,628. Pub. 5-24-55. Filed 9-2-54.
- 610,636. FLOWVEYOR. Mechanical Handling Systems, Inc. SN 672,678. Pub. 5-24-55. Filed 9-2-54.
- 610,637. MAGNALINER. Mark Wexler, d. b. a. The Debistev Company. SN 672,709. Pub. 5-24-55. Filed 9-2-54.
- 610,638. AUTO VORTEX AND DESIGN. Charles E. Wood, d. b. a. Charles E. Wood Company. SN 672,858. Pub. 5-24-55. Filed 9-7-54.
- 610,639. SURFORM. Firth Brown Tools Limited. SN 672,887. Pub. 5-17-55. Filed 9-8-54.
- 610,640. KORNER KING. RCS Tool Sales Corporation. SN 672,978. Pub. 5-24-55. Filed 9-9-54.
- 610,641. McK STURDYBILT AND DESIGN. The John A. McKay Manufacturing Co., Inc. SN 673,241. Pub. 5-24-55. Filed 9-15-54.
- 610,642. NEWARK. Niles-Bement-Pond Company. SN 673,379. Pub. 5-24-55. Filed 9-17-54.
- 610,643. THOMSON AND DESIGN. Thomson Machine Company, now by merger Wallace & Tiernan Incorporated. SN 673,552. Pub. 5-24-55. Filed 9-21-54.
- 610,644. VORTI. Inflico Incorporated. SN 673,830. Pub. 5-24-55. Filed 9-27-54.
- 610,645. TATUM (WITHIN OVAL DESIGN). Wilson Jones Company. SN 673,958. Pub. 5-24-55. Filed 9-28-54.
- 610,646. ELECTRO-CYCLE. The Warner & Swasey Company. SN 674,025. Pub. 5-24-55. Filed 9-29-54.
- 610,647. NYLOMAT. Emilian Bobkiewicz Reg'd. SN 674,181. Pub. 5-17-55. Filed 10-1-54.
- 610,648. TAPER-LOCK. Dodge Manufacturing Corporation. SN 674,142. Pub. 5-17-55. Filed 10-1-54.
- 610,649. UNICASTER. Uniloy Corporation. SN 674,303. Pub. 5-17-55. Filed 10-4-54.
- 610,650. DUMP O MATIC AND DESIGN. National Lift Company. SN 674,411. Pub. 5-17-55. Filed 10-6-54.

## CLASS 26

- 610,651. 3D ROTO-VUER. Ster-E-O, Inc. SN 649,967. Pub. 5-17-55. Filed 7-7-53.

- 610,652. 3D TRU-MOUNT. Ster-E-O, Inc. SN 649,968. Pub. 5-17-55. Filed 7-7-53.
- 610,653. PANORAMASCOPE. Perkins Theatre Supply Co. Inc. SN 652,625. Pub. 5-17-55. Filed 9-1-53.
- 610,654. ROBERTSON. Robertson Photo-Mechanix, Inc. SN 655,087. Pub. 5-17-55. Filed 10-20-53.
- 610,655. DINOBLUENINE. The Di-Noc Company. SN 662,521. Pub. 5-17-55. Filed 3-12-54.
- 610,656. DINOLITH. The Di-Noc Company. SN 662,522. Pub. 5-17-55. Filed 3-12-54.
- 610,657. DINOPLEX. The Di-Noc Company. SN 662,523. Pub. 5-17-55. Filed 3-12-54.
- 610,658. TWINPOT. Bourns Laboratories, Inc. SN 663,427. Pub. 5-17-55. Filed 3-29-54.
- 610,659. ATCO. American Thermo-Ware Company. SN 666,713. Pub. 4-5-55. Filed 5-20-54.
- 610,660. ARGUS AND DESIGN (REPRESENTATION OF A TRIANGLE). Argus Cameras, Inc. SN 667,072. Pub. 5-17-55. Filed 5-26-54.
- 610,661. DYNACOLOR. Dynacolor Corporation. SN 673,270. Pub. 5-17-55. Filed 9-16-54.
- 610,662. KENDENT. The Torsion Balance Company. SN 673,313. Pub. 5-17-55. Filed 9-16-54.
- 610,663. KENTRALL. The Torsion Balance Company. SN 673,314. Pub. 5-17-55. Filed 9-16-54.
- 610,664. TRILCO FILMS T AND CIRCLE DESIGN. Margaret Trillas, d. b. a. Trilco Films. SN 673,631. Pub. 5-17-55. Filed 9-22-54.
- 610,665. MAGNA-WELD. Industrial Optical Company. SN 673,745. Pub. 5-17-55. Filed 9-24-54.
- 610,666. SIERRA SAM. Sierra Engineering Co. SN 674,289. Pub. 5-17-55. Filed 10-4-54.
- 610,667. SUPER SNIFFER. Nuclear Instrument and Chemical Corporation. SN 674,995. Pub. 5-17-55. Filed 10-18-54.
- 610,668. DOALL AND DESIGN (GLOBE). The DoAll Company. SN 675,371. Pub. 5-31-55. Filed 10-25-54.

## CLASS 27

- 610,669. NIVARA. Nevada S. A. SN 653,989. Pub. 5-17-55. Filed 9-30-53.
- 610,670. DUETTE. Suter Watch Factory Inc. SN 661,043. Pub. 5-17-55. Filed 2-12-54.
- 610,671. BELFORTE. Benrus Watch Company, Inc. SN 673,003. Pub. 5-17-55. Filed 9-10-54.
- 610,672. SEITZ. Pierre Seitz. SN 673,871. Pub. 5-17-55. Filed 9-27-54.
- 610,673. TRADITION. Sears, Roebuck and Co. SN 673,943. Pub. 5-17-55. Filed 9-28-54.

## CLASS 28

- 610,674. IMPERIAL CROWN. Goldstein-Gerson Co. SN 642,031. Pub. 5-17-55. Filed 2-10-53.
- 610,675. AM LEE. Am Lee Jewelry Company, Inc. SN 673,420. Pub. 5-17-55. Filed 9-20-54.

## CLASS 29

- 610,676. FLOAT-A-BOAT. Johnson & Johnson. SN 640,740. Pub. 5-17-55. Filed 1-14-53.
- 610,677. SNO RUG AND DESIGN. Marvel Plastic Products. SN 673,363. Pub. 4-26-55. Filed 9-17-54.
- 610,678. QUALITY +. Stanley Home Products, Inc. SN 674,037. Pub. 5-17-55. Filed 9-13-54.

## CLASS 30

- 610,679. GROTESQUE FIGURE OF ARTIST AT WORK (PAINTING). Shenango Pottery Company. SN 673,779. Pub. 5-17-55. Filed 9-24-54.

## CLASS 31

- 610,680. WORTHINGTON. Worthington Corporation. SN 659,962. Pub. 5-10-55. Filed 1-22-54.
- 610,681. WORTHINGTON AND DESIGN. Worthington Corporation. SN 659,964. Pub. 5-10-55. Filed 1-22-54.
- 610,682. CEL. Dole Refrigerating Company. SN 661,987. Pub. 5-17-55. Filed 3-4-54.

## CLASS 32

- 610,683. NUKRAFT. Nukraft Manufacturing Co., Inc. SN 632,795. Pub. 5-17-55. Filed 7-19-52.
- 610,684. PRIDE KITCHENS. K. & C. Metal Products Co., Inc. SN 654,219. Pub. 5-17-55. Filed 10-5-53.
- 610,685. NOTATUFT BY LUKENS. Lukens Manufacturing Co. SN 655,254. Pub. 5-17-55. Filed 10-23-53.
- 610,686. TOY MART. Alvin T. Fleishman. SN 656,890. Pub. 5-17-55. Filed 11-24-53.
- 610,687. GODDESS OF SLEEP, ETC. AND DESIGN. Duplex Products Company, Incorporated, d. b. a. The Duplex Product Company and Duplex Products Corporation. SN 666,007. Pub. 5-17-55. Filed 5-10-54.
- 610,688. HAPPY HOME FILE AND DESIGN (TWO REPRESENTATIONS OF HUMAN MALES, ETC.). D. H. Lawson. SN 671,165. Pub. 5-17-55. Filed 8-5-54.
- 610,689. ART-FULL. William Geoffrey, d. b. a. The Art-Full Picture Frame Co. SN 672,890. Pub. 5-17-55. Filed 9-8-54.
- 610,690. FEN-PAK. The Fenn Manufacturing Company. SN 673,170. Pub. 5-17-55. Filed 9-14-54.

## CLASS 33

- 610,691. PRISM CRYSTAL BY LANCASTER. The Lancaster Lens Company. SN 641,847. Pub. 5-17-55. Filed 2-6-53.
- 610,692. CHROME-CRYSTAL AND DESIGN. Gilley, Inc. SN 642,029. Pub. 5-17-55. Filed 2-10-53.
- 610,693. YALACTA. René Pierre Marie Savary. SN 658,749. Pub. 5-17-55. Filed 12-29-53.

## CLASS 34

- 610,694. CHUCK RANGE. Texarkana Casket Company. SN 641,992. Pub. 5-17-55. Filed 2-9-53.
- 610,695. HI-RATE. General Water Heater Corporation. SN 655,309. Pub. 5-17-55. Filed 10-26-53.
- 610,696. FOGTOBAC. Bright Leaf Industries, Inc. SN 661,774. Pub. 5-17-55. Filed 3-1-54.
- 610,697. J-JACKSON AND DESIGN. W. L. Jackson Manufacturing Company, Inc. SN 669,555. Pub. 5-17-55. Filed 7-7-54.
- 610,698. DUALZONE. Sterling Air Conditioning Corporation. SN 672,457. Pub. 5-10-55. Filed 8-30-54.
- 610,699. KENMORE. Sears, Roebuck & Co. SN 672,538. Pub. 5-17-55. Filed 8-31-54.
- 610,700. BILTWEEL. Fraser & Johnston Co. SN 672,812. Pub. 5-17-55. Filed 9-7-54.
- 610,701. DETROIT JEWEL. Detroit-Michigan Stove Company, now by merger, consolidation and change of name to Welbilt Corporation. SN 674,231. Pub. 5-10-55. Filed 10-4-54.
- 610,702. ROTO-SPIT. Arthur Rowley, d. b. a. Rowley Tool & Engineering Co. SN 674,477. Pub. 5-17-55. Filed 10-7-54.

## CLASS 36

- 610,703. HENRI SELMER AND DESIGN (A WREATH). H. & A. Selmer Inc. SN 665,865. Pub. 4-5-55. Filed 5-6-54.
- 610,704. L'ORGANOLA. M. Hohner, Inc. SN 669,333. Pub. 5-17-55. Filed 7-2-54.
- 610,705. LEARNING IS FUN! AND DESIGN (SEAL). Capitol Records, Inc. SN 670,540. Pub. 5-10-55. Filed 7-26-54.

## CLASS 37

- 610,514. DUBBLE DELITE. Fruit Products Corporation. SN 627,437. Pub. 10-28-52. Filed 4-2-52.
- 610,706. DUCKY DUBBLE. Fruit Products Corporation. SN 629,564. Pub. 11-25-52. Filed 5-12-52.
- 610,707. ERVING SNOW-SOFT. Erving Paper Mills. SN 639,322. Pub. 5-17-55. Filed 12-11-52.
- 610,708. MEGA-CHART. Kay Electric Company. SN 646,877. Pub. 5-17-55. Filed 5-12-53.
- 610,709. REPRESENTATION OF CARICATURE OF MAN IN CIRCLE. Scott Paper Company. SN 655,160. Pub. 4-12-55. Filed 10-21-53.

- 610,710. AEEO AND DESIGN. Atlanta Envelope Company. SN 655,451. Pub. 8-10-54. Filed 10-28-53.
- 610,711. FOR DISTINGUISHED SERVICE ON EVERY FRONT AND DESIGN. David Kahn, Inc. SN 658,531. Pub. 5-17-55. Filed 12-24-53.
- 610,712. DUPLICOPLES. E. C. Kinney Printing Co. SN 663,197. Pub. 5-17-55. Filed 3-24-54.
- 610,713. TWO VARICOLOR DISCS LINED FOR ORANGE, YELLOW, BLUE, AND GREEN. Eberhard Faber Pencil Company. SN 666,927. Pub. 5-17-55. Filed 5-24-54.
- 610,714. THE MIDWEEK CALL TO WORSHIP. Master Sunday Bulletin Club. SN 672,520. Pub. 5-17-55. Filed 8-31-54.
- 610,715. LONE STAR BOND AND DESIGN (REPRESENTATION OF MAP OF TEXAS STATE). Olmsted-Kirk Company. SN 674,761. Pub. 5-17-55. Filed 10-13-54.
- 610,716. REPRESENTATION OF A SCHOONER. Hudson Pulp & Paper Corporation. SN 675,479. Pub. 5-17-55. Filed 10-26-54.
- 610,717. FLAIR. Hudson Pulp & Paper Corporation. SN 675,480. Pub. 5-17-55. Filed 10-26-54.
- 610,718. EXECUTIVE. S. H. Kress and Company. SN 675,489. Pub. 5-17-55. Filed 10-26-54.

## CLASS 38

- 610,719. SMS AND DESIGN. Donohue Directories, Inc. SN 647,169. Pub. 5-17-55. Filed 5-18-53.
- 610,720. DOUBLE THRIFT, ETC. AND DESIGN. U. S. Robinson, d. b. a. Double-Thrift Stamp Co. SN 660,176. Pub. 5-17-55. Filed 1-27-54.
- 610,721. THE CAROLINA FARMER. The Tarheel Electric Membership Association, Incorporated. SN 674,537. Pub. 5-17-55. Filed 10-8-54.

## CLASS 39

- 610,722. CAMPUS TRED. Belk's Buying Service, Incorporated. SN 556,531. Pub. 5-23-50. Filed 5-8-48.
- 610,723. REPRESENTATION OF LIGHTNING FLASH. E. D. Bullard Company. SN 631,462. Pub. 5-17-55. Filed 6-20-52.
- 610,724. HONEY TOGS. Honea, Inc. SN 643,685. Pub. 3-23-54. Filed 3-16-53.
- 610,725. LANCERGAB. Jack Schultz, Inc. SN 656,665. Pub. 5-17-55. Filed 11-19-53.
- 610,726. SEA-ESTA. Theodore R. Upland, d. b. a. Ted Upland Associates of California. SN 656,868. Pub. 5-17-55. Filed 11-23-53.
- 610,727. MERE-LAN. Cluett, Peabody & Co., Inc. SN 660,113. Pub. 5-17-55. Filed 1-26-54.
- 610,728. BUSYPOCKETS. Midge Grant, to Midge Grant, Inc. SN 662,729. Pub. 12-7-54. Filed 3-16-54.
- 610,729. MINIMUM WEIGHT MAXIMUM COMFORT G AND DESIGN. Gordon Clothes, Inc. SN 666,660. Pub. 5-17-55. Filed 5-19-54.
- 610,730. MODA GRANDE. Spurgeon Hosiery Corporation. SN 666,878. Pub. 5-17-55. Filed 5-21-54.
- 610,731. BULLSEYE BILL AND DESIGN. The Phoenix Manufacturing Company. SN 668,118. Pub. 5-17-55. Filed 6-11-54.
- 610,732. LIFE O'WEAR. Lefter Mfg. Corp. SN 669,618. Pub. 5-17-55. Filed 7-8-54.
- 610,733. LA MUNECA NEW YORK. Charles E. Bar, d. b. a. Latin American Trading Co. SN 669,728. Pub. 5-17-55. Filed 7-12-54.
- 610,734. SWEET DAYS-EES. Empire Shield Co., Incorporated. SN 670,186. Pub. 5-17-55. Filed 7-19-54.
- 610,735. PENDLETON TURNABOUT. Pendleton Woolen Mills. SN 670,850. Pub. 5-17-55. Filed 7-30-54.
- 610,736. CAPE CLOUD. The Londontown Manufacturing Company. SN 671,903. Pub. 5-17-55. Filed 8-18-54.
- 610,737. DYLAN. Stevensons Dyers Limited. SN 672,698. Pub. 5-17-55. Filed 9-2-54.
- 610,738. JUNGLE GOATSKIN. The Miller Shoe Company. SN 673,369. Pub. 5-17-55. Filed 9-17-54.
- 610,739. HONEYBARE. Neumode Hosiery Co. SN 673,376. Pub. 5-17-55. Filed 9-17-54.



- 610,740. NEULIFE. Neumode Hosiery Co. SN 673,377. Pub. 5-17-55. Filed 9-17-54.
- 610,741. NURON-FLEX. American Biltrite Rubber Co., Inc. now by merger American Biltrite Rubber Co., Inc. SN 673,714. Pub. 5-17-55. Filed 9-24-54.
- 610,742. PUTTER. Sears, Roebuck and Co. SN 673,944. Pub. 5-17-55. Filed 9-28-54.
- 610,743. MASCULON. Full Knit Hosiery Mills Inc. SN 673,978. Pub. 5-17-55. Filed 9-29-54.
- 610,744. PRINCE GEORGE. Full-Knit Hosiery Mills, Inc. SN 673,979. Pub. 5-17-55. Filed 9-29-54.
- 610,745. NEO-SUPREME. Gro-Cord Rubber Co. SN 673,985. Pub. 5-17-55. Filed 9-29-54.
- 610,746. SKYRIDER. General Shoe Corporation. SN 674,065. Pub. 5-17-55. Filed 9-30-54.
- 610,747. FESTIVAL. Hat Corporation of America. SN 674,074. Pub. 5-10-55. Filed 9-30-54.
- 610,748. YORKSHIRE AND DESIGN (WREATH). Shoe Corporation of America. SN 674,192. Pub. 5-17-55. Filed 10-1-54.
- 610,749. AYRLYTE AND DESIGN. Ayrlyte Corporation. SN 674,215. Pub. 5-17-55. Filed 10-4-54.
- 610,750. POCKET-LINE. Sol Tamny Co., Inc. SN 674,297. Pub. 5-17-55. Filed 10-4-54.
- 610,751. CITY CRAFT. City Stores Company. SN 674,448. Pub. 5-17-55. Filed 10-7-54.
- 610,752. JAYMERO. Hoosier Factories, Inc. SN 674,463. Pub. 5-17-55. Filed 10-7-54.
- 610,753. TRIP COAT (FANCIFUL). Lester Udell, Inc. SN 674,481. Pub. 5-17-55. Filed 10-7-54.
- 610,754. AMETHYST. Amethyst Hosiery Mills, Inc. SN 674,551. Pub. 5-17-55. Filed 10-11-54.
- 610,755. WONDERFLEX. Manchester Hosiery Mills. SN 674,601. Pub. 5-17-55. Filed 10-11-54.
- 610,756. PERFECTONE. Perfect Plus Hosiery Mills, Inc. SN 674,617. Pub. 5-17-55. Filed 10-11-54.
- 610,757. FLEX LITE. J. Schoeneman, Inc. SN 674,851. Pub. 5-17-55. Filed 10-14-54.
- 610,758. BUCK SKEIN BRAND. Lustberg, Nast & Co., Inc. SN 674,897. Pub. 5-17-55. Filed 10-15-54.
- 610,759. BROOKSCLOTH. Brooks Brothers, Inc. SN 674,931. Pub. 5-17-55. Filed 10-18-54.
- 610,760. CHEER LEADER. Neisner Brothers, Inc. SN 674,992. Pub. 5-17-55. Filed 10-18-54.
- 610,761. STERNIN. Sternin Hosiery Company. SN 675,236. Pub. 5-17-55. Filed 10-21-54.
- 610,762. ROYAL CADET AND DESIGN. Chris Laganas Shoe Co. SN 675,291. Pub. 5-17-55. Filed 10-22-54.
- 610,763. MONTRICO. Monterey Undergarment Co., Inc. SN 676,217. Pub. 5-17-55. Filed 11-8-54.
- 610,764. DIABRA. Sidallis Inc. SN 676,238. Pub. 5-17-55. Filed 11-8-54.
- 610,765. PIGALLE. Lady Marlene Brassiere Corp. SN 676,640. Pub. 5-17-55. Filed 11-15-54.
- 610,766. CRYSTALETTE. David Crystal, Inc. SN 676,790. Pub. 5-17-55. Filed 11-17-54.
- 610,767. BURNT GRASS. Corbin, Ltd. SN 677,141. Pub. 5-17-55. Filed 11-23-54.
- 610,768. HUNTLY. Dalton of America, Inc. SN 677,302. Pub. 5-17-55. Filed 11-26-54.
- 610,769. J'ADORE. Surprise Brassiere Co., Inc. SN 677,367. Pub. 5-17-55. Filed 11-26-54.
- 610,770. RUN-A-ROUN'. Beaunit Mills, Inc. SN 677,478. Pub. 5-17-55. Filed 11-30-54.
- 610,771. BRYNWOOD. Joseph Brody & Bros., Inc. SN 677,548. Pub. 5-17-55. Filed 12-1-54.
- 610,772. KITCHENAID. The Hobart Manufacturing Company. SN 677,787. Pub. 5-17-55. Filed 12-6-54.
- 610,773. PAK'N GO. Star-Maid Dresses, Inc. SN 677,820. Pub. 5-17-55. Filed 12-6-54.

## CLASS 40

- 610,774. EASYPLEAT. Kirsch Company. SN 655,787. Pub. 5-3-55. Filed 11-3-53.

## CLASS 42

- 610,775. CARACUL. Alexander Smith, Incorporated. SN 659,827. Pub. 5-17-55. Filed 1-20-54.
- 610,776. CYANOCOTTON. American Cyanamid Company. SN 665,086. Pub. 5-17-55. Filed 4-23-54.
- 610,777. BROWN BAND WOVEN INTO THE CLOTH. Tobler, Ernst & Traber, Inc. SN 666,229. Pub. 5-17-55. Filed 5-12-54.
- 610,778. YELLOW BAND WOVEN INTO THE CLOTH. Tobler, Ernst & Traber, Inc. SN 666,230. Pub. 5-17-55. Filed 5-12-54.
- 610,779. PURPLE BAND WOVEN INTO THE CLOTH. Tobler, Ernst & Traber, Inc. SN 666,231. Pub. 5-17-55. Filed 5-12-54.
- 610,780. CYANOCEL. American Cyanamid Company. SN 666,250. Pub. 5-17-55. Filed 5-13-54.
- 610,781. ERWIN QUALITY FABRICS AND DESIGN. Erwin Mills, Inc. SN 666,932. Pub. 5-17-55. Filed 5-24-54.
- 610,782. RUSTICWEAVE. D. B. Fuller & Co., Inc. SN 667,621. Pub. 5-17-55. Filed 6-3-54.
- 610,783. FROSTSHEEN. Desley Fabrics, Division of J. H. Thorp & Co., Inc. SN 667,936. Pub. 5-17-55. Filed 6-9-54.
- 610,784. TEXOBESTOS. United States Rubber Company. SN 669,056. Pub. 5-17-55. Filed 6-28-54.
- 610,785. COLORAMA. Triboro Quilt Mfg. Corp. SN 674,021. Pub. 5-17-55. Filed 9-29-54.
- 610,786. MATS BY MOLLY. Molly S. Stern. SN 674,106. Pub. 5-17-55. Filed 9-30-54.
- 610,787. MOLLY MATS. Molly S. Stern. SN 674,107. Pub. 5-17-55. Filed 9-30-54.
- 610,788. FIRMELUR. United Merchants and Manufacturers, Inc. SN 674,428. Pub. 5-17-55. Filed 10-6-54.

## CLASS 43

- 610,789. CYANOCOTTON. American Cyanamid Company. SN 665,087. Pub. 5-17-55. Filed 4-23-54.

## CLASS 44

- 610,790. THE MAGIC EYE OF CHIROPRACTIC AND DESIGN. George N. Adelman, d. b. a. The Visual Nerve Tracing Instrument Company of America. SN 655,735. Pub. 5-10-55. Filed 11-3-53.
- 610,791. "POLY-BULB." Insemit Company, Inc. SN 659,862. Pub. 5-10-55. Filed 1-21-54.
- 610,792. TRACTOLATOR. Tractolator Corporation, Inc. SN 665,250. Pub. 5-10-55. Filed 4-26-54.

## CLASS 45

- 610,793. PURE SPRING. Pure Spring Company Limited. SN 633,216. Pub. 5-17-55. Filed 7-29-52.
- 610,794. IT'S THE TOP ETON AND DESIGN (REPRESENTATION OF A HAT). V. & E. Kohnstamm, Inc. SN 665,712. Pub. 5-17-55. Filed 5-4-54.

## CLASS 46

- 610,795. VELVET FREEZE. Velvet Freeze, Inc. SN 618,438. Pub. 11-24-53. Filed 9-4-51.
- 610,796. JO-DANDY BRAND AND DESIGN. L. J. Leavitt, d. b. a. L. J. Leavitt Produce Company. SN 639,942. Pub. 5-17-55. Filed 12-23-52.
- 610,797. CUBBY OF BEAR CREEK ORCHARDS AND BEAR CUB'S HEAD. Harry and David. SN 647,003. Pub. 5-17-55. Filed 5-14-53.
- 610,798. RITONI. Paul Schilling. SN 654,001. Pub. 5-17-55. Filed 9-30-53.
- 610,799. SLOTS SENAP, ETC. AND DESIGN. Aktiebolaget Upsala Attikfabrik. SN 661,862. Pub. 5-17-55. Filed 3-2-54.
- 610,800. ROYAL ELM. Elm Sales Company, Inc. SN 665,584. Pub. 11-16-54. Filed 5-3-54.
- 610,801. LIL' LULU AND DESIGN (REPRESENTATION OF HUMAN FEMALE ON A WAGON). The Morrison Milling Co. SN 672,239. Pub. 5-17-55. Filed 8-25-54.

- 610,802. NO NICER. Arizona Citrus Growers. SN 675,353. Pub. 5-10-55. Filed 10-25-54.
- 610,803. RITE-SWEET. Arizona Citrus Growers. SN 675,354. Pub. 5-10-55. Filed 10-25-54.
- 610,804. RUSHMORE. Harry L. Noland and Virgil T. Norris, trustees of the estate of Reuben Walter Farley (deceased), d. b. a. Farley Fruit Company. SN 675,375. Pub. 5-10-55. Filed 10-25-54.
- 610,805. PURCO. Realemon-Puritan Co. SN 675,432. Pub. 5-10-55. Filed 10-25-54.
- 610,806. VELVET SMACKS. H. L. Hildreth Company. SN 675,564. Pub. 5-10-55. Filed 10-27-54.
- 610,807. TIMMY-BOY AND DESIGN (REPRESENTATION OF A SHAMROCK). Albert J. Quance. SN 675,657. Pub. 5-10-55. Filed 10-28-54.
- 610,808. GOLDEN CITY. Gene Jennings and Company. SN 675,782. Pub. 5-10-55. Filed 11-1-54.
- 610,809. TAKOMA. Omaha Cold Storage Company, d. b. a. Bellevue Creamery and Produce Company. SN 676,071. Pub. 5-10-55. Filed 11-4-54.
- 610,810. REPRESENTATION OF A HUMAN MALE CHEF. Thomas J. Lipton, Inc. SN 676,381. Pub. 5-10-55. Filed 11-10-54.

## CLASS 47

- 610,811. BLAC-BREE. John Gross and Company. SN 670,573. Pub. 5-17-55. Filed 7-26-54.

## CLASS 49

- 610,812. AVERY'S. Averys of Bristol Limited, also d. b. a. Avery & Co. SN 589,416. Pub. 5-17-55. Filed 12-16-49.

## CLASS 50

- 610,813. RIPPLETAN. Philadelphia Textile Finishers, Inc. SN 623,905. Pub. 5-17-55. Filed 1-22-52.
- 610,814. MAFLEX AND DESIGN. The Malloran Corporation. SN 636,084. Pub. 5-10-55. Filed 10-2-52.
- 610,815. RADIUM. N. V. Bataafsche Rubber Industrie. SN 652,881. Pub. 5-10-55. Filed 9-8-53.
- 610,816. TRU-TU-LIFE. Advertising Displays, Inc. SN 653,051. Pub. 5-17-55. Filed 9-11-53.
- 610,817. TEXLITE. Texlite, Inc. SN 653,786. Pub. 5-10-55. Filed 9-25-53.
- 610,818. TEXLITE AND DESIGN. Texlite, Inc. SN 653,787. Pub. 5-10-55. Filed 9-25-53.
- 610,819. ANNIE OAKLEY. Annie Oakley Enterprises, Inc. SN 670,221. Pub. 5-17-55. Filed 7-19-54.
- 610,820. EAG-L-LINE AND DESIGN (REPRESENTATION OF AN EAGLE). General Aluminum Products Company. SN 672,409. Pub. 5-17-55. Filed 8-30-54.

## CLASS 51

- 610,821. MODERN MAGIC. Frank P. Mitten. SN 672,524. Pub. 5-10-55. Filed 8-31-54.
- 610,822. TRU-TONE. Helene Curtis Industries, Inc. SN 618,535. Pub. 5-10-55. Filed 9-8-51.
- 610,823. ROSAMOND. Superior Laboratories Inc. SN 666,606. Pub. 5-10-55. Filed 5-18-54.
- 610,824. NATURELESQUE. Newbro Manufacturing Company, d. b. a. Newbro Co. SN 670,606. Pub. 5-10-55. Filed 7-26-54.
- 610,825. CHRISTMAS IN JULY. Bourjois, Inc. SN 671,625. Pub. 5-10-55. Filed 8-13-54.
- 610,826. TALENT. Linbarb, Ltd. SN 672,159. Pub. 5-10-55. Filed 8-24-54.
- 610,827. SECRET KEY. Max Factor & Co. SN 672,677. Pub. 5-10-55. Filed 9-2-54.
- 610,828. BAHAMA TAN. Monroe F. Dreher. SN 672,875. Pub. 5-10-55. Filed 9-8-54.
- 610,829. NO-TIME AND DESIGN. Mil-Hi Laboratories, Inc., d. b. a. Minit-Dri. SN 673,287. Pub. 5-10-55. Filed 9-16-54.

## CLASS 52

- 610,830. SPOTLIGHT. The Cudahy Packing Company. SN 558,369. Pub. 9-13-49. Filed 6-3-48.
- 610,831. CORONET. The Mennen Company. SN 646,075. Pub. 9-21-54. Filed 4-28-53.
- 610,832. BURN-RITE. Orlin A. Wolverton, d. b. a. Burn-Rite Chemical Service. SN 655,504. Pub. 5-17-55. Filed 10-28-53.
- 610,833. SUF-OUT. Suf-Out Mfg. Co. SN 660,757. Pub. 5-10-55. Filed 2-8-54.
- 610,834. ELECTROLINE AND DESIGN. Arthur Bing. SN 661,116. Pub. 5-17-55. Filed 2-12-54.
- 610,835. FASWASH. Bowers Printing Ink Company. SN 666,622. Pub. 5-10-55. Filed 5-19-54.
- 610,836. DURISOL. American Chemical Paint Company. SN 670,822. Pub. 5-17-55. Filed 7-30-54.
- 610,837. EMBA-KLEEN AND DESIGN. Salvatore J. Di Tucci, d. b. a. Embassy Rug and Upholstery Cleaning Company. SN 672,332. Pub. 5-17-55. Filed 8-27-54.
- 610,838. DABBLE. Lucy Mae Terry. SN 674,538. Pub. 5-17-55. Filed 10-8-54.

## CLASS 101

## Service Mark

- 610,839. "FUN WITH CHARADES." Popular Brands, Inc. SN 660,610. Pub. 5-17-55. Filed 2-4-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 1

- 610,840. The Geo. A. Shepard & Sons Co., Bethel, Conn. SN 670,812. Filed P. R. 7-29-54. Am. S. R. 6-15-55.

## CLASS 3

- 610,841. American Luggage Works, Inc., d. b. a. American Tourister, West Warwick, R. I. SN 659,918. Filed P. R. 1-22-54. Am. S. R. 6-24-55.



For Leather.  
Use since June 9, 1954.

**TRI-TAPER**

For Luggage—Namely, Ladies' Weekend and Overnight Cases, Wardrobe Cases and Pullman Cases; Men's Weekend Cases and One-Suiters and Two-Suiters.  
Use since Aug. 18, 1952.



610,842. Trina, Inc., Providence, R. I. SN 666,146. Filed P. R. 5-11-54. Am. S. R. 12-1-54. 610,848. Arthur G. Diack, Los Angeles, Calif. SN 670,468. Filed P. R. 7-23-54. Am. S. R. 6-6-55.

# TRINA

For Travel Kits, Cosmetic Kits, and Beach Bags.  
Use since Jan. 3, 1950.

610,843. U. S. Handbag Corporation, New York, N. Y. SN 677,188. Filed P. R. 11-23-54. Am. S. R. 6-13-55.

# COUTURIER

For Ladies' and Misses' Handbags.  
Use since July 17, 1939.

## CLASS 12

610,844. Tennison Brothers, Incorporated, Memphis, Tenn. SN 668,873. Filed 6-24-54.

# DRIP CAP

For Window Flashing.  
Use since Feb. 4, 1952.

## CLASS 13

610,845. Southwest Steel Rolling Mills, Los Angeles, Calif. SN 652,236. Filed P. R. 8-24-53. Am. S. R. 5-27-55.

# "GREEN TOP"

For Studded T Steel Fence Posts; Self-Fastener Angle Steel Fence Posts; Punched Angle Steel Fence Posts; Corner Posts; and End or Gate Posts.  
Use since Aug. 4, 1953.

610,846. Earl Stewart, Penwell, Tex. SN 662,899. Filed P. R. 3-18-54. Am. S. R. 12-31-54.

# Shur-Gide

For Mechanical Flush Control for Toilets.  
Use since on or about Sept. 1, 1953.

610,847. General Machine & Welding Works, Inc., Pomona, Calif. SN 667,876. Filed P. R. 6-8-54. Am. S. R. 5-23-55.

# Miller

ANNUAL CONTACT  
**BALL BEARING SWIVELS**

For Swivels.  
Use since Apr. 15, 1954.

# FULL-X-TEND

For Drawer Slides.  
Use since Nov. 25, 1953.

610,849. Key Corporation of America, Belleville, N. J. SN 675,703. Filed P. R. 10-29-54. Am. S. R. 6-8-55.

# KEY<sup>RE</sup>TRACT

For Key Holders.  
Use since Mar. 10, 1954.

## CLASS 21

610,850. Davies Supply & Manufacturing Co., St. Louis, Mo. SN 657,766. Filed 12-10-53.

# Davies

For Electroplating Apparatus and Parts—Namely, Plating Machines, Loading Stands, Tank Units, Cathode Rod Agitators, Tubing, Pipes, Fittings, Rods, Sheets and Racks.  
Use since May 7, 1952.

610,851. General Ozone Corporation, Chicago, Ill. SN 676,800. Filed 11-17-54.

# Air Clear

For Electrical Ozone Generating Machines.  
Use since June 7, 1946.

## CLASS 23

610,852. Samuel F. Kennedy, d. b. a. Tri-County Manufacturing Co., Taylorville, Ill. SN 662,869. Filed P. R. 3-18-54. Am. S. R. 6-9-55.

# POWER SCOOP

For Auger Type Portable Grain Conveyor.  
Use since on or about Dec. 15, 1952.

610,853. Robert C. Johnson, Jr., d. b. a. Johnson Manufacturing Co., Lubbock, Tex. SN 667,536. Filed P. R. 6-2-54. Am. S. R. 12-1-54.

# Ditch-Rite

For Irrigation Ditching Machines.  
Use since May 1, 1950.

## CLASS 31

610,854. The Associated Merchandising Corporation, New York, N. Y. SN 674,928. Filed 10-18-54. 610,858. J. Calvin Mills, Miami Shores, Fla. SN 667,815. Filed P. R. 6-7-54. Am. S. R. 6-9-55.

# Mansfield

For Electric Refrigerators and Freezers for Household Use.  
Use since May 1953.

## CLASS 34

610,855. Edward W. Lyons, Youngstown, Ohio. SN 638,962. Filed P. R. 12-4-52. Am. S. R. 6-7-55.



# LYON



For Automatic Gas Fired Incinerators.  
Use since Aug. 15, 1952.

610,856. Dennison Manufacturing Company, Framingham, Mass. SN 663,006. Filed P. R. 3-22-54. Am. S. R. 2-9-55.

# Magic in your Fingers

For Guimmed Crepe Paper.  
Use since January 1954.

610,857. John B. Williams, d. b. a. The Pagewriter Pen Company, Wellesly Hills, Mass. SN 680,340. Filed 1-21-55.

# Safety Inkball

and  
**Pagewriter Pen**

For Desk Pen Sets and Parts Thereof.  
Use since Oct. 17, 1951.

## CLASS 38

# HOTEL TARIFF

For Magazine Published Bi-Annually.  
Use since May 21, 1954.

## CLASS 39

610,859. Willcraft Hosiery Mills, Inc., Williamsport, Md. SN 666,240. Filed P. R. 5-12-54. Am. S. R. 1-19-55.

# BEST BY TEST

For Hosiery for Women.  
Use since Aug. 3, 1953.

## CLASS 40

610,860. Amex Merchandise Corporation, New York, N. Y. SN 661,927. Filed P. R. 3-3-54. Am. S. R. 11-10-54.

# OLD ENGLAND

For Hand Sewing Needles.  
Use since Nov. 5, 1953.

## CLASS 41

610,861. The Local Sales Agency, East Meadow, N. Y. SN 668,318. Filed P. R. 6-16-54. Am. S. R. 1-5-55.

# LAWNBRELLA

For Foldable Umbrellas for Use on Lawns and Otherwise.  
Use since in or about June 1951.

## CLASS 52

610,862. H. A. Cole Products Company, Jackson, Miss. SN 680,868. Filed 2-1-55.

# H.A. COLE'S

For Pine Oil Disinfectant and Turpentine Used for Cleaning Purposes.  
Use since June 22, 1953.

## TRADEMARK REGISTRATIONS RENEWED

102,202. SAXON. Cl. 18. 1-26-15.	324,526. STAIN-OX. Cl. 4. 5-21-35.
104,888. V. E. M. Cl. 18. 6-22-15.	326,171. WONDER-SHEEN. Cl. 43. 7-16-35.
105,539. INDIAN HEAD. Cl. 42. 8-3-15.	326,209. VALCUNA. Cl. 39. 7-16-35.
106,654. HIMINER. Cl. 39. 10-26-15.	326,588. PROGRESS SPECIAL AND DESIGN. Cl. 21. 7-30-35.
106,820. WIZARD. Cl. 4. 10-26-15.	326,688. LUCKY DOG AND DESIGN. Cl. 46. 7-30-35.
106,919. BREAD WINNER. Cl. 46. 11-2-15.	326,961. VALCUNA. Cl. 43. 8-13-35.
106,973. MCCORMICK. Cl. 7. 11-9-15.	326,963. VALCUNA. Cl. 42. 8-13-35.
106,975. INTERNATIONAL. Cl. 7. 11-9-15.	327,278. TIP-TOP. Cl. 12. 8-20-35.
324,043. EXQUISITE. Cl. 46. 5-7-35.	327,633. JO-ETTA. Cl. 37. 9-3-35.
324,224. SURE-FIT. Cl. 40. 5-14-35.	



- 327,955. PACEMAKER. Cl. 37. 9-10-35.  
 328,131. GOETZ PALE AND DESIGN. Cl. 48. 9-17-35.  
 328,418. FALERNUM AND DESIGN. Cl. 49. 9-24-35.  
 328,463. MANATONE AND DESIGN. Cl. 40. 10-1-35.  
 328,468. WIGHTCREST AND DESIGN. Cl. 49. 10-1-35.  
 328,617. BALINCOURT. Cl. 39. 10-1-35.  
 328,698. SUPORTS AND DESIGN. Cl. 39. 10-1-35.  
 328,794. SAMMY. Cl. 39. 10-8-35.  
 328,864. KISLAV. Cl. 52. 10-8-35.  
 329,150. CURIOSITEASERS. Cl. 38. 10-15-35.  
 329,243. DDD AND DESIGN. Cl. 18. 10-22-35.  
 329,467. NEW ENGLAND COKE AND DESIGN. Cl. 1. 10-29-35.  
 329,482. COMFOBELT. Cl. 39. 10-29-35.  
 329,642. EPICURE. Cl. 49. 11-5-35.  
 329,755. WM ROGERS AND DESIGN. Cl. 28. 11-12-35.

## TRADEMARK REGISTRATIONS CANCELED

## Section 8

- 22,382. PLANET. Cl. 27. 1-31-93.  
 45,402. REGAL. Cl. 27. 8-15-05.  
 45,406. FAVORITE. Cl. 27. 8-15-05.  
 48,777. REPRESENTATION OF AN UPLIFTED ARM ETC. Cl. 34. 1-16-06.  
 59,826. LITTLE COUSIN. Cl. 38. 1-22-07.  
 112,039. BOARDMAN'S BROWN BERRY AND DESIGN. Cl. 46. 8-22-16.  
 113,280. M AND DESIGN. Cl. 28. 10-10-16.  
 114,961. GLOBE TROTTER AND DESIGN. Cl. 3. 1-16-17.  
 124,313. ROSE APPLES. Cl. 46. 2-4-19.  
 127,594. CONKEY'S. Cl. 6. 11-18-19.  
 127,595. CHICKEN DESIGN. Cl. 6. 11-18-19.  
 145,646. CURDOLAC. Cl. 46. 8-16-21.  
 148,012. TWO IN ONE. Cl. 42. 11-8-21.  
 157,406. IVORY AND DESIGN. Cl. 46. 8-1-22.  
 193,498. FREE-MULSION. Cl. 6. 12-30-24.  
 200,910. REPRESENTATION OF A TOMAHAWK ETC. Cl. 26. 7-14-25.  
 202,517. PAIR IN ONE. Cl. 42. 8-25-25.  
 204,626. NATHAN HALE AND DESIGN. Cl. 46. 10-20-25.  
 208,466. PUTNAM AND DESIGN. Cl. 46. 2-2-26.  
 216,372. BARRELED SUNLIGHT. Cl. 16. 8-10-26.  
 225,546. WARMSPUN. Cl. 42. 3-22-27.  
 227,216. Y-O AND DESIGN. Cl. 46. 5-3-27.  
 232,348. ORIGINAL POCAHONTAS. Cl. 1. 9-6-27.  
 232,705. TEARS. Cl. 6. 9-13-27.  
 234,292. NASSAU DAILY REVIEW AND DESIGN. Cl. 38. 10-18-27.  
 237,181. FORMODA. Cl. 39. 1-3-28.  
 242,848. BILTMORE AND DESIGN. Cl. 39. 6-5-28.  
 244,259. MISS BEHAVE. Cl. 42. 7-17-28.  
 248,754. SUNLITE AND DESIGN. Cl. 32. 10-30-28.  
 253,951. STAN EREK. Cl. 39. 3-12-29.  
 260,324. FLORIDOIL. Cl. 6. 8-20-29.  
 291,164. WYANDOTTE L. S. ALKALI. Cl. 52. 2-2-32.  
 292,692. WINNER. Cl. 5. 3-22-32.  
 300,714. LET THE DOG BE THE JUDGE. Cl. 46. 2-7-33.  
 301,519. CHEROKEE. Cl. 52. 3-7-33.  
 306,577. SANI-SLEEP AND DESIGN. Cl. 32. 9-26-33.  
 316,449. FABRAY. Cl. 20. 8-28-34.  
 328,877. DOWNYSPUN. Cl. 42. 10-8-35.  
 330,643. BURNHAM, E. P. LUBRICANT AND DESIGN. Cl. 15. 12-10-35.  
 332,561. NASSAU DAILY STAR. Cl. 38. 2-18-36.  
 332,563. NASSAU DAILY REVIEW. Cl. 38. 2-18-36.  
 334,269. ORIGINAL POCAHONTAS AUTOMATIC HEAT OP AND DESIGN. Cl. 34. 4-28-36.  
 335,063. RIVALOY. Cl. 14. 5-19-36.  
 335,823. FULSTRENGTH AND DESIGN. Cl. 49. 6-16-36.  
 335,827. HEN-DINE. Cl. 1. 6-16-36.  
 338,059. SCREEN GUIDE. Cl. 38. 8-25-36.  
 338,771. REFRESH-ADE. Cl. 45. 9-15-36.  
 339,145. JAMES MARSHALL. Cl. 46. 9-29-36.  
 340,174. KLINGTITE. Cl. 15. 11-3-36.  
 340,279. CHICK-DINE. Cl. 1. 11-3-36.  
 344,026. SCIENCE REVIEW. Cl. 38. 3-9-37.  
 348,027. PICTURE OF CONTAINER. Cl. 15. 7-13-37.  
 353,491. EXTRUDALITE. Cl. 12. 1-11-38.  
 355,445. SILVER FOX. Cl. 42. 3-15-38.  
 357,515. ACE COMICS. Cl. 38. 6-7-38.  
 360,927. HYDRAULIC. Cl. 23. 10-4-38.  
 361,424. BUTTERFLY. Cl. 42. 10-18-38.  
 361,563. DRAKE AND DESIGN. Cl. 39. 10-25-38.  
 365,422. HUSKY PAIR. Cl. 42. 3-7-39.  
 368,375. TALISKER. Cl. 49. 6-13-39.  
 370,876. EMBLEM DESIGN. Cl. 48. 9-12-39.  
 370,877. EMBLEM DESIGN. Cl. 45. 9-12-39.  
 371,241. ARE YOU FLOSSIE OR FLUZZIE. Cl. 38. 9-19-39.  
 372,000. ERMINE. Cl. 42. 10-17-39.  
 372,403. MAGIC COMICS. Cl. 38. 10-31-39.  
 376,305. MAGIC MOUNTAIN. Cl. 46. 3-19-40.  
 377,646. DIA-TABS. Cl. 6. 5-7-40.  
 377,718. BUDGET BEAUTIES! Cl. 39. 5-14-40.  
 378,955. CRIME DETECTIVE. Cl. 38. 6-25-40.  
 379,129. C AND DESIGN. Cl. 27. 7-2-40.  
 381,252. RY-ARM. Cl. 14. 9-17-40.  
 382,535. FUTURE COMICS. Cl. 38. 10-29-40.  
 383,193. SANDSWIPT. Cl. 39. 11-26-40.  
 383,391. NYLIES. Cl. 39. 12-3-40.  
 385,059. ESMORAY. Cl. 42. 2-11-41.  
 385,396. POPULAR IDEAS. Cl. 38. 2-25-41.  
 386,284. ALEMITE. Cl. 6. 4-1-41.  
 387,669. PLEE-ZING KLE-CUE. Cl. 4. 5-27-41.  
 388,215. MODERNE AND DESIGN. Cl. 2. 6-17-41.  
 391,562. NOX-I-CIDE. Cl. 6. 11-18-41.  
 395,836. SUNNYSPUN. Cl. 42. 6-16-42.  
 397,393. FUMEX. Cl. 6. 9-8-42.  
 398,807. MYSTERY. Cl. 4. 11-24-42.  
 399,215. BURGER-SPRED. Cl. 46. 12-22-42.  
 410,466. VIKING GLASS. Cl. 32. 11-28-44.  
 410,681. WAKE UP. Cl. 15. 12-12-44.  
 412,103. VIKING GLASS. Cl. 34. 2-20-45.  
 412,140. SYNTHRON. Cl. 40. 2-20-45.  
 413,251. TONE-O-MOR. Cl. 6. 4-17-45.  
 413,726. KOREX. Cl. 21. 5-8-45.  
 413,967. CAND DESIGN. Cl. 28. 5-22-45.  
 414,139. VALVO (VELVETIZES HARD WATER). Cl. 4. 5-29-45.  
 414,160. MATCHMAKER. Cl. 6. 5-29-45.  
 414,305. OMEGA BRAND METALS ETC. AND DESIGN. Cl. 14. 6-5-45.  
 415,221. TWINKLE-TWINE. Cl. 7. 7-31-45.  
 416,354. SABACIDE. Cl. 6. 9-4-45.  
 417,365. STAYRITE. Cl. 44. 10-23-45.  
 417,540. YOUNG TIME. Cl. 6. 10-30-45.

- 418,017. A ALEMITE EQUIPMENT AND DESIGN. Cl. 23. 11-27-45.  
 419,378. RED ROCK. Cl. 46. 2-12-46.  
 420,241. YELLOW CIRCLET ON SHOELACE TIP. Cl. 40. 4-2-46.  
 421,373. ARMFLEX. Cl. 39. 5-28-46.  
 421,525. AIRBOY COMICS. Cl. 38. 6-4-46.  
 421,953. SHINING STAR. Cl. 46. 6-25-46.  
 422,182. CARGOVEYOR. Cl. 23. 7-9-46.  
 422,234. LA CUMBRE. Cl. 46. 7-9-46.  
 423,010. DESIGN OF ARTIST'S PALETTE. Cl. 38. 8-20-46.  
 424,221. FLETCHER WICK AND DESIGN. Cl. 34. 9-24-46.  
 424,937. JUVIES. Cl. 39. 10-29-46.  
 425,977. T. M. BOX DESIGN. Cl. 40. 12-10-46.  
 426,954. POW'R HOUSE AND DESIGN. Cl. 22. 1-21-47.  
 428,260. SLIPSTREAM. Cl. 3. 3-18-47.  
 432,366. SAFESIDE. Cl. 6. 9-2-47.  
 434,743. WESTPOINT AND DESIGN. Cl. 21. 12-2-47.  
 434,802. THE RAPIDS-STANDARD COMPANY INC., ETC. AND DESIGN. Cl. 19. 12-9-47.  
 435,345. FARANAC. Cl. 42. 12-16-47.  
 435,993. RITE ARC RUN-IN. Cl. 22. 1-20-48.  
 436,187. LADY'S HEAD AND DESIGN. Cl. 46. 1-27-48.  
 507,342. DARN-AIDE AND DESIGN. Cl. 40. 3-8-49.  
 507,344. FARMITT AND DESIGN. Cl. 9. 3-8-49.  
 507,350. TECO. Cl. 14. 3-8-49.  
 507,353. HY-GLOS. Cl. 38. 3-8-49.  
 507,357. "MIKE-SELL'S". Cl. 46. 3-8-49.  
 507,358. POLAR BEADYON. Cl. 43. 3-8-49.  
 507,377. TOO-TOO-SIX AND DESIGN. Cl. 39. 3-8-49.  
 507,380. HONEY-COMB. Cl. 40. 3-8-49.  
 507,386. SILVER SPREAD. Cl. 46. 3-8-49.  
 507,390. POLLAKON. Cl. 40. 3-8-49.  
 507,391. JESTER. Cl. 43. 3-8-49.  
 507,395. TOOL TOPICS. Cl. 38. 3-8-49.  
 507,399. MARTHA WASHINGTON STUDIOS. Cl. 38. 3-8-49.  
 507,403. SCULPTURE. Cl. 40. 3-8-49.  
 507,416. HEART DESIGN. Cl. 3. 3-8-49.  
 507,418. GLAMOUR GUIDE. Cl. 38. 3-8-49.  
 507,424. LIONEL THOUGHT-ANGELS AND DESIGN. Cl. 38. 3-8-49.  
 507,431. FOODLAND. Cl. 9. 3-8-49.  
 507,432. MRS. LANE'S. Cl. 9. 3-8-49.  
 507,433. HI SCHOOL. Cl. 3. 3-8-49.  
 507,434. THE SANDLOTTER. Cl. 38. 3-8-49.  
 507,440. THE PUBLIC OPINION INDEX FOR INDUSTRY. Cl. 38. 3-8-49.  
 507,441. STAR DESIGN. Cl. 40. 3-8-49.  
 507,442. CRADLESPUN. Cl. 43. 3-8-39.  
 507,444. GOLD CROWN AND DESIGN. Cl. 40. 3-8-49.  
 507,445. PRESIDON. Cl. 6. 3-8-49.  
 507,447. COL-NITIAL. Cl. 41. 3-8-49.  
 507,448. COUPRAY. Cl. 43. 3-8-49.  
 507,450. BENZOCINATE. Cl. 6. 3-8-49.  
 507,451. 99X. Cl. 6. 3-8-49.  
 507,453. ALIDA BAG. Cl. 3. 3-8-49.  
 507,454. CANDLELIGHT. Cl. 3. 3-8-49.  
 507,455. COLONIAL. Cl. 55. 3-8-49.  
 507,456. COLONIAL AND DESIGN. Cl. 55. 3-8-49.  
 507,459. NU TREND DRESSMAKER AND DESIGN. Cl. 40. 3-8-49.  
 507,460. CUMMINS DEPENDABLE DIESEL AND DESIGN. Cl. 38. 3-8-49.  
 507,464. MASTER CRAFT AND DESIGN. Cl. 39. 3-8-49.  
 507,465. FOTOPAK. Cl. 38. 3-8-49.  
 507,466. SPIRAL. Cl. 29. 3-8-49.  
 507,470. NATURAL FORM. Cl. 39. 3-8-49.  
 507,472. SUPERGRIP. Cl. 40. 3-8-49.  
 507,474. INDEX OF BUSINESS OPINION. Cl. 38. 3-8-49.  
 507,475. CORLISS. Cl. 39. 3-8-49.  
 507,476. SUPER DUDS. Cl. 39. 3-8-49.  
 507,477. BEVERWYCK WUERZBURGER BEER AND DESIGN. Cl. 48. 3-8-49.  
 507,479. FIBRO FABRIK AND DESIGN. Cl. 42. 3-8-49.  
 507,481. "JOAN STARR". Cl. 39. 3-8-49.  
 507,484. MORGANTON. Cl. 32. 3-8-49.  
 507,485. WEEKLY READER. Cl. 38. 3-8-49.  
 507,486. CAMBRIDGE GROUP. Cl. 32. 3-8-49.  
 507,487. HAMPSHIRE GROUP. Cl. 32. 3-8-49.  
 507,488. LANGLEY GROUP. Cl. 32. 3-8-49.  
 507,489. CHATHAM HOUSE GROUP. Cl. 32. 3-8-49.  
 507,490. FALMOUTH GROUP. Cl. 32. 3-8-49.  
 507,491. TWIN-GRIP. Cl. 40. 3-8-49.  
 507,493. HANDY-FARE. Cl. 3. 3-8-49.  
 507,495. KEEPRITE SKIPPER PREVENTIVE AND DESIGN. Cl. 6. 3-8-49.  
 507,496. ROLL-A-DRAWER. Cl. 34. 3-8-49.  
 507,497. CONSTRUCTION TRENDS. Cl. 38. 3-8-49.  
 507,498. FANFOLD. Cl. 38. 3-8-49.  
 507,500. WOMAN VETERAN. Cl. 38. 3-8-49.  
 507,501. ELGIN STEEL KITCHENS. Cl. 32. 3-8-49.  
 507,502. VADEN. Cl. 39. 3-8-49.  
 507,503. VADEN MILLS INC. Cl. 39. 3-8-49.  
 507,504. GLOKORD. Cl. 3. 3-8-49.  
 507,508. CONTOUR RUFFLING. Cl. 42. 3-8-49.  
 507,509. THE GIBSON CURVE. Cl. 40. 3-8-49.  
 507,511. ABREGE DES SCIENCES. Cl. 38. 3-8-49.

## Vacation of Order of Cancellation

The order of cancellation dated June 16, 1955, cancelling Registration No. 316,569, was inadvertently entered and has been vacated.

## TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 607,842. LIQUID CAPONGRO. Cl. 18. 6-28-55. Wene Poultry Laboratories, Inc., Vineland, N. J. Corrected: In the statement, column 2, lines 3 and 4, for "June 23, 1924" read *June 23, 1954*.  
 607,932. MADSEN SINCE 1910 HELPING TO BUILD THE HIGHWAYS OF THE WORLD AND DESIGN. Cl. 23. 6-28-55. Madsen Iron Works, Inc., Lamerada, Calif. Corrected: In the statement, column 2, line 7, for "October 1953" read *December 1953*.



## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

### CLASS 1

330,558. Dec. 3, 1935. Eastern Seed Company, Corpus Christi, Tex. Pub. by Eastern Seed Company, Limited, Corpus Christi, Tex.

**"ESCO BRAND"**

For Selected Garden Seeds.

### CLASS 2

212,415. May 4, 1926. Harrisburg Pipe & Pipe Bending Co., Harrisburg, Pa. Pub. by Harrisburg Steel Corporation, Harrisburg, Pa.



For Steel Receivers for Compressed Gases and Parts Therefor.

### CLASS 4

385,012. Feb. 11, 1941. The Pennzoi Company, Los Angeles, Calif. Pub. by registrant.



For Household Cleaning Fluid.

### CLASS 6

333,635. Mar. 31, 1936. W. H. & L. D. Betz, Philadelphia, Pa. Pub. by registrant.

**THQ**

For Tetrahydroxyquinone Indicator.

### CLASS 12

261,900. Sept. 24, 1929. C. Le Roy Olson, San Francisco, Calif. Pub. by Le Roy Olson Company, San Francisco, Calif.

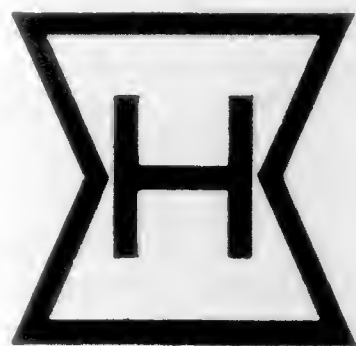
**ROKADA**

For Construction Material of a Plastic Nature Consisting of Magnesia, Magnesium Chloride and Suitable Fillings To Be Used in Making Flooring, Table Tops, Drain Boards, Plaster, or Goods of a Similar Nature.

130

### CLASS 13

434,000. Nov. 4, 1947. Harrisburg Steel Corporation, Harrisburg, Pa. Pub. by registrant.



For Pipe Couplings and Pipe Flanges.

443,192. Aug. 9, 1949. Israel Dobkin, d. b. a. Acme Chemical Company, Pittsburgh, Pa. Pub. by Allied Block Chemical Company, Pittsburgh, Pa.

**AERO-MATIC**

For Combined Door Check and Deodorant Diffuser and Deodorant Cartridge for Use Therein.

### CLASS 14

79,612. Sept. 20, 1910. Swedish Iron & Steel Corporation, New York, N. Y., and New Orleans, La. Pub. by Achorn Steel Company, Boston, Mass.



For Bar-Steel.

### CLASS 16

424,363. Oct. 1, 1946. Andrew Brown Company, Los Angeles, Calif. Pub. by registrant.

**SYNCHRO-GREEN**

For Metal Paint Primer.

### CLASS 17

369,300. July 18, 1939. Riggio Tobacco Corporation, Brightwaters, N. Y. Pub. by registrant.

**REGENT**

For Cigarettes.

AUGUST 16, 1955

U. S. PATENT OFFICE

TM 131

401,270. May 4, 1943. Riggio Tobacco Corporation, Brightwaters, N. Y. Pub. by registrant.

**AIR-  
FLOW**

For Cigarettes.

### CLASS 18

428,085. Mar. 11, 1947. Mary Chisholm, Manchester, Ky. Pub. by registrant.

**M.E.O.**

For Ointment for Treatment of Eczema and Other Skin Affections.

### CLASS 22

356,550. May 3, 1938. The Pioneer Rubber Company, Willard, Ohio. Pub. by registrant.



For Toy Balloons.

427,951. Mar. 4, 1947. Richard T. James, Brookline, Pa., to James Industries, Inc. Pub. by James Industries, Inc., Paoli, Pa.



For Spring Toys.

### CLASS 23

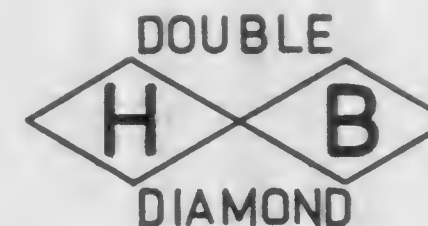
318,544. Oct. 30, 1934. Norma-Hoffmann Bearings Corporation, Stamford, Conn. Pub. by registrant.

**LITRO**

For Retainers in Ball Bearings.

### CLASS 26

180,327. Feb. 26, 1924. Hergesell Brothers, Philadelphia, Pa. Pub. by H-B Instrument Company, Inc., Philadelphia, Pa.



For Laboratory, Chemical, and Surgical Glassware—Namely, Thermometers, Hydrometers, Thermohydrometers, Actinometers, Barkometers, Glucometers, Lactodensimeters, Lactometers, Saccharometers, Salinometers, Salometers, Sprayometers, Tannometers, Pyrometers, Flash-Point Apparatus, Calorimeters, Pipettes, Burettes, Graduated Cylinders, Flasks, and Beakers, Combustion Tubes, Centrifuge Tubes, Viscosity Cups, Vacuum Flasks, Gas-Analysis Apparatus, Milk-Analysis Apparatus, Paint-Analysis Apparatus, Water-Analysis Apparatus, Oil-Analysis Apparatus, Distillation Apparatus, Glass Vessels of All Kinds for Volumetric Measurements and Chemical Work.

305,002. July 25, 1933. Ilford, Limited, Ilford, England. Pub. by registrant.

**SELOCHROME**

For Sensitized Cinematographic and Photographic Films.

### CLASS 27

325,848. July 9, 1935. Western Clock Company, Peru, Ill. Pub. by General Time Corporation, La Salle, Ill.

**Wrist Ben**

For Watches.

### CLASS 29

322,479. Mar. 5, 1935. S. H. Kress and Company, New York, N. Y. Pub. by registrant.

*Lovely Lady*

For Powder Puffs, Nail Brushes, Complexion Brushes, Shaving Brushes, Bath Brushes, Hair Brushes, and Eyebrow Brushes.



## CLASS 38

426,157. Dec. 17, 1946. Students' Magazines Inc., Chicago, Ill. Pub. by N. D. Publications, Inc., New York, N. Y.

# MD

For Publication, Issued Periodically, an International Journal for Interns and Students of Medicine, and Advertising Medical Supplies and Equipment Combined With Written Articles That Unite the Medical Undergraduates With the Medical Graduates and All the Student Bodies of the Medical Profession.

## CLASS 39

357,450. June 7, 1938. The Pioneer Rubber Company, Willard, Ohio. Pub. by registrant.

# QUALATEX

For Rubber Gloves for Household Use.

381,016. Sept. 10, 1940. Jacob Finkelstein & Sons, partnership, Woonsocket, R. I. Pub. by registrant.

# "QUIZ-A-COAT"

For Clothing—Namely, Raincoats and Jackets for Men, Women, Boys, and Girls.

390,785. Oct. 7, 1941. The Pioneer Rubber Company, Willard, Ohio. Pub. by registrant.

# Grip-Tex

For Household Rubber Gloves.

## CLASS 44

180,082. Feb. 19, 1924. Hlrgesell Brothers, Philadelphia, Pa. Pub. by H-B Instrument Company, Inc., Philadelphia, Pa.

# DOUBLE H B DIAMOND

For Calibrated Surgical and Clinical Syringes.

398,688. Nov. 17, 1942. The Pioneer Rubber Company, Willard, Ohio. Pub. by registrant.

# QUIXAM

For Surgeon's Rubber Gloves.

## CLASS 46

93,826. Oct. 21, 1913. Collin Street Bakery, Inc., Corsicana, Tex. Pub. by registrant.

# DeLuxe

For Fruit-Cake.

269,287. Apr. 1, 1930. Sheehy & Cumming, Watsonville, Calif. Pub. by D'Arrigo Bros. Co. of California, San Jose, Calif.

# GREEN HEAD

For Fresh Vegetables.

314,481. July 3, 1934. Plochman & Harrison, Chicago, Ill. Pub. by Plochman & Harrison (1954), Chicago, Ill.

# PAD-L-JAR

For Prepared Mustard.

319,069. Nov. 13, 1934. Plochman & Harrison, Chicago, Ill. Pub. by Plochman & Harrison (1954), Chicago, Ill.

# REL TANG

For Prepared Mustard.

442,503. Apr. 19, 1949. Southern Biscuit Company, Incorporated, Richmond, Va. Pub. by Weston Biscuit Company, Richmond, Va.

# STARLETS

For Cookies.

## CLASS 52

444,128. Aug. 8, 1950. Royal Confectionery Co., Boston, Mass. Pub. by registrant.

# Royal Crest

For Candy, Excluding Caramels.

## CLASS 48

70,922. Oct. 13, 1908. The Stroh Brewery Company, Detroit, Mich. Pub. by The Stroh Brewery Company, Detroit, Mich.

# Stroh's

For Beer, Stout, and Malt Extract.

## CLASS 51

406,065. Mar. 7, 1944. Alexander Manson, d. b. a. Manson, Chicago, Ill. Pub. by Joe C. Bode, Jr., Aurora, Ill.

# Misbehaving

For Perfumes.

381,901. Oct. 15, 1940. Gibbs & Company, Chicago, Ill. Pub. by registrant.



For Shampoo, waving Fluid, whitener, and Nail Polish Remover and Thinner.

420,575. Apr. 23, 1946. L. Sonneborn Sons, Inc., New York, N. Y. Pub. by registrant.

# SOLVEPINE

For Liquid Soap.

437,030. Mar. 2, 1948. Tennessee Supply Co., Greenville, Tenn. Pub. by registrant.

# NITRENE

For Toilet Bowl Cleaner.



## LIST OF REGISTRANTS OF TRADEMARKS

- Abrasive Machine Tool Co., East Providence, R. I. 610,628, pub. 5-24-55. Cl. 23.  
 Achorn Steel Co.: See—  
 Swedish Iron & Steel Corp.  
 Acme Chemical Co.: See—  
 Dobkin, Israel.  
 Acme Visible Records, Inc., Chicago, Ill. 507,501, canc. Cl. 32.  
 Adelman, George N., d. b. a. The Visual Nerve Tracing Instrument Co. of America, Brockton, Mass. 610,790, pub. 5-10-55. Cl. 44.  
 Advertising Displays, Inc., Covington, Ky. 610,816, pub. 5-17-55. Cl. 50.  
 Aeroprospects Inc., West Chester, Pa. 610,598, pub. 5-17-55. Cl. 21.  
 Aktiebolaget Upsala Attikfabrik, Upsala, Sweden. 610,799, pub. 5-17-55. Cl. 46.  
 Alida Co.: See—  
 Allen, Alida V., d. b. a. Alida Co., Jamaica, N. Y. 507,453, canc. Cl. 3.  
 Allied Block Chemical Co.: See—  
 Dobkin, Israel.  
 Allmetal Screw Products Co., Inc., Garden City, N. Y. 610,546, pub. 5-3-55. Cl. 13.  
 American Blitrite Rubber Co., Inc., Chelsea, Mass., now by merger American Blitrite Rubber Co., Inc. 610,741, pub. 5-17-55. Cl. 39.  
 American Chemical Paint Co., Ambler, Pa. 610,836, pub. 5-17-55. Cl. 52.  
 American Cyanamid Co., New York, N. Y. 610,776, pub. 5-17-55. Cl. 42.  
 American Cyanamid Co., New York, N. Y. 610,780, pub. 5-17-55. Cl. 42.  
 American Cyanamid Co., New York, N. Y. 610,789, pub. 5-17-55. Cl. 43.  
 American Luggage Works, Inc., d. b. a. American Tourister, West Warwick, R. I. 610,841. Cl. 3.  
 American Thermo-Ware Co., New York, N. Y. 610,659, pub. 4-5-55. Cl. 26.  
 American Tissue Mills, Holyoke, Mass. 388,215, canc. Cl. 2.  
 American Tourister: See—  
 American Luggage Works, Inc.  
 American Zinc, Lead and Smelting Co., St. Louis, Mo. 610,634, pub. 5-24-55. Cl. 23.  
 Amethyst Hosiery Mills, Inc., Mohnton, Pa. 610,754, pub. 5-17-55. Cl. 39.  
 Amex Merchandise Corp., New York, N. Y. 610,860. Cl. 40.  
 Am Lee Jewelry Co., Inc., Providence, R. I. 610,675, pub. 5-17-55. Cl. 28.  
 Animal Foods Co., San Jose, Calif. 300,714, canc. Cl. 46.  
 Argus Cameras, Inc., Ann Arbor, Mich. 610,660, pub. 5-17-55. Cl. 26.  
 Arizona Citrus Growers, Phoenix, Ariz. 610,802-3, pub. 5-10-55. Cl. 46.  
 Art-Full Picture Frame Co., The: See—  
 Geoffrey, William.  
 Associated Merchandising Corp., New York, N. Y. 507,475, canc. Cl. 39.  
 Associated Merchandising Corp., The, New York, N. Y. 610,854. Cl. 31.  
 Atlanta Envelope Co., Atlanta, Ga. 610,710, pub. 8-10-54. Cl. 37.  
 Atlanta Tool Co., Atlanta, Ga. 610,625, pub. 5-17-55. Cl. 23.  
 Atlas Sound Systems: See—  
 Goldstein, Maurice L.  
 Atlas Underwear Co., The, to Atlas Underwear Corp., Piqua, Ohio. 328,698, ren. 10-1-55. Cl. 39.  
 Atlas Underwear Corp.: See—  
 Atlas Underwear Co., The.  
 Audio Equipment Co., Inc., Great Neck, N. Y. 610,584, pub. 5-10-55. Cl. 21.  
 Auto Fabric & Parts Corp., Richmond, Va. 507,479, canc. Cl. 42.  
 Automatic Temperature Control Co., Inc., Philadelphia, Pa. 610,544, pub. 5-3-55. Cl. 13.  
 Autoyre Co., The, Oakville, Conn. 610,545, pub. 5-3-55. Cl. 13.  
 Avery & Co.: See—  
 Avers of Bristol Ltd.  
 Avers of Bristol Ltd., also d. b. a. Avery & Co., Bristol, England. 610,812, pub. 5-17-55. Cl. 49.  
 Ayrlite Corp., New York, N. Y. 610,749, pub. 5-17-55. Cl. 39.  
 Bar, Charles E., d. b. a. Latin American Trading Co., New York, N. Y. 610,733, pub. 5-17-55. Cl. 39.  
 Barclay Knitwear Co., Inc., Kingston and New York, N. Y. 507,377, canc. Cl. 39.  
 Baron, Andrew, Ltd., Manchester, England. 328,794, ren. 10-8-55. Cl. 39.  
 Barrett & Co., Inc., Newark, N. J. 610,512, pub. 5-17-55. Cl. 1.  
 Bartmann & Bixer, Inc., New York, N. Y. 507,508, canc. Cl. 42.  
 Beaunt Mills, Inc., New York, N. Y. 610,770, pub. 5-17-55. Cl. 39.  
 Belk's Buying Service, Inc., Charlotte, N. C. 610,722, pub. 5-23-50. Cl. 39.  
 Bellevue Creamery and Produce Co.: See—  
 Omaha Cold Storage Co.  
 Benrus Watch Co., Inc., New York, N. Y. 610,671, pub. 5-17-55. Cl. 27.  
 Bercut Richards Packing Co., Sacramento, Calif. 339,145, canc. Cl. 46.  
 Betz, W. H. & L. D., Philadelphia, Pa. 333,635, 12(c) pub. 8-16-55. Cl. 6.  
 Beverwyck Breweries, Inc., Albany, N. Y. 507,477, canc. Cl. 48.  
 Bing, Arthur, Bern, Switzerland. 610,834, pub. 5-17-55. Cl. 52.  
 Birtcher Corp., The, Los Angeles, Calif. 610,585, pub. 5-17-55. Cl. 21.  
 Blauman, George, d. b. a. Tecla Shoulder Pad Co., New York, N. Y. 507,459, canc. Cl. 40.  
 Boardman, Wm., & Sons Co., The, Hartford, Conn. 112,039, canc. Cl. 46.  
 Boardman, William, & Sons Co., The, Hartford, Conn. 204,626, canc. Cl. 46.  
 Boardman, William, & Sons Co., The, Hartford, Conn. 208,466, canc. Cl. 46.  
 Bobkowitz, Emilian, Reg'd, Montreal, Quebec, Canada. 610,647, pub. 5-17-55. Cl. 23.  
 Bode, Joe C., Jr.: See—  
 Manson, Alexander.  
 Bookmate Co., The: See—  
 Croninger, Arthur G.  
 Bourjois, Inc., New York, N. Y. 610,825, pub. 5-10-55. Cl. 51.  
 Bourns Laboratories, Inc., Riverside, Calif. 610,658, pub. 5-17-55. Cl. 26.  
 Bowers Printing Ink Co., Chicago, Ill. 610,835, pub. 5-10-55. Cl. 52.  
 Boyle-Midway Inc.: See—  
 Wizard Products Co.  
 Braunstein Freres, Inc., New York, N. Y. 610,530, pub. 5-17-55. Cl. 8.  
 Briddell, Chas. D., Inc., Crisfield, Md. 610,635, pub. 5-24-55. Cl. 23.  
 Bright Leaf Industries, Inc., Charlotte, N. C. 610,696, pub. 5-17-55. Cl. 34.  
 Brody, Joseph, & Bros., Inc., Chicago, Ill. 610,771, pub. 5-17-55. Cl. 39.  
 Brooks Brothers, Inc., New York, N. Y. 610,759, pub. 5-17-55. Cl. 39.  
 Brown, Andrew, Co., Los Angeles, Calif. 424,363, 12(c) pub. 8-16-55. Cl. 16.  
 Building Products Institute, Washington, D. C. 507,497, canc. Cl. 38.  
 Bullard, E. D., Co., San Francisco, Calif. 610,723, pub. 5-17-55. Cl. 39.  
 BullDog Electric Products Co., Detroit, Mich. 610,603, pub. 5-17-55. Cl. 21.  
 Burn-Rite Chemical Service: See—  
 Wolverton, Orin A.  
 Buscariet Glove Co., New York, N. Y. 328,864, ren. 10-8-55. Cl. 52.  
 Calcium Carbonate Co., Chicago, Ill. 335,827, canc. Cl. 1.  
 Calcium Carbonate Co., Chicago, Ill. 340,279, canc. Cl. 1.  
 Calumet & Hecla, Inc., Calumet, Mich. 610,557, pub. 5-10-55. Cl. 13.  
 Calumet Refining Co., Chicago, Ill. 330,643, canc. Cl. 15.  
 Calumet Refining Co., Chicago, Ill. 340,174, canc. Cl. 15.  
 Campana Corp.: See—  
 D. D. D. Corp.  
 Capitol Records, Inc., Los Angeles, Calif. 610,705, pub. 5-10-55. Cl. 36.  
 Carter's Ink Co., The, d. b. a. Winner Chemical Co., Cambridge, Mass. 292,692, canc. Cl. 5.  
 Cerrato, John, d. b. a. Natural Form Brassiere Co., Perth Amboy, N. J. 507,470, canc. Cl. 39.  
 Cheney Lumber Co., Inc., Tacoma, Wash. 610,533, pub. 6-7-55. Cl. 12.  
 Chicopee Mills, Inc., New York, N. Y. 610,558, pub. 4-26-55. Cl. 13.  
 Chisholm, Mary, Manchester, Ky. 428,085, 12(c) pub. 8-16-55. Cl. 18.  
 Chople Tool and Die Co.: See—  
 Chopleska, Frank S.  
 Chopleska, Frank S., d. b. a. Chople Tool and Die Co., La Crosse, Wis. 610,621, pub. 5-17-55. Cl. 23.  
 Christina, Vincent, & Co., Inc., New York, N. Y. 507,450, canc. Cl. 6.  
 City Stores Co., Philadelphia, Pa. 610,751, pub. 5-17-55. Cl. 39.  
 Clawson Machine Co., Flagtown, N. J. 610,626, pub. 5-17-55. Cl. 23.  
 Clonay Corp., Cincinnati, Ohio. 316,449, canc. Cl. 20.  
 Clover Farm Stores Corp., Cleveland, Ohio. 507,431-2, canc. Cl. 9.  
 Club Razor & Blade Mfg. Corp., Newark, N. J. 610,608, pub. 11-2-54. Cl. 23.  
 Cluett, Peabody & Co., Inc., Troy, N. Y. 610,727, pub. 5-17-55. Cl. 39.  
 Cohen, Ted, Inc., New York, N. Y. 421,373, canc. Cl. 39.  
 Cole, H. A., Products Co., Jackson, Miss. 610,862. Cl. 52.  
 Collin Street Bakery, Inc., Corsicana, Tex. 93,826, 12(c) pub. 8-16-55. Cl. 46.  
 Colonial Airlines, Inc., New York, N. Y. 507,455-6, canc. Cl. 55.  
 Commodore Watch Case Co., Inc., New York, N. Y. 379,129, canc. Cl. 27.



## LIST OF REGISTRANTS OF TRADEMARKS

Communication Products Co., Inc., Keyport, N. J. 413,726, can. Cl. 21.  
 Communications Accessories Co., Hickman Mills, Mo. 610,604, pub. 5-17-55. Cl. 21.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 127,594-5, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 227,216, can. Cl. 46.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 377,646, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 391,562, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 397,393, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 432,366, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 610,615, pub. Cl. 6.  
 Continental Motors Corp., Muskegon, Mich. 5-24-55. Cl. 23.  
 Corblin, Ltd., New York, N. Y. 610,767, pub. 5-17-55. Cl. 39.  
 Coru-Ply Corp., North Augusta, Ga. 610,532, pub. 2-8-55. Cl. 12.  
 Crescent Watch Case Co., Newark, N. J. 22,382, can. Cl. 27.  
 Crime Detective, Inc., New York, N. Y. 378,955, can. Cl. 38.  
 Cripe Electric & Machine Co.: See—  
 Cripe, Owen C.  
 Cripe, Owen C., d. b. a. Cripe Electric & Machine Co., Walton, Ind. 610,554, pub. 5-10-55. Cl. 13.  
 Croninger, Arthur G., d. b. a. The Bookmate Co., Miami, Okla. 610,616, pub. 5-24-55. Cl. 23.  
 Crystal, David, Inc., New York, N. Y. 610,766, pub. 5-17-55. Cl. 39.  
 Cudahy Packing Co., The, Chicago, Ill. 610,830, pub. 9-13-49. Cl. 52.  
 Cummins Engine Co., Inc., Columbus, Ind. 507,460, can. Cl. 38.  
 Cunningham, M. E., Co., Pittsburgh, Pa. 610,619-20, pub. 5-17-55. Cl. 23.  
 Curdace Food Co., Waukesha, Wis. 145,646, can. Cl. 46.  
 Curtis, Helene, Industries, Inc., Chicago, Ill. 610,822, pub. 5-10-55. Cl. 51.  
 Cutler, Hazel, Muncie, Ind. 610,526, pub. 5-3-55. Cl. 6.  
 D. D. Corp., to Campana Corp., Batavia, Ill. 329,243, ren. 10-22-55. Cl. 18.  
 Dallaline-Talisker Distilleries Ltd., Carron, Scotland. 368,375, can. Cl. 49.  
 Daily Review Corp., Rockville Center, N. Y. 234,292, can. Cl. 38.  
 Daily Review Corp., Rockville Center, N. Y. 332,563, can. Cl. 38.  
 Dalton of America, Inc., Cleveland, Ohio. 610,768, pub. 4-17-55. Cl. 39.  
 D'Arrigo Bros. Co. of California: See—  
 Sheehy & Cumming.  
 Davies Supply & Mfg. Co., St. Louis, Mo. 610,850. Cl. 21.  
 Davis, Charles G., d. b. a. Davis Service Co., Oakland, Calif. 610,513, pub. 5-10-55. Cl. 1.  
 Davis Service Co.: See—  
 Davis, Charles G.  
 Debliste Co., The: See—  
 Wexler, Mark.  
 Denison Engineering Co., The, Columbus, Ohio. 610,540, pub. 5-10-55. Cl. 13.  
 Denison Mfg. Co., Framingham, Mass. 610,856. Cl. 37.  
 Desley Fabrics, Division of J. H. Thorp & Co., Inc., New York, N. Y. 610,783, pub. 5-17-55. Cl. 42.  
 Detroit-Michigan Stove Co., Detroit, Mich., now by merger, consolidation and change of name to Welbilt Corp. 610,701, pub. 5-10-55. Cl. 34.  
 Black, Arthur G., Los Angeles, Calif. 610,848. Cl. 13.  
 Die Engineering Co., New York, N. Y. 610,536, pub. 4-26-55. Cl. 13.  
 Di-Noc Co., The, Cleveland, Ohio. 610,655-7, pub. 5-17-55. Cl. 26.  
 Dishmald, Inc., Cleveland, Ohio. 610,611, pub. 5-24-55. Cl. 23.  
 Di Tucci, Salvatore J., d. b. a. Embassy Rug and Upholstery Cleaning Co., Somerville, Mass. 610,837, pub. 5-17-55. Cl. 52.  
 DoAll Co., The, Des Plaines, Ill. 610,668, pub. 5-31-55. Cl. 26.  
 Dobkin, Israel, d. b. a. Acme Chemical Co., by Allied Block Chemical Co., Pittsburgh, Pa. 443,192, 12(c) pub. 8-16-55. Cl. 13.  
 Dodge Mfg. Corp., Mjshawaka, Ind. 610,648, pub. 5-17-55. Cl. 23.  
 Dohs Refrigerating Co., Chicago, Ill. 610,682, pub. 5-17-55. Cl. 31.  
 Donohue Directories, Inc., Chicago, Ill. 610,719, pub. 5-17-55. Cl. 38.  
 Double-Thrift Stamp Co.: See—  
 Robinson, U. S.  
 Drambute Liqueur Co. (1927) Ltd., The, Edinburgh, Scotland. 335,823, can. Cl. 49.  
 Dreher, Monroe F., New York, N. Y. 610,828, pub. 5-10-55. Cl. 51.  
 Drexel Furniture Co., Drexel, N. C. 507,486-90, can. Cl. 32.  
 Du Boff and Co.: See—  
 Du Boff, Philip L.  
 Du Boff, Philip L., d. b. a. Du Boff and Co., New York, N. Y. 610,539, pub. 5-10-55. Cl. 13.  
 Dunton, M. W., Co., The, Providence, R. I. 610,561, pub. 5-10-55. Cl. 14.  
 Duplex Product Co., The: See—  
 Duplex Products Co., Inc.  
 Duplex Products Co., Inc., d. b. a. The Duplex Products Co., and Duplex Products Corp., West Lynn, Mass. 610,687, pub. 5-17-55. Cl. 32.  
 Duplex Products Corp.: See—  
 Duplex Products Co., Inc.

Duro-Test Corp., North Bergen, N. J. 610,579, pub. 7-6-54. Cl. 21.  
 Dynacolor Corp., Albion, N. Y. 610,661, pub. 5-17-55. Cl. 26.  
 Dyson, Jos., & Sons, Inc., Cleveland, Ohio. 610,559, pub. 5-17-55. Cl. 14.  
 Eastern Gas and Fuel Associates, Boston, Mass. 610,568, pub. 5-17-55. Cl. 15.  
 Eastern Seed Co., by Eastern Seed Co., Ltd., Corpus Christi, Tex. 330,558, 12(c) pub. 8-16-55. Cl. 1.  
 Eastern Seed Co., Ltd.: See—  
 Eastern Seed Co.  
 Educational Printing House, Inc., The, Columbus, Ohio. 507,485, can. Cl. 38.  
 Elastic Stop Nut Corp. of America, Union, N. J. 610,556, pub. 5-10-55. Cl. 13.  
 Electrovector Inc., Brooklyn, N. Y. 610,596, pub. 5-17-55. Cl. 21.  
 Elm Sales Co., Inc., New Haven, Conn. 610,800, pub. 11-16-54. Cl. 46.  
 Embassy Rug and Upholstery Cleaning Co.: See—  
 Di Tucci, Salvatore J.  
 Enkay Chemical Co., Elizabeth, N. J. 610,527-8, pub. 5-3-55. Cl. 6.  
 Empire Brush Works, Inc., Port Chester, N. Y. 507,466, can. Cl. 29.  
 Empire Shield Co., Inc., New York, N. Y. 610,734, pub. 5-17-55. Cl. 39.  
 Enger-Kross Co., West Bend, Wis. 507,454, can. Cl. 3.  
 Enro Shirt Co., Inc., The, Louisville, Ky. 253,951, can. Cl. 39.  
 Enro Shirt Co., Inc., The, Louisville, Ky. 329,482, ren. 10-29-55. Cl. 39.  
 Erving Paper Mills, Erving, Mass. 610,707, pub. 5-17-55. Cl. 37.  
 Erwin Mills, Inc., Durham, N. C. 610,781, pub. 5-17-55. Cl. 42.  
 Esmond Mills, The, Esmond, R. I. 148,012, can. Cl. 42.  
 Esmond Mills, The, Esmond, Smithfield, R. I. 202,517, can. Cl. 42.  
 Esmond Mills, The, Esmond, Smithfield, R. I. 225,546, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 328,877, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 355,445, can. Cl. 42.  
 Esmond Mills, New York, N. Y. 361,424, can. Cl. 42.  
 Esmond Mills, New York, N. Y. 365,422, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 372,000, can. Cl. 42.  
 Esmond Mills, The, Esmond, R. I. 385,059, can. Cl. 42.  
 Esmond Mills, Inc., The, Esmond, R. I. 395,836, can. Cl. 42.  
 Esmond Mills, Inc., The, Esmond, R. I. 610,597, pub. 5-10-55. Cl. 21.  
 Evans Products Co., Plymouth, Mich. 610,713, pub. 5-17-55. Cl. 37.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 610,713, pub. 5-17-55. Cl. 37.  
 Fabrique l'Essor, Jura Bernois, Switzerland. 610,627, pub. 5-24-55. Cl. 23.  
 Factor, Max, & Co., Hollywood, Calif. 610,827, pub. 5-10-55. Cl. 51.  
 Farley, C. J., & Co., Grand Rapids, Mich. 435,345, can. Cl. 42.  
 Farley Fruit Co.: See—  
 Noland, Harry L. and Norris.  
 Farley, Reuben W.: See—  
 Noland, Harry L. and Norris.  
 Fenn Mfg. Co., The, Newington, Conn. 610,690, pub. 5-17-55. Cl. 32.  
 Fidelity Instrument Corp., York, Pa. 610,582, pub. 5-10-55. Cl. 21.  
 Finkelstein, Jacob, & Sons, Woonsocket, R. I. 381,016, 12(c) pub. 8-16-55. Cl. 39.  
 Firestone Tire & Rubber Co., The, Akron, Ohio. 610,605, pub. 5-17-55. Cl. 21.  
 Flirth Brown Tools Ltd., Sheffield, England. 610,639, pub. 5-17-55. Cl. 23.  
 Fleischman, Alvin T., Anderson, S. C. 610,686, pub. 5-17-55. Cl. 32.  
 Fletcher Mfg. Co., Providence, R. I. 48,777, can. Cl. 34.  
 Florin, Phillip, Inc., Newark, N. J. 610,523, pub. 5-24-55. Cl. 3.  
 Folger, J. A., & Co., Kansas City, Mo. 376,305, can. Cl. 46.  
 Ford, J. B., Co., The, Wyandotte, Mich. 291,164, can. Cl. 52.  
 Ford, J. B., Co., The, Wyandotte, Mich. 301,519, can. Cl. 52.  
 Formfit Co., The, Chicago, Ill. 383,391, can. Cl. 39.  
 Fotopak Corp., The, Ridgefield, N. J. 507,498, can. Cl. 38.  
 Fox Fotos: See—  
 Paramount Photo Service.  
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 Frank Tea & Spice Co., The, Cincinnati, Ohio. 338,771, can. Cl. 45.  
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 Fruit Products Corp., New York, N. Y. 610,514, pub. 10-28-52. Cl. 37.  
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 Fuller, D. B., & Co., Inc., New York, N. Y. 610,782, pub. 5-17-55. Cl. 42.  
 Full-Knit Hosiery Mills Inc., Burlington, N. C. 610,743-4, pub. 5-17-55. Cl. 39.  
 Fulton Bag & Cotton Mills, Atlanta, Ga. 610,517, pub. 5-10-55. Cl. 2.  
 Garay & Co., Inc., New York, N. Y. 507,504, can. Cl. 3.  
 Gaybrand Bags, Inc., New York, N. Y. 507,472, can. Cl. 40.  
 Gaylord Products, Inc., Chicago, Ill. 507,472, can. Cl. 40.  
 General Aluminum Products Co., New York, N. Y. 610,820, pub. 5-17-55. Cl. 50.  
 General Machine Co., Milwaukee, Wis. 435,993, can. Cl. 22.

## LIST OF REGISTRANTS OF TRADEMARKS

General Machine & Welding Works, Inc., Pomona, Calif. 610,847. Cl. 13.  
 General Mills, Inc.: See—  
 Washburn Crosby Co.  
 General Ozone Corp., Chicago, Ill. 610,851. Cl. 21.  
 General Shoe Corp., Nashville, Tenn. 610,746, pub. 5-17-55. Cl. 39.  
 General Time Corp.: See—  
 Western Clock Co.  
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 Gibbs & Co., Chicago, Ill. 381,901, 12(c) pub. 8-16-55. Cl. 52.  
 Gilley, Inc., New York, N. Y. 610,692, pub. 5-17-55. Cl. 33.  
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 Gordon Clothes, Inc., Philadelphia, Pa. 610,729, pub. 5-17-55. Cl. 39.  
 Grant, Midge, Westport, Conn., to Midge Grant, Inc., New York, N. Y. 610,728, pub. 12-7-54. Cl. 39.  
 Grant, Midge, Inc.: See—  
 Grant, Midge.  
 Grate, Earl L., d. b. a. Grate Machine Co., Salem, Ohio. 610,618, pub. 5-17-55. Cl. 23.  
 Grate Machine Co.: See—  
 Grate, Earl L.  
 Gray Mfg. Co., The, Hartford, Conn. 610,609, pub. 9-8-53. Cl. 23.  
 Graymoor Fashions, Inc., New York, N. Y. 507,464, can. Cl. 39.  
 Great Atlantic and Pacific Tea Co., The, New York, N. Y. 507,386, can. Cl. 46.  
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 Hales & Hunter Co., Chicago, Ill. 326,688, ren. 7-30-55. Cl. 46.  
 Hamilton Metal Products Co., The, Hamilton, Ohio. 610,519, pub. 5-17-55. Cl. 2.  
 Hanson-Van Winkle-Munning Co., Matawan, N. J. 610,562, pub. 5-17-55. Cl. 14.  
 Harrisburg Pipe & Pipe Bending Co., by Harrisburg Steel Corp., Harrisburg, Pa. 212,415, 12(c) pub. 8-16-55. Cl. 2.  
 Harrisburg Steel Corp.: See—  
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 Harry and David, Medford, Ore. 610,797, pub. 5-17-55. Cl. 46.  
 Hart Metal Products Corp., Elkhart, Ind. 610,515, pub. 5-10-55. Cl. 2.  
 Harvey & Howe, Inc., Chicago, Ill. 371,241, can. Cl. 38.  
 Hat Corp. of America, Norwalk, Conn. 610,747, pub. 5-10-55. Cl. 39.  
 Haven, M. A., Co., The, Boston, Mass. 507,399, can. Cl. 38.  
 Headman, Sam T., d. b. a. X Sales & Distributing Co., Seattle, Wash. 507,451, can. Cl. 6.  
 Hechler, Eric, New York, N. Y. 417,365, can. Cl. 44.  
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 Moore, Fred H.  
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 Hobart Mfg. Co., The, Troy, Ohio. 610,772, pub. 5-17-55. Cl. 39.  
 Hoffmann-La Roche Inc., Nutley, N. J. 507,445, can. Cl. 6.  
 Hogan, Ralph H., Falls City, Nebr. 610,624, pub. 5-17-55. Cl. 23.  
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 Hudson Pump & Paper Corp., New York, N. Y. 610,716-17, pub. 5-17-55. Cl. 37.  
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 Hydragrip Corp., Houston, Tex. 610,613, pub. 5-17-55. Cl. 23.  
 Ilford, Ltd., Ilford, England. 305,002, 12(c) pub. 8-16-55. Cl. 26.  
 Illinois Gear & Machine Co., Chicago, Ill. 610,632, pub. 5-24-55. Cl. 23.



Communication Products Co., Inc., Keyport, N. J. 413,726, can. Cl. 21.  
 Communications Accessories Co., Hickman Mills, Mo. 610,604, pub. 5-17-55. Cl. 21.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 127,594-5, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 227,216, can. Cl. 46.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 377,646, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 391,562, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 397,393, can. Cl. 6.  
 Conkey, G. E., Co., The, Cleveland, Ohio. 432,366, can. Cl. 6.  
 Continental Motors Corp., Muskegon, Mich. 610,615, pub. 5-24-55. Cl. 23.  
 Corbin, Ltd., New York, N. Y. 610,767, pub. 5-17-55. Cl. 39.  
 Coru-Ply Corp., North Augusta, Ga. 610,532, pub. 2-8-55. Cl. 12.  
 Crescent Watch Case Co., Newark, N. J. 22,382, can. Cl. 27.  
 Crime Detective, Inc., New York, N. Y. 378,955, can. Cl. 38.  
 Cripe Electric & Machine Co.: See—  
 Cripe, Owen C.  
 Cripe, Owen C., d. b. a. Cripe Electric & Machine Co., Walton, Ind. 610,554, pub. 5-10-55. Cl. 13.  
 Croninger, Arthur G., d. b. a. The Bookmate Co., Miami, Okla. 610,616, pub. 5-24-55. Cl. 23.  
 Crystal, David, Inc., New York, N. Y. 610,766, pub. 5-17-55. Cl. 39.  
 Cudahy Packing Co., The, Chicago, Ill. 610,830, pub. 9-13-49. Cl. 52.  
 Cummins Engine Co., Inc., Columbus, Ind. 507,460, can. Cl. 38.  
 Cunningham, M. E., Co., Pittsburgh, Pa. 610,619-20, pub. 5-17-55. Cl. 23.  
 Curdloc Food Co., Waukesha, Wis. 145,646, can. Cl. 46.  
 Curtis, Helene, Industries, Inc., Chicago, Ill. 610,822, pub. 5-10-55. Cl. 51.  
 Cutler, Hazel, Muncie, Ind. 610,526, pub. 5-3-55. Cl. 6.  
 D. D. D. Corp., to Campana Corp., Batavia, Ill. 329,243, ren. 10-22-55. Cl. 18.  
 Dailuaine-Talsker Distilleries Ltd., Carron, Scotland. 368,375, can. Cl. 49.  
 Daily Review Corp., Rockville Center, N. Y. 234,292, can. Cl. 38.  
 Daily Review Corp., Rockville Center, N. Y. 332,563, can. Cl. 38.  
 Dalton of America, Inc., Cleveland, Ohio. 610,768, pub. 4-17-55. Cl. 39.  
 D'Arrigo Bros. Co. of California: See—  
 Sheehy & Cumming.  
 Davies Supply & Mfg. Co., St. Louis, Mo. 610,850. Cl. 21.  
 Davis, Charles G., d. b. a. Davis Service Co., Oakland, Calif. 610,513, pub. 5-10-55. Cl. 1.  
 Davis Service Co.: See—  
 Davis, Charles G.  
 Debliste Co., The: See—  
 Wexler, Mark.  
 Denison Engineering Co., The, Columbus, Ohio. 610,540, pub. 5-10-55. Cl. 13.  
 Dennison Mfg. Co., Framingham, Mass. 610,856. Cl. 37.  
 Desley Fabrics, Division of J. H. Thorp & Co., Inc., New York, N. Y. 610,783, pub. 5-17-55. Cl. 42.  
 Detroit-Michigan Stove Co., Detroit, Mich., now by merger, consolidation and change of name to Weibilt Corp. 610,701, pub. 5-10-55. Cl. 34.  
 Diack, Arthur G., Los Angeles, Calif. 610,848. Cl. 13.  
 Die Engineering Co., New York, N. Y. 610,536, pub. 4-26-55. Cl. 13.  
 Di-Noc Co., The, Cleveland, Ohio. 610,655-7, pub. 5-17-55. Cl. 26.  
 Dishmald, Inc., Cleveland, Ohio. 610,611, pub. 5-24-55. Cl. 23.  
 Di Tucci, Salvatore J., d. b. a. Embassy Rug and Upholstery Cleaning Co., Somerville, Mass. 610,837, pub. 5-17-55. Cl. 52.  
 DoAll Co., The, Des Plaines, Ill. 610,668, pub. 5-31-55. Cl. 26.  
 Dobkin, Israel, d. b. a. Acme Chemical Co., by Allied Block Chemical Co., Pittsburgh, Pa. 443,192, 12(c) pub. 8-16-55. Cl. 13.  
 Dodge Mfg. Corp., Mishawaka, Ind. 610,648, pub. 5-17-55. Cl. 23.  
 Dole Refrigerating Co., Chicago, Ill. 610,682, pub. 5-17-55. Cl. 31.  
 Donohue Directories, Inc., Chicago, Ill. 610,719, pub. 5-17-55. Cl. 38.  
 Double-Thrift Stamp Co.: See—  
 Robinson, U. S.  
 Drambule Liqueur Co. (1927) Ltd., The, Edinburgh, Scotland. 335,823, can. Cl. 49.  
 Dreher, Monroe F., New York, N. Y. 610,828, pub. 5-10-55. Cl. 51.  
 Drexel Furniture Co., Drexel, N. C. 507,486-90, can. Cl. 32.  
 Du Boff and Co.: See—  
 Du Boff, Philip L.  
 Du Boff, Philip L., d. b. a. Du Boff and Co., New York, N. Y. 610,539, pub. 5-10-55. Cl. 13.  
 Dunton, M. W., Co., The, Providence, R. I. 610,561, pub. 5-10-55. Cl. 14.  
 Duplex Product Co., The: See—  
 Duplex Products Co., Inc.  
 Duplex Products Co., Inc., d. b. a. The Duplex Products Co., and Duplex Products Corp., West Lynn, Mass. 610,687, pub. 5-17-55. Cl. 32.  
 Duplex Products Corp.: See—  
 Duplex Products Co., Inc.

Duro-Test Corp., North Bergen, N. J. 610,579, pub. 7-6-54. Cl. 21.  
 Dynacolor Corp., Albion, N. Y. 610,661, pub. 5-17-55. Cl. 26.  
 Dyson, Jos., & Sons, Inc., Cleveland, Ohio. 610,559, pub. 5-17-55. Cl. 14.  
 Eastern Gas and Fuel Associates, Boston, Mass. 610,568, pub. 5-17-55. Cl. 15.  
 Eastern Seed Co., by Eastern Seed Co., Ltd., Corpus Christi, Tex. 330,558, 12(c) pub. 8-16-55. Cl. 1.  
 Eastern Seed Co., Ltd.: See—  
 Eastern Seed Co.  
 Educational Printing House, Inc., The, Columbus, Ohio. 507,485, can. Cl. 38.  
 Elastic Stop Nut Corp. of America, Union, N. J. 610,556, pub. 5-10-55. Cl. 13.  
 Electrovector Inc., Brooklyn, N. Y. 610,596, pub. 5-17-55. Cl. 21.  
 Elm Sales Co., Inc., New Haven, Conn. 610,800, pub. 11-16-54. Cl. 46.  
 Embassy Rug and Upholstery Cleaning Co.: See—  
 Di Tucci, Salvatore J.  
 Emkay Chemical Co., Elizabeth, N. J. 610,527-8, pub. 5-3-55. Cl. 6.  
 Empire Brush Works, Inc., Port Chester, N. Y. 507,466, can. Cl. 29.  
 Empire Shield Co., Inc., New York, N. Y. 610,734, pub. 5-17-55. Cl. 39.  
 Enger-Kress Co., West Bend, Wis. 507,454, can. Cl. 3.  
 Enro Shirt Co., Inc., The, Louisville, Ky. 253,951, can. Cl. 39.  
 Enro Shirt Co., Inc., The, Louisville, Ky. 329,482, ren. 10-29-55. Cl. 39.  
 Erving Paper Mills, Erving, Mass. 610,707, pub. 5-17-55. Cl. 37.  
 Erwin Mills, Inc., Durham, N. C. 610,781, pub. 5-17-55. Cl. 42.  
 Esmond Mills, The, Esmond, R. I. 148,012, can. Cl. 42.  
 Esmond Mills, The, Esmond, Smithfield, R. I. 202,517, can. Cl. 42.  
 Esmond Mills, The, Esmond, Smithfield, R. I. 225,546, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 328,877, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 355,445, can. Cl. 42.  
 Esmond Mills, New York, N. Y. 361,424, can. Cl. 42.  
 Esmond Mills, The, New York, N. Y. 365,422, can. Cl. 42.  
 Esmond Mills, The, Esmond, R. I. 372,000, can. Cl. 42.  
 Esmond Mills, Inc., The, Esmond, R. I. 385,059, can. Cl. 42.  
 Esmond Mills, Inc., The, Esmond, R. I. 395,836, can. Cl. 42.  
 Evans Products Co., Plymouth, Mich. 610,597, pub. 5-10-55. Cl. 21.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 610,713, pub. 5-17-55. Cl. 37.  
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 Hydragrip Corp., Houston, Tex. 610,613, pub. 5-17-55. Cl. 23.  
 Ilford, Ltd., Ilford, England. 305,002, 12(c) pub. 8-16-55. Cl. 26.  
 Illinois Gear & Machine Co., Chicago, Ill. 610,632, pub. 5-24-55. Cl. 23.

Indian Head Mills, Inc.: See—  
 Jackson Co.  
 Industrial Metal Products Corp., Lansing, Mich. 610,614, pub. 5-24-55. Cl. 23.  
 Industrial Optical Co., Jacksonville, Fla. 610,665, pub. 5-17-55. Cl. 26.  
 Indico Inc., Tucson, Ariz. 610,644, pub. 5-24-55. Cl. 23.  
 Insemikit Co., Inc., Baraboo, Wis. 610,791, pub. 5-10-55. Cl. 44.  
 International Braid Co., Providence, R. I. 412,140, can. Cl. 40.  
 International Braid Co., Providence, R. I. 415,221, can. Cl. 7.  
 International Braid Co., Providence, R. I. 420,241, can. Cl. 40.  
 International Braid Co., Providence, R. I. 424,221, can. Cl. 34.  
 International Braid Co., Providence, R. I. 425,977, can. Cl. 40.  
 International Cellulose Products Co., Chicago, Ill. 327,633, ren. 9-3-55. Cl. 37.  
 International Harvester Co.: See—  
 International Harvester Co. of New Jersey.  
 International Harvester Co. of New Jersey, to International Harvester Co., Chicago, Ill. 106,973, ren. 11-9-55. Cl. 7.  
 International Harvester Co. of New Jersey, to International Harvester Co., Chicago, Ill. 106,975, ren. 11-9-55. Cl. 7.  
 International Silver Co., to The International Silver Co., Meriden, Conn. 329,755, ren. 11-12-55. Cl. 28.  
 International Silver Co., The: See—  
 International Silver Co.  
 International Union of United Brewery and Soft Drink Workers of America, Cincinnati, Ohio. 370,876, can. Cl. 48.  
 International Union of United Brewery and Soft Drink Workers of America, Cincinnati, Ohio. 370,877, can. Cl. 45.  
 Jackson Co., Nashua, N. H., to Indian Head Mills, Inc., New York, N. Y. 105,539, ren. 8-3-55. Cl. 42.  
 Jackson, W. L., Mfg. Co., Inc., Chattanooga, Tenn. 610,697, pub. 5-17-55. Cl. 34.  
 James Industries, Inc.: See—  
 James, Richard T.  
 James, Richard T., Brookline, to James Industries, Inc., by James Industries, Inc., Paoli, Pa. 427,951, 12(c) pub. 8-16-55. Cl. 22.  
 James Art Studios, Inc., Rochester, N. Y. 423,010, can. Cl. 38.  
 Jennings, Gene, and Co., Stockton, Calif. 610,808, pub. 5-10-55. Cl. 46.  
 Jester Co. Ltd., The, Leicester, England. 507,391, can. Cl. 43.  
 Johnson & Johnson, New Brunswick, N. J. 610,676, pub. 5-17-55. Cl. 29.  
 Johnson Mfg. Co.: See—  
 Johnson, Robert C., Jr.  
 Johnson, Robert C., Jr., d. b. a. Johnson Mfg. Co., Lubbock, Tex. 610,853. Cl. 23.  
 Johnston Lawn Mower Corp., Ottumwa, Iowa. 610,617, pub. 5-17-55. Cl. 23.  
 K. & C. Metal Products Co., Inc., Brooklyn, N. Y. 610,684, pub. 5-17-55. Cl. 32.  
 Kahn, David, Inc., North Bergen, N. J. 610,711, pub. 5-17-55. Cl. 37.  
 Kaufmann & Co., Inc., Richmond, Va. 383,193, can. Cl. 39.  
 Kay Electric Co., Pine Brook, N. J. 610,708, pub. 5-17-55. Cl. 37.  
 Kehoe Preserving Co., Clay City, Ind. 124,313, can. Cl. 46.  
 Kelmar Corp., Milwaukee, Wis. 426,954, can. Cl. 22.  
 Kennedy, Samuel F., d. b. a. Tri-County Mfg. Co., Taylorville, Ill. 610,852. Cl. 23.  
 Key Corp. of America, Belleville, N. J. 610,849. Cl. 13.  
 Klekhafer Corp., Cedarburg, Wis. 610,607, pub. 11-27-51. Cl. 23.  
 Klineear Mfg. Co., The, Columbus, Ohio. 327,278, ren. 8-20-55. Cl. 12.  
 Kinney, E. C., Printing Co., Chicago, Ill. 610,712, pub. 5-17-55. Cl. 37.  
 Kirby, Beard & Co. Ltd., Birmingham, England. 507,441, can. Cl. 40.  
 Kirsch Co., Sturgis, Mich. 610,774, pub. 5-3-55. Cl. 40.  
 Koch Chemical Co., Winona, Minn. 414,139, can. Cl. 4.  
 Kohnstamm, V. & E., Inc., New York, N. Y. 610,794, pub. 5-17-55. Cl. 45.  
 Kolker, Jean, St. Louis, Mo. 610,521, pub. 5-17-55. Cl. 3.  
 Kress, S. H., and Co., New York, N. Y. 322,479, 12(c) pub. 8-16-55. Cl. 29.  
 Kress, S. H., and Co., New York, N. Y. 610,718, pub. 5-17-55. Cl. 37.  
 Kupferle, John C., Foundry Co., St. Louis, Mo. 610,552, pub. 4-26-55. Cl. 13.  
 Lady Marlene Brassiere Corp., New York, N. Y. 610,765, pub. 5-17-55. Cl. 39.  
 Laganas, Chris, Shoe Co., Lowell, Mass. 610,762, pub. 5-17-55. Cl. 39.  
 Lancaster Lens Co., The, Lancaster, Ohio. 610,691, pub. 5-17-55. Cl. 33.  
 Latin American Trading Co.: See—  
 Bar, Charles E.  
 Lawton, D. H., Newport News, Va. 610,688, pub. 5-17-55. Cl. 32.  
 Leavitt, L. J., d. b. a. L. J. Leavitt Produce Co., Burley, Idaho. 610,796, pub. 5-17-55. Cl. 46.  
 Leavitt, L. J., Produce Co.: See—  
 Leavitt, L. J.  
 Lehn & Fink Products Corp., Bloomfield, N. J. 414,160, can. Cl. 6.  
 Lehn & Fink Products Corp., Bloomfield, N. J. 417,540, can. Cl. 6.



Lehn & Fink Products Corp., from H. H. Tanner Co., Bloomfield, N. J. 507,491, can. Cl. 40.  
 Leifer Mfg. Corp., New York, N. Y. 610,732, pub. 5-17-55. Cl. 39.  
 Lever Brothers Co.: See—  
 Standard Laboratories, Inc.  
 Levine, Louis, Toronto, Ontario, Canada. 610,581, pub. 5-10-55. Cl. 21.  
 Libbey-Owens-Ford Glass Co., Toledo, Ohio. 353,491, can. Cl. 12.  
 Linbarb, Ltd., Brooklyn, N. Y. 610,826, pub. 5-10-55. Cl. 51.  
 Lionel, Seattle, Wash. 507,424, can. Cl. 38.  
 Lipton, Thomas J., Inc., Hoboken, N. J. 610,810, pub. 5-10-55. Cl. 46.  
 Local Sales Agency, The, East Meadow, L. I., N. Y. 610,861. Cl. 41.  
 Londontown Mfg. Co., The, Baltimore, Md. 610,736, pub. 5-17-55. Cl. 39.  
 Lone Star Steel Co., Dallas, Tex. 610,555, pub. 5-10-55. Cl. 13.  
 Ludlow-Saylor Wire Cloth Co., St. Louis, Mo. 610,541, pub. 8-17-54. Cl. 13.  
 Lukens Mfg. Co., Philadelphia, Pa. 610,685, pub. 5-17-55. Cl. 32.  
 Lustberg, Nast & Co., Inc., New York, N. Y. 610,758, pub. 5-17-55. Cl. 39.  
 Lyons, Edward W., Youngstown, Ohio. 610,855. Cl. 34.  
 Madsen Iron Works, Inc., Lamlira, Calif. 607,932, cor. Cl. 23.  
 Malloran Corp., The, Los Angeles, Calif. 610,814, pub. 5-10-55. Cl. 50.  
 Manchester Hosiery Mills, Manchester, N. H. 610,755, pub. 5-17-55. Cl. 39.  
 Manson: See—  
 Manson, Alexander.  
 Manson, Alexander, d. b. a. Manson, Chicago, by Joe C. Bode, Jr., Aurora, Ill. 406,065, 12(c) pub. 8-16-55. Cl. 51.  
 Martin-Perry Corp., Toledo, Ohio. 610,593, pub. 5-17-55. Cl. 21.  
 Marvel Plastic Products, Chicago, Ill. 610,677, pub. 4-26-55. Cl. 29.  
 Master Sunday Bulletin Club, Chicago, Ill. 610,714, pub. 5-17-55. Cl. 37.  
 Mathieson Chemical Corp., New York, N. Y., now by merger and change of name Olin Mathieson Chemical Corp. 610,577, pub. 4-19-55. Cl. 18.  
 Mauz & Pfeiffer, Stuttgart-Botnang, Germany. 326,588, ren. 7-30-55. Cl. 21.  
 Mayers, L. & Co., Inc., New York, N. Y. 610,522, pub. 5-24-55. Cl. 3.  
 McConnon and Co., Winona, Minn. 416,354, can. Cl. 6.  
 McCoo, William R., Co., Inc.: See—  
 Stansfeld, Arthur V.  
 McDaniel, Rex, San Luis Rey Valley, Calif. 422,234, can. Cl. 46.  
 McKay, David, Co., Philadelphia, Pa. 357,515, can. Cl. 38.  
 McKay, David, Co., Philadelphia, Pa. 372,403, can. Cl. 38.  
 McKay, David, Co., Philadelphia, Pa. 382,535, can. Cl. 38.  
 McKay, John A., Mfg. Co., Inc., The, Dunn, N. C. 610,641, pub. 5-24-55. Cl. 23.  
 McKesson & Robbins, Inc., New York, N. Y. 328,463, ren. 10-1-55. Cl. 46.  
 Mechanical Handling Systems, Inc., Detroit, Mich. 610,636, pub. 5-24-55. Cl. 23.  
 Medal Mfg. Co., Sharon, Pa. 610,601, pub. 5-17-55. Cl. 21.  
 Melendi, Jose: See—  
 Melendi, Joseph.  
 Melendi, Joseph, d. b. a. Jose Melendi, New York, N. Y. 610,576, pub. 5-17-55. Cl. 17.  
 Melnor Metal Products Co., Inc., Long Island City, N. Y. 610,549, pub. 4-26-55. Cl. 13.  
 Mennen Co., The, Morristown, N. J. 610,831, pub. 9-21-54. Cl. 52.  
 Miami Margarine Co., The, Cincinnati, Ohio. 436,187, can. Cl. 46.  
 Micliche, Frank, Brooklyn, N. Y. 610,516, pub. 5-17-55. Cl. 2.  
 Mikewell, D. W., Inc., Dayton, Ohio. 507,357, can. Cl. 46.  
 Milbening, J., Inc., Chicago, Ill. 113,280, can. Cl. 8 and 28.  
 Mil-Hi Laboratories, Inc., d. b. a. Minlt-Dri, New York, N. Y. 610,829, pub. 5-10-55. Cl. 51.  
 Miller Shoe Co., The, Cincinnati, Ohio. 610,738, pub. 5-17-55. Cl. 39.  
 Mills, J. Calvin, Miami Shores, Fla. 610,858. Cl. 38.  
 Minlt-Dri: See—  
 Mil-Hi Laboratories, Inc.  
 Mishawaka Rubber and Woolen Mfg. Co.: See—  
 Mishawaka Woolen Mfg. Co.  
 Mishawaka Woolen Mfg. Co., to Mishawaka Rubber and Woolen Mfg. Co., Mishawaka, Ind. 106,654, ren. 10-26-55. Cl. 39.  
 Mitten, Frank P., Redlands, Calif. 610,821, pub. 5-10-55. Cl. 50.  
 Monk, C. O., of Maryland, Inc., Baltimore, Md. 610,531, pub. 5-24-55. Cl. 11.  
 Montague, Joseph F., New York, N. Y. 329,150, ren. 10-15-55. Cl. 38.  
 Monterey Undergarment Co., Inc., New York, N. Y. 610,763, pub. 5-17-55. Cl. 39.  
 Moore, E. R., Co., Chicago, Ill. 424,937, can. Cl. 39.  
 Moore, Fred H., d. b. a. Hilltop Laboratories, Minneapolis, Minn. 413,251, can. Cl. 6.  
 Moore & Munger, New York, N. Y. 610,571, pub. 5-24-55. Cl. 15.  
 Morganton Furniture Co., Morganton, N. C. 507,484, can. Cl. 32.  
 Morgillo, Constantine A., Toledo, Ohio. 610,588, pub. 5-10-55. Cl. 21.  
 Morrison Milling Co., The, Denton, Tex. 610,801, pub. 5-17-55. Cl. 46.  
 Mosher, Fred D., d. b. a. Techno Co., Erie, Pa. 610,542, pub. 5-10-55. Cl. 13.  
 Motor Master Products Corp., Defiance, Ohio. 610,599, pub. 5-17-55. Cl. 21.  
 Mueller, L. J., Furnace Co., Milwaukee, Wis. 507,496, can. Cl. 34.  
 N. D. Publications, Inc.: See—  
 Students' Magazines Inc.  
 N. V. Batafische Rubber Industrie, Maastricht, Netherlands. 610,815, pub. 5-10-55. Cl. 50.  
 Nassau Daily Star Corp., Lynbrook, N. Y. 332,561, can. Cl. 38.  
 National Lift Co., Wayne, Mich. 610,650, pub. 5-17-55. Cl. 23.  
 National Pneumatic Co., Inc., Boston, Mass. 610,551, pub. 5-10-55. Cl. 13.  
 Natural Form Brassiere Co.: See—  
 Cerrato, John.  
 Nelsner Brothers, Inc., Rochester, N. Y. 610,760, pub. 5-17-55. Cl. 39.  
 Nelson Electric Mfg. Co., Tulsa, Okla. 610,602, pub. 5-17-55. Cl. 21.  
 Neuman, Abraham: See—  
 Schoonmaker, Frederick W.  
 Neumode Hosiery Co., Chicago, Ill. 610,739-40, pub. 5-17-55. Cl. 39.  
 Newbro Co.: See—  
 Newbro Mfg. Co.  
 Newbro Mfg. Co., d. b. a. Newbro Co., Atlanta, Ga. 610,824, pub. 5-10-55. Cl. 51.  
 New England Coke Co., Boston, Mass. 329,467, ren. 10-29-55. Cl. 1.  
 New Martinsville Glass Co., New Martinsville, W. Va., now by change of name Viking Glass Co. 410,466, can. Cl. 32.  
 New Martinsville Glass Co., New Martinsville, W. Va., now by change of name Viking Glass Co. 412,103, can. Cl. 8 and 34.  
 New York Knitting Mills, Inc., New York, N. Y. 326,209, ren. 7-16-55. Cl. 39.  
 New York Knitting Mills, Inc., New York, N. Y. 326,961, ren. 8-13-55. Cl. 43.  
 New York Knitting Mills, Inc., New York, N. Y. 326,963, ren. 8-13-55. Cl. 42.  
 Niles-Bement-Pond Co., West Hartford, Conn. 610,642, pub. 5-24-55. Cl. 23.  
 Nivada S. A., Grenchen, Switzerland. 610,669, pub. 5-17-55. Cl. 27.  
 Noland, Harry L., and Virgil T. Norris, trustees of the estate of Reuben W. Farley (deceased), d. b. a. Farley Fruit Co., Salinas, Calif. 610,804, pub. 5-10-55. Cl. 46.  
 Norma-Hoffmann Bearings Corp., Stamford, Conn. 318,544, 12(c) pub. 8-16-55. Cl. 23.  
 Norris Virgil T.: See—  
 Noland, Harry L., and Norris.  
 Northern Engraving Co., La Crosse, Wis. 200,910, can. Cl. 26.  
 Nuclear Instrument and Chemical Corp., Chicago, Ill. 610,667, pub. 5-17-55. Cl. 26.  
 Nukraft Mfg. Co., Inc., Shelbyville, Ind. 610,683, pub. 5-17-55. Cl. 32.  
 Oakes & Co., Chicago, Ill. 434,743, can. Cl. 21.  
 Oakes & Co., Chicago, Ill. 507,344, can. Cl. 9.  
 Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. 610,819, pub. 5-17-55. Cl. 50.  
 Oaks Irrigation Mfg. Co., Pharr, Tex. 610,548, pub. 4-26-55. Cl. 15.  
 Olin Mathieson Chemical Corp.: See—  
 Mathieson Chemical Corp.  
 Olmsted-Kirk Co., Dallas, Tex. 610,715, pub. 5-17-55. Cl. 37.  
 Olson, C. Le Roy, by Le Roy Olson Co., San Francisco, Calif. 261,900, 12(c) pub. 8-16-55. Cl. 12.  
 Olson, Le Roy Co.: See—  
 Olson, C. Le Roy.  
 Omaha Cold Storage Co., d. b. a. Bellevue Creamery and Produce Co., Omaha, Nebr. 610,809, pub. 5-10-55. Cl. 46.  
 Opinion Research Corp., Princeton, N. J. 507,440, can. Cl. 38.  
 Orange Belt Fruit Distributors, Pomona, Calif. 419,378, can. Cl. 46.  
 Orange Belt Fruit Distributors, Pomona, Calif. 421,953, can. Cl. 46.  
 Oregon Saw Chain Corp., Portland, Oreg. 610,631, pub. 5-24-55. Cl. 23.  
 Osborn, C. D., Co., Chicago, Ill. 377,718, can. Cl. 39.  
 P-G Products Mfg. Co., Inc.: See—  
 P and G Supply Co., Inc.  
 P and G Supply Co., Inc., Bronx, N. Y., now by change of name P-G Products Mfg. Co., Inc. 610,537, pub. 9-15-53. Cl. 13.  
 Page, I. C., & Co., Inc., Boston, Mass. 59,826, can. Cl. 38.  
 Pagewriter Pen Co., The: See—  
 Williams, John B.  
 Panelink Fence Co., Phoenix, Ariz. 610,547, pub. 5-3-55. Cl. 13.  
 Paramount Photo Service, d. b. a. Fox Fotos, Ridgefield, N. J. 507,465, can. Cl. 38.  
 Parker Bros., New York, N. Y. 507,380, can. Cl. 40.  
 Paulsen-Webber Cordage Corp., New York, N. Y. 610,529, pub. 5-25-54. Cl. 7.  
 Peck, George (Leicester) Ltd., Leicester, England. 361,563, can. Cl. 39.  
 Peerless Corp.: See—  
 Peerless Electric, Inc.  
 Peerless Electric, Inc., New York, N. Y., now by change of name The Peerless Corp. 610,590, pub. 5-3-55. Cl. 21.  
 Peerless Umbrella Co., Inc., New York, N. Y. 507,447, can. Cl. 41.  
 Pendleton Woolen Mills, Portland, Oreg. 610,735, pub. 5-17-55. Cl. 39.

Pennzoll Co., The, Los Angeles, Calif. 385,012, 12(c) pub. 8-16-55. Cl. 4.  
 Perfect Plus Hosiery Mills, Inc., Chicago, Ill. 610,756, pub. 5-17-55. Cl. 39.  
 Perfecting Service Co., Charlotte, N. C. 610,534, pub. 4-26-55. Cl. 13.  
 Perkins, Dan, Co., Memphis, Tenn. 507,495, can. Cl. 6.  
 Perkins Theatre Supply Co., Inc., Buffalo, N. Y. 610,653, pub. 5-17-55. Cl. 26.  
 Philadelphia Textile Finishers, Inc., Norristown, Pa. 610,813, pub. 5-17-55. Cl. 50.  
 Philadelphia Watch Case Co., Riverside, N. J. 45,402, can. Cl. 27.  
 Philadelphia Watch Case Co., Riverside, N. J. 45,406, can. Cl. 27.  
 Phoenix Mfg. Co., The, Baltimore, Md. 610,731, pub. 5-17-55. Cl. 39.  
 Pioneer Rubber Co., The, Willard, Ohio. 356,550, 12(c) pub. 8-16-55. Cl. 22.  
 Pioneer Rubber Co., The, Willard, Ohio. 357,450, 12(c) pub. 8-16-55. Cl. 39.  
 Pioneer Rubber Co., The, Willard, Ohio. 390,785, 12(c) pub. 8-16-55. Cl. 39.  
 Pioneer Rubber Co., The, Willard, Ohio. 398,688, 12(c) pub. 8-16-55. Cl. 44.  
 Plee-Zing, Inc., Chicago, Ill. 387,669, can. Cl. 4.  
 Plee-Zing, Inc., Chicago, Ill. 398,807, can. Cl. 4.  
 Plochman & Harrison, by Plochman & Harrison (1954), Chicago, Ill. 314,481, 12(c) pub. 8-16-55. Cl. 46.  
 Plochman & Harrison, by Plochman & Harrison (1954), Chicago, Ill. 319,069, 12(c) pub. 8-16-55. Cl. 46.  
 Plochman & Harrison (1954): See—  
 Plochman & Harrison.  
 Plume & Atwood Mfg. Co., The, Waterbury, Conn. 610,566, pub. 5-17-55. Cl. 14.  
 Pneumatic Scale Corp., Ltd., Quincy, Mass. 610,622-3, pub. 5-24-55. Cl. 23.  
 Pocahontas Fuel Co., Inc., New York, N. Y. 232,348, can. Cl. 1.  
 Pocahontas Fuel Co., Inc., New York, N. Y. 334,269, can. Cl. 34.  
 Pollack, Max, & Co., Inc., New York, N. Y. 507,448, can. Cl. 43.  
 Pollak, Henry, Inc., New York, N. Y. 507,390, can. Cl. 40.  
 Polaron Products, Inc., New Rochelle, N. Y. 610,520, pub. 5-10-55. Cl. 2.  
 Popular Brands, Inc., Cleveland, Ohio. 610,839, pub. 5-17-55. Cl. 101.  
 Popular Mechanics Co., Chicago, Ill. 344,026, can. Cl. 38.  
 Popular Mechanics Co., Chicago, Ill. 385,396, can. Cl. 38.  
 Porter, H. K., Inc., Somerville, Mass. 610,633, pub. 5-17-55. Cl. 23.  
 Precision Steel Warehouse, Inc., Chicago, Ill. 610,565, pub. 5-17-55. Cl. 14.  
 Prior Products, Inc., Dallas, Tex. 610,578, pub. 11-30-54. Cl. 19.  
 Pure Spring Co. Ltd., Ottawa, Ontario, Canada. 610,793, pub. 5-17-55. Cl. 45.  
 Quance, Albert J., San Francisco, Calif. 610,807, pub. 5-10-55. Cl. 46.  
 RCS Tool Sales Corp., Joliet, Ill. 610,640, pub. 5-24-55. Cl. 23.  
 Rapids-Standard Co., Inc., The, Grand Rapids, Mich. 422,182, can. Cl. 23.  
 Rapids-Standard Co., Inc., The, Grand Rapids, Mich. 434,802, can. Cl. 19.  
 Realemon-Puritan Co., Chicago, Ill. 610,805, pub. 5-10-55. Cl. 46.  
 Reflector-Hardware Corp., Chicago, Ill. 610,550, pub. 5-10-55. Cl. 13.  
 Regal Press, Inc., Chicago, Ill. 338,059, can. Cl. 38.  
 Rice & Breakin, New York, N. Y. 507,476, can. Cl. 39.  
 Richardson Co., The, Melrose Park, Ill. 610,594, pub. 5-17-55. Cl. 21.  
 Richfield Oil Corp., Los Angeles, Calif. 610,567, pub. 5-17-55. Cl. 15.  
 Rico Leather Specialty Inc., Chicago, Ill. 507,416, can. Cl. 3.  
 Riggle Tobacco Corp., Brightwaters, N. Y. 369,300, 12(c) pub. 8-16-55. Cl. 17.  
 Riggle Tobacco Corp., Brightwaters, N. Y. 401,270, 12(c) pub. 8-16-55. Cl. 17.  
 Riverside Metal Co., The, Riverside, N. J. 335,063, can. Cl. 14.  
 Riverside Metal Co., The, Riverside, N. J. 414,305, can. Cl. 14.  
 Robertson Photo-Mechanix, Inc., Chicago, Ill. 610,654, pub. 5-17-55. Cl. 26.  
 Robinson, U. S., d. b. a. Double-Thrift Stamp Co., Lubbock, Tex. 610,720, pub. 5-17-55. Cl. 38.  
 Roggen Bros. & Co., Inc., New York, N. Y. 242,848, can. Cl. 39.  
 Rotron Mfg. Co., Inc., Woodstock, N. Y. 610,595, pub. 5-10-55. Cl. 21.  
 Rowley, A., Tool & Engineering Co.: See—  
 Rowley, Arthur.  
 Rowley, Arthur, d. b. a. A. Rowley Tool & Engineering Co., Green Lake, Wis. 601,702, pub. 5-17-55. Cl. 34.  
 Royal Confectionery Co., Boston, Mass. 444,128, 12(c) pub. 8-16-55. Cl. 46.  
 Royal Master, Inc.: See—  
 Royal Master Metal Products Co.  
 Royal Master Metal Products Co., to Royal Master, Inc., Riverdale, N. J. 610,612, pub. 5-17-55. Cl. 23.  
 Royal Pharmaceutical Corp.: See—  
 Strong & Cobb Co., The.  
 Russell Products Co., Oklahoma City, Okla. 399,215, can. Cl. 46.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. 381,252, can. Cl. 14.  
 Sandlot Sports Association, Inc., Philadelphia, Pa. 507,434, can. Cl. 38.  
 Santa Cruz Fruit Packing Co., Oakland, Calif., to Stokeley-Van Camp, Inc., Indianapolis, Ind. 324,043, ren. 5-7-55. Cl. 46.  
 Savary, René P. M., Paris, France. 610,693, pub. 5-17-55. Cl. 35.  
 Schilling, Paul, Frankfurt am Main, Germany. 610,798, pub. 5-17-55. Cl. 46.  
 Schoeneman, J., Inc., Baltimore, Md. 610,757, pub. 5-17-55. Cl. 39.  
 Schoenfeld & Wolf, Inc., New York, N. Y. 507,493, can. Cl. 3.  
 Schoonmaker, Frederick W., to Schoonmaker Laboratories, Inc., New York, N. Y., to A. Neuman, Union City, N. J. 104,888, ren. 6-22-55. Cl. 18.  
 Schoonmaker Laboratories, Inc.: See—  
 Schoonmaker, Frederick W.  
 Schuler, Loring: See—  
 Scott, Vernon, and Schuler.  
 Schultz, Jack, Inc., St. Louis, Mo. 610,725, pub. 5-17-55. Cl. 39.  
 Science Digest, Inc., Chicago, Ill. 507,511, can. Cl. 38.  
 Scott Paper Co., Chester, Pa. 610,709, pub. 4-12-55. Cl. 37.  
 Scott, Vernon, and Loring Schuler, San Francisco, Calif., and Chicago, Ill. 507,474, can. Cl. 38.  
 Sculpture Currier Co., Inc., The, Berkeley, Calif. 507,403, can. Cl. 40.  
 Sears, Roebuck and Co., Chicago, Ill. 610,673, pub. 5-17-55. Cl. 27.  
 Sears, Roebuck and Co., Chicago, Ill. 610,699, pub. 5-17-55. Cl. 34.  
 Sears, Roebuck and Co., Chicago, Ill. 610,742, pub. 5-17-55. Cl. 39.  
 Seitz, Pierre, Les Brenets, Switzerland. 610,672, pub. 5-17-55. Cl. 27.  
 Selmer, H. & A., Inc., Elkhart, Ind. 610,703, pub. 4-5-55. Cl. 36.  
 Shawnee Pottery Co., Zanesville, Ohio. 507,342, can. Cl. 40.  
 Sheehy & Cumming, Watsonville, by D'Arrigo Bros. Co. of California, San Jose, Calif. 269,287, 12(c) pub. 8-16-55. Cl. 46.  
 Shenango Pottery Co., New Castle, Pa. 610,679, pub. 5-17-55. Cl. 30.  
 Shepard, Geo. A., & Sons Co., The, Bethel, Conn. 610,840. Cl. 1.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 193,498, can. Cl. 6.  
 Sherwin-Williams Co., The, Cleveland, Ohio. 260,324, can. Cl. 6.  
 Shoe Corp. of America, Columbus, Ohio. 610,748, pub. 5-17-55. Cl. 39.  
 Sibley, Edw. L., Mfg. Co., Inc., Bennington, Vt. 610,629-30, pub. 5-24-55. Cl. 23.  
 Sidalis, Inc., New York, N. Y. 610,764, pub. 5-17-55. Cl. 39.  
 Sierra Engineering Co., Sierra Madre, Calif. 610,666, pub. 5-17-55. Cl. 26.  
 Simpson, Wm., Sons & Co., Philadelphia, Pa. 244,259, can. Cl. 42.  
 Smith, Alexander, Inc., White Plains, N. Y. 610,775, pub. 5-17-55. Cl. 42.  
 Smith Tool & Engineering Co.: See—  
 Smith, V. Edward.  
 Smith, V. Edward, d. b. a. Smith Tool & Engineering Co., Yucaipa, Calif. 610,525, pub. 5-3-55. Cl. 6.  
 Solar Mfg. Corp., Vernon, Calif. 610,587, pub. 5-17-55. Cl. 21.  
 Sonneborn, L., Sons, Inc., New York, N. Y. 420,575, 12(c) pub. 8-16-55. Cl. 52.  
 Southern Biscuit Co., Inc., by Weston Biscuit Co., Richmond, Va. 442,503, 12(c) pub. 8-16-55. Cl. 46.  
 Southwest Steel Rolling Mills, Los Angeles, Calif. 610,845. Cl. 13.  
 Spinnerlin Yarn Co., Inc., South Hackensack, N. J. 507,442, can. Cl. 43.  
 Springport Steel Products Co., Springport, Mich. 610,518, pub. 5-10-55. Cl. 2.  
 Spurgeon Hosiery Corp., Philadelphia, Pa. 610,730, pub. 5-17-55. Cl. 39.  
 Stain-Ox Co., to Stain-Ox Co., Inc., Roselle, N. J. 324,526, ren. 5-21-55. Cl. 4.  
 Stain-Ox Co., Inc.: See—  
 Stain-Ox Co.  
 Standard Laboratories, Inc., New York, N. Y., to Lever Brothers Co., Cambridge, Mass. 507,418, can. Cl. 38.  
 Stanley Home Products, Inc., Westfield, Mass. 610,678, pub. 5-17-55. Cl. 29.  
 Stansfeld, A. V., & Co.: See—  
 Stansfeld, Arthur V.  
 Stansfeld, Arthur V., d. b. a. A. V. Stansfeld & Co., to William R. McCoo Co., Inc., New York, N. Y. 328,418, ren. 9-24-55. Cl. 49.  
 Star-Maid Dresser, Inc., New York, N. Y. 610,773, pub. 5-17-55. Cl. 39.  
 Ster-E-O, Inc., Seattle, Wash. 610,651-2, pub. 5-17-55. Cl. 26.  
 Sterling Air Conditioning Corp., Gastonia, N. C. 610,698, pub. 5-10-55. Cl. 34.  
 Stern, Molly S., Rochester, N. Y. 610,786-7, pub. 5-17-55. Cl. 42.  
 Sternin Hosiery Co., New York, N. Y. 610,761, pub. 5-17-55. Cl. 39.  
 Stevens, Chas. A., & Bros., Chicago, Ill. 232,705, can. Cl. 6.  
 Stevens, Chas. A., & Bros., Chicago, Ill. 237,181, can. Cl. 39.  
 Stevensons Dyers Ltd., Ambergate, England. 610,737, pub. 5-17-55. Cl. 39.



Stewart, Earl, Penwell, Tex. 610,846, Cl. 13.  
 Stewart-Warner Corp., Chicago, Ill. 348,027, can. Cl. 15.  
 Stewart-Warner Corp., Chicago, Ill. 360,927, can. Cl. 23.  
 Stewart-Warner Corp., Chicago, Ill. 386,284, can. Cl. 6.  
 Stewart-Warner Corp., Chicago, Ill. 418,017, can. Cl. 23.  
 Stokely-Van Camp, Inc.: See—  
 Santa Cruz Fruit Packing Co.  
 Stroh Brewery Co., The, by The Stroh Brewery Co., Detroit, Mich. 70,922, 12(c) pub. 8-16-55, Cl. 48.  
 Strong & Cobb Co., The, Cleveland, Ohio, to Royal Pharmacal Corp., Duquesne, Pa. 102,202, ren. 1-26-55, Cl. 18.  
 Strulson Novelty Corp., New York, N. Y. 507,509, can. Cl. 40.  
 Students' Magazines Inc., Chicago, Ill., by N. D. Publications, Inc., New York, N. Y. 426,157, 12(c) pub. 8-16-55, Cl. 38.  
 Suf-Out Mfg. Co., Bridgeport, Conn. 610,833, pub. 5-10-55, Cl. 52.  
 Superior Felt & Bedding Co., Chicago, Ill. 248,754, can. Cl. 32.  
 Superior Felt & Bedding Co., Chicago, Ill. 306,577, can. Cl. 32.  
 Superior Laboratories Inc., Cleveland, Ohio. 610,823, pub. 5-10-55, Cl. 51.  
 Surprise Brassiere Co., Inc., New York, N. Y. 610,769, pub. 5-17-55, Cl. 39.  
 Suter Watch Factory Inc., Bienne, Switzerland. 610,670, pub. 5-17-55, Cl. 27.  
 Swedish Iron & Steel Corp., New York, N. Y., and New Orleans, La., by Achorn Steel Co., Boston, Mass. 79,612, 12(c) pub. 8-16-55, Cl. 14.  
 Taco Heaters, Inc., Providence, R. I. 610,535, pub. 5-17-55, Cl. 13.  
 Tammy Sol Co., Inc., New York, N. Y. 610,750, pub. 5-17-55, Cl. 39.  
 Tanner, H. H., Co.: See—  
 Lehn & Fink Products Corp.  
 Tarheel Electric Membership Association, Inc., The, Raleigh, N. C. 610,721, pub. 5-17-55, Cl. 38.  
 Taylor, Earl L., Richmond, Va. 610,610, pub. 5-17-55, Cl. 23.  
 Techno Co.: See—  
 Mosher, Fred D.  
 Tecla Shoulder Pad Co.: See—  
 Blauman, George.  
 Tennessee Supply Co., Greeneville, Tenn. 437,030, 12(c) pub. 8-16-55, Cl. 52.  
 Tennison Brothers, Inc., Memphis, Tenn. 610,844, Cl. 12.  
 Terry, Lucy M., Tulare, Calif. 610,838, pub. 5-17-55, Cl. 52.  
 Texarkana Casket Co., Texarkana, Tex. 610,694, pub. 5-17-55, Cl. 34.  
 Textile, Inc., Dallas, Tex. 610,817-18, pub. 5-10-55, Cl. 50.  
 Thoma, Chas., & Son, Inc., Attleboro, Mass. 413,967, can. Cl. 8 and 28.  
 Thompson and Sons, Inc., Lyons, Ill. 610,589, pub. 5-17-55, Cl. 21.  
 Thomson Machine Co., Belleville, N. J., now by merger Wallace & Tiernan Inc. 610,643, pub. 5-24-55, Cl. 23.  
 Tide Water Associated Oil Co., New York, N. Y. 610,569-70, pub. 5-17-55, Cl. 15.  
 Tobler, Ernst & Traber, Inc., New York, N. Y. 610,777-9, pub. 5-17-55, Cl. 42.  
 Tompkins' Label Service, Philadelphia, Pa. 507,353, can. Cl. 38.  
 Torsion Balance Co., The, Clifton, N. J. 610,662-3, pub. 5-17-55, Cl. 26.  
 Tractolator Corp., Inc., Philadelphia, Pa. 610,792, pub. 5-10-55, Cl. 44.  
 Triboro Quilt Mfg. Corp., New York, N. Y. 610,785, pub. 5-17-55, Cl. 42.  
 Tri-County Mfg. Co.: See—  
 Kennedy, Samuel F.  
 Trilco Films: See—  
 Trillas, Margaret.  
 Trillas, Margaret, d. b. a. Trilco Films, New York, N. Y. 610,664, pub. 5-17-55, Cl. 28.  
 Trina, Inc., Providence, R. I. 610,842, Cl. 3.  
 Tungsten Electric Corp., Union City, N. J. 507,350, can. Cl. 14.  
 Tuttle, Dorothy E. L., Arlington, Va., and Washington, D. C. 507,500, can. Cl. 38.  
 Tweel, Nicholas J., Huntington, W. Va. 610,575, pub. 5-17-55, Cl. 17.  
 Udell, Lester, Inc., New York, N. Y. 610,753, pub. 5-17-55, Cl. 39.  
 Ulmann, Bernhard, Co. Inc., Long Island City, N. Y. 324,224, ren. 5-14-55, Cl. 40.  
 Ulmann, Bernhard, Co., Inc., Long Island City, N. Y. 326,171, ren. 7-16-55, Cl. 43.  
 Uniloy Corp., Salline, Mich. 610,649, pub. 5-17-55, Cl. 23.  
 United Merchants and Manufacturers, Inc., New York, N. Y. 610,788, pub. 5-17-55, Cl. 42.  
 United States Gutta Precha Paint Co., Providence, R. I. 216,372, can. Cl. 16.  
 U. S. Handbag Corp., New York, N. Y. 610,843, Cl. 3.  
 United States Rubber Co., New York, N. Y. 610,784, pub. 5-17-55, Cl. 42.  
 Upland, Ted, Associates of California: See—  
 Upland, Theodore R.  
 Upland, Theodore R., d. b. a. Ted Upland Associates of California, San Francisco, Calif. 610,726, pub. 5-17-55, Cl. 39.  
 Vacuum Metals Corp., Cambridge, Mass. 610,563, pub. 5-17-55, Cl. 14.  
 Vaden Mills, Inc., West Reading, Pa. 507,502-3, can. Cl. 39.  
 Vascoloy-Ramet Corp., Waukegan, Ill. 610,560, pub. 5-17-55, Cl. 14.  
 Velvet Freeze, Inc., St. Louis, Mo. 610,795, pub. 11-24-53, Cl. 46.  
 Verd-A-Ray Corp., Toledo, Ohio. 610,606, pub. 5-17-55, Cl. 21.  
 Victor Animatograph Corp., Davenport, Iowa. 610,580, pub. 5-10-55, Cl. 21.  
 Viking Glass Co.: See—  
 New Martinsville Glass Co.  
 Visual Nerve Tracing Instrument Co. of America, The: See—  
 Adelmann, George N.  
 Walker, Hiram, & Sons, Inc.: See—  
 Wight, Frank L., Distilling Co., The.  
 Walker, Hiram, & Sons Inc., Detroit, Mich., and Peoria, Ill. 329,642, ren. 11-5-55, Cl. 49.  
 Wallace & Tiernan Inc.: See—  
 Thomson Machine Co.  
 Warner & Swasey Co., The, Cleveland, Ohio. 610,646, pub. 5-24-55, Cl. 23.  
 Washburn Crosby Co., to General Mills, Inc., Minneapolis, Minn. 106,919, ren. 11-2-55, Cl. 46.  
 Welbilt Corp.: See—  
 Detroit-Michigan Stove Co.  
 Wene Poultry Laboratories, Inc., Vineland, N. J. 607,842, cor. Cl. 18.  
 Western Clock Co., Peru, by General Time Corp., La Salle, Ill. 325,848, 12(c) pub. 8-16-55, Cl. 27.  
 Westinghouse Electric Corp., Pittsburgh, Pa. 610,591-2, pub. 5-10-55, Cl. 21.  
 Weston Biscuit Co.: See—  
 Southern Biscuit Co., Inc.  
 Wexler, Mark, d. b. a. The Deblatave Co., Minneapolis, Minn. 610,637, pub. 5-24-55, Cl. 23.  
 Wheary Inc., Racine, Wis. 428,260, can. Cl. 3.  
 Wheatland Tube Co., Philadelphia, Pa. 610,543, pub. 5-3-55, Cl. 13.  
 Wiggins, E. B., Oil Tool Co., Inc., Los Angeles, Calif. 610,553, pub. 5-3-55, Cl. 13.  
 Wight, Frank L., Distilling Co., The, Loreley and Baltimore, Md., to Hiram Walker & Sons, Inc., Detroit, Mich., and Peoria, Ill. 328,468, ren. 10-1-55, Cl. 49.  
 Wilcox-Mosher-Leffholm Co., Minneapolis, Minn. 327,955, ren. 9-10-55, Cl. 37.  
 Willcraft Hosiery Mills, Inc., Williamsport, Md. 610,859, Cl. 39.  
 Williams, John B., d. b. a. The Pagewriter Pen Co., Wellealy, Mass. 610,857, Cl. 37.  
 Wilson Jones Co., Chicago, Ill. 610,645, pub. 5-24-55, Cl. 23.  
 Winner Chemical Co.: See—  
 Carter's Ink Co., The.  
 Wizard Products Co., Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. 106,820, ren. 10-26-55, Cl. 4.  
 Wolverton, Orin A., d. b. a. Burn-Rite Chemical Service, Bay City, Mich. 610,832, pub. 5-17-55, Cl. 52.  
 Wood, Charles E., d. b. a. Charles E. Wood Co., Milwaukee, Wis. 610,638, pub. 5-24-55, Cl. 23.  
 Wood, Charles E., Co.: See—  
 Wood, Charles E.  
 Wool Novelty Co., Inc., New York, N. Y. 507,358, can. Cl. 43.  
 Worcester Salt Co., New York and Silver Springs, N. Y., and Ecorse, Mich. 157,406, can. Cl. 46.  
 Worthington Corp., Harrison, N. J. 610,680-1, pub. 5-10-55, Cl. 31.  
 X Sales & Distributing Co.: See—  
 Headman, Sam T.  
 Ziv Steel & Wire Co., Chicago, Ill. 507,395, can. Cl. 38.  
 Zurn, J. A., Mfg. Co., Erie, Pa. 610,538, pub. 4-26-55, Cl. 13.

U. S. GOVERNMENT PRINTING OFFICE: O—1955

## PATENTS NOTICES

### International Convention for the Protection of Industrial Property

#### Adherence of Mexico to the London 1934 Revision

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective July 14, 1955, of Mexico to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ROBERT C. WATSON,  
Commissioner of Patents.

July 28, 1955.

### Disclaimer

2,673,201.—Christian Zickendraht, Binningen, and Arthur Buehler, Rheinfelden, Switzerland. COBALTIFEROUS AZO-DYESTUFFS. Patent dated Mar. 23, 1954. Disclaimer filed July 25, 1955, by the assignee *Ciba Limited*.

Hereby enters this disclaimer to claims 1 to 5 and 7 of said patent.

### Patents Available for Licensing or Sale

Lukens Steel Company, Coatesville, Pa., offers the following two patents:

2,709,047. Rotors for Impelling and/or Breaking Up Materials.

2,711,966. Parting Composition and Method of Pack-Rolling Using the Same.

2,711,709. Hot Box Detector. Patrick H. Sullivan, 312 Chemung St., Waverly, N. Y.

General Electric Company is prepared to grant non-exclusive licenses under the following 7 patents upon reasonable terms to domestic manufacturers. Applications for license should

be addressed to: Patent Counsel, Turbine Division, General Electric Company, 273 North Ave., Schenectady 5, N. Y.

2,542,069. Suspension of Polymeric Chlorotrifluoroethylene.

2,683,821. Unwanted Reflection Absorbing Shear Wave Transducer.

2,699,648. Combustor Sectional Liner Structure With Annular Inlet Nozzles.

2,700,212. Electrical Conductor.

2,702,870. Dynamo-Electric Machine Winding Ventilation.

2,707,275. Temperature Responsive Control Device.

2,712,085. Retaining Ring Structure for End Windings of Dynamo-Electric Machine.

### Classification Order No. 182

The following transfers are hereby ordered to take effect on Monday, August 8, 1955:

Class 188, Brakes

From Division 18 to Division 1

Class 260, Chemistry, Carbon Compounds, Subclasses 124 thru 130, 209 thru 235, and 607 thru 609

From Division 38 to Division 63

M. C. ROSA,  
Executive Examiner.

### Classification Order No. 183

The following transfer is hereby ordered to take effect on Monday, August 15, 1955:

Class 40, Card, Picture and Sign Exhibiting

From Division 53 to Division 11

M. C. ROSA,  
Executive Examiner.

### New Applications Received During June 1955

Patents	6,921
Plants	8
Reissues	14
Designs	456
Total	7,399

### Issue

Patents	509—No. 2,715,730 to No. 2,716,238, incl.
Designs	70—No. 175,382 to No. 175,451, incl.
Plants	2—No. 1,411 to No. 1,412, incl.
Reissues	8—No. 24,052 to No. 24,054, incl.

Total 584



# CONDITION OF PATENT APPLICATIONS AS OF JUNE 30, 1955

Total number of pending applications (excluding Designs)	221, 872
Total number of pending Design applications	7, 018
Total number of applications awaiting action (excluding Designs)	139, 614
Total number of Design applications awaiting action	2, 747
Date of oldest new application	June 1, 1954
Date of oldest amended application	Aug. 12, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS	
	New	Amended
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.	
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 60, 70.	
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.	
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.	
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.	
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.	
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.	
DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage.	10-7-54	3-29-54
2. (III) HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers.	12-29-54	8-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions.	10-4-54	11-16-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths.	10-18-54	11-16-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates.	11-23-54	4-6-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g. Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes.	8-17-54	1-18-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus.	10-19-54	12-1-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture.	8-16-54	12-8-53
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines.	10-25-54	2-2-54
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids.	3-1-55	6-28-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls.	10-5-54	10-26-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g. Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning.	10-15-54	12-21-53
14. (III) MANIAN, J. C., Metal Working (part), e. g. Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes.	12-20-54	1-20-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass.	10-27-54	3-18-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders.	10-4-54	10-7-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11-15-54	4-2-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes.	10-1-54	10-5-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners.	6-29-54	2-3-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking.	12-15-54	4-14-54
21. (III) MADER, R. C., Textiles.	10-20-54	3-1-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling.	12-29-54	2-25-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education.	6-1-54	8-21-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing.	12-3-54	8-25-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus.	10-1-54	1-4-54
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g. Miscellaneous Electric Control Mechanism.	11-17-54	6-29-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making.	12-24-54	5-4-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes.	11-29-54	5-10-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers.	10-4-54	2-23-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing.	1-3-55	1-25-54

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DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g. Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons.	9-7-54	2-10-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers.	12-2-54	5-18-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements.	9-22-54	1-11-54
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements.	10-4-54	11-20-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles.	12-14-54	2-23-54
36. (V) McFADYEN, A. D., Measuring and Testing.	12-15-54	7-19-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating.	7-13-54	2-1-54
38. (I) MARMELESTEIN, N., Carbon Chemistry (part), e. g. Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g. Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols.	9-13-54	12-10-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows).	1-18-55	3-8-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages.	1-3-55	5-3-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds.	6-16-54	9-24-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors.	10-18-54	3-15-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus).	9-21-54	11-4-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-3-54	7-7-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles.	12-15-54	6-9-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers.	7-1-54	8-12-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring.	10-25-54	5-6-54
50. (I) BENDEL, W. G., Carbon Chemistry (part), e. g. Synthetic Resins, Natural or Synthetic Rubber.	11-22-54	4-12-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music.	10-23-54	3-12-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits; Shaft Packing.	11-10-54	4-1-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus.	11-19-54	1-4-54
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g. X-Ray, Ultraviolet, Radioactive) Applications.	9-30-54	1-13-54
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors.	6-4-54	12-31-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification.	11-30-54	4-15-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-16-55	3-23-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons.	10-26-54	1-4-54
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating.	12-23-54	2-23-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-10-54	7-1-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination.	11-12-54	4-23-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g. Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g. Pigments, Fillers, Driers, and Organic Compositions.	9-3-54	10-27-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions.	10-7-54	12-23-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics.	9-15-54	2-2-54
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making.	10-27-54	5-5-54
69. (H) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators.	9-22-54	11-19-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g. Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers.	6-9-54	9-8-53
DESIGNS: [A—BREHM, G. L., Industrial Arts.	12-7-54	12-13-54
[B—GRAY, M. A., Household, Personal and Fine Arts.	12-30-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during August 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents..... Numbers 2,125,263 to 2,128,888, inclusive  
Plant Patents..... Numbers 282 to 289, inclusive

417



## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

IN RE MARVIN

No. 6108. Decided April 28, 1955

[— F.2d —; — USPQ —]

#### 1. PATENTABILITY—INVENTION—COMBINING REFERENCES.

Where appellant urges that a reference does not show basis for combination with other references as proposed, *Held* that "no such requirement has been established as a criterion in rejection of patent claims, and that in the consideration of a plurality of references whose combined teachings are relied upon to negative patentability, the question always is 'could one skilled in the art with the references before him make the combination of elements \* \* \* claimed without exercise of the inventive faculty?'"

#### 2. PATENTABILITY—PARTICULAR SUBJECT MATTER—FURNACE CONTROL SYSTEM.

Certain claims for automatic controlling system for a household furnace *Held* properly rejected as non-inventive over cited prior art.

APPEAL from the Patent Office. Serial No. 778,204. **AFFIRMED.**

*Brown, Jackson, Boettcher & Dienner* (Charles V. Hildebrecht of counsel) for Marvin.

*E. L. Reynolds* (Clarence W. Moore of counsel) for the Commissioner of Patents.

Before GARRETT, Chief Judge, and O'CONNELL, JOHN-SON, WORLEY, and COLE, Associate Judges

O'CONNELL, J., delivered the opinion of the court.

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner who rejected all the claims, 39, 40 and 41, in appellant's application for a patent on an improved "Condition Controlling System," particularly for controlling automatically the operation of a household furnace.

None of appellant's claims was allowed and all of them were rejected by the Examiner on the patent to Cameron, No. 2,212,386, issued August 20, 1940, the principal reference, in view of any one of the secondary references: Norden et al., 1,407,194, June 10, 1924; Gerst (Br.), 347,442, Apr. 30, 1931; Roberts, 2,235,169, Mar. 18, 1941; Halmbaugh, 2,263,298, Nov. 18, 1941.

The Board in affirming the decision of the Examiner found no reversible error in the respective grounds of rejection which he asserted but confined its affirmance to his rejection based on Cameron in view of Norden et al. or Gerst. The Board regarded the Examiner's rejection on Cameron in view of Roberts or Halmbaugh as cumulative. Accordingly, the disclosure of the last two references need not be discussed here.

Claim 39 is illustrative:

39. In a remote control system energized by a source of electrical potential for controlling automatically the operation of a household furnace, a radio frequency oscillator in circuit connection with said source of electrical potential, a first thermally responsive switch, regulatory means operatively connected to said first switch for conditioning same to close at a preselected temperature and to open at a second preselected temperature, a time responsive switch in circuit connection with said first named switch, a timing device associated with said second named switch, time conditioning means operated by said timing device for maintaining said second named switch open during a preselected time interval and closed during a second preselected time interval, the circuit connection of said oscillator with said source of potential being completed through said two named switches; and a remotely positioned radio frequency receiver controlling the electrical energization of a motor driven damper control means associated with said furnace whereby when said first switch is closed in accordance with the closing temperature condition as determined therefor by said regulatory means

and said second switch is closed during the closing time condition as determined therefor by said time conditioning means, said oscillator will be energized by said source of electrical potential to transmit radio frequency energy to said receiver which in turn serves to actuate said motor driven furnace damper means for regulating the operation of said furnace.

The operation of appellant's control system was thus summarized in the decision of the Board:

\* \* \* A time switch is connected in circuit with day and night thermostats for connecting the day thermostat in circuit with the furnace control means during the day and the night thermostat in circuit with the furnace control means during the night, so that the furnace is under the control of the day thermostat during the day and the night thermostat during the night. Instead of having the thermostatic control device connected to the furnace control means through wires as is conventional in the art, it is connected to the furnace control means through a radio transmitter and receiver. The closing of the switch controlled by either the day or night thermostat, depending upon which one is connected in the control circuit by the time switch, energizes an oscillator which transmits radio frequency energy to a receiver located adjacent the furnace. The radio frequency energy received by the receiver operates a relay which operates the furnace control means. \* \* \*

The Patent to Cameron, assignor of the General Electric Company, relates to time switches of simple construction particularly designed for use in systems of automatic control for domestic heating apparatus. In the form shown in the patentee's disclosure, the time switch employs two sets of time controlled contacts; one set of which opens and closes a circuit at predetermined adjustable times in a given period, such as 24 hours, and may be used to shift control "from day to night thermostat and vice versa." Cameron in general teaches appellant's combination, but has otherwise disclosed an electromagnetic relay instead of a radio relay for opening and closing a circuit in a temperature responsive system.

Norden et al. disclose an improvement in radio relay alarm systems for use with apparatus when fire occurs, etc. The patent to Gerst relates to a similar invention and apparatus for notifying through the operation of radio relay signals increased temperature or fire at any distance or place.

The Solicitor has briefly defined the action of the Patent Office in these words: "Succinctly summarized, the position of the two tribunals below is that Cameron shows a specific temperature responsive system for opening and closing a circuit to an electromagnetic relay controlling a furnace, that Norden et al. and Gerst (and likewise Roberts and Halmbaugh) show a radio relay, and that there is no invention in substituting such a radio relay for Cameron's electromagnetic relay. With such a substitution, all the claims on appeal are met, and the Examiner and the Board concurred in so holding."

[1] Appellant urges here that Cameron "does not show basis for combination with the other references as proposed." This court in the case of *In re Milne*, 31 CCPA (Patents) 918, 140 F.2d 1008, 60 USPQ 559, held that no such requirement has been established as a criterion in rejection of patent claims, and that in the consideration of a plurality of references whose combined teachings are relied upon to negative patentability, the question always is "could one skilled in the art with the references before him make the combination of elements \* \* \* claimed without exercise of the inventive faculty." To the same effect, see also *In re Stover*, 32 CCPA (Patents) 823, 146 F.2d 290, 64

USPQ 186; *In re Drisch et al.*, 38 CCPA (Patents) 1150, 189 F.2d 994, 90 USPQ 96; *In re Zabel et al.*, 38 CCPA (Patents) 832, 186 F.2d 735, 88 USPQ 367.

There is accordingly no legal basis for appellant's contention here that since the concept of controlling a radio frequency oscillator used in conjunction with a radio receiver for regulating the operation of a house-

hold furnace appears to be a novel step over the disclosure of the prior art, and especially the references of record, claim 39 and the other appealed claims are allowable.

[2] For the reasons stated, the decision of the Board is affirmed.

**AFFIRMED.**

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,186,549, W. C. Luban, Process for preserving fruit peels and rinds, filed Mar. 11, 1953, D. C., S. D. Fla. (Tampa), Doc. 2314-T, *William C. Luban et al. v. Garden Fruit Glace Co. et al.* Order of dismissal June 23, 1955.

2,192,786, H. P. Campbell, Collar ironing device, filed June 15, 1955, D. C. Mass. (Boston), Doc. 55/532-W, *The Key-Tag Checking System Co. v. Formmaster Corp. et al.*

2,206,922, A. L. Smith, Means and method for locating oil bearing sands, filed Feb. 15, 1951, D. C., S. D. Tex. (Houston), Doc. 5983, *Alonzo L. Smith et al. v. Bariod Sales Division, National Lead Co.* Stipulation and order of dismissal June 23, 1955.

2,275,935, R. C. Baker, Well packer apparatus, filed June 22, 1955, D. C., S. D. Tex. (Houston), Doc. 8998, *Baker Oil Tools Inc. v. American Iron & Machine Works Co. et al.*

2,510,382, E. L. Dale, Practice shooting apparatus, filed June 23, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18337-C, *Eldon L. Dale v. Badger Sales Co., Inc. et al.*

2,531,083, A. L. Smith, Core analysis, filed Jan. 9, 1953, D. C., S. D. Tex. (Houston), Doc. 7236, *Alonzo L. Smith v. Bariod Sales Division, National Lead Co.* Stipulation and order of dismissal June 23, 1955.

2,564,264, 2,564,265, F. W. Knott, Window, filed Oct. 31, 1951, D. C., E. D. N. Y. (Brooklyn), Doc. 12235, *Wisco, Inc. v. Paramount Aluminum Products Corp.* Consent order of dismissal without prejudice June 27, 1955.

2,564,265. (See 2,564,264.)

2,578,171, R. A. Bub, Combination welder's face shield and helmet, filed June 21, 1955, D. C., E. D. Mich. (Detroit), Doc. 14500, *Mine Safety Appliances Co. v. Jackson Products, Inc.* 2,630,570, H. M. Herbener, Girdle, filed May 25, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c765, *The Warner Brothers Co. v. The Formfit Co., Inc.* Consent judgment: patent held valid and infringed; defendant enjoined June 21, 1955.

2,705,607, W. L. Inglett, Bagging method, filed June 23, 1955, D. C., S. D. Fla. (Miami), Doc. 6284-M, *Inglett & Corley, Inc. v. Everglades Fertilizer Co., Inc.*

2,706,893, J. R. Benjamin, deceased, Drop inlet for earth-filled dams, filed June 21, 1955, D. C., N. D. Ohio (Cleveland), Doc. 31923, *Dorothy E. Benjamin, executrix of Joel R. Benjamin, deceased v. United Steel Fabricators, Inc.*

Des. 155,452, W. F. Rothe, Combined grille, hood, fenders, and bumper for vehicles, filed June 17, 1955, D. C., District of Columbia, Doc. 2649/55, *Walter F. Rothe v. Ford Motor Co.*

Des. 167,507, O. J. Ernst, Jr., House sign, filed June 22, 1955, D. C., E. D. Pa. (Philadelphia), Doc. 19130, *Whitehall Metal Studios, Inc. v. William Spencer.*



## REISSUES

AUGUST 23, 1955

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

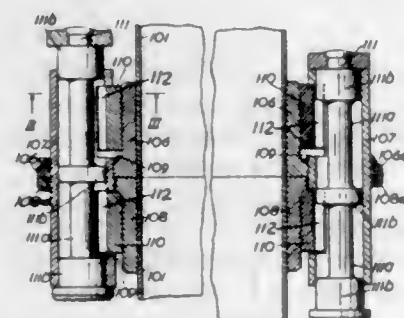
24,052

### SCRAPER CHAIN CONVEYOR

Angus Wellesley Duncan, Worcester, England, assignor to The Mining Engineering Company Limited, Worcester, England

Original No. 2,633,230, dated March 31, 1953, Serial No. 194,768, November 9, 1950. Application for reissue September 22, 1953, Serial No. 381,768

14 Claims. (Cl. 198—204)



1. In a scraper chain conveyor having separable upper and lower pan sections, a pair of locking devices carried by one of each adjacent pair of sections, locking means on the other adjacent sections, each locking device comprising a housing attached adjacent the end of a pan section and interfitting with said locking means, and a locking member captive within the housing and operable by a simple axial movement to trap said locking means and secure the adjacent upper pan sections to the lower pan sections and to hold adjacent lower pan sections in substantial alignment to one another.

24,053

### MULTIPLEX PHASE GENERATORS

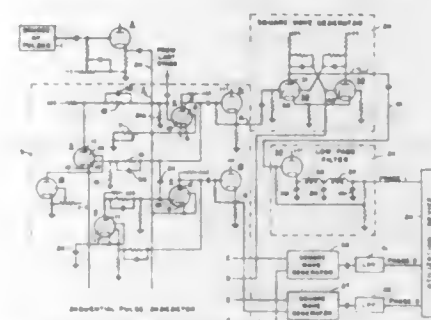
Frank A. Morris, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Original No. 2,548,737, dated April 10, 1951, Serial No. 70,250, January 11, 1949. Application for reissue January 26, 1954, Serial No. 406,383

7 Claims. (Cl. 250—36)

2. A multiphase generator comprising a source of recurring equally-spaced pulses, a pulse generator having a plurality of outputs, means utilizing said spaced pulses for operating said pulse generator to develop sequential trigger pulses at said outputs, a plurality of square wave generators arranged to remain in one or the other of two conditions, one square wave generator being provided for each phase to be generated, certain of said outputs being connected to trigger sequentially said square wave generators to said one condition, means utilizing

certain of said outputs for sequentially triggering said square wave generators in the same order to said other



condition, and means for smoothing the output of each square wave generator.

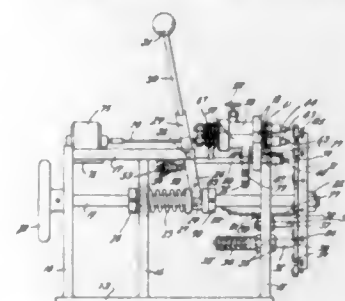
24,054

### HYPODERMIC NEEDLE CLEANING MACHINES

Oscar W. Varga, Englewood, Colo., assignor to Technical Equipment Corporation, Denver, Colo., a corporation of Colorado

Original No. 2,636,201, dated April 28, 1953, Serial No. 210,498, February 12, 1951. Application for reissue February 15, 1954, Serial No. 416,732

12 Claims. (Cl. 15—302)



9. A hypodermic needle cleaning machine comprising: a plurality of fixedly positioned spaced-apart fluid ejecting nozzles; a movable needle carrier; means for supporting a hypodermic needle upon said carrier rigidly perpendicular to the plane of said carrier and across the plane thereof so as to position the intake extremity of said needle on the first side of said plane and the discharge extremity thereof on the second side of said plane; means for moving said carrier at intervals transversely of said nozzles so as to align said needle with each of said nozzles in succession; and means for moving said carrier toward said nozzles as said needle aligns with each nozzle to bring said needle into fluid conductive relationship with each nozzle so that fluid may be forced from each nozzle from the first side of said carrier through said needle so as to discharge from the second side of said carrier.

## PLANT PATENTS

GRANTED AUGUST 23, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,411

### APPLE TREE

Edward Barclay Brauns, Wenatchee, Wash., assignor to Van Well Nursery, Wenatchee, Wash., a copartnership

Application April 5, 1954, Serial No. 421,214

1 Claim. (Cl. 47—62)

A new and distinct variety of apple tree characterized as to novelty primarily by the earlier and greater coloring of its fruit by which it is clearly distinguishable from the nearest related variety, the Starking Delicious, substantially as shown and described.

small but full double flowers of honeysuckle fragrance whose petals are pure white and persist in true color, and by green styles defining a tiny green dot in the center of the opened flower; the plant growth being bushy, much branched, and tending to spread to a width greater than the height; propagating easily from cuttings; blooming abundantly and continuously; being seedless and bearing few thorns; less dwarf and less thorny but with larger flowers than the Pixie, and more bushy with larger foliage and larger flowers than the Cinderella.

1,412

### ROSE PLANT

Ralph S. Moore, Visalia, Calif.

Application September 13, 1954, Serial No. 455,808

1 Claim. (Cl. 47—61)

A new and distinct variety of miniature rose plant, substantially as described and illustrated, characterized by



# PATENTS

GRANTED AUGUST 23, 1955

## GENERAL AND MECHANICAL

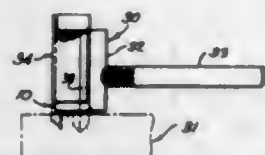
2,715,730

### FASTENER INSERTING TOOL

Theodore Packard, East Orange, N. J., assignor to E. B. Packard Co., Inc., New York, N. Y., a corporation of New York

Application March 10, 1952, Serial No. 275,830

4 Claims. (Cl. 1-50)



1. A tool for facilitating the insertion of wood fasteners, the fasteners being of angular form with the sides at the apex extending laterally at an angle; the tool comprising a holder for the fastener, the holder having a cross section of right angular form with the sides substantially equal to the sides of the fastener forming the apex thereof, a handle member disposed on the holder, the longitudinal center line of the handle member being substantially perpendicular to that of the holder and bisecting opposite right angles thereof, and an impeller reciprocable on the holder, the impeller having formed therein a longitudinal opening coacting with the holder and further having a length greater than that of the holder.

2,715,731

### CLOTHES CLIP HOLDER

Joseph Paul Pugel, Los Angeles, Calif.

Application July 24, 1950, Serial No. 175,608

4 Claims. (Cl. 1-187)



1. A clothes clipping device as described comprising in combination an elongated body having a longitudinal bore, a plunger in said bore having a hook at its lower end beyond the end of said body, a magazine for a plurality of U-shaped clips on one side of said body including a plurality of longitudinally extending guide wires, the lower end of one of said wires terminating above said hook, means for supporting clips in said magazine and releasing clips to drop on said hook, and manually actuable means to compress said clips on said hook onto an article of clothing on and around a clothes line.

2,715,732

### FOUNDATION GARMENT

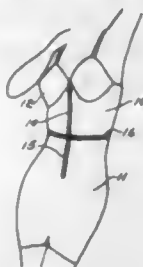
Matilde A. Gamboni, Brooklyn, N. Y.

Application June 6, 1951, Serial No. 230,200

5 Claims. (Cl. 2-30)

1. A two-part foundation garment comprising a vertically divided upper body supporting and confining por-

tion, a separable fastener means for bringing the two vertically disposed edges of said portion together to completely encircle the wearer's body when the fastener is closed, said upper body supporting and confining portion providing firm support for the bust, the upper abdominal area, both sides, and a substantial area of the back of the wearer when in adjusted position, a lower body supporting and confining portion encircling the thighs, hips and lower abdominal area when being worn, the upper body supporting and confining portion having its entire lower edge disposed adjacent to and abutting the entire



upper edge of the lower body supporting and confining portion when both of said body portions are in proper position on the wearer's body, a separable fastener means for separably attaching the entire lower edge of the entire upper body portion to the upper edge of the lower body portion, whereby each body portion of the foundation garment may be separately and easily put on, adjusted and fastened in position and then fastened to each other to form a foundation garment having the smooth external contour and complete body support of a one-piece foundation garment.

2,715,733

### FOUNDATION GARMENT CONSTRUCTION

Harry Jay Dubner, New York, N. Y.

Application January 10, 1952, Serial No. 265,874

3 Claims. (Cl. 2-42)



1. In a brassiere construction of the character described having a body encircling band including a pair of framing members formed of relatively thin textile material each encircling and supporting breast pocketing portions formed of sheet material of a relatively heavy thickness with respect to said framing members to uniformly increase the size of a wearer's small breast to that of a desired normal appearance, each of said pocketing portions being formed in a conical shape having an apex region and sewed along a periphery thereof to said framing members providing a bulge shaped predetermined uplift full bloom bust contour, a pre-shaped conical abutment piece positioned against an inner surface of each of said pocketing portions in the apex region thereof for snugly nesting the areola region of the breast of a wearer thereagainst, said abutment piece being a resilient struc-

AUGUST 23, 1955

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423

ture outstandingly extending said apex region of said pocketing portions from the underlying breast areola of the wearer, and stitching provided about a rim edge of said abutment piece passing through said bulge shaped bust contour pocketing portion permanently securing said abutment piece to said pocketing portion inner surface.

2,715,734

### BRASSIERE

Charles Rosenbaum, New York, N. Y.

Substituted for abandoned application Serial No. 61,760,

November 24, 1948. This application November 23,

1954, Serial No. 470,650

4 Claims. (Cl. 2-42)



1. A blank for forming the breast cup of a brassiere, comprising a single piece of non-stretchable material shaped to have the outline of a segment greater than a half segment of a substantially circular figure, the edge portions of said blank which extend toward the center of such circle being substantially straight along the major portions of their lengths, and their inner extremities being convexly curved thereby to give a rounded tip to the cup consequent upon the establishment of the seam.

2,715,735

### GRINDING UNIT FOR DISPOSAL DEVICES

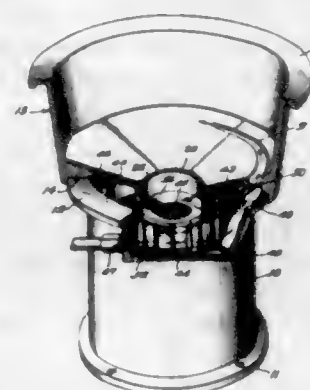
Hal Weir McPherson, Chicago, Ill.

Original application October 30, 1946, Serial No. 706,730.

Divided and this application June 29, 1951, Serial No.

234,363

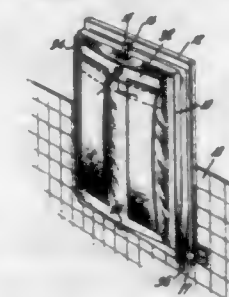
11 Claims. (Cl. 4-10)



1. In a grinding device, an upper relatively fixed conical grinding element and a lower rotatable conical grinding element, the generatrix of the rotatable conical element being less inclined to the horizontal than the generatrix of the relatively fixed conical element, said elements being mounted in coaxial cooperative relationship and providing a grinding space therebetween that diminishes in vertical extent toward the outer periphery thereof, means for driving the lower element in a given direction, said elements each having a grinding surface provided with closely spaced rows of grinding teeth, and at least one of the elements having the cutting edges of the rows of grinding teeth spirally inclined in a direction with respect to the direction of rotation of the rotatable grinding element so as to produce a shearing action with the grinding teeth on the other element and to drive the material acted upon outwardly toward said outer periphery.

697 O. G.—30

2,715,736  
BABY'S BATH CONSTRUCTION  
Raymond Pearson, Newport News, Va.  
Application August 27, 1951, Serial No. 243,795  
1 Claim. (Cl. 4-177)



A baby's bath comprising a frame, a collapsible tub supported by said frame, a table top pivotally supported on said frame, hinge snaps mounted on said frame for pivotally connecting said frame to a horizontal rod support, means on said table top cooperating with said rod support to lock said table top in a vertical open position, cooperating catch members on said frame and table top for locking the two together in a vertical plane, a flexible cover having one edge permanently secured to the frame, means for detachably securing the opposite edge of the cover to the opposite side of the frame when said frame is in upright position, pockets formed in said cover member, and means connected to said frame for supporting the frame in a horizontal position.

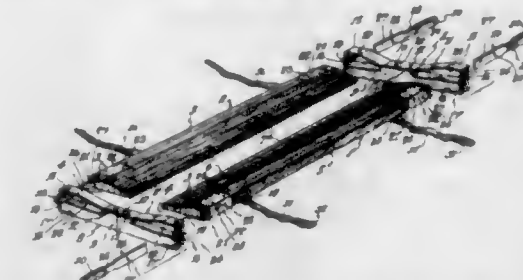
2,715,737

### STRETCHER

David Sacks, Linden, N. J.

Application February 20, 1953, Serial No. 337,945

4 Claims. (Cl. 5-82)



2. A stretcher comprising two rigid elongate panel sections each of which is tapered in cross-section so that the panel section is thinner at one longitudinal edge than at the opposite longitudinal edge, a handle secured to the thicker longitudinal edge at each end of each of said panel sections and projecting longitudinally beyond said end, and two similar rigid end frames each having two openings, each opening conforming in shape and size to the cross sectional shape and size of each of said panel sections to slidably telescopically receive one end of one of said panel sections, whereby said panel sections may be laid flat on a supporting surface in parallel relation to each other with their thinner edges in juxtaposed spaced relation and slid beneath a person to be carried, after which said end frames may be slid over said handles and the corresponding ends of said panel sections to firmly connect said panel sections together.

2,715,738

### TACK HANDLING AND DRIVING MECHANISMS

William Arthur Barton, Kenneth Blanchard Pulford, and

Arthur Alan Rivington, Leicester, England, assignors

to United Shoe Machinery Corporation, Flemington,

N. J., a corporation of New Jersey

Application February 2, 1952, Serial No. 269,654

Claims priority, application Great Britain

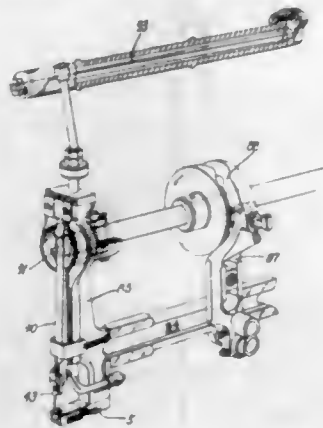
February 22, 1951

12 Claims. (Cl. 12-10.7)

1. In a fastening inserting machine provided with a reciprocating tack driver mechanism and a tack receptacle



carrier block movable between a tack driving position in axial alignment with the driver and a tack receiving position laterally removed from the axis of the driver, a tack receptacle yieldably supported within an opening extending heightwise through said carrier block so as

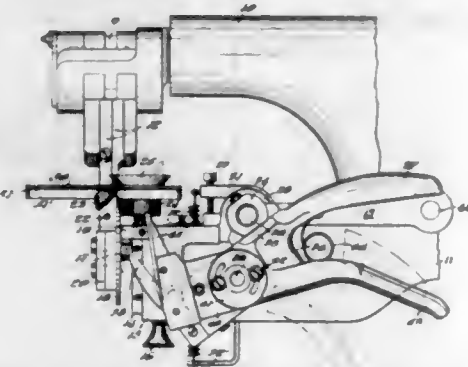


normally to maintain the lower nozzle portion of the receptacle in a retracted position within the block, and means responsive to the operation of the driver mechanism for movably engaging the receptacle to force it downward during the final phase of the driving operation.

2,715,739

**BINDING APPLYING AND CUTTING MACHINE**  
Andrew R. Ridderstrom, Nahant, Mass., assignor to Prime Manufacturing Company, Lynn, Mass., a corporation of Massachusetts

Application August 23, 1951, Serial No. 243,222  
7 Claims. (Cl. 12-24.5)



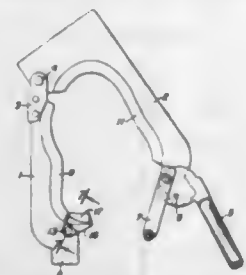
1. A machine for applying a binding strip to the marginal edge of a flat sole blank, including in its structure a strip-supporting roll rotatable about a horizontal axis, a blade pivotally mounted to swing about a horizontal axis and having a gauge face and a shearing edge, means for yieldingly holding the blade in an initial position at one side of said roll and below the level of its strip-supporting rim, and a second blade mounted to swing on the blade first mentioned.

2,715,740

**SHOE CLAMP**

William G. Helber, Brighton, N. Y.

Application December 3, 1952, Serial No. 323,846  
5 Claims. (Cl. 12-103)



1. A shoe clamp comprising a pair of pivotally connected clamping plates having bevelled shoe-engaging portions positionable between the welt and upper of a shoe around the forward end and along the sides thereof

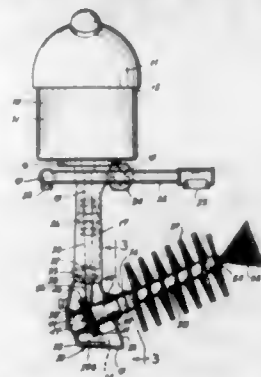
said shoe-engaging portions terminating at the heel portion in spaced relation to one another, means carried by one of said clamping plates for holding said plates in clamping relation, a positioning and clamping element pivoted to the other of said clamping plates and operatively arranged between the rear ends of said shoe-engaging portions, and a cam surface on the said one clamping plate operating to engage and move said positioning and clamping element into clamping position, said positioning and clamping element having a bevelled shoe-engaging portion engaging the rear of the heel portion of the shoe in the same plane as the shoe-engaging portions of the clamping plates.

2,715,741

**ROTARY BRUSH DISHWASHER**

Clarence H. Osgood, Stamford, Conn.

Application May 4, 1950, Serial No. 159,929  
7 Claims. (Cl. 15-74)



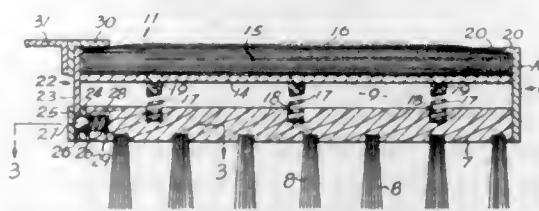
1. In an apparatus of the kind described, the combination of a power unit including a driven shaft formed in two separate coaxial sections and connected together by a sleeve of flexible material for torsional twisting of said separate sections, a pair of brush shafts, a bearing member supporting said brush shafts at an angle to said driven shaft and in parallel relationship, a brush spindle connected to each of said brush shafts at one end and free at the other end, a cylindrical brush carried by each of said brush spindles at their free ends, and driving connections between said driven and brush shafts comprising a worm gear on said driven shaft, a gear on each of said brush shafts in constant mesh with said worm gear and on opposite sides of the axis thereof.

2,715,742

**COMBINED BRUSH AND ADHESIVE DEVICE FOR REMOVING LINT AND DUST FROM FABRICS**

Thomas M. Coles, Homestead Park, Pa.

Application April 10, 1950, Serial No. 154,977  
2 Claims. (Cl. 15-105)



2. In a device for removing lint and like particles from fabric surfaces, the combination of: a brush, a body for said brush having a recess opening oppositely to the bristles of said brush and open at one end of said body; a stack of separable tacky sheets adapted to be inserted in said recess through said one open end; flanges on the margins of said recess extending convergently in the plane of the opening of said recess, said flanges being narrow so as to engage only the margins of the top sheet of a stack of sheets held in said recess; and resilient means urging said stack outwardly from said recess oppositely to said bristles said stack being collectively compressible so as to yield centrally to said resilient means when held mar-

ginally by said flanges, whereby the central portion of said stack may be puffed outwardly beyond the plane of said flanges.

2,715,743

**WRINGER TYPE SPONGE MOP**

Olof G. Ljungdahl, Lidings, Sweden

Application June 19, 1951, Serial No. 232,325  
Claims priority, application Sweden June 22, 1950  
1 Claim. (Cl. 15-119)



A mop comprising a shaft, a compressible one piece elongated rectangular sponge block, a holder plate overlying the top of the sponge block, said plate being constituted by a rectangular plate portion rigidly secured to said shaft and a rectangular swingable plate portion of the holder plate swingable from a normal working position in which the face of the sponge block is substantially flat, to a substantially parallel squeezing position in which the sponge block is folded on its longitudinal central axis, means for actuating the swingable plate portion comprising a member slidable along the shaft, an arm secured to the swingable plate portion, a link pivotally connected to the arm and to the slidable member, means for securing each of the plate portions to the sponge block with the outer longitudinal edges of the plate portions in contact with the top of the sponge block and the inner longitudinal edges of the plate portions and the main portions of the plates being spaced from the top of the sponge block, the interior angle between the two plate portions in the normal working position being between 135 and 180 degrees when viewed from the short side of the rectangle.

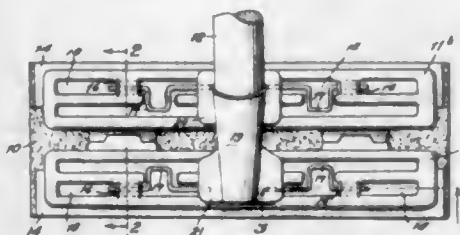
2,715,744

**MOPS**

Olof Gösta Ljungdahl, Lidings, Sweden

Original application June 19, 1951, Serial No. 232,325.  
Divided and this application August 8, 1952, Serial No. 303,213

2 Claims. (Cl. 15-119)



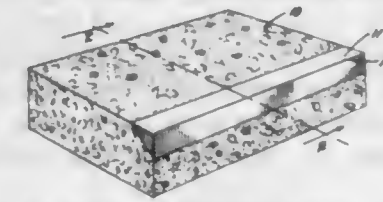
1. In a wringer mop, a rectangular sponge, overlying hinged support plates for the sponge and between which the sponge can be compressed, separate rectangular strips of soft stiff material between the sponge and the support plates glued to the top of the sponge and extending along each longitudinal upper side thereof and extending beyond the outer edges of the support plates, spaced openings in each strip, spaced openings in each support plate, lugs having spaced arms provided with holes for receiving cotters, the arms of the lugs passing upwardly through the openings in each of the strips and the plates, a depression in the plates and cotter pins resting in the depressions and slidable in the holes of the arms of the lugs.

2,715,745

**WINDOW WASHING SPONGE AND SQUEEGEE**

Donald O. Jacobsen, Lakewood, Colo.

Application October 26, 1950, Serial No. 192,203  
1 Claim. (Cl. 15-121)



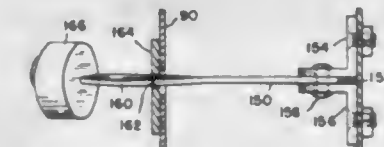
A window washing sponge and squeegee comprising: a substantially rectangular sponge block of cellular, resilient material; a squeegee corner edge member of non-cellular resilient material extending along and forming one corner edge of said block for the full length thereof, the cross section of said squeegee corner edge member forming substantially a right triangle with its hypotenuse joined to said sponge block and with its sides in the planes of the two adjacent sides of said block.

2,715,746

**DOOR CHECK STRUCTURE**

Paul H. Travis, Leonard, Mich.

Application March 13, 1950, Serial No. 149,300  
14 Claims. (Cl. 16-85)



4. Door check structure for controlling swinging movement of a door part on a frame part which comprises a bracket fixedly secured to one of said parts, an elongated arm, pivot means connecting one end of said arm to said bracket about a fixed pivot axis substantially perpendicular to the general longitudinal axis of said arm, said arm being in the form of a flat strip of resilient material having a helically twisted portion adjacent its other end, a guide plate fixedly secured to said other part and having a narrow slot through which said arm extends, a stop at the other end of said arm, said twisted portion of said strip opposing movement of the twisted portion through said slot.

2,715,747

**WINDOW STOP SASH BALANCE**

Matilda E. Prosser and Dwight M. Prosser, Mansfield, Ohio, assignors to Peerless Balance Co., Mansfield, Ohio, a corporation of Ohio

Application July 21, 1952, Serial No. 299,967  
4 Claims. (Cl. 16-198)

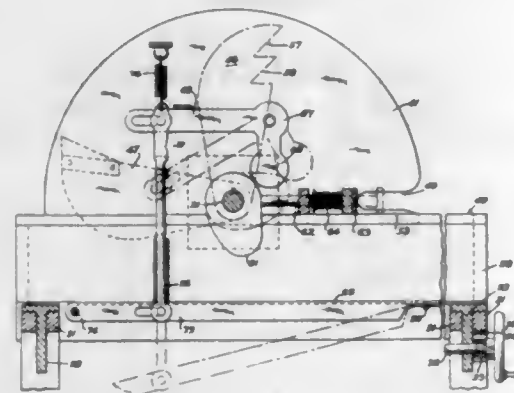


1. In a hollow parting stop of channel-shaped cross-section the bight in which is intended to face a window



frame, internal anchor means spanning the channel from side to side thereof at a point near the middle of the parting stop; a first spring and sheave group sash balancing system on one side of said anchor means; a second spring and sheave group sash balancing system on the other side of said anchor means, and means constituting part of the spring of the first sash balancing system and part of the sheave group of the second sash balancing system for positioning the proximate ends of said sash balancing systems in relation to the internal anchor means.

**2,715,748**  
**APPARATUS FOR REMOVING TENDONS FROM**  
**AND TRIMMING POULTRY**  
 Anthony P. Celillo, San Francisco, Calif.  
 Application July 14, 1952, Serial No. 298,730  
 6 Claims. (Cl. 17-11.3)



1. A tendon remover, comprising in combination, a frame, first means mounted on said frame, said first means having a first edge, a tendon-pulling arm mounted for movement in a plane parallel to and adjacent said first edge, said arm cooperating with said first edge to break a poultry leg bone positioned in said first means, grip the leg bone below the break, and then pull the tendons from the drum stick of the poultry leg, and second means mounted on said frame for moving said tendon-pulling arm past said first edge.

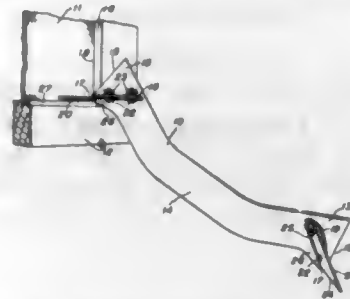
**2,715,749**  
**METHOD OF TREATING VEAL**  
 Kenneth M. Coughenour, La Grange, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois  
 No Drawing. Application January 12, 1953, Serial No. 330,906  
 6 Claims. (Cl. 17-45)

1. A method of treating veal carcasses which comprises: subjecting freshly slaughtered, unskinned veal carcasses to the action of a fluid bath maintained at a temperature of from about 130° to about 140° F. for a period of time ranging from about 5 to 40 minutes; removing the carcasses from said bath and subjecting them to a mechanical dehairing operation.

**2,715,750**  
**GLAZING TOOLS**  
 Dmitri Vail, Dallas, Tex.  
 Application October 6, 1951, Serial No. 250,119  
 14 Claims. (Cl. 18-3.5)

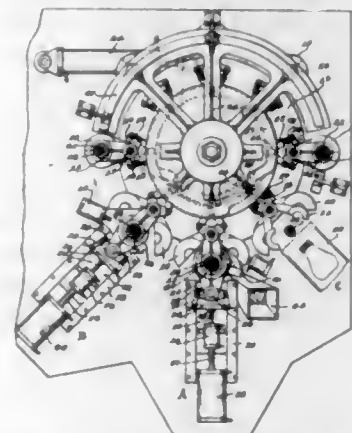
10. A tool for glazing a windowpane including, a substantially flat glazing blade having a transverse edge for applying and smoothing a glazing material, and an auxiliary blade mounted on the glazing blade and disposed in a plane transverse to the longitudinal axis of said glazing

blade, the auxiliary blade having an edge adjacent and extending angularly of the transverse edge for engaging



the windowpane at substantially a right angle to scrape excess material therefrom simultaneously with the smoothing of the material by said transverse edge.

**2,715,751**  
**METHOD AND APPARATUS FOR FORMING**  
**ARTICLES FROM PLASTIC MATERIAL**  
 Walter Carl Weber, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio  
 Application October 20, 1951, Serial No. 252,353  
 12 Claims. (Cl. 18-5)



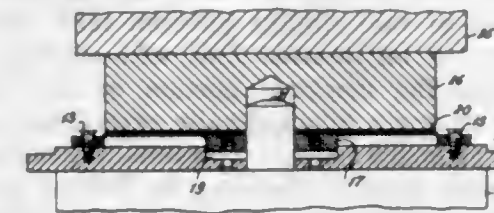
6. The method of forming hollow articles of organic plastic material which comprises plasticizing said material, injecting said plasticized material into a mold to form a parison, partially expanding said parison in a second mold by a charge of fluid pressure and finally expanding said parison to final form in a finishing mold under the action of fluid under pressure and maintaining the fluid pressure in the parison between the steps of partially expanding and finally expanding the parison.

9. An apparatus for forming hollow articles of organic plastic material which comprises a finishing mold movable in a closed path, a neck mold individual thereto, means for opening and closing said finishing mold, means for opening and closing said neck mold, means for intermittently moving said finishing mold and neck mold along their path, an injection station along the path of said finishing mold and neck mold, a parison mold at said injection station, means for plasticizing and injecting a predetermined quantity of plastic material into said parison mold, an intermediate mold further along the path of said neck mold, means for opening and closing said intermediate mold, and means for supplying air under pressure to the parison through the neck mold.

**2,715,752**  
**APPARATUS FOR THE MANUFACTURE OF**  
**PHONOGRAPH RECORDS**  
 James H. Hunter, Redding Ridge, Conn., assignor, by mesne assignments, to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York  
 Application May 2, 1950, Serial No. 159,517  
 2 Claims. (Cl. 18-5.3)

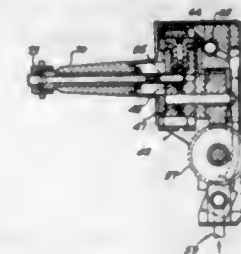
2. A demountable assembly for the support of a phonograph record matrix in a record press comprising a copper phonograph record matrix of substantially flat circularly cylindrical disk shape, a steel matrix-support-

ing insert bounded in part by a substantially plane surface, and a steel clamping ring adapted to be affixed to the insert about the circularly cylindrical periphery of the matrix, said ring having a circularly cylindrical



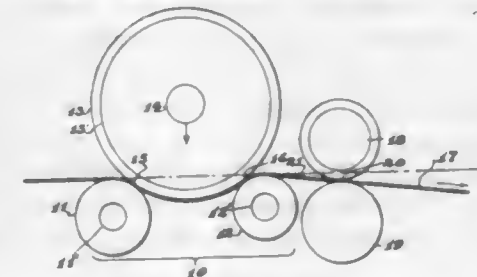
inner surface whose diameter when unstressed at room temperature is of the order of .002 inch smaller than the outside diameter of the matrix at room temperature when unstressed.

**2,715,753**  
**MULTIPLE END SPINNING AND TWISTING**  
**APPARATUS**  
 Kenneth M. McLellan, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware  
 Application May 10, 1954, Serial No. 428,649  
 9 Claims. (Cl. 18-8)



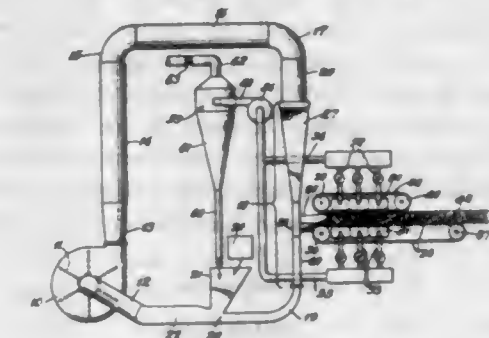
1. An apparatus for spinning and twisting yarn comprising; a gear pump for measuring and forwarding a yarn forming solution; a passage for said solution through said gear pump and through one of the gears; and a yarn forming means connected to and rotating with the gear having the passage of said gear pump.

**2,715,754**  
**DRAFTING SYSTEM**  
 Bernhard Bisinger, Stuttgart, Germany, and Jacques Figl, Gibswil, Switzerland, assignors to M. Earl Heard, Jr., Lanett, Ala.  
 Application November 5, 1953, Serial No. 390,308  
 6 Claims. (Cl. 19-130)



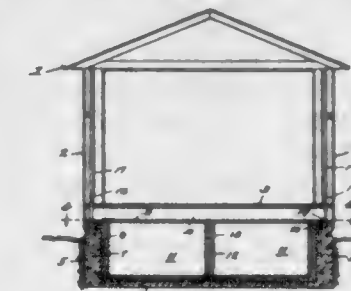
6. A drafting system comprising a three-roll unit including laterally spaced and parallel bottom rolls and a resiliently surfaced weighted top roll supported thereby, whereby the top roll forms spaced nips with said bottom rolls, the diameter of the top roll considerably exceeding the diameter of each bottom roll, means for positively driving the bottom rolls at different speeds whereby the peripheral speed of the front bottom roll exceeds that of the back bottom roll and a delivery roll pair adjacent the front bottom roll of said unit, the spacing between said delivery roll pair and said three-roll unit effecting a free material length therebetween at least substantially equal to the staple length of the fiber being processed, and the spacing between nips of the three-roll unit considerably exceeding said staple length.

**2,715,755**  
**PRODUCTION AND USE OF GASEOUS DISPERSIONS OF SOLIDS AND PARTICULARLY OF FIBERS**  
 W. Bartlett Jones, Chicago, Ill., assignor to Wood Conversion Company, St. Paul, Minn., a corporation of Delaware  
 Application November 22, 1949, Serial No. 128,764  
 11 Claims. (Cl. 19-156)



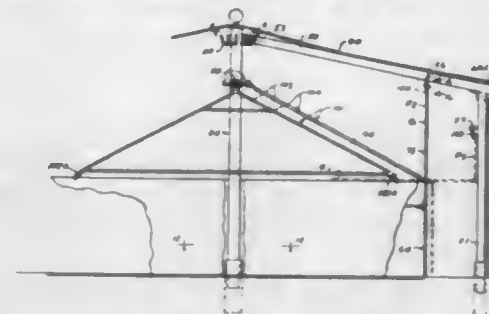
6. The method of producing a dispersion of solids in gas which comprises forming and maintaining a continuously circulating stream of gas and solids, feeding into said stream gas and solids, dispersing and suspending the said fed-in solids within said stream prior to any removal of said fed-in solids from the stream, and removing from circulation a portion of the resulting stream as a dispersion of solids in gas, the rates of feeding and of removal of both solids and gas being maintained at substantial equality.

**2,715,756**  
**FLOATABLE, FLOOD RESISTANT BUILDING**  
 Richard William Carver, Cleveland, Ohio  
 Application November 5, 1952, Serial No. 318,874  
 3 Claims. (Cl. 20-1)



1. In a device of the class described, a foundation, a building resting on the foundation, and guide posts fixed to the foundation and extending upwardly, said building having inner and outer walls having a space therebetween, said guide posts being telescopically disposed in said space and guides on the building slidable on said posts to permit vertical sliding movement of the building through which the guide posts freely pass.

**2,715,757**  
**PORTABLE KNOCKED DOWN STAND AND TENT**  
 Theodore Lester Litwinski, Keyport, N. J.  
 Application November 1, 1951, Serial No. 254,257  
 5 Claims. (Cl. 20-1.6)



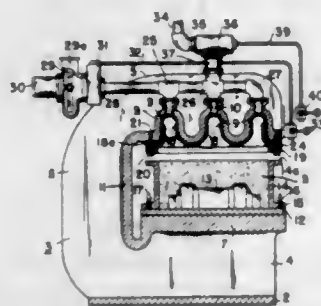
1. A portable stand and tent structure comprising four walls formed of detachable interconnected units



arranged in adjacent boxlike form, the four walls being of approximately counter height, each wall provided with a service counter hingedly affixed to the upper edge, each of one pair of opposed walls provided with a two-piece folding cover, each of which is hingedly affixed to the upper edge, said folding covers completely covering the open structure in one position and lying adjacent to the opposed walls in another position, a central upright positioned in the middle of the boxlike form and provided with a plurality of hooks at the upper end thereof, a plurality of uprights spaced equally apart and at a predetermined distance from the central upright, a plurality of rafters, each hingedly affixed to an upright and provided with an aperture at the unattached end, said rafters being supported at the unattached ends by hooking to the central upright, and a canvas cover supported by said rafters.

2,715,758

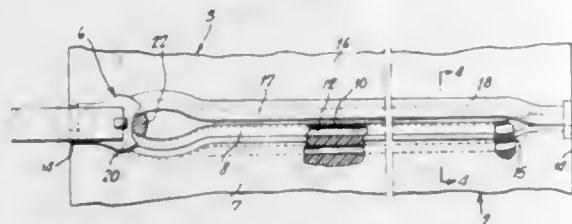
**MACHINE FOR PACKING SAND IN A MOLD BOX**  
Russell W. Taccone, North East, Pa., assignor to Taccone Pneumatic Foundry Equipment Corporation, North East, Pa., a corporation of Pennsylvania  
Application April 3, 1952, Serial No. 280,223  
7 Claims. (Cl. 22-42)



1. A molding machine comprising a support for a mold box, a head supported above said support in fixed spaced relation thereto, said head having a wall forming an open cavity, a flexible relatively thick obtuder secured to said head forming a closed chamber in said head cavity and movable thereinto prior to molding, a mold box adapted to be moved laterally on said support to position said mold box under said head, said head and said support being spaced apart to receive a mold box having a height to leave a clearance gap between said mold box and said head, the clearance gap being less than twice the thickness of said obtuder whereby said mold box is freely slidable between said head and said support, said mold box being adapted to receive molding material, the area of said obtuder being considerably greater than the cross sectional area of said mold box, and means to supply fluid under pressure to said chamber to move said obtuder into engagement with said molding material to compress said molding material into molded condition.

2,715,759

**SLIDE FASTENING DEVICE**  
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania  
Application July 1, 1954, Serial No. 440,593  
12 Claims. (Cl. 24-201)

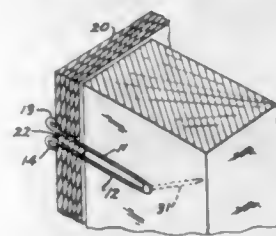


1. A fastening device of the class described comprising a pair of opposed elongated strips of flexible material, each of said strips having a web portion and a thickened marginal portion, one of said strips having

a continuous longitudinally extending hollow rib-like portion arranged along the marginal portion thereof, the other of said strips having a longitudinally extending continuous channel arranged in the marginal portion thereof, the cross section of which corresponds substantially to that of said rib-like portion, said rib-like portion adapted to be inserted into said channel and inflated therein, the marginal portion of said first-mentioned strip having a longitudinally extending continuous passageway arranged therein substantially parallel to said rib-like portion carried thereby, the hollow portion of said rib-like portion and said passageway being sealed at each end, and a transversely extending passageway arranged in the marginal portion of said first-mentioned strip adjacent one end thereof connecting said first-mentioned passageway with the hollow portion of said rib-like portion.

2,715,760

**CONCRETE POURING FORM CONSTRUCTION AND FORM BOARD FASTENER DEVICE**  
Edward F. Kramer, Atascadero, Calif.  
Application October 15, 1952, Serial No. 314,870  
1 Claim. (Cl. 25-131)



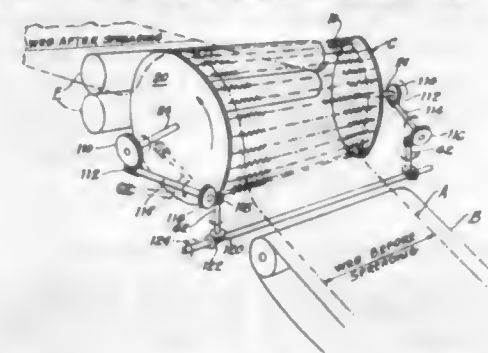
A concrete pouring form construction including a form board and a vertical stud disposed adjacent the outer face of said form board for supporting said board comprising: a circular opening formed through said form board adjacent said stud; means projected through said opening removably securing said form board to said stud; said means comprising an elongate U-shaped body formed of spring metal defining a web portion having a length less than the diameter of said opening and oppositely disposed projecting parallel legs of equal length; a hook-shaped element provided on the outer end of each said leg; said hook-shaped elements projecting laterally outwardly to opposite sides of said U-shaped body; the inherent springiness of said spring metal normally maintaining said legs and associated hook-shaped elements in spread position with said hook-shaped elements engaging the inside face of said form board adjacent said circular opening; said hook-shaped elements arranged for manual closing together against the spring force of said spring metal; the transverse dimension of the hook-shaped elements in closed position being slightly less than the diameter of the circular opening formed through said form board whereby said U-shaped fastener can be projected through or withdrawn from said opening either end first in a straight line path of movement axially of said circular opening.

2,715,761

**APPARATUS FOR EXPANDING MATERIALS**  
Ralph W. Dougherty, North Little Rock, Ark., assignor to The Visking Corporation, Chicago, Ill., a corporation of Virginia  
Application October 28, 1953, Serial No. 388,733  
4 Claims. (Cl. 26-54)

1. A web expanding apparatus comprising a spreader unit having a pair of end discs spaced from each other and positioned at a spreading angle, a plurality of uniformly spaced extensible coil springs disposed between and secured to said discs and constituting the peripheral wall of said unit, means to rotate said unit whereby the length of each spring gradually and progressively accommodates itself to the varying distances between said discs,

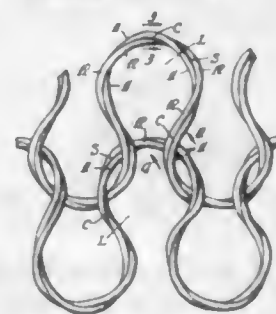
means to feed continuously a web onto such portion of said peripheral wall wherein the springs thereof will be expanded upon rotation of said unit, each of said discs being mounted on a separate shaft, each shaft being



mounted on a bearing carried on a bracket, each bracket being secured to a pivoted lever, and means to move each of said levers about its respective pivot and thereby adjust the angularity of said discs.

2,715,762

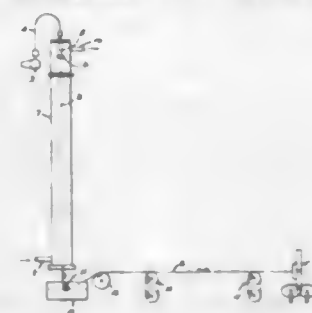
**METHOD OF FORMING KNITTED FABRIC**  
William Schumann, High Point, N. C., assignor, by mesne assignments, to Diamond Hosiery Corporation, a corporation of New York  
Application July 21, 1954, Serial No. 444,895  
3 Claims. (Cl. 28-76)



1. The method of forming a knitted fabric which comprises positioning in a thread carrier of a conventional knitting machine, at least two plastic threads only one of which is pre-shrunk, knitting plural thread loops of such threads and after the fabric is knitted, thereafter subjecting the latter to heat in order to shrink the non-pre-shrunk thread, whereby one of the threads of each loop will exert tension against the other at the cross-over portions of said loops to bond the threads together at said cross-over portions.

2,715,763

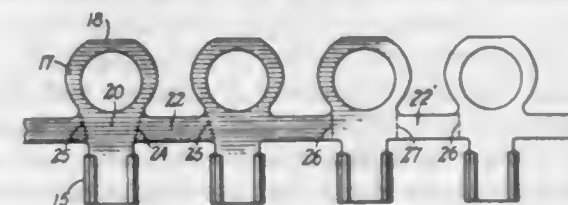
**SYNTHETIC TEXTILE FIBER**  
Robert G. Marley, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware  
Application June 27, 1950, Serial No. 170,540  
3 Claims. (Cl. 28-82)



1. As an article of manufacture, staple fiber comprising a copolymer containing from about 70 to 93 parts by weight of vinyl halide and 30 to 7 parts by weight of vinyl ester, said staple fiber being characterized by a denier of the order of 5.5, a strength of about 0.8 gram per denier, a shrinkage on heating of 60 to 90%, and an extensibility of about 8.8%.

2,715,764

**METHOD OF APPLYING CONNECTORS TO CONDUCTORS**  
Frank L. Pierce, Boston, Mass., assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa.  
Application April 22, 1954, Serial No. 424,888  
3 Claims. (Cl. 29-155.55)



1. In the art of putting various kinds and sizes of electric terminals on wires, said terminals, although being of various kinds and sizes, having in common a ferrule portion, a contact portion, and an intermediate neck between said ferrule and said contact portions, that improvement which includes the steps of: forming a first strip of terminals arranged in transverse side-by-side disposition with means connecting the necks of successive terminals to maintain them spaced apart, said first strip being characterized by uniformity in the linear distance from a point on the neck of a terminal to a corresponding point on the neck of the next successive terminal, independent of the size and shape of said terminals, intermittently feeding the terminals of said first strip successively to a crimping point starting with the leading end terminal with a feed stroke equal to said uniform linear distance between corresponding points on the necks of successive terminals, crimping said terminals onto wires at said crimping point, forming a second strip of terminals having different dimensions from those of said first strip, said second strip being characterized by the same uniformity in the linear distance from a point on the neck of a terminal to a corresponding point on the neck of the next successive terminal, independent of the size and shape of said terminals to adapt it for the same feed stroke as the first strip, intermittently feeding said second strip of terminals successively to said crimping point starting with the leading end terminal with a feed stroke equal to said uniform linear distance between corresponding points on the necks of successive terminals, and crimping said terminals of said second strip onto wires at said crimping point.

2,715,765

**HOT WORKING VANADIUM**  
Charles M. Brown, Lewiston, and Arthur E. Shrubsall, Niagara Falls, N. Y., assignors to Union Carbide and Carbon Corporation, a corporation of New York  
No Drawing. Application August 6, 1952, Serial No. 302,987  
5 Claims. (Cl. 29-424)

1. In the hot working of metallic vanadium and vanadium-base alloys the improvement which comprises applying a molten flux coating to the metal to be wrought, such flux comprising a mixture of the oxides of sodium, boron, and silicon and having a melting point in the range of 600° C. to 1200° C., working such metal in the range 600° C. to 1200° C. while it is coated with such flux, cooling the metal so wrought, and removing the flux coating therefrom.

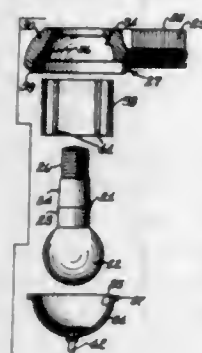
2,715,766

**METHOD OF MAKING A JOINT ASSEMBLY**  
Bernard E. Ricks, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application July 11, 1950, Serial No. 173,164  
1 Claim. (Cl. 29-441)

The method of making a ball joint which comprises forming a housing having a segmental spherical impres-



sion therein terminating at one end in a reduced diameter opening and at the other end in a substantially diametrical opening, forming a counterbore bottomed by a shoulder in the end of said housing adjacent said diametrical opening, forming a substantially cylindrical bearing shell of rubber-like material having a plurality of longitudinal grooves along the inner surface thereof, assembling a spherical ball head of a stud within said bearing shell, inserting said stud and bearing shell assembly into said segmental spherical impression and deforming one end of said bearing shell into complementary relation between said impression and said ball head, assembling a cap having a substantially semi-spherical impression therein over the diametrical opening at one



end of said spherical impression to deform the other end of said bearing shell into complementary relation between said ball head and the semi-spherical surface of said cap, said cap having a radially outwardly directed annular flange therearound disposed in mating relation within said counterbore, forming radially inwardly the housing portion about said counterbore to fixedly retain said cap against said shoulder thereby retaining said spherical ball head in universally rotatable spherical bearing relation within said bearing shell, and assembling a lubricating fitting through said cap to permit application of lubricant to said mating bearing surfaces through the longitudinal grooves along the inner surface of said bearing shell.

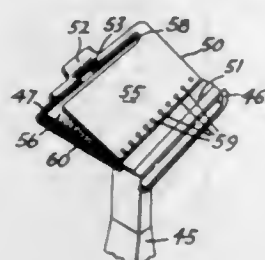
2,715,767

## SAFETY RAZOR

Harold W. Van Heest, Weston, Mass.

Original application October 25, 1951, Serial No. 253,053, now Patent No. 2,705,365, dated April 5, 1955. Divided and this application January 10, 1955, Serial No. 480,979

1 Claim. (Cl. 30-41)



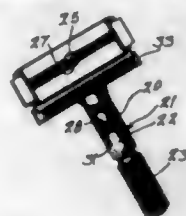
In a safety razor of the kind described employing single-edged blades, and wherein the blade is clamped into operative position by hinged blade clamping means, said means comprising a blade-clamping member comprising an outer shell and a backing plate united at the bottom and sides and provided with a plurality of transverse wedge-shaped partitioning elements therebetween to constitute a number of liquid-guiding compartments within said member, said outer shell formed with a lengthwise liquid-receiving recess disposed along its upper edge and a plurality of liquid-dispensing ports adjacent its lower edge.

2,715,768  
ROTATABLE BLADE CLAMPING SAFETY RAZOR

Paul Hoberg, Brooklyn, N. Y.

Application October 30, 1952, Serial No. 317,681

4 Claims. (Cl. 30-60.5)



1. A safety razor comprising a hollow handle, a hollow handle-rod extending rotatably through said hollow handle, a head plate removably secured to said handle, and a pair of blade-clamping members engaging said hollow handle-rod, said hollow rod having a shank portion extending through one end thereof, and tension means on said shank portion biasing said shank portion towards the central portion of the handle-rod.

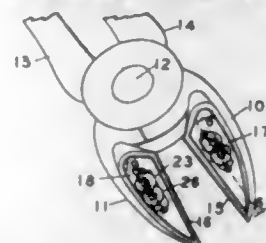
2,715,769

## WIRE CUTTING AND RETAINING NIPPER

Jerome D. Liscomb, Indianapolis, Ind.

Application August 17, 1954, Serial No. 450,469

4 Claims. (Cl. 30-124)



1. A wire-retaining nipper comprising a pair of pivotally-associated jaws, the adjacent edges of which are sharpened, an anvil for each jaw, each anvil being formed with a slot elongated in a direction substantially parallel with its associated jaw edge, means penetrating each such slot, fixedly engaging the associated jaw, and overlying the associated anvil to retain said anvil on its jaw, the portion of such means disposed in said slot having a dimension less than that of said slot in a direction transverse relative to said edge whereby said anvil is free for limited movement in a direction transverse relative to said edge, and a leaf spring disposed in each slot, each spring engaging its anvil and said means and being flexed to resist movement of its anvil away from the sharpened edge of its associated jaw.

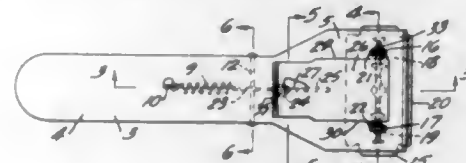
2,715,770

## SCRAPING TOOL

Raymond E. Meyer, South St. Paul, Minn.

Application May 1, 1953, Serial No. 352,475

2 Claims. (Cl. 30-330)



1. A scraping tool, having a handle end portion and a scraping end portion, said scraping end portion comprising a pair of opposed jaws hingedly connected for movement relative to each other and adapted to hold a scraping blade therebetween, one of said jaws being provided with a plurality of apertures, the other of said jaws being provided with a plurality of hooks aligned with and adapted to pass through said apertures, the outer surface of said apertured jaw having a longitudinally slidable lock means mounted upon it, said lock means having

two side edge portions, each of said side edge portions being provided with an inclined slot, said slots being parallel and opposed, said lock means carrying a pin adapted to engage said hooks, and a spring adapted to retract said lock means toward the handle end portion of said tool, said pin riding freely in said inclined slots, whereby it is wedged upwardly under said hooks by the lower edges of said slots, as said lock means is retracted by said spring.

2,715,771

## DENTURE SECURING MEANS

Dudley D. Levy, Mount Vernon, N. Y.

Application April 22, 1954, Serial No. 424,835

8 Claims. (Cl. 32-3)



1. A device for securing a denture to the mouth, comprising a substantially flat roof portion to be secured to the denture, a wall portion depending marginally therefrom and an inwardly directed sealing ledge at the lower end of the wall portion to contact the mouth, said sealing ledge being pointed downwardly and inwardly relative to the roof portion, and defining therewith and with the wall portion, a chamber, said device being made of resilient material.

2,715,772

## DENTAL BURR

Adolf Fritz, Dresden, Germany, assignor to Frico G. m. b. H., Gold- und Silber-Scheide Anstalt, Munich, Germany

Application July 15, 1950, Serial No. 174,042

3 Claims. (Cl. 32-48)



1. Dental burr for drilling root canals always true in size to slightly tapered root pins to be inserted, said burr comprising a shank, and a drill proper, said drill including two portions, one portion being provided with cutting edges extending substantially parallel to the axis of the burr through a part of the drill length, the other of said portions being provided with cutting edges forming continuations of the first named cutting edges and tapering slightly toward the point of the drill, adjoining cutting edges of both portions extending in a plane through the axis of the burr, cross sections taken in any plane through the drill portions forming a regular polygon.

2,715,773

## AMALGAM CARRIER

Albert E. Chandler, San Antonio, Tex.

Application April 5, 1954, Serial No. 421,149

7 Claims. (Cl. 32-60)



1. An amalgam carrier comprising a pair of levers having intermediate portions crossed in overlapping re-

lationship and pivotally connected in scissors-like fashion, portions to one side of the pivotal connection providing manually actuated handles, and portions to the other side of said pivotal connection providing jaws movable toward and from each other, an open-ended fillings applicator barrel hingedly mounted on one jaw, a plunger reciprocable in the bore of said barrel, an operating connection between one end of said plunger and the other jaw, said barrel being swingably adjusted to assume a commonly needed position at right angles to the long axis of said one jaw, other often needed positions at obtuse and acute angles, respectively, as well as intermediate angular positions between the extreme acute angled and obtuse angled positions, and adjusting and retaining means between said one jaw and an intermediate portion of said barrel.

2,715,774

## CURVE ANALYZING DEVICE

Clarence M. Shepherd, Washington, D. C.

Application August 25, 1952, Serial No. 306,120

1 Claim. (Cl. 33-1)



A template comprising an elongated sheet of material having its outline in the form of a continuous irregular curve and defining a bulbous head portion and a relatively narrow tail portion, the center line of said irregular curve defining a curve of progressively decreasing curvature extending throughout the head and tail portions of the template, a marking opening in the template for the insertion of a pencil point for establishing a straight line of reference, and graduations at spaced points along the margin of the template coextensive with the irregular curve and designating the angle formed by the intersection of said line of reference with tangents to the respective points upon the curve.

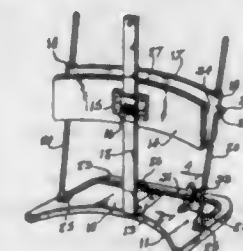
2,715,775

## TAILOR'S GARMENT LENGTH MARKER

George Nakashian and Harry Nakashian, Bronx, N. Y., assignors to Mary Nakashian, New York, N. Y.

Application April 20, 1951, Serial No. 222,066

11 Claims. (Cl. 33-9)



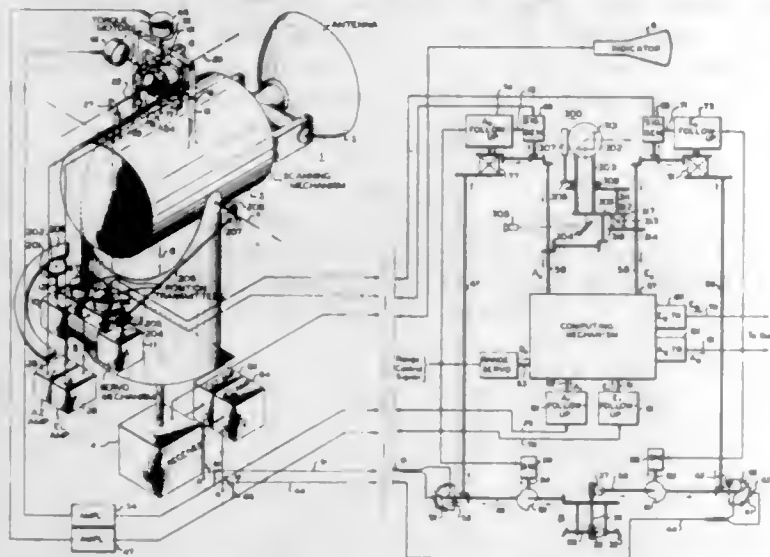
1. A measuring device for locating the hem line of a garment which comprises a base, a vertically disposed post secured to said base intermediate the ends of said base, a backing plate adjustably mounted on said post, a pair of support arms each comprising a vertical leg and a horizontal arm, means pivotally securing each support arm to said base at the ends of said vertical leg, a cross-piece connecting said horizontal arms, a clamping plate adjustably mounted on said support arms, tension means secured to said cross-piece and vertical post biasing said clamping plate towards the backing plate, and latch



means pivotally secured to said base and overlying the cross-piece in latch position to releasably prevent the biasing action of the tension means.

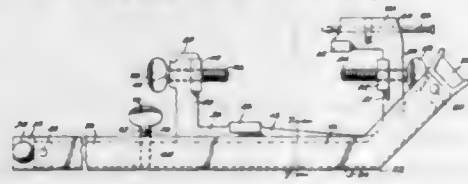
### 2,715,776 STABILIZED GUN CONTROL SYSTEM WITH AIDED TRACKING

Richard C. Knowles, New York, Carl G. Holschuh, Glen Head, and Walter T. White, Brooklyn, N. Y., assignors to Sperry Rand Corporation, a corporation of Delaware  
Application May 25, 1942, Serial No. 444,490  
35 Claims. (Cl. 33-49)



1. A stabilized fire control system for deriving data for properly aiming a gun to engage a fast moving target, comprising a remote sighting device defining a line of sight, a free gyro, means responsive to movements of said gyro for controlling said sighting device, a manual tracking control member, means for producing a signal by and proportional to displacement of said member, means controlled by said signal for precessing said gyro at a rate proportional to said signal, a target orientation data device and a target orientation rate data device adapted to supply target orientation and rate data to a computer for deriving gun aiming data when said orientation and orientation rate devices are actuated by data corresponding to the present orientation and angular velocity of a target, means for controlling said orientation data device in synchronism with said sighting device, whereby data corresponding to the orientation of said line of sight is set into said orientation data device, means for controlling said rate data device by said signal, whereby said rate data device is set in accordance with said target velocity, a local sighting device coupled directly to said orientation data device to be actuated simultaneously therewith, and means for additionally displacing said local sighting device and said orientation data device by and in proportion to the displacement of said control member, whereby aided tracking is produced during tracking by means of said local sighting device.

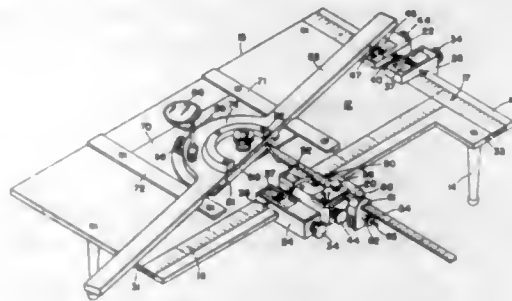
2,715,777  
GUIDE LINEHOLDER FOR MASONS  
Robert B. Taylor, Elmhurst, and Paul V. Johnson, Park Forest, Ill., assignors to Structural Clay Products Research Foundation, Chicago, Ill., a trade association  
Application August 25, 1954, Serial No. 452,130  
8 Claims. (Cl. 33-85)



8. A guideline holder for use with a mason's corner pole having a U shaped cross section and a coursing scale

at the base leg of the U, and a guideline, the guideline holder being characterized by an elongate channelled body, a leg at the end of the body at 45° with the body, a guideline yoke at the end of the angled leg with guideline datum means, a C shaped corner pole grip, the back of which is proportioned for a sliding fit with the channelled body, four pads integral with the clamp having faces proportioned and oriented to engage the side legs of the U shaped corner pole, means for removably locking the grip to the corner pole, aligning means on the grip for correlating its location with the coursing scale on the corner pole, means selectively locking the grip to the channelled body permitting adjustment of the location of the guideline datum means with relation to the corner pole, and guideline securing means translating the tension in the positioned guideline into reactive forces between the pad faces and the corner pole thereby frictionally securing the guideline holder to the corner pole to facilitate orientation as an associated masonry wall is erected.

2,715,778  
ANGLE CALCULATOR  
Kenneth A. Murdock, Port Orchard, Wash.  
Application April 26, 1954, Serial No. 425,522  
8 Claims. (Cl. 33-97)

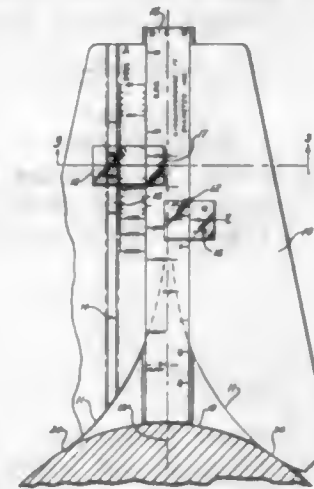


1. An angle calculator, comprising: a plate having a pair of graduated scales intersecting at right angles and positioned near two adjoining edges of the plate, a pair of traveling abutment members mounted on said plate and means guiding said abutment members in movement along said scales and means for securing the abutment members in various adjusted positions relative to said scales, a protractor base positioned on said plate in the included angle between said scales and said plate having guideways supporting the protractor base in movement toward and away from one of said scales, said protractor base having an arm mounted to pivot about a point thereon and having a scale in degrees adapted to show change in the angular position in degrees of said arm relative to said protractor base as it pivots about said point, and said abutment members having indicator abutments positioned to be contacted by said arm.

2,715,779  
MACHINIST'S CALCULATOR  
David R. Hughson, Ottawa, Ontario, Canada  
Application June 15, 1953, Serial No. 361,760  
8 Claims. (Cl. 33-178)

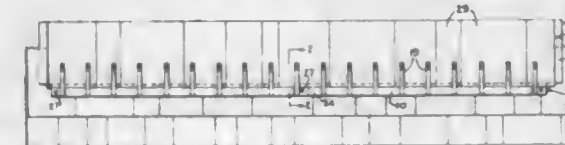
1. A machinist's calculator comprising in combination: a body carrying a logarithmic scale designating cutting speeds; diverging symmetrical curves providing engaging surfaces on said body adapted to engage at two points the circumferential surface of a workpiece and formed on the locus of the common tangent of all circles engageable by said surfaces; a slide having an engaging end slidably mounted in said body and movable parallel to said scale, and in a direction equidistant from said surfaces and toward the workpiece to engage a circumferential surface thereof at a third point; a speed scale calibrated in revolutions per unit of time arranged loga-

rithmically on said slide and a cursor slidable in said body including means extending over both said scales



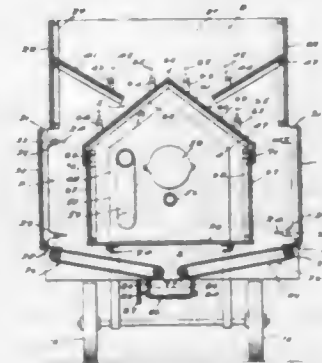
whereby corresponding positions on said scales may be visually located by an operator.

2,715,780  
SHINGLING DEVICE  
John W. Hageman, Dumont, N. J.  
Application July 13, 1954, Serial No. 442,938  
2 Claims. (Cl. 33-188)



1. In a shingling device an elongated channel section body comprising a first vertical web having an upper lateral flange on its upper edge constituting an outer shingle course straight edge rest, said upper lateral flange terminating in a second vertical web in turn terminating in another lateral flange constituting an inner shingle course straight edge rest, and a plurality of spring clips secured to said first vertical web having free upper ends projecting above said first web and displaced toward said inner course rest, and wall engaging blocks spaced from each other along said body and secured in the space between said first vertical web and said upper lateral flange said blocks having bores therethrough and said first vertical web having holes registered with the bores for extension therethrough of fastening elements.

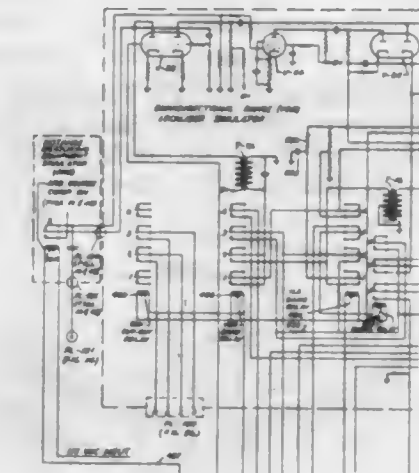
2,715,781  
GRAIN DRIER  
Elmer J. Sproul, Stoughton, Wis.  
Application September 4, 1953, Serial No. 378,573  
7 Claims. (Cl. 34-174)



1. A grain drier of the character set forth, comprising a bin having front, back and side walls and inwardly and downwardly converging bottom walls, said bottom walls being spaced apart at their convergent edges for the passage of grain therebetween, a heating unit below said bin, a screen cage enclosing said unit, said screen cage comprising a top formed of upwardly converging screens arranged to have grain deposited thereon from said bot-

tom walls to flow outwardly and downwardly thereover to the outer side of the cage, means supporting said screens for vertical adjustment relative to the convergent edges of said bottom walls, side walls below the bin side walls and in spaced relation with the sides of the cage, means below the cage for receiving the downwardly flowing grain and conveying it toward the center of the drier, and means below the receiving means for receiving the grain and carrying it out from beneath the cage and heating unit.

2,715,782  
RADIO NAVIGATION TRAINER  
Forrest Cooper, Jr., Milford, N. Y., and James Hicken, Seattle, Wash., assignors to Link Aviation, Inc., Binghamton, N. Y., a corporation of New York  
Application March 11, 1950, Serial No. 149,051  
14 Claims. (Cl. 35-10.2)



13. A navigation trainer comprising in combination an electrical computer having a plurality of inputs and an output for deriving a signal proportional to the range of an assumed destination from the simulated location of the trainer, means for deriving a first voltage corresponding to the relative bearing and range of said assumed destination from the location of a simulated radio transmitting station, means for deriving a second voltage corresponding to the relative bearing and range of said simulated location of the trainer from said simulated radio transmitting station location, means for applying said first and second voltages to the inputs of said computer, an indicator responsive to the output signal of said computer to indicate the computed range of said assumed destination from said simulated location of the trainer, connecting means responsive to said second derived voltage as a first condition for connecting the output of said computer to said indicator only when said second voltage is within predetermined limits, frequency setting means under the control of an instructor adjustable in accordance with the transmission frequency of said simulated radio station, a simulated tuning control in said trainer adjustable by a trainee, further means co-operating with said connecting means and responsive to correlated adjustment of said frequency settings means and said simulated tuning control as a second condition for connecting the output of said computer to said indicator only when the adjustments of said tuning control and said frequency setting means correspond, and means for indicating whether said indicator is connected to said computer.

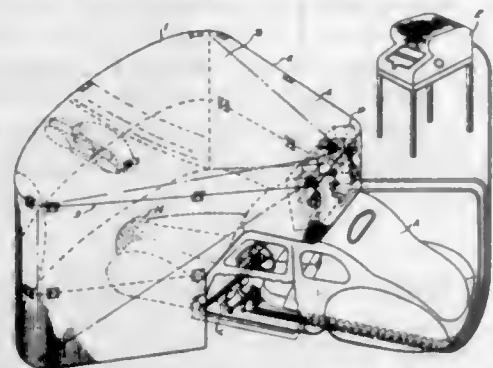
2,715,783  
TESTING AND TRAINING MECHANISM  
Conkling Chedister, Livingston, N. J., Hobart N. Durham, Manhasset, N. Y., and George B. Finnegan, Jr., Mount Lakes, N. J.

Application June 30, 1950, Serial No. 171,434  
12 Claims. (Cl. 35-11)

1. In a testing machine, in combination, a control adapted to be actuated by an operator, means for pre-

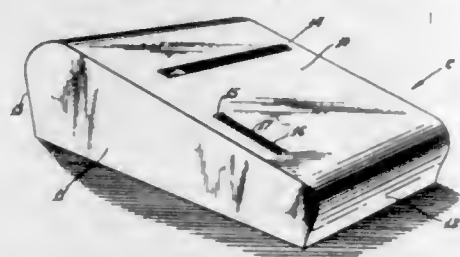


sending to the operator an action scene calling for actuation of said control, and means responsive to said control for presenting a resultant scene corresponding to a correct



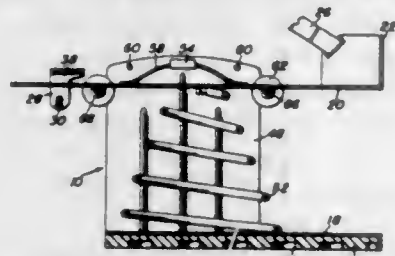
actuation of said control and for presenting a different resultant scene upon operator failure to operate the control correctly.

**2,715,784**  
**PSYCHOLOGICAL TESTS TAKING DESK**  
Robert Genest, Montreal, Quebec, Canada  
Application July 21, 1952, Serial No. 300,077  
5 Claims. (Cl. 35—22)



1. As a portable desk for psychological tests, an otherwise closed casing having an opening in the top surface thereof, a strip of writing paper disposed to be unrolled underneath said opening and be displayed therethrough, a belt movable transversely across the paper strip between said strip and the opening, said belt having a window and being trained over a loose and a driving pulley, a constant-speed prime mover, a variable-speed transmission between the motor and driving pulley for actuating the belt, means for adjusting the transmission speed, and a step-by-step mechanism for advancing the sheet across the opening actuated by said variable-speed transmission.

**2,715,785**  
**SPRING OPERATED JUMPING SHOE**  
Percy L. Pace, Johnstonville, Calif.  
Application December 16, 1954, Serial No. 475,692  
5 Claims. (Cl. 36—7.8)



1. A jumping shoe for attachment to the shoe of a wearer comprising a ground engaging base plate, a supporting plate in vertically spaced parallel relation to said base plate, means for detachably securing the supporting plate to the shoe of the wearer, a spring extending between said plates for permitting movement thereof, and guide means extending between said plates, said base plate terminating rearwardly of the forward end of said supporting plate thereby permitting the jumping shoe to tilt forwardly about a fulcrum at a point spaced rearwardly from the front of the supporting plate, said guide means including a pair of rigid side plates secured to the base plate for extending along each side of

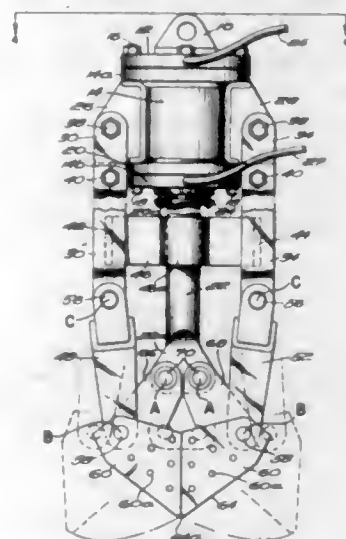
the supporting plate, and a pair of guide rollers on each side of the supporting plate for engaging opposite edges of each side plate, each of said rollers including a peripheral groove for receiving the edge of the side plate.

**2,715,786**  
**SNOWPLOW**  
John Dorko, Youngstown, Ohio  
Application January 9, 1952, Serial No. 265,674  
1 Claim. (Cl. 37—53)



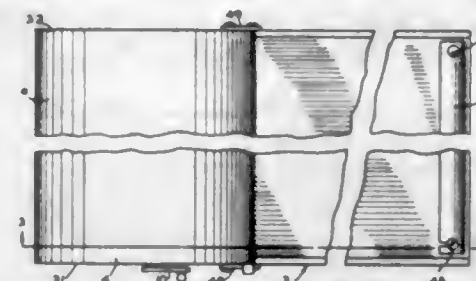
A snowplow comprising a curved blade positioned at an angle from vertical and having adjacent the top edge thereof a horizontally positioned rearward extension provided with an opening and a plurality of downwardly extending projections radially spaced thereabout, a wheel carrying inverted U-shaped bracket pivotally secured to the lower surface of said extension by a nut and bolt assembly engaging said opening and having depressions radially spaced about said nut and bolt assembly registering with said projections, said wheel carrying bracket having a tubular extension rearwardly thereof and a handle secured to said tubular extension.

**2,715,787**  
**DROSSING BUCKET**  
James Howard Williams, Lincoln, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware  
Application October 16, 1951, Serial No. 251,575  
2 Claims. (Cl. 37—188)



2. A drossing bucket comprising a frame having a plurality of substantially vertically disposed members, fluid pressure responsive means to which the upper end of each said frame member is rigidly secured, supporting arms hinged to the lower ends of said frame members, a substantially vertically movable force transmitting rod arranged centrally within said frame and actuated by said pressure responsive means, cross members rigidly joining certain of said frame members near the lower ends thereof, means rigidly interconnecting said cross members and including a central bearing axially spaced from said fluid pressure responsive means to guide the movement of said rod and give said frame rigidity, and complementary jaws hinged on the lower ends of said supporting arms and hinged on the lower end of said rod for opening and closing movement of the jaws in response to said movement of the rod.

**2,715,788**  
**MAP HOLDER AND DISPLAY BOARD FOR MAPS INCLUDED IN A SHEAF**  
James G. Gutshall, Phoenix, Ariz.  
Application January 21, 1955, Serial No. 483,298  
3 Claims. (Cl. 40—83)



1. A map holder and display board comprising a rectangular viewing board having an upper face, a map sheaf roller journaled at one end thereof, a sheaf of maps bound at one end in a cover attached to the face of said roller and wound around said roller, a cover for said roller hinged at the end of said board adjacent said roller and covering said roller except for a throat opening toward the opposite end of said board, and endless elastic belts operating transverse to the axis of said roller and running over rollers on the inner face of said cover to provide an outer lay contacting the surface of the maps wound on said roller from the upper edge of said throat to the surface of said board substantially below said throat; said bands engaging the free edges of any maps of said sheaf above a map drawn outward from said throat and over said viewing board and confining said edges so that the said maps above the drawn map will roll around said roller and slide under the map drawn through said throat and over the upper face of said viewing board.

**2,715,789**  
**MAGAZINE FOR A FIREARM**  
John C. Garand, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War  
Application May 26, 1949, Serial No. 95,560  
3 Claims. (Cl. 42—50)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A firearm magazine comprising in combination, a substantially rectangular casing, a floor plate releasably secured to the bottom of said casing, a follower arranged for vertical movement within said casing, said follower having oppositely disposed and downwardly extending first and second sides, said first side having a protrusion on the interior face thereof, said second side having a pair of spaced apart diverging hook-like projections bent inwardly and toward said protrusion on said first side, and a follower spring having a substantially rectangular uppermost coil arranged to lie between said first and second follower sides so as to be releasably retained by said protrusion and by said diverging hook-like portions.

**2,715,790**  
**PLUG WITH OPTIONALLY USABLE WEIGHT AND HARNESS**  
Wilbur D. Carpenter, Coffeyville, Kans.  
Application May 2, 1952, Serial No. 285,649  
1 Claim. (Cl. 43—42.09)

In a fish lure, a solid buoyant plug of elongate form provided at leading and trailing ends with axially positioned sockets providing individual keeper seats, said plug being provided at the center of its ventral portion with a right angularly disposed recess closed at its upper

end and opening at its lower end through said ventral portion and providing a pocket for reception of insertable and removable weights, a readily attachable and detachable harness comprising a longitudinally bowed resilient narrow band spanning and contacting said ventral portion from its leading to its trailing end, the intermediate portion of said band bridging the open lower end of said pocket, said band being narrower than said open end of the pocket to expose portions of the latter and



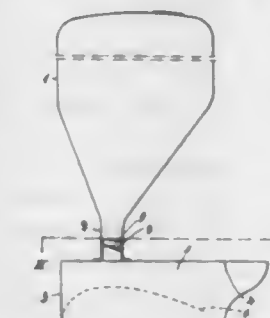
having constantly tensioned detents releasably fitted into their respective keeper seats, and selectively usable weights removably located in said pocket, said weights being seated on that portion of the band bridging said pocket, being held in the pocket solely by the cooperating bridging portion of the band, being wholly detached from the band, and said weights being of a cross-section greater than the width of said cooperating portion of said band.

**2,715,791**  
**ARTIFICIAL FISHING LURE**  
Joe Kautzky, Fort Dodge, Iowa  
Application June 16, 1952, Serial No. 293,754  
1 Claim. (Cl. 43—42.48)



In a fish lure, an elongated arched body having a center hump portion, at least one fish hook on said arched body, said body portion having a flared flange rearwardly of said hump and extending upwardly and forwardly relative to the longitudinal center line of the body portion, said flange portion being outwardly extended from the body portion only at the sides and top of said arched body.

**2,715,792**  
**POWER CONTROL FOR AERIAL CROP DUSTING**  
Per John Magnusson, Uppsala, Sweden  
Application June 5, 1951, Serial No. 229,934  
Claims priority, application Sweden July 15, 1950  
3 Claims. (Cl. 43—147)



1. A control device for crop dusting apparatus of the class described, comprising: a powder reservoir adapted to be carried by an engine driven aircraft; spreading means disposed in the airstream of said aircraft while in flight, said spreading means being connected to said reservoir to receive powder therefrom; a throttle lever adapted to control the engine speed of said aircraft; a handle member for manually displacing said throttle lever, said handle member being secured to said throttle lever for ro-



tation with respect thereto; valve means controlling the flow of powder from said reservoir to said spreading means; and valve control means coupled to said handle member and said valve means, said valve control means causing said valve means to change the flow rate of said powder from said reservoir to said spreading means in response to rotation of said handle member with respect to said throttle lever, whereby the pilot of said aircraft varies both the engine speed thereof and controls the spreading of said powder by the use of a single hand.

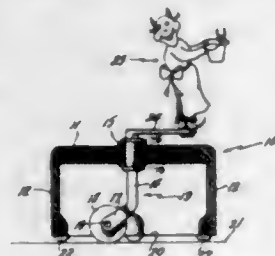
2,715,793

**SWIVELY MOUNTED WHEELED FIGURE TOY**

David Strauss, Albany, N. Y.

Application April 17, 1953, Serial No. 349,466

3 Claims. (Cl. 46—107)



1. An article of manufacture, comprising an open-ended housing to rest on a flat surface; eccentric means, including a single wheel, swivelly mounted within the confines of said housing on one end of said means, said wheel extending beneath the lowermost edge of said housing likewise to contact said surface; and an object mounted on the other end of said means and positioned above said housing, and out of contact therewith, whereby said object will become animated in said position in response to movement of said housing in any direction along said surface.

2,715,794

**PROPAGATORS FOR RAISING PLANTS**

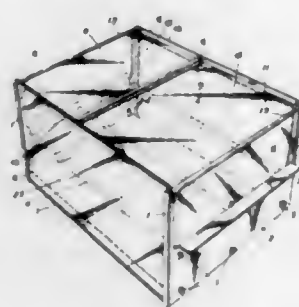
Joseph Atkinson, Tulse Hill, London, England

Application December 4, 1953, Serial No. 396,164

Claims priority, application Great Britain

December 27, 1952

8 Claims. (Cl. 47—19)



1. A propagator for raising plants, in the form of a box-like structure comprising two end members held together in spaced relationship by rigid longitudinal tubular members extending between them inside the structure, one plurality of said longitudinal members being spaced apart at a common lower level, another plurality of said longitudinal members being spaced apart at a common higher level, said longitudinal members thereby serving as supports for seed-trays at different superposed levels within the structure, means for removably supporting light-transmitting front and rear walls and a light-transmitting roof cover for the box-like structure between said end members, an electric heater element located inside one of the tubular longitudinal elements at the lower level, and a thermostat control element, in circuit with said heater element, located inside one of the tubular longitudinal elements at the higher level.

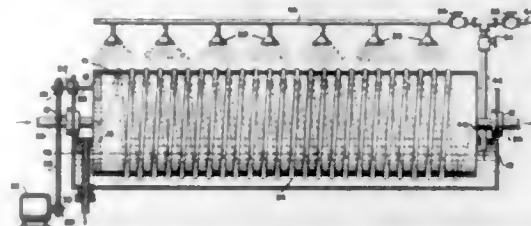
2,715,795

**MICROORGANISM CULTURE METHOD AND APPARATUS**

Arthur J. Pallotta, Donald F. Bogdanski, and Richard O. Thomas, Washington, D. C., assignors to Basic Research Corporation, Washington, D. C., a corporation of Delaware

Application June 22, 1954, Serial No. 438,384

20 Claims. (Cl. 47—58)



1. A method of propagating photosynthetic microorganisms comprising exposing an aqueous bath containing microorganisms to one surface of a dialyzing membrane, exposing a nutrient bath for said microorganisms to an opposed surface of said membrane, and exposing said microorganisms to light.

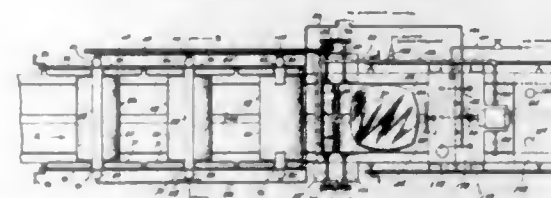
2,715,796

**APPARATUS FOR SMOOTHING AND POLISHING TELEVISION PANELS AND BULBS**

Lyle A. Beard, Knoxville, and Harvey R. Buskirk, Ulster, Pa.

Application November 12, 1952, Serial No. 319,940

5 Claims. (Cl. 51—3)



1. Apparatus for polishing and smoothing television picture tube panels and bulbs, comprising: a supporting frame; a conveyor supported thereon and including a pair of side by side, endless belts tiltably adjustable about axes extending longitudinally thereof, between one position in which said belts are aligned transversely of the frame in a common horizontal plane for supporting panels, and a second position in which the belts converge downwardly when viewed in cross section for supporting bulbs; means for holding the belts in selected positions to which they are tiltably adjusted; a series of drums spaced longitudinally of the conveyor and each carried by a horizontally disposed shaft rotatably mounted above the conveyor; means for cleaning said articles of pumice after passage thereof under said drums; a series of vertically disposed shafts rotatably mounted above the conveyor and carrying at their lower ends discs arranged to polish said articles after movement thereof past said means; and means for, in succession, cleaning and drying the articles after passage thereof beyond the discs.

2,715,797

**SICKLE GRINDER**

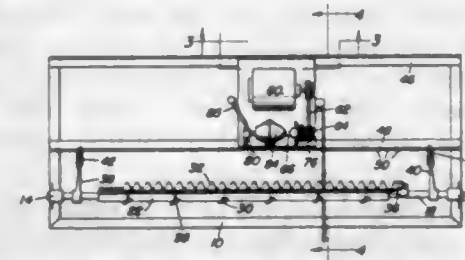
Robert W. Fuller, Durham, N. C., assignor of fifty per cent to J. F. Colvard, Durham, N. C.

Application March 19, 1953, Serial No. 343,289

2 Claims. (Cl. 51—33)

1. A sickle grinder comprising a stand, a shaft rotatably supported on said stand, a sickle blade holder secured to said shaft, resilient means engaging said shaft for holding said sickle blade holder in a normal position, a pair of spaced carriage tracks on said stand, one of said tracks having a plurality of notches therein forming an index bar, a carriage movably mounted on said tracks, a grinding stone pivotally mounted on said

carriage, means for driving said grinding stone carried by said carriage, an operating handle for pivoting said grinding stone into resilient grinding engagement with a sickle blade carried by said sickle blade holder, and a carriage indexing arm pivotally attached to said car-



riage selectively engaged in index notches in said index bar to correspond to the teeth in a sickle blade, said resilient means including an arm attached to said sickle blade holder, and a spring attached to said arm and said index bar.

2,715,798

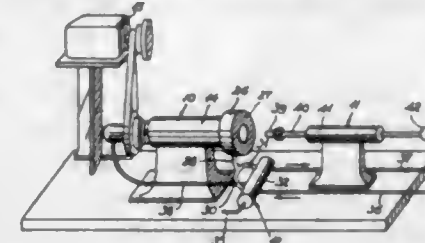
**APPARATUS FOR GRINDING STOPPERS**

André Jollivet, Paris, France

Application March 16, 1954, Serial No. 416,496

Claims priority, application France April 29, 1953

5 Claims. (Cl. 51—73)



1. An apparatus for grinding stoppers, comprising in combination a non-rotating stopper support, mounted to slide axially of the said stopper, a face-plate adapted to be rotatably driven, a circular row of members of abrasive material forming an interior passage co-axial with the said stopper, each said member being pivotally mounted on the said face-plate, abutment members on the said face-plate to limit the travel of each member between two positions, a counter-weight on each member, at least one radial blade on each member, and means for projecting liquid jets against the said blades so as to supply the grinding area with liquid and to overcome the effect of the centrifugal force acting on the said counter-weights and to apply elastically the said members against the stopper.

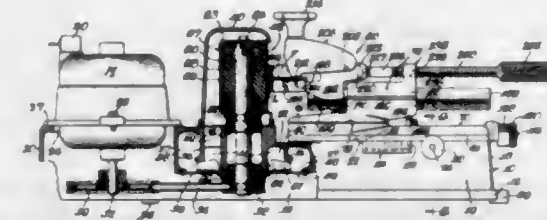
2,715,799

**GRINDING DEVICE**

Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois

Application August 19, 1950, Serial No. 180,425

14 Claims. (Cl. 51—96)



1. In a brake shoe grinding apparatus, a base, a grinding element mounted on said base, a carriage mounted on said base for movement toward and away from said grinding element, a turntable pivotally mounted on said carriage, a brake shoe supporting chuck assembly slidably disposed on said turntable for radial movement thereon, an open half-nut on said turntable, a feed screw rotatably and swingably secured to said chuck assembly

and swingable into and out of threaded engagement with said half-nut, said feed screw constituting a thrust rod for manually sliding said chuck assembly radially on said turntable when disengaged from said half-nut and constituting feed means for adjustably moving said chuck assembly radially on the turntable upon rotation of the feed screw when it is in threaded engagement with said half-nut.

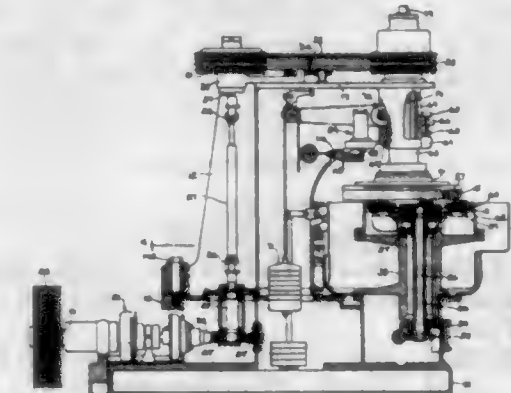
2,715,800

**LAPPING MACHINES**

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Continuation of application Serial No. 40,299, July 23, 1948. This application December 7, 1951, Serial No. 260,428

4 Claims. (Cl. 51—118)



1. In a lapping machine having a base, a vertical column thereon, an upper lapping wheel rotatably supported on said column having a plane operative face, driving means on said base to rotate said wheel at a lapping speed, a freely rotatable lower lapping wheel having a frusto-conical radial lapping face opposed to the operative face of the upper lapping wheel, a rotatable support therefor on said base, a rotatable work cage between said wheels, a drive shaft rotatably supported on said base to support and rotate said cage about an axis concentric with the axis of the lower lapping wheel, a plurality of radial work receiving apertures in said cage, said cage being substantially the same diameter and concentric with the lower lapping wheel, a stationary guide ring on said base surrounding substantially the entire periphery of said cage having an internal cylindrical surface to maintain the work pieces in a concentric path relative to the lower lapping wheel, a work loading aperture in said ring, an adjacent work discharge aperture in said ring, said cage and lower lapping wheel having their axes substantially offset relative to the axis of the upper lapping wheel, and driving means on said base to rotate said cage at a relatively slow speed so that the radial axes of the cage apertures cause the axes of the work pieces being lapped to move in a continuously changing path relative to radii of the upper lapping wheel to provide a predetermined break-up and lapping action upon the work pieces being lapped.

2,715,801

**BEVELLED KNIFE BLADE GRINDING**

Charles A. Johnson, Berlin, N. H.

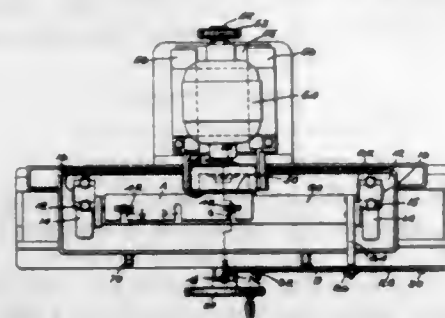
Application January 31, 1951, Serial No. 208,729

9 Claims. (Cl. 51—122)

1. Apparatus of the character described comprising a base, a carriage mounted on said base for reciprocation relative thereto, a work holder mounted on said carriage for rotation about one side of an axis extending in the direction of the path of reciprocation of said carriage, said work holder being adapted to hold a flat-surfaced piece of work with its flat surface lying in a plane passing through said axis, camming mechanism for rotating said holder about said axis as said carriage reciprocates, and



a grinding wheel mounted on said base for rotation in a path disposed on the opposite side of said axis from said work holder and intersecting the plane of said flat surface and for movement towards said work holder to move the path of wheel rotation towards said axis of work holder



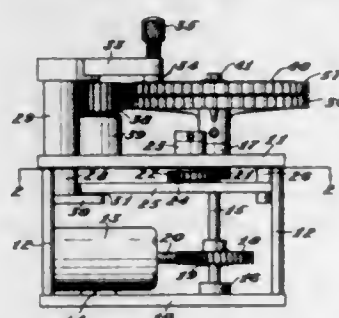
rotation, and means for progressively moving said grinding wheel towards said work holder as said carriage reciprocates to grind the projecting edge of a piece of work so held in said work holder until the path of rotation of said wheel passes through said work holder axis, to provide a straight cutting edge for said piece of work.

2,715,802

## DISC SANDER

Frank C. Wallace, North Hollywood, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application June 7, 1952, Serial No. 292,277  
3 Claims. (Cl. 51-124)



1. A grinding machine comprising, a base member, a driving means supported on said base member, a vertical shaft rotatably supported in said base member and geared to said driving means, a first gear attached to the upper end of said vertical shaft, an idler gear rotatably supported by the base member and engaging said first gear, a second gear coaxial with and of substantially the same diameter as said first gear, said second gear formed with a different number of teeth than the first gear and rotatably supported adjacent said first gear and engaging said idler gear, an abrasive material attached to the surface of said second gear, a third gear rotatably supported by said base member, a transverse pin extending from said third gear, a fourth gear carried on said vertical shaft in mesh with said third gear, a crank arm pivotally supported by the base member and formed with a slot in which said pin is received, an arm rotatably supported on said base member above said abrasive material, the end of said crank arm linked to said arm to impart oscillatory motion thereto, the free end of said arm formed with a work holding member for holding a workpiece in engagement with the abrasive material.

2,715,803

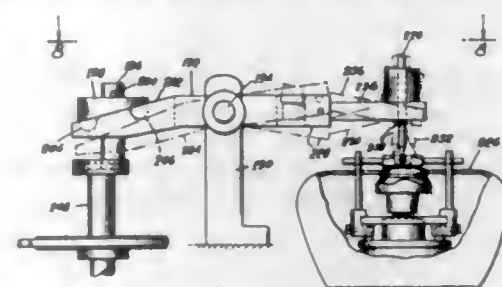
## LENS GRINDING AND POLISHING APPARATUS

Louis D. Bronson, Franklin Square, N. Y.

Application November 7, 1952, Serial No. 319,233  
1 Claim. (Cl. 51-124)

A lens grinding and polishing machine, comprising a base, a tool rotatably mounted on said base for rotation about a vertical axis, motor driven means connected to said rotatably mounted tool and causing it to rotate about

its said vertical axis, a lens holder positioned above said tool for holding a lens in contact with said tool, a pair of guide members pivotally connected to said tool on diametrically opposite sides thereof for pivotal movement about a horizontal axis, said guide members being movable with said tool about its vertical axis of rotation, means connecting said lens holder with said guide members to cause said lens holder to engage in rotary movement with said tool and in pivotal movement with said guide members, said lens holder being free to move relative to the guide members on a line parallel to the pivotal axis of said guide members, a frame extending upwardly from said base, an arm mounted intermediate its ends on said frame for pivotal movement about a horizontal axis extending transversely of said arm and for lateral movement in both directions along said last mentioned horizontal axis, a stylus pivotally mounted on one end of said arm for pivotal movement about a horizontal axis which is parallel to the last mentioned hori-



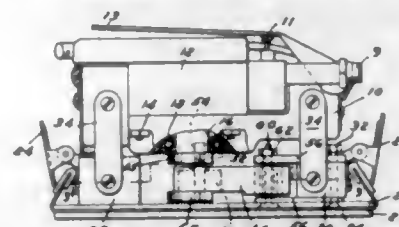
zontal axis, said stylus being situated on said arm for engagement with the lens holder, pressure means connected to said stylus and causing it to bear down upon the lens holder and thereby to cause the lens held by said lens holder to bear down upon the tool, and motor driven means connected to the opposite end of said arm and causing it to move laterally along and pivotally about its said horizontal axis, whereby the stylus is caused to rock about its horizontal axis and to move laterally with said arm, said opposite end of the arm being bifurcated and the motor driven means which causes said arm to move along and about its said horizontal axis including an eccentric which engages said bifurcated end of the arm and engages in movement of revolution about a vertical axis, said bifurcated end of the arm having a sloping portion and said eccentric having a member which engages higher and lower parts of said sloping portion as the eccentric revolves, thereby causing said arm to rock about its said horizontal axis and causing said stylus to rock about its own horizontal axis.

2,715,804

## SANDING MACHINE

David R. Wickes, Detroit, Mich.

Application November 25, 1953, Serial No. 394,242  
7 Claims. (Cl. 51-170)



1. In a sanding machine, the combination of a motor a frame on which said motor is mounted with the motor shaft extending downwardly through said frame, a plate below said frame on which a strip of sand paper is arranged to be attached, a pair of bearing blocks rigidly mounted on and one adjacent each end of said sanding plate, a pair of generally upright links at each end of said frame, said links having a pivotal connection at their upper ends with said frame and being journaled at their lower ends for pivotal movement on said bearing blocks,

a support fixedly mounted on said plate between said bearing blocks, a connecting rod having a pivotal connection with said fixed support at one end and having an eccentric pivotal connection at its other end with the lower end of said motor shaft, said pivotal connection between said connecting rod and said fixed support including a compressible and resilient bushing which permits the connecting rod to oscillate angularly with respect to said sanding plate, and a counterbalance weight operatively connected with said motor shaft.

2,715,805

## CUTTER RELIEVING HOLDER

Hans Muller, Astoria, N. Y.

Application June 30, 1953, Serial No. 365,140  
3 Claims. (Cl. 51-225)



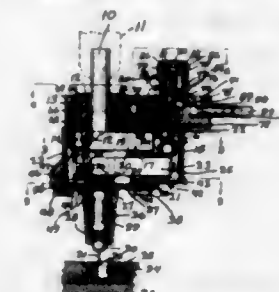
1. In combination, a lathe including a chuck and a tailstock, a cylindrical body member mounted in said lathe chuck and provided with a longitudinally extending bore, a shaft slidably and rotatably mounted in said bore and having an outer pointed end engaging a cutter to be sharpened, a pin extending transversely through said shaft, cam surfaces on the outer end of said body member abutting said pin, a tapered support member spaced from said body member and mounted in said lathe tailstock, said support member being provided with a socket, a cylindrical arm slidably mounted in said socket and having an outer pointed end projecting beyond the end of said support member and engaging the cutter, a coil spring positioned in said socket and abutting the inner end of said arm, there being a cut-out in said support member, a securing element extending through said cut-out and into engagement with said arm, and a dog arranged in engagement with said cutter and shaft.

2,715,806

## INDEPENDENT JIG GRINDER

Albert S. Hancock, Jr., Orange City, Iowa

Application May 23, 1952, Serial No. 289,627  
3 Claims. (Cl. 51-261)



1. A grinding unit comprising a shaft for attachment to a rotary power source, a pulley attached to said shaft, a second smaller pulley driven by said pulley, a further shaft attached to said second pulley, a carriage within which said further shaft is journaled, a third larger pulley attached to said further shaft, a fourth smaller pulley driven by said third pulley, a grinding shaft attached to said fourth pulley including a grinding wheel attached thereto, a plate within which said grinding shaft is rotatably mounted, means for angularly positioning said plate for providing grinding of various sized openings during rotary movement of said plate about said shaft, said means including a casing in which said pulleys are mounted, said plate being pivoted to said casing, means for locking said plate at predetermined selected posi-

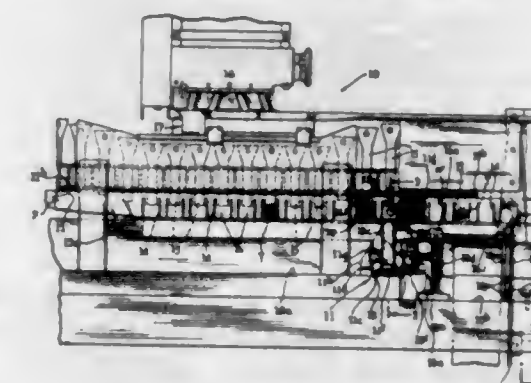
tions, including an arcuate slot in said plate, a stud threadably engaged with said casing passing through said arcuate slot, a traverse screw, a traverse nut threadably engaged with said screw and engaging said plate whereby rotation of said screw will adjustably move said plate, said casing being adapted to rotate about said vertically positioned shaft to provide an annular path of rotation of said grinding wheel, according to the frictional effect of bearings journaled said shafts, and according to the resistance imparted by said grinding wheel on a work piece opening, means for controlling the rotational speed of said casing including a ring gear attached to said casing, a governing member including a train of meshed gears, one gear of which engages said ring gear, a further end gear of which includes a governing shaft attached thereto, governing arms attached to said governing shaft, a governor casing attached to said governing member, friction pads attached to said governing arms.

2,715,807

## AUTOMATIC INSPECTION MEANS CONTROL FOR INFUSION PACKAGE MANUFACTURE

Hans O. Irmischer, East Hempstead, N. Y., assignor to National Tea Packing Company, Inc., a corporation of New York

Application December 23, 1949, Serial No. 134,634  
11 Claims. (Cl. 53-26)



1. In a machine for manufacturing packages of translucent bag sections in a continuous series, means for constantly advancing said bag sections in one direction through the machine, means for successively filling the bag sections while moving with measured charges of an opaque contents, an "electric eye" having a light source positioned to project light beams transversely of said direction onto one side of each filled bag sections while advancing, a photo-electric cell cooperatively positioned with said light source to receive said projected light beam penetrating through a mid-portion of each bag portion for detecting improperly filled bag sections, and switch means connected with said cell to control the driving operation of said machine.

2,715,808

## LAWN MOWERS

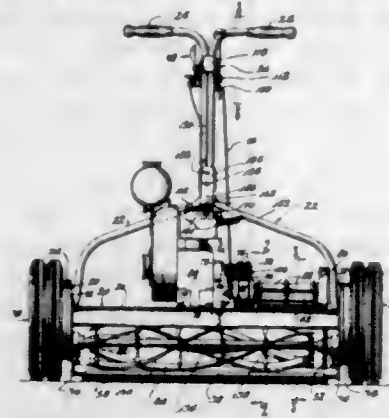
Henry L. Heineke, Springfield, Ill.

Application July 1, 1950, Serial No. 171,613  
8 Claims. (Cl. 56-26)

1. A power lawn mower comprising a wheeled carriage having a motor thereon, clutch means of the type which includes a pair of pulleys, a belt loosely interconnecting said pulleys, an idler adapted to be moved against said belt to tighten it, and a member carrying said idler for said movement on said carriage for connecting said motor for driving said mower, a handle pivoted to said carriage along a horizontal axis and movable throughout a limited angular range, a clutch operating handle movable between limits secured to said mower handle near the outer end thereof, a clutch actuating traction linkage on said carriage connected for moving said idler and disposed closely adjacent to said mower handle pivoting axis, and means connecting said linkage to said clutch

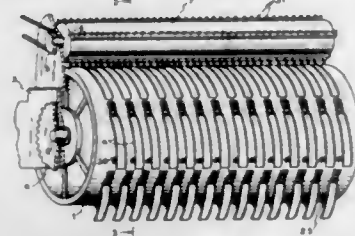


operating handle, the last said means including a resilient portion and extending adjacent the centerline of said mower handle, so that movement of said mower handle



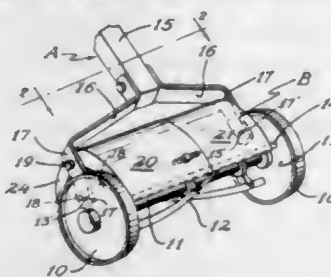
within said limited angular range will not change the distance between said clutch operating handle and said linkage by an amount greater than that compensated for by said resilient portion.

**2,715,809**  
**DEVICE FOR RECOVERING COTTON**  
Charley E. Buell, Hinton, Okla.  
Application May 12, 1952, Serial No. 287,339  
12 Claims. (Cl. 56—28)



1. In a device of the class described, a supporting structure including supporting wheels, a driven drum, a plurality of toothed strips hingedly supported about the periphery of the drum, said strips being formed with a multiplicity of teeth on their outer faces, and means connecting the free end portions of said strips and said drum for limiting the swinging movement of said strips on their hinges.

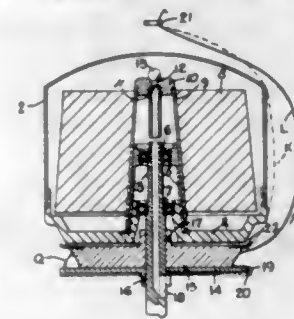
**2,715,810**  
**GRASS SHIELD FOR LAWN MOWER**  
Herman J. Beneke, Faribault, Minn.  
Application August 3, 1953, Serial No. 372,113  
4 Claims. (Cl. 56—249)



1. In combination a lawn mower structure of conventional character and a grass shield pivotally attached to the handle thereof, said lawn mower including a frame member, a reel, a forward transverse cross rod connected between opposite sides of said frame member, a handle connected to a pair of diverging handle irons having parallel outer ends, and pivotal attaching means connecting said outer ends to said frame member, said grass shield including an arcuate shaped body having depending angular flange ends pivotally secured to the said parallel outer ends of said diverging handle irons, said shield having a rear portion extending downwardly rearwardly of the lawn mower frame and a forward portion resting forwardly freely on said transverse cross rod over said reel, whereby when said handle is lifted

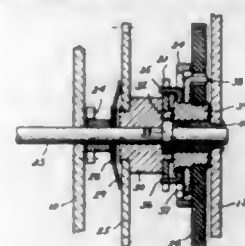
to raise the rear portion of said shield the forward portion swings downwardly riding over said cross rod and said forward portion may be freely tilted independent of moving said frame member.

**2,715,811**  
**FLIER FOR MULTIPLE TWIST TWISTERS**  
William D. Kellogg, Villanova, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware  
Application July 17, 1952, Serial No. 299,425  
11 Claims. (Cl. 57—58.84)



1. A multiple-twist type of twister for twisting a yarn or the like comprising a rotary spindle, a package holder on the spindle, tension means on the twister for tensioning the yarn passing between the package and the spindle, a flier fixed on the spindle, a yarn storage ring adjoining the flier between the flier and the package holder and having a smaller diameter than that of the flier at its juncture with the flier, a yarn passage in the spindle, a yarn-guiding passage in the flier spaced radially outwardly from the juncture between the flier and ring, a frusto-conical surface on the ring along which the yarn is guided after it leaves the yarn-guiding passage in the flier, the small diameter portion of the frusto-conical surfaces being adjacent the flier, and an outwardly projecting flange extending from the ring to a radius greater than, but not more than 10% greater than, that of the juncture of the ring with the flange.

**2,715,812**  
**CLOCK POWER MAINTAINING SPRING DEVICE**  
Lester M. Grether and Peter Olson, Delavan, Wis., assignors to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware  
Application December 6, 1950, Serial No. 199,495  
3 Claims. (Cl. 58—7)

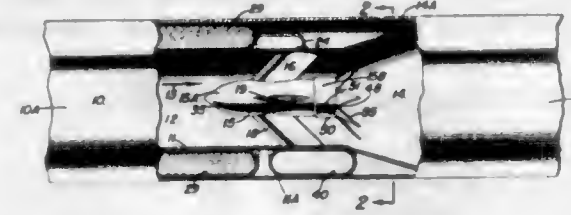


1. In a clock movement, a frame including a frame plate, a ratchet wheel, means fixed to said frame plate providing a bearing for said ratchet wheel, said wheel having a hub fixed thereto, a housing rotatable on said hub, and a reserve spring in said housing, said spring having one end connected to said housing and the other end connected to said ratchet wheel.

**2,715,813**  
**FUEL INJECTOR AND FLAME HOLDER**  
Frederick T. Holmes, Denver, Colo., and Robin E. Taber, San Francisco, Calif., assignors to the United States of America as represented by the Secretary of the Navy  
Application April 14, 1952, Serial No. 282,144  
11 Claims. (Cl. 60—35.6)

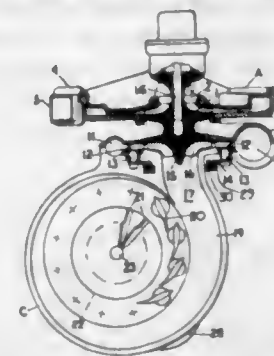
9. A burner assembly comprising, a body having a burner face, said body having a plurality of concentric

manifolds therein, at least one of said manifolds arranged to contain a pilot fuel and another a supporting medium, there being a plurality of orifices in each of said manifolds, said orifices being arranged in proximity to provide



a plurality of commingling jets of said pilot fuel and supporting medium, nozzle means directing a fuel spray adjacent said pilot flames, and shielding means surrounding said body.

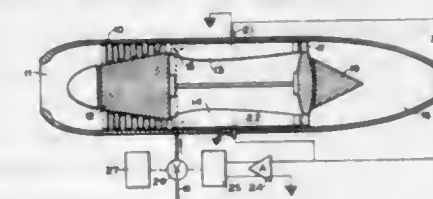
**2,715,814**  
**FUEL-FLOW FOR PLURAL RADIAL INWARD-FLOW GAS TURBINES**  
Richard H. H. Barr, Ashford, England, assignor of one-half to Centrax Power Units Limited, Brentford, England, a British company  
Application March 13, 1950, Serial No. 149,355  
Claims priority, application Great Britain March 25, 1949  
12 Claims. (Cl. 60—39.16)



7. A gas turbine plant comprising a centrifugal compressor having adjustable diffuser vanes, a combination system, a turbine system for the production of external shaft power and consisting of at least one radial inward-flow turbine, variable admission nozzle means associated with said turbine, means for varying the quantity of fuel burnt in the combustion system, means for varying the setting of the diffuser vanes, and a mechanical interconnection so linking the operation of the three said means that decrease in mass flow effected by the said nozzle means is associated with a decrease in the fuel burnt, and vice versa, and also with adjustment of the diffuser vanes so that the operation of the compressor remains stable.

9. A gas turbine plant comprising two independently rotatable turbines of the inward radial flow type arranged in series flow association, with the respective turbine shaft axes at right-angles, and a duct substantially co-axial with the shaft axis of the upstream turbine and connecting the outlet thereof with the inlet of the downstream turbine.

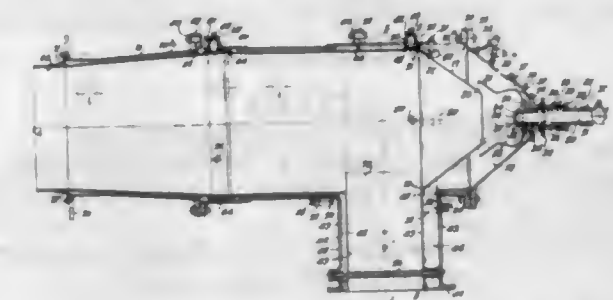
**2,715,815**  
**RESONANCE DETECTOR FOR JET ENGINES**  
Emil A. Mallick and Deslonde R. de Boisblanc, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware  
Application August 13, 1951, Serial No. 241,642  
10 Claims. (Cl. 60—39.28)



1. The combination, with a reaction motor wherein a combustible mixture of fuel and air is burned to produce

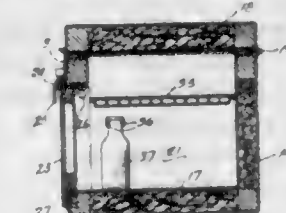
a flame, of a detector for producing a variable electrical output representative of flame intensity, and means for sensing periodicity in the variations of said electrical output.

**2,715,816**  
**COMBUSTION CHAMBER FOR USE WITH INTERNAL COMBUSTION TURBINES**  
James Douglas Thorn and Anthony Victor George Jackson, Waterside South, Lincoln, England, assignors to Ruston & Hornsby Limited, Waterside South, Lincoln, England, a company of Great Britain  
Application May 5, 1952, Serial No. 286,056  
8 Claims. (Cl. 60—39.65)



1. In a combustion chamber structure, an elongated shell having a concave interior surface defining a main combustion chamber, and a rearwardly-inwardly tapered head; means providing a primary combustion chamber and including an inner cone having its larger end extending forwardly into said main combustion chamber and its smaller end extending rearwardly into the front of said tapered head, and a bowl member mounted within said tapered head to extend forwardly and having its forward end flared and overlapping the rear end part of said inner cone with clearance, there being an annular space separating said inner cone and said tapered head which space is in communication with the interior of said bowl through said annular clearance; means for injecting fuel into the rear of said primary combustion chamber; and means for supplying air to said combustion chambers to support combustion therein comprising an inlet for compressed air disposed at an angle to the axis of said main combustion chamber, a partition in said inlet extending upwardly to the front end of said inner cone and dividing the inlet into two separate ducts, one of said ducts being in communication with said annular space for delivering primary air thereto and the other being in communication with said main combustion chamber for delivering secondary air thereto, and at least one vane in one of said ducts which is adapted to cause the air in said one of said ducts to take a predetermined path through the combustion chamber structure.

**2,715,817**  
**PORTABLE REFRIGERATOR**  
Morris Brodheim, Philadelphia, Pa.  
Application January 4, 1952, Serial No. 264,940  
1 Claim. (Cl. 62—116)



In a portable refrigerator, a rectangular housing having an open top, a bottom wall, a front wall, a rear wall, and end walls, a cover hinged on the housing and closing the open top thereof, a vertical transverse partition wall in said housing extending the full width and height of the interior of the housing and dividing the interior of the housing into a food compartment and a compressor com-



partment, an evaporator assembly secured to upper portions of said partition wall and said rear wall and spaced from said bottom wall and from the adjacent end wall, a food tray spaced upwardly from said bottom wall and extending between said front and rear walls and between said adjacent end wall and said evaporator assembly, means supporting said food tray on said front and rear walls and on said adjacent end wall and said evaporator assembly, said front wall having an opening providing access to the food compartment, and a door hinged on said housing and closing said access opening, a compressor assembly in said compressor compartment, said rear wall having a condenser opening into the compressor compartment, and a condenser mounted within said condenser opening and connected to the compressor assembly.

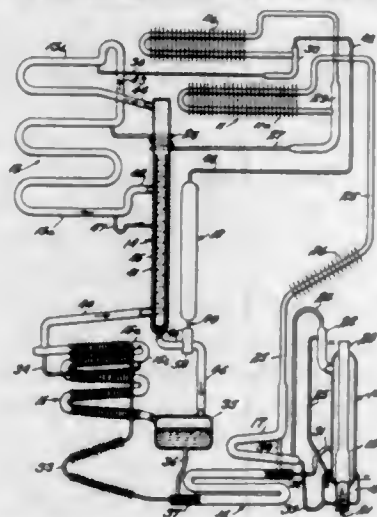
2,715,818

## ABSORPTION REFRIGERATION

Carl T. Ashby and Charles A. Miller, Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware

Application December 28, 1951, Serial No. 263,731

5 Claims. (Cl. 62—119.5)



1. A refrigerating system including a generator, a condenser, an evaporator, an absorber, means for supplying vaporous refrigerant to said condenser, means for conveying liquid refrigerant from said condenser to said evaporator, means for supplying absorption liquid to said absorber, means forming a circuit for circulating an inert gas between and through said evaporator and absorber, a vent conduit between said condenser and said inert gas circuit, and a connecting conduit between said vent conduit and said evaporator, said vent conduit having means therein arranged to accumulate liquid refrigerant from said evaporator to block and unblock flow of inert gas through said vent conduit responsive to a change in operating conditions within the system.

2,715,819

## ABSORPTION REFRIGERATION

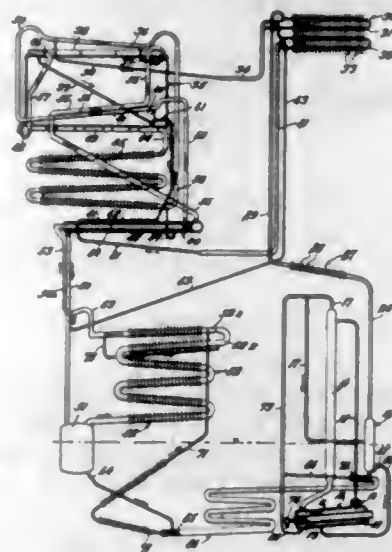
Carl T. Ashby and Charles A. Miller, Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware

Application December 28, 1951, Serial No. 263,732

3 Claims. (Cl. 62—119.5)

1. A refrigerating system including a generator, a condenser including an upper and a lower section, an evaporator including an upper and a lower section, an absorber and conduits interconnecting said elements and forming therewith a first circuit for flow of refrigerating medium, a second circuit for flow of inert pressure equalizing gas and a third circuit for flow of absorption solution, said second circuit being connected between said evaporator and said absorber in a manner that inert gas weak in refrigerant from the absorber flows first through the upper section of the evaporator and then through the lower section thereof whereby said upper section of the evaporator operates at a lower tempera-

ture than the lower section, and said conduits including a first conduit connecting the upper section of the condenser to the upper section of the evaporator, a second conduit formed with a liquid trap therein connecting the lower section of the condenser to the lower section of the evaporator, and a third conduit connecting the



upper and lower sections of the evaporator and having a portion thereon in open communication with said second conduit at a point below the connection of the second conduit with the second evaporator for discharging liquid refrigerant into said liquid trap prior to discharge of liquid refrigerant into said second evaporator.

2,715,820

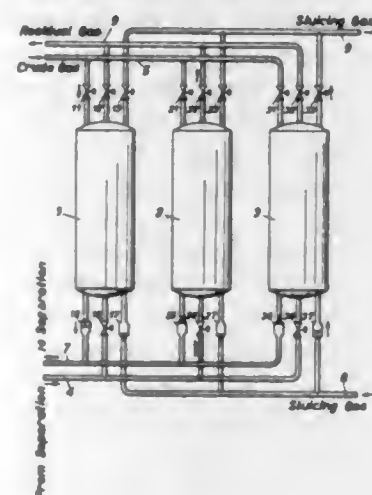
## METHOD FOR THE SEPARATION OF GAS MIXTURES

Rudolf Becker, Munich-Solln, Germany

Application October 25, 1951, Serial No. 253,020

Claims priority, application Germany November 30, 1950

3 Claims. (Cl. 62—175.5)



1. In the method for the purification of gases the steps of deep cooling in a purification set composed of at least three regenerators charged with a gas purification material the step of flowing the impure gas in one direction through one regenerator to remove the impurities by condensation, simultaneously flowing deep-cooled pure gas in the opposite direction to the flow direction of said impure gas through a second regenerator, repeatedly changing-over said two gas flows from one to the other regenerator within equal time periods, flowing a sluicing gas at a rate, which is essentially smaller than the flow rate of the gas passed through each of said two other regenerators, from the cold end to the warm end of a third regenerator, changing-over the gas flow from said third regenerator to one of said first named two regenerators, operating the latter in the manner of said previous third regenerator and continuously repeating said change-over step through the entire set of said regenerators.

2,715,821

## EAR-ORNAMENT CLAMP

Jacob Herbert, Lawrence, Mass.

Application November 1, 1954, Serial No. 466,101

2 Claims. (Cl. 63—14)



1. An ear-ornament lobe-locking holder comprising a U-shaped yoke to straddle an ear lobe and having outer and inner legs, a securing screw having threaded support on the inner yoke leg, a generally circular shoe concentrically carried at the end of the screw between the yoke legs and having an extensive shallow dome-like convex face to engage entrantly with an ear lobe, and on the outer yoke leg a ring comprising a marginal ring portion with an inner face of substantial and uniform radial width concaved conformantly to the convexity of the opposite shoe face and enclosing a wide central aperture with a rounded margin for easy flow of ear-lobe substance into the aperture under mutual approach of the shoe and ring, the outer diameter of the ring approximately matching that of the shoe and the inner diameter of the ring at the aperture being at least about one-third of said outer diameter but sufficiently less than the latter to provide said wide concaved inner face for the marginal ring portion, said ring disposed in axial line with the shoe and presenting opposite the latter a coaxial seating socket for flow reception and retention of a positive plug-like shallow projective button of the wearer's fleshy ear-lobe substance under the gently thrusting and pressure-distributing action of the convex shoe toward the ring in the installed position of the holder.

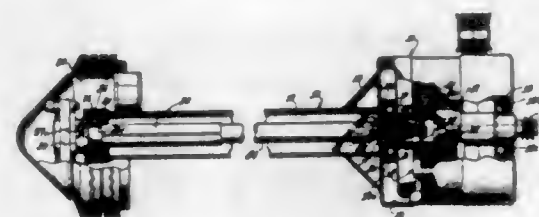
2,715,822

## DRIVE COUPLING AND ASSEMBLY

Paul Z. Anderson, Whittier, Calif., assignor to Preco Incorporated, Los Angeles, Calif., a corporation of California

Application January 8, 1952, Serial No. 265,454

5 Claims. (Cl. 64—11)



1. In a drive coupling comprising a pair of axially aligned shafts wherein one of the shafts has an axially extending, cylindrical bore opening to one end thereof, and a cylindrical portion of the other shaft being entered in said bore and being annularly spaced from the bore defining wall, there also being an annulus of rubber or the like within the annular space between the shaft ends and pressurally engaging the opposed cylindrical faces thereof; the improvement comprising an annular enlargement on said other shaft and lying within said bore at the inward side of said rubber annulus, said enlargement being of greater diameter than is said cylindrical portion and of substantially the same diameter as the bore.

2,715,823

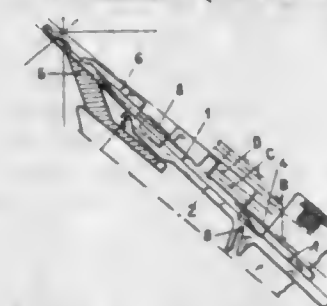
## KNITTING MACHINE WITH A DEVICE FOR GUIDING AND ADJUSTING THE NEEDLES

Ernest Hafner, St. Albans, N. Y., assignor to Dubied Machinery Company, Long Island City, N. Y.

Application August 12, 1952, Serial No. 303,894

Claims priority, application Switzerland August 17, 1951

2 Claims. (Cl. 66—66)



1. A knitting machine with a device for guiding and adjusting its forwardly and backwardly movable needles, comprising a plurality of needle guides, a needle bed, intermediate webs provided in said needle bed and a stationary loop former and a usual jacquard device, each of said needle guides being swingingly and slidably supported in said needle bed at several points of its length and adapted to cooperate with said loop former on the one hand, with said intermediate webs and with said usual jacquard device on the other hand, and said needle guides each having projections positioned relative to front and rear portions of a shank of a needle, said projections extending over the shank of such needle.

2,715,824

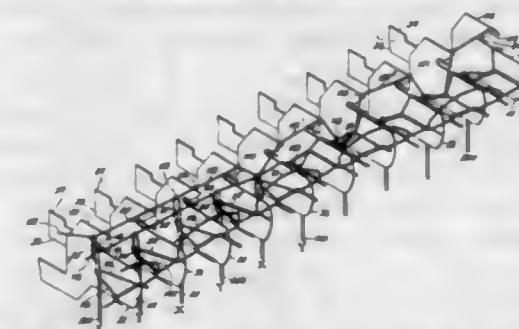
## TERRY LOOP KNITTING MACHINE AND PROCESS

Stanley G. Krauss, Brooklyn, N. Y., and Earl J. Krauss

and Robert J. Krauss, Allentown, Pa.

Application December 17, 1952, Serial No. 326,424

14 Claims. (Cl. 66—93)



1. The process of knitting a terry fabric, using sinkers having noses and knitting levels and using two sets of alternately positioned latch needles, which comprises at a first position maintaining the sinker all the way in with terry loops at spaced positions over the noses of pairs of adjoining sinkers, maintaining needles above the noses of the sinkers with loops of a preceding back forming course cast off but still around the needles of both sets and loops of a previous terry loop forming course cast off but still around needles of the back forming set, carrying through the hooks of all of the needles and over the tops of the sinkers back yarn which has been just previously fed, at a second position withdrawing the sinker, and thus releasing a terry loop formed over a pair of sinkers, raising a terry loop forming needle and allowing its latch to open under the action of back forming yarn passing through its hook, and retaining back forming yarn in the hook of a back forming needle in position opposite the top of the nose of the sinker, while still retaining the stitch of the previous back forming course around the terry loop forming needles and the back forming needles and the stitch of the previous terry loop forming course around the back forming needles at a third position moving the sinker all the way out, maintaining the terry loop forming needle raised to a position high



enough to feed and feeding a new terry loop forming yarn course, while retaining the previous back forming course across the latch of the terry loop forming needle and through the latched hook of the back forming needle, and retaining loops previously cast off around the needles of both sets below the latches, in a fourth step moving the sinker in, lowering the terry loop forming needle with the new terry loop yarn course just fed in the hook and the old back forming course across the latch and also extending through the hook of the back forming needle, and retaining the loops of the previous back forming course around the needles of both sets below the latches, at the fifth step moving the sinker still further in, lowering the terry loop forming needle with the terry loop forming yarn of the new course and the back forming yarn just fed in its hook, the latch of the terry loop forming needle being closed due to sliding down of the needle against the loop of the previous course, and with the back forming yarn just fed in the hook of the back forming needle, lowering the back forming needle to a position between the top of the nose and the knitting level of the sinker, retaining back forming loops of the previous course around the needles of both sets and loops of the previous terry course around the back forming needles, in the sixth step advancing the sinker further in to a position in which the nose of the sinker engages under and holds the terry loop forming yarn of the new course in position to cause that yarn to span the noses of two sinkers, lowering the terry loop forming needle carrying with it the terry loop forming yarn of the new course and the back yarn of the just fed course in the hook with the latch closed, lowering the back forming needle with the back yarn through the hook and the latch closed to a level intermediate between the nose of the sinker and the knitting level, retaining loops of back forming yarn of the previous course around the closed latches of the needles of both sets, in the seventh position retaining the sinkers partially advanced inward with the new terry loop forming over the noses of a pair of sinkers, lowering the terry loop forming needle to a stitch dropping position below the knitting level and thereby dropping off the loop of the previous course of back forming yarn and thus forming the back stitch, lowering the back forming needle to a stitch dropping position below the knitting level and thereby dropping off from the back forming needle a loop of the previous course of back yarn and also a loop of the previous course of terry loop forming yarn and thereby forming a stitch containing two courses retaining in the hooks and closed latches of the terry loop forming needles the new terry loop forming course and the back course just fed and retaining in the back forming needles the back course just fed, in the eighth step moving the sinker fully inward with the new terry loop formed over the noses of a pair of sinkers and by the forward motion of the sinkers robbing yarn from the adjoining courses, holding the terry loop forming needles and the back needles in the lowered position with the back forming course in the latched hooks of both sets of needles and the new terry loop forming course in the latched hooks of the terry loop forming needles, in the ninth step retaining the sinkers fully forward with the new terry loop over the noses of a pair of sinkers, raising the needles of both sets and opening the latches by the action of the back forming course through the hooks of the needles and the action of the terry loop forming course in the terry loop forming needles, in the tenth step retaining the sinkers forward with the terry loop over noses of a pair of sinkers, raising the needles of both sets to a knit position and feeding the next course of back yarn into the hooks of the needles of both sets and casting off the loops of the previous course of back forming yarn from the needles of both sets and the loops of the

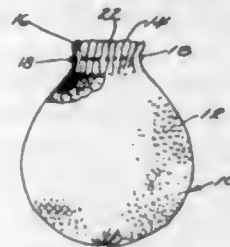
previous course of terry loop forming yarn from the terry loop forming needles, in the eleventh step retaining the sinkers fully forward with the new terry loop over the noses of a pair of sinkers, moving the needles of both sets down and closing the latches by the action of the loops of the previous back forming course around the needles of both sets and the loops of the previous terry loop forming course around the terry loop forming needles, raising the loops of the previous course of back yarn around the latches of the needles of both sets, and raising the loops of the previous courses of terry loop forming yarn around the back forming needles.

#### 2,715,825 MANTLES

Harold F. Zimmerman, Louisville, Ky., assignor to the United States of America as represented by the Secretary of the Army

Application December 7, 1951, Serial No. 260,555  
5 Claims. (Cl. 67-98)

(Granted under Title 35, U. S. Code (1952), sec. 266)

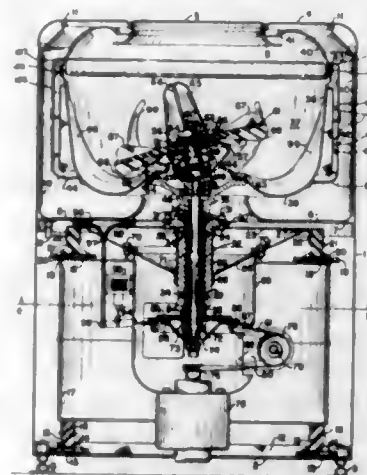


3. A mantle for a gasoline burner comprising a sack-shaped body of woven uncalcined material having an open end adapted loosely to fit over the tip of said burner and to shrink sufficiently when calcined to bring said open end into firm encompassing engagement with said tip, and a loop interlaced in the open end of said mantle of material elastic at normal temperatures, sticky and viscous in the temperature range to which it is raised when calcining of the mantle is initiated and distintegrable at the temperature to which it is raised before completion of calcining of the mantle, said loop contracting the said open end into firm gripping engagement with the burner tip upon which the uncalcined mantle is placed.

#### 2,715,826 COMBINED WASHING MACHINE AND EXTRACTOR

James B. Kirby, West Richfield, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio, as trustee

Application August 3, 1948, Serial No. 42,192  
3 Claims. (Cl. 68-23)



1. In a washing machine, a receptacle formed to provide an annular channel for clothes and washing liquid and having an upright peripheral wall, a supporting member mounted to rotate about a vertical axis centrally disposed with respect to said wall, a flexible rubber agitator

disc within the receptacle and mounted at its center on said supporting member to turn with respect thereto about an inclined axis, means for holding said disc against rotation, and driving means for imparting continuous rotation to said supporting member to wobble the axis of said disc, said disc being vertically yieldable adjacent its periphery.

#### 2,715,827

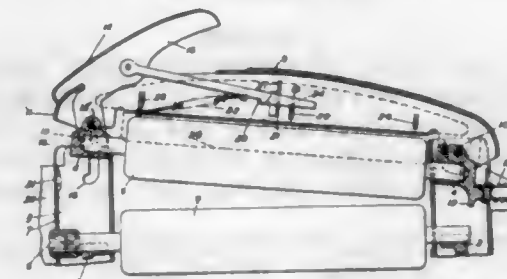
SAFETY DEVICE FOR POWER DRIVEN WRINGERS  
Joseph Alexander Cleiff, Birmingham, England, assignor to Aluminium Bronze Company Limited, Walsall, England

Application November 14, 1949, Serial No. 126,959

Claims priority, application Great Britain

November 21, 1948

7 Claims. (Cl. 68-263)

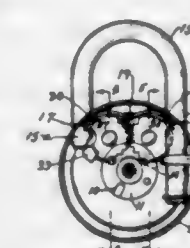


1. A power driven wringer of the kind having a frame, an upper roller operable in said frame and a lower roller and spring means arranged to apply working pressure to the rollers by acting on the rollers to urge the same toward each other, said upper roller being journally mounted on a beam fulcrumed at one end of said frame, and a locking mechanism for securing said beam in and releasing it from operative position, said mechanism including a locking lever pivoted on the part of the beam remote from its fulcrum, a locking catch pivoted on the said locking lever and extending longitudinally of the beam, an abutment on the beam engageable by the said catch to hold the beam and upper roller mounted thereon in operative position, a release bar mounted on two spaced fulcra on the beam for up and down movement and extending transversely of the beam, said release bar when moved up or down being engageable with said locking catch for releasing the locking catch from said abutment.

#### 2,715,828

COMBINATION CONTROLLED PADLOCK  
Willard Mathes, Terryville, Conn., assignor to The Eagle Lock Company, Terryville, Conn., a corporation of Connecticut

Application September 8, 1953, Serial No. 378,720  
3 Claims. (Cl. 70-25)



1. In a permutation padlock including a case, a shackle movable in said case, and a plurality of tumblers rotatable in said case and having gatings adapted to be moved into alignment, a main bolt comprising a substantially circular flat plate rotatably mounted in said case and having a plurality of gear teeth along an edge portion thereof disposed on an arc having its center at the axis of rotation of said plate, a flange projecting perpendicularly from an edge portion of said plate and extending partially therearound and having a curved outer surface disposed outwardly of the ends of said gear teeth and co-axially therewith; one end of said flange being adapted to enter a notch

in the toe of the shackle when in locked position and the opposite end of said flange providing an abutment adapted to engage said tumblers to prevent rotation of said main bolt out of locked position, an auxiliary bolt comprising a substantially circular flat plate rotatably mounted in said case adjacent said main bolt and having a plurality of gear teeth along an edge portion thereof disposed on an arc having its center at the axis of rotation of said plate and inter-engaged with the gear teeth on the main bolt, a flange projecting perpendicularly from an edge portion of the plate of the auxiliary bolt and having a curved outer surface disposed outwardly of the ends of said gear teeth and co-axially therewith; one end of said flange being adapted to enter a notch in the heel of the shackle when in locked position, separate supporting means secured in said case and engaging the flange on each of said bolts when in locked position to provide a support thereof; the end of the flange on the main bolt engaging said tumblers being receivable in said gatings, when aligned, to permit rotation of said bolts and withdrawal of said shackle, and means on said main bolt engageable by the shackle as it is moved toward locked position for causing rotation of said main bolt into locked position, said auxiliary bolt being rotated into locked position simultaneously therewith through said gear teeth.

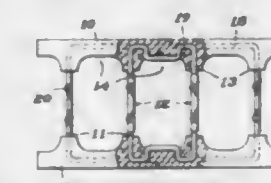
#### 2,715,829

BUILDING UNIT OF SPACED CONCRETE WALLS

Gunther K. E. Kleeberg, Belfast, Maine

Application September 23, 1948, Serial No. 50,840

1 Claim. (Cl. 72-44)



A building unit comprising a pair of concrete walls whose proximate faces have vertically disposed ribs and channels, members anchored in each of said walls with their ends protruding through the ribs in the face thereof that is to be disposed towards the other wall and located so that corresponding ends are in predetermined relation to each other when the walls are positioned for assembly, means interconnecting corresponding ends to establish said unit, at least one of said members of each wall being U-shaped and having a substantial part of its intermediate portion anchored therein, said intermediate portion being U-shaped and approximately the width of a wall channel and having its extremity offset to protrude from said face in a channel and extending slightly above the adjacent wall edge thereby to provide said unit with positioning and locating means engageable with the inner surface of a unit in engagement therewith.

#### 2,715,830

SPECIMEN FOR CALIBRATING SURFACE ROUGHNESS MEASURING APPARATUS

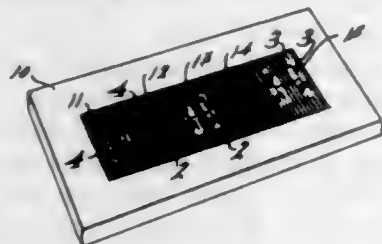
Clayton R. Lewis, Birmingham, Joseph B. Bidwell, Royal Oak, and Arthur F. Underwood, Grosse Pointe, Mich.; said Bidwell and said Underwood assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware, and said Lewis assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application July 12, 1952, Serial No. 298,548  
6 Claims. (Cl. 73-1)

1. A specimen for calibrating a surface roughness measuring device comprising a solid material having adjacent surface sections of different degrees of roughness each representing a known roughness value, the surface of each of said sections comprising a plurality of pairs of narrow elongated facets disposed in intersecting planes



which each include between them an angle of substantially  $150^\circ$ , the widths of the facets of each section be-



ing substantially uniform and the widths of the facets of adjacent sections being different for producing said different degrees of surface roughness.

2,715,831

### APPARATUS FOR SENSING CHANGES IN THE SPECIFIC GRAVITY OF A LIQUID

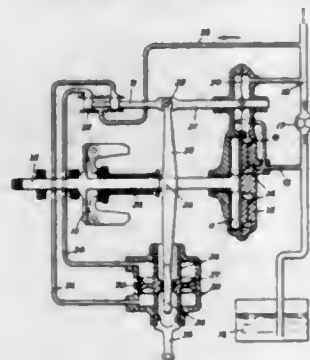
Adrian Leslie Catford, Hampton, and Thomas Allen Dunford, Greenford, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain

Application September 8, 1953, Serial No. 379,051

Claims priority, application Great Britain

September 11, 1952

7 Claims. (Cl. 73-32)



1. Apparatus for sensing changes in the specific gravity of a liquid, comprising a rotary impeller adapted to run in the liquid, said impeller thereby producing a pressure differential proportional to the specific gravity of the liquid and to the square of the speed of rotation, means for converting this pressure differential into a force, a rotary device adapted to produce a force proportional to the square of its speed of rotation, means for driving said rotary device synchronously with said impeller, a balancing device upon which said two forces act in opposition, a movable part adapted to maintain said balancing device in equilibrium, and an output member associated with said movable part.

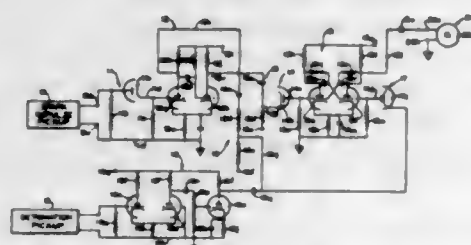
2,715,832

### ENGINE ANALYZER

Kenneth A. McCollom and Deslonde R. de Boisblanc, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application April 19, 1951, Serial No. 221,928

15 Claims. (Cl. 73-35)



1. Apparatus for measuring the time interval between detonation impulses and spark impulses which comprises, in combination, means for producing an electrical pulse at the time of occurrence of each spark impulse, means for producing a clearing pulse a predetermined time interval after the occurrence of each electrical pulse, means for

producing a separate pulse at the time of occurrence of each detonation impulse, a bistable multivibrator including two electron tubes each having an anode, a cathode, and a control grid, means for supplying operating potentials to the electrodes of said tubes, a resistance-capacitance unit connecting the control grid of each tube to the anode circuit of the other tube, means for feeding said electrical pulses to one of said control grids whereby each such pulse initiates a rectangular wave in the multivibrator circuit, and means for feeding said clearing pulses and said separate pulses to the other control grid whereby each rectangular wave is terminated, and means connected to said multivibrator for measuring the interval of duration of the rectangular waves, whereby the intervals which are shorter than said predetermined time interval represent time intervals between detonation and spark impulses.

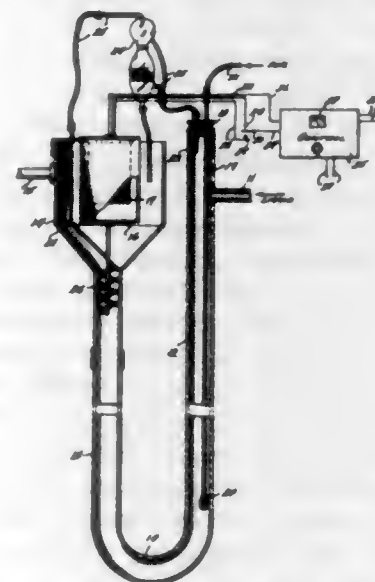
2,715,833

### APPARATUS FOR MEASURING THE RELATIVE HUMIDITY WITHIN AN AQUEOUS LIQUID

George P. Fulton, Silver Spring, and James C. Alexander, Fairland, Md., assignors to National Institute of Cleaning & Dyeing, Silver Spring, Md., a corporation of Missouri

Application August 13, 1952, Serial No. 304,055

4 Claims. (Cl. 73-73)



1. Apparatus for ascertaining the relative humidity within a liquid, including, in combination, a chamber adapted to contain the subject liquid, a hygrometer having a sensing element, air conducting means associated with the chamber and adapted to place air into intimate contact with subject liquid in said chamber until said air acquires the same relative humidity as the relative humidity within subject liquid in said chamber, heat exchange means adapted to bring said air to the same temperature as the temperature of the subject liquid in said chamber and means adapted to submit said air while having the same relative humidity as the relative humidity within said subject liquid and the same temperature as that of said subject liquid to the said sensing element of said hygrometer whereby the relative humidity of said air and consequently the equal relative humidity within the subject liquid is ascertained, said chamber being a vertical U-tube having a liquid inlet into one leg below its top and having overflow outlet from the outer leg establishing the liquid level of the chamber, the upper end of the U-tube leg which has the overflow outlet being enlarged and forming a bowl and said overflow outlet being in the side of the bowl intermediate its top and bottom, a case in said bowl whereby the case acquires the same temperature as that of the liquid in said bowl and said sensing element of the hygrometer being contained in said case and said means being adapted to submit the conditioned air to the sensing element of the hygrometer including an air conduit leading said air into the case.

2,715,834

### TRANSMISSION GEARING, INCLUDING MEANS FOR MEASURING TORQUE

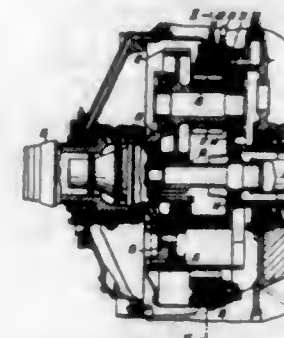
Reginald Henry Douglas Chamberlin, London, England, assignor to D. Napier & Son Limited, London, England, a British company

Application February 23, 1954, Serial No. 411,957

Claims priority, application Great Britain

February 27, 1953

4 Claims. (Cl. 73-136)



1. Epicyclic transmission gearing comprising a sun pinion, at least one planet pinion, a rotary carrier supporting the axis of said planet pinion and an internally toothed annulus ring constituting a reaction member and surrounding and engaging the planet pinion, a fixed member surrounding the annulus ring and forming therewith an annular chamber which surrounds the entire circumference of the ring, and lies coaxial with the main rotary axis of the gearing, projections on said annulus ring and on said fixed member arranged alternately within said annular chamber and forming a number of substantially fluid-tight pockets therein, and means for measuring the pressure set up in fluid in the appropriate pockets by the torque reaction of the annulus ring during transmission of power through the gearing.

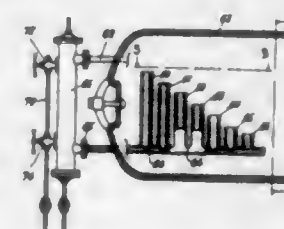
2,715,835

### VAPOR GENERATING INSTALLATION HAVING A LIQUID LEVEL INDICATOR WITH AN AUXILIARY LIQUID CHAMBER

Charles U. Savoye, Hackensack, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application October 11, 1950, Serial No. 189,502

6 Claims. (Cl. 73-328)



3. In a vapor generator, a vapor and liquid main chamber normally having a liquid level therein and normally having vapor and liquid mixtures discharged thereinto, an upright gauge glass disposed exteriorly of the chamber, vapor conduit means connecting the upper part of the gauge glass and the vapor space of said chamber, a plurality of auxiliary liquid chambers of successively different heights disposed within the main chamber some of said auxiliary chambers each having an upper opening normally communicating with the vapor space of the main chamber while the remainder normally have free communication at their tops with the liquid space of the main chamber, said upper openings being at successively different levels, and a liquid conduit means connecting the lower part of the gauge glass with the lower parts of each of said auxiliary chambers, the lower part of each of said auxiliary chambers being also in free communication with the liquid space of the main chamber through a lower opening.

697 O. G.-31

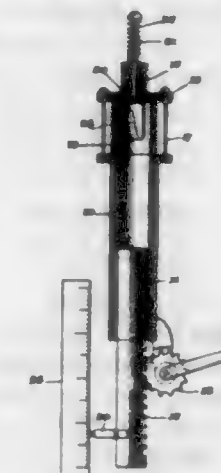
2,715,836

### APPARATUS FOR DETERMINATION OF RELATIVE HUMIDITY

James M. Brady, West Long Branch, N. J., assignor to Harrison D. Brailsford, Rye, N. Y.

Application June 25, 1951, Serial No. 233,360

3 Claims. (Cl. 73-335)



2. In an apparatus for determining the relative humidity of a gas, in combination, a closed chamber, means for admitting gas from outside said chamber to said chamber, means comprising a piston in said chamber for compressing the gas therein, a member of high heat conductivity material mounted on said chamber to close one end thereof and having a highly polished surface portion extending into said chamber, said member being in heat exchange relationship with the gas outside said chamber whereby the portion of the member in the chamber tends to remain at the temperature of the gas outside the chamber, said chamber having a transparent portion through which said surface may be observed, and means comprising a scale fixed with respect to said chamber and a pointer fixed with respect to said piston for indicating the volume within said cylinder after compression relative to the total volume before compression.

2,715,837

### STARTING APPARATUS

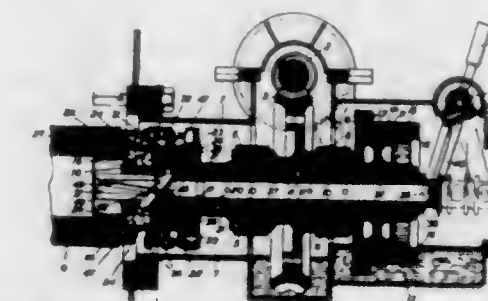
Leonard Stanley Snell, Feltham, and George Hamilton Murray, Pinner, England, assignors to D. Napier & Son Limited, London, England, a British company

Application September 23, 1952, Serial No. 311,031

Claims priority, application Great Britain

October 2, 1951

10 Claims. (Cl. 74-7)



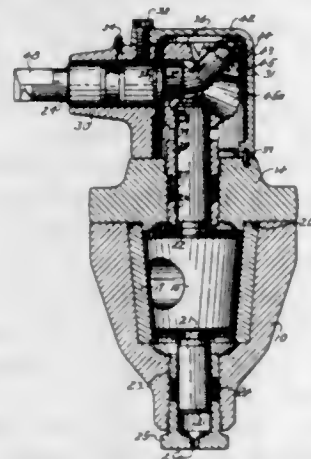
1. A two-directional rotational starting apparatus for a power unit including in combination two rotary members consisting of a driven member connected to said power unit and a reversible rotary starting member, a common clutch member so connected to a first one of the rotary members that relative rotation between the common clutch member and the said first rotary member in opposite directions causes the common clutch member to move in opposite axial directions respectively, two clutches each including a first clutch element mounted on said common clutch member and a second clutch element connected to a second one of said rotary members, said clutches being engaged selectively by movements of said common clutch member in opposite directions axially



of said first rotary member, a friction coupling between the common clutch member and the second rotary member for effecting movement of the common clutch member axially of the first rotary member in a direction dependent upon the direction of rotation of the rotary starting member, so as selectively to engage the appropriate one of the clutches which is to be operative, and stop mechanism having two operative positions in which it respectively limits the axial movement of the common clutch member in opposite axial directions to prevent engagement of the inoperative clutch when, due to the driven member overrunning the rotary starting member when the power unit starts, the common clutch member moves axially to disengage the operative clutch.

#### 2,715,838 PLUG VALVE

Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Inc., Houston, Tex., a corporation of Texas  
Application December 30, 1949, Serial No. 135,966  
17 Claims. (Cl. 74-22)



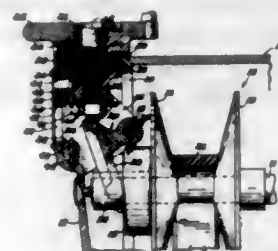
1. An actuator mechanism for a valve of the type having a plug valve member mounted on a stem for rotation and limited endwise movement on a common axis, comprising a shaft journaled for rotation on an axis angularly disposed to the rotational axis of the stem, a connection between the shaft and stem including crank and follower parts carried by the shaft and stem respectively for imparting forces to the stem, upon rotation of the shaft, both in a direction axially of the stem and in a plane normal thereto but displaced therefrom, the co-acting surfaces upon the crank and follower parts, which produce the force acting in said plane, being discontinuous within the range of rotation of the shaft to provide for interruption of the driving contact therebetween throughout a portion of a rotational cycle of the shaft whereby the stem is rotated during only a portion of its actuation, said crank and follower parts having co-acting surfaces thereon to produce the force acting axially of the stem, said surfaces being engaged to prevent relative movement therebetween in a direction axially of the stem with the surface on the follower part being fixed against movement relative to the stem in said direction axially of the stem and with the surface on the crank part being disposed thereon to provide, upon continued rotation of the crank part in one direction, a component of movement in said direction axially of the stem.

#### 2,715,839 ACTUATING MECHANISM FOR RECIPROCABLE ELEMENT

William E. Springer, Columbus, Ind., assignor, by mesne assignments, to Reliance Electric and Engineering Company, Cleveland, Ohio, a corporation of Ohio  
Application December 16, 1953, Serial No. 398,518  
10 Claims. (Cl. 74-89)

1. An actuator assembly comprising a carrier, a lever supported upon said carrier for oscillation about an axis,

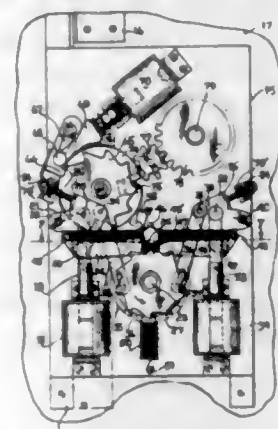
said carrier being formed with a threaded bore whose axis intersects a portion of said lever throughout the path of said lever, a rotor, means supporting said rotor from said carrier in coaxial relation to said bore for rotation about said axis, said means restraining said rotor



against axial movement relative to said carrier, a screw threadedly mounted in said bore and engageable with said lever portion, and means providing an axially-reciprocable, non-rotational connection between said screw and said rotor.

#### 2,715,840

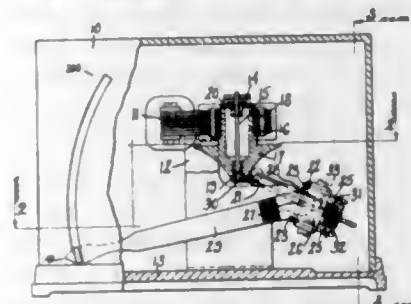
**MULTIPLE STEP-UP MECHANISM**  
Melvin J. Binks and Alphonse A. Samolis, Chicago, Ill., assignors to Republic Patent Corporation, Chicago, Ill.  
Application April 25, 1951, Serial No. 222,911  
6 Claims. (Cl. 74-128)



1. A multiple step-up mechanism comprising a mounting plate, a pair of similar members rotatably mounted on said plate, means for advancing one of said members step-by-step in one direction, means for retracting said one of said members step-by-step in an opposite direction, a train of gears operatively connecting said members together whereby the other of said members is advanced one step upon each completed revolution of said one member, a gear member rotatably mounted on said plate, a train of gears operatively connecting said gear member to said other member, said train of gears and said gear member having cooperating means to rotate said gear member one step in one direction upon each completed revolution of said other member, and mechanism for advancing said other member step-by-step independent of the said one member.

#### 2,715,841

**DRIVE MECHANISM FOR ELECTRIC METRONOMES OR THE LIKE**  
Frederick Franz, West Haven, Conn.  
Application August 24, 1953, Serial No. 375,879  
6 Claims. (Cl. 74-191)

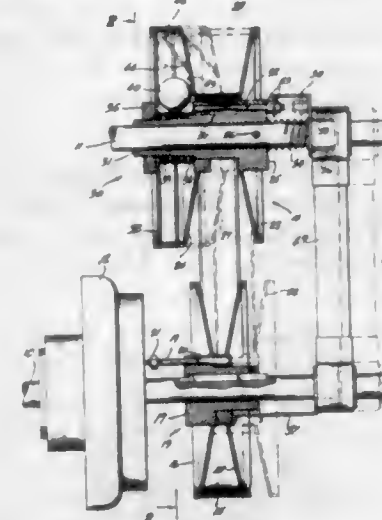


1. A change speed drive mechanism for an electric metronome comprising a driving member of conoidal

form, a driven member of disk-like form having its edge in engagement with the surface of the driving member, the axis of one of said members being inclined relatively to the axis of the other, and the axis of the driven member being at all times non-coplanar with that of the driving member and lying on that side of the axis of the driving member toward which said members move at their point of engagement to avoid binding of the driving and driven members during rotation in one direction.

#### 2,715,842

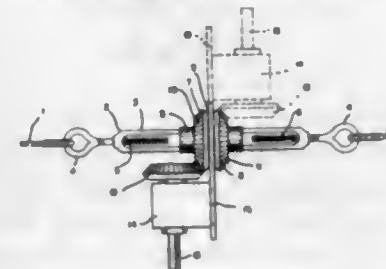
**GOVERNOR CONTROLLED TRANSMISSION**  
Walter J. Homuth, Waukesha, Wis.  
Application November 8, 1949, Serial No. 126,146  
4 Claims. (Cl. 74-230.17)



1. In a governor controlled transmission, a pair of oppositely tapered pulley discs comprising a driving pulley, a hub portion carried by one of said pulley discs with the other of said discs being slidably mounted for sideways adjustment thereon, a second pair of oppositely tapered discs comprising a driven pulley, a hub portion carried by one of said pulley discs with the other of said discs slidably mounted upon said hub for sideways adjustment, a belt interconnecting said pulleys, a governor mounted on said hub portion of said driven pulley and operative on a cam integrally formed on the side of said disc disposed for sideways adjustment on said driven hub portion, and an actuating mechanism connected for simultaneous sideways movement with said adjustable disc in said driven pulley and attached to said adjustable disc in said driving pulley whereby said adjustable disc in each of said pulleys is unitarily positioned to vary the pitch diameters of said pulleys according to the demands of said governor and thus maintain a substantially constant speed of said driven pulley regardless of variations in speed of said driving pulley.

#### 2,715,843

**MEANS FOR ROTATING TURNBUCKLES AND THE LIKE**  
Patrick J. Clarke, Duluth, Minn.  
Application June 8, 1954, Serial No. 435,291  
3 Claims. (Cl. 74-417)

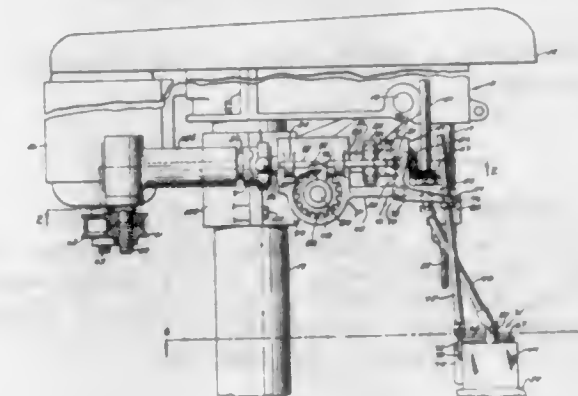


1. Means for rotating the central member of turnbuckles and the like on its longitudinal axes comprising: a sleeve mounted on said member to rotate therewith,

a pair of bevel gears fixedly mounted on said sleeve, said gears being oppositely disposed and having a space therebetween, and drive mechanism for rotating said gears comprising a mounting plate having a notch therein to be received between said gears, a bevel drive gear, means mounting said drive gear on said plate adjacent said slot and in normal relation to said plate, and means for rotating said drive gear, said slot in said plate having an angular disposition relative to the axis of rotation of said drive gear to hold the latter in driving engagement with either one of first said gears.

#### 2,715,844

**INDEXING MECHANISM FOR DRILL PRESSES OR THE LIKE**  
John C. Bender, Hartville, Ohio  
Application July 16, 1951, Serial No. 236,982  
6 Claims. (Cl. 77-5)



1. An automatic indexing mechanism for auxiliary attachment to a machine tool of the type including a standard having an upright, a work-supporting table, a tool-holder mounted on said standard to be movable relatively of said table, and power means mounted on said standard, said indexing mechanism comprising a work-holding unit including a plate, means for releasably affixing said plate to said table, a work-holder mounted on said plate to be rotatable about a vertical axis, a power output unit including a bracket having separable parts, means for clamping said bracket parts about said upright, a device driven by said power means for rotating said work holder on said plate, said work-holding unit including a trip on said work-holder movable in an arcuate path upon rotation of the work-holder on said plate, a member mounted on said plate, a detent on said member having a gripping portion engageable with said trip to retain said work-holder in a given fixed position on the table, a catch normally holding said detent out of the path of said trip, said trip moving in said path being engageable with said catch to release said detent toward engagement of the gripping portion with said trip, means operable on said device upon release of said detent to stop said rotation of said work-holder, and means operable upon said device while said work-holder is stopped to move said tool-holder toward and from work on the work-holder.

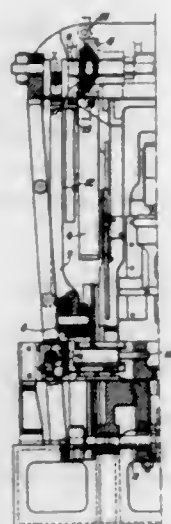
#### 2,715,845

**POWER OPERATED PRESS**  
Henry Denis Challen, Birmingham, England, assignor to Taylor & Challen Limited, Birmingham, England, a British company  
Application July 14, 1952, Serial No. 298,731  
4 Claims. (Cl. 78-36)

1. In a power operated press having a rotating member for actuating a main tool, in combination, a gear wheel turned by such rotating member, a pinion meshing with said gear wheel and turning more revolutions per minute than said gear wheel, an auxiliary crank shaft for actuating an auxiliary tool, a clutch to connect said pinion to said auxiliary crank shaft, a rocking member for closing



and opening said clutch, and a cam carried by said gear wheel in position to rock said rocking member for closing stop interposable in the path of movement of said member in response to a predetermined number of strokes

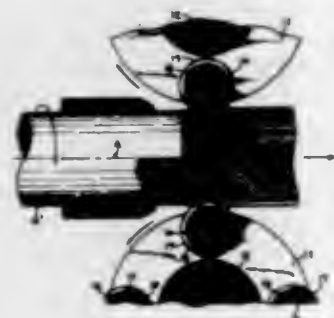


said clutch during a portion only of the rotation of said rotating member.

2,715,846

## METHOD OF GROOVE FORMING

Ernst Grob, Zurich, Switzerland, and Benjamin Grob, Grafton, Wis., assignors, by mesne assignments, to Grob, Inc., Grafton, Wis., a corporation of Wisconsin  
Application May 16, 1951, Serial No. 226,572  
2 Claims. (Cl. 80—60)



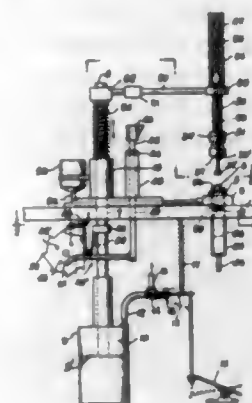
1. The method of incrementally rolling a series of elongated grooves extending lengthwise of a cylindrical surface and spaced around the circumference comprising, applying a rolling force into and out of penetrating rolling engagement with said surface to roll a small increment of groove length into said surface, coupled with rotation of said surface about its axis in such timed relation with repeated in and out applications of said rolling force to cause said rolling force to intermittently and succeedingly roll said surface at spaced intervals about its circumference to complete a series of grooves spaced around said circumference each of increment length, and feeding said surface axially to progress said incremental lengths into the length of the desired grooves.

2,715,847

## STEP BY STEP OPERATED, PARTIAL REVOLUTION WRENCH

James A. Taylor and Ernest B. Driskell, Greenville, S. C.  
Application June 11, 1951, Serial No. 231,024  
15 Claims. (Cl. 81—53)

5. A device for rotating a part of a work piece comprising, in combination, a fixed support for the work piece, a member mounted for reciprocal movement a fixed distance toward and from said support, a wrench keyed to said member and adapted to be brought into engagement with a part of the work piece during movement of said member toward said support and to rotate relative to the member while in engagement with said part upon further movement of said member toward said support, means for reciprocating said member, and a

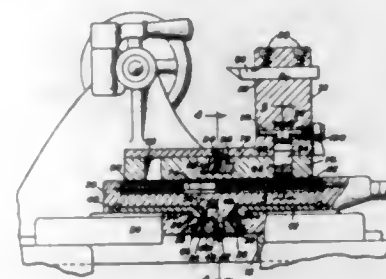


of said member to limit the extent of rotation of said wrench.

2,715,848

## LATHE TOOL HOLDER

Walter V. Schmidt, Highland Falls, N. Y.  
Application September 25, 1950, Serial No. 186,584  
4 Claims. (Cl. 82—12)

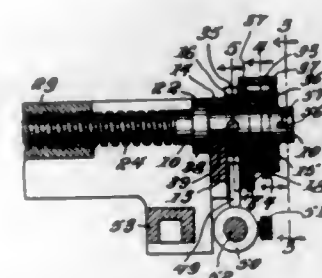


1. A lathe tool including a compound tool carriage having an upper member, a swivelling member mounted upon said upper member for horizontal pivoting movement about a vertical axis, a guide member fixedly secured above and diametrically of said swivelling member, a slide mounted on said guide member, a tool post mounted on said slide, said slide having a transverse bar extending between said guide and swivelling members, said bar having a threaded bore, an adjusting screw journaled in said swivelling member and engaging said threaded bore, means for locking said slide to said swivelling member, said last means including a bore in said slide, a plunger slidable in said bore, an actuator for pressing said plunger against said swivelling member.

2,715,849

## THREAD CUTTING TOOL RELEASE

Joseph Blaly, Buffalo, N. Y.  
Application April 20, 1953, Serial No. 349,603  
3 Claims. (Cl. 82—24)

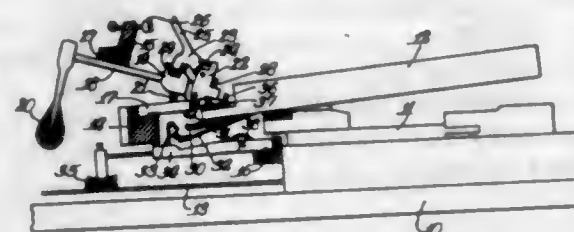


1. A reversing attachment for a cross feed screw of a lathe carriage comprising a coil spring, means for connecting the coil spring to the cross feed screw whereby rotation of the screw winds the spring, a ratchet for holding the spring, and a stop mounted on the lathe and positioned to release the ratchet during carriage movement whereby the spring rotates the cross feed screw, reversing the direction of rotation of said screw.

2,715,850

## PIANO ACTION

Paul F. Murdock, Clinton, Conn., assignor to Pratt, Read & Co., Inc., Ivoryton, Conn., a corporation of Connecticut  
Application June 23, 1954, Serial No. 438,825  
18 Claims. (Cl. 84—236)

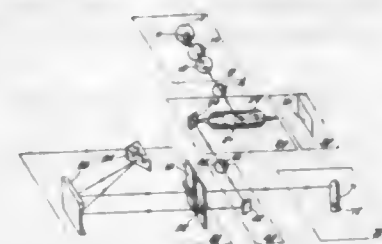


1. A down-striking action for a piano having horizontal strings including in combination, a fixed rail means, a hammer including a butt portion pivotally mounted on said rail means, spring means secured to said rail means and said hammer butt portion for normally holding said hammer away from the strings, a whip pivotally mounted on said hammer butt portion and having a part adapted to be engaged by a piano key to be actuated thereby, jack means pivotally secured to said whip and including a portion adapted to engage said hammer butt portion for transferring movement of said whip to said hammer, spring means operatively connected to said whip and said jack means for holding said jack means in a position engaging said hammer butt portion, and let-off means secured to said rail means positioned to be engaged by a portion of said jack means for releasing said jack means when said hammer has been moved to a predetermined position thereby.

2,715,851

## REFLECTANCE ACCESSORY FOR A SPECTROPHOTOMETER TO EVALUATE THE FLUORESCENT CHARACTERISTICS OF OPAQUE MATERIALS

Albert Joseph Derr, Binghamton, N. Y.  
Application August 4, 1952, Serial No. 302,638  
2 Claims. (Cl. 88—14)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a spectrophotometric device having a monochromating section, a reflectance accessory which comprises a first housing containing a light source, a second housing secured to the first housing and containing a reflector for directing the light toward a sample, a sample holder adjacent said second housing for supporting the material being tested, a cylindrical mirror and a reflector also in said second housing acting to direct the energy reflected from the sample to the monochromating section of the device.

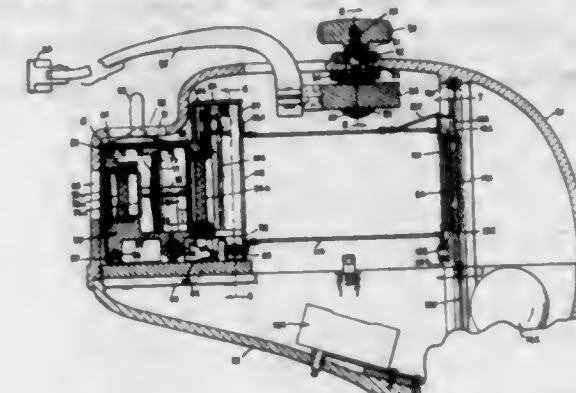
2,715,852

## EYE TESTING INSTRUMENTS

Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts  
Application July 12, 1950, Serial No. 173,440  
6 Claims. (Cl. 88—20)

1. An eye testing device of the character described comprising a casing having a pair of spaced sight openings in the forward side thereof, a pair of lens supports mounted in said casing one adjacent each sight opening,

and a pair of optical systems one secured to each of said supports and each disposed in substantially axial alignment with a respective one of said sight openings, said casing further containing illuminating means and a pair of elongated closed target carrying compartments, each of said compartments being attached to a respective lens support and having openings of restricted area in the front and rear walls thereof, the opening in the front wall of the compartments being visually aligned with the respective optical system on said lens support, and means restricting the passage of light from the illuminating means to the sight openings except through said openings in the rear walls of the two compartments, and translucent chart means overlying each of said openings in the rear wall of said compartments and illuminated by light passing through said opening from the illuminating means, said chart means each having an individual target, said targets being arranged in offset relation with respect to each other to provide a stereoscopic image, when both chart means are simultaneously viewed by the respective eyes

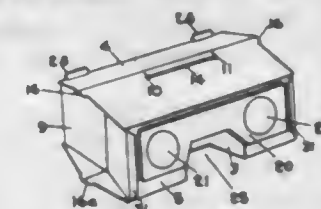


of an observer, embodying a plurality of target components effectively located in spaced planes, and said pair of optical systems carried by the supports each embodying lens elements substantially aligned with said sight opening, each having their surface curvatures related to each other to introduce magnification of the target portions of the chart means viewed through said optical system in one meridian while substantially unaffected magnification of said target portions in a meridian normal thereto, said lens elements in one system introducing magnification only in the horizontal meridian and in the other system only in the vertical meridian, at least one of said lens elements of each optical system being mounted on the support for axial adjustment toward and away from the other of said lens elements, and externally located control means extending through an opening provided in the casing and operatively connected with said adjustable lens elements of each optical system to change the spacing of said lens elements and consequent magnification of the image in said meridians.

2,715,853

## COLLAPSIBLE STEREOSCOPIC VIEWER

Charles C. Austin, Minneapolis, Minn., assignor, by mesne assignments, to Viewmaller Company, Chicago, Ill., a corporation of Illinois  
Application April 21, 1954, Serial No. 424,613  
10 Claims. (Cl. 88—29)



1. A collapsible device for viewing translucent printed or pictorial slides, comprising a box fabricated from relatively rigid material and having a top, a bottom, a front wall, a back wall, and opposed end walls, said end walls being attached to said front and back wall but free of said

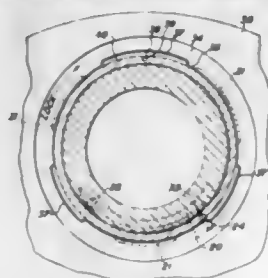


top and bottom, said top and bottom each overhanging said end walls and being provided with a crease line extending from end to end whereby each of said top and bottom will fold longitudinally outward as said front wall and back wall are brought toward each other, said end wall each being provided with a crease line whereby said end walls will fold vertically inward as said front wall and back wall are brought toward each other, an elastic member extending between said top and said bottom to keep said box normally in expanded condition with said front wall spaced apart from said back wall, said front wall being provided with at least one lens-carrying aperture, said back wall being provided with at least one light-transmitting window, said back wall incorporating a channel for carrying the slide to be viewed.

2,715,854

# BAYONET LOCK CONSTRUCTION FOR LENS MOUNTS

Arthur B. Simmons and Rudolf Kingslake, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application November 2, 1953, Serial No. 389,558  
6 Claims. (Cl. 88—57)



1. A lens tube mounting mechanism comprising, in combination, a support formed with an axially extending tube receiving and supporting aperture and an open annular groove positioned adjacent said aperture and having radially extending axially spaced walls, one of said walls being spaced axially from said aperture and having an opening of larger diameter than, but aligned with, said aperture and radial slots extending outwardly from said opening, a tubular portion on said lens tube extending through said opening and positioned and supported in said aperture, a radially extending flange on said portion positioned in said groove adjacent the other wall, a ring threadably mounted on said tubular portion and spaced axially from said flange and extending through said opening, radially projecting lugs on said ring positionable in registry with and passable through said slots to position said lugs in said groove adjacent said one wall, said ring being rotatable on said tubular portion to move said lugs out of registry with said slots and to move said ring and lugs axially of said tubular portion and away from said flange to wedge said lugs and flange against said walls to lock said tubular portion on said support, and means for rotating said ring.

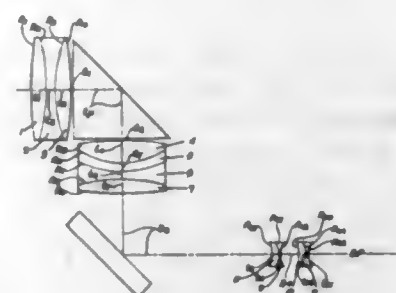
2,715,855

# TELEPHOTO OBJECTIVE ZONALLY CORRECTED FOR SPHERICAL ABERRATION

Fred E. Altman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
Application November 3, 1953, Serial No. 390,053  
2 Claims. (Cl. 88—57)

1. A telephoto objective comprising a positive front member and a negative rear member axially aligned between the positive member and its principal focal plane, the focal length of the positive member being less than the focal length  $F$  of the objective as a whole and the focal length of the negative member being such that the rear nodal point of the objective is in front of the front surface of the positive member by less than  $0.95 F$ , each

member comprising at least one lens component, said objective being characterized by the positive member including a positive lens component which is convex to the front for correcting the coma of the objective and which consists of four lens elements cemented together forming three interfaces hereinafter referred to as the negative interface, the positive interface and the rear interface, the negative interface being concave to the front and having negative power, the refractive index difference at this negative interface being between  $+0.05$  and  $+0.35$  for correcting the marginal spherical aberration, the positive interface being also concave to the front, having positive power and having a radius of curvature between  $0.4$  and



$0.8$  times that of the negative interface, the index difference at this positive interface being between  $-0.003$  and  $-0.035$ , for correcting the zonal spherical aberration of the objective, the rear interface being behind the other two and being convex to the front, the lens element immediately in front of the rear interface being negative and having a refractive index  $N_3$  between  $1.6$  and  $1.9$  and a dispersive index  $V_3$  between  $30$  and  $50$ , and the lens element behind this third interface being positive and having a refractive index  $N_4$  between  $1.38$  and  $(N_3+0.05)$  and having a dispersive index  $V_4$  between  $1.3 V_3$  and  $100$  for correcting the axial chromatic aberration of the objective.

2,715,856

# INCLOSED CONCENTRIC RECOIL MECHANISM TO FACILITATE REPLACEMENT OF GUN TUBES

Alexander E. Kramer, Hyattsville, Md., and Herman A. Matson, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Army  
Application May 11, 1951, Serial No. 225,904  
5 Claims. (Cl. 89—43)

(Granted under Title 35, U. S. Code (1952), sec. 266)

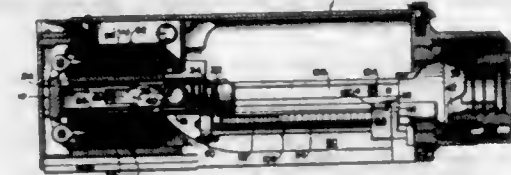


1. An inclosed unitary recoil mechanism to facilitate replacement of gun barrels from the forward end of a gun comprising a cylindrical housing, a cylindrical sleeve mounted coaxially within the housing, fluid tight rings fastened rigidly to the housing and making sliding contact with the sleeve, recoil and counter-recoil chambers formed between the housing and the sleeve, a mass of viscous fluid in said chambers, a passageway connecting the two chambers, resilient means in the recoil chamber interconnecting the housing and the sleeve, a breech ring having a female portion adapted to receive and secure the breech end of a gun barrel, said sleeve having an internal diameter larger than said female member to allow insertion of a gun barrel from the front of said mechanism and means for securing the sleeve to the breech ring of the gun.

2,715,857

# BOLT DETENT FOR A FIREARM

Burns Darsie, Watertown, Conn., assignor to the United States of America as represented by the Secretary of the Army  
Application January 19, 1953, Serial No. 332,133  
6 Claims. (Cl. 89—181)

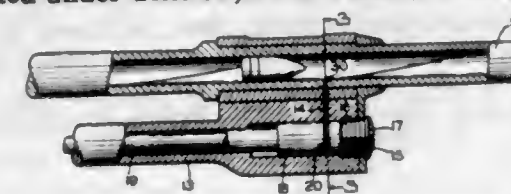


1. In an automatic firearm having a receiver and a bolt slidably mounted therein for reciprocal movement between a battery and a recoil position, a lever mounted for pivotal movement within the bolt, a latch pivotally secured to the free end of said lever, spring means biasing said latch into engagement with said lever, stop means in the bolt for limiting the pivotal movement imparted to said lever by said latch and thereby limiting the extent to which said latch projects from the bolt, and fixed means abutting the rear end of said latch during battery position of the bolt, said spring means biasing said latch to coact with said fixed means and said lever for resisting the pivotal force imparted thereto by the tendency of the bolt to bounce out of battery position.

2,715,858

# REGULATOR MEANS FOR A FIREARM GAS PISTON

Filser D. Hoppert, Springfield, Mass., assignor to the United States of America as represented by the Secretary of the Army  
Application March 2, 1953, Serial No. 339,946  
3 Claims. (Cl. 89—193)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an automatic firearm having a barrel with a gas port leading therefrom, the improvement comprising a gas tube secured to the barrel and having a radially disposed gas aperture aligned with the gas port in the barrel, an enclosure member threadably secured to one end of said gas tube, a reciprocating operating rod disposed within said gas tube, a cylindrical piston slidably arranged in said gas tube between said enclosure member and said operating rod, a circumferential annular groove concentric to and spaced apart from the front end of said piston and arranged for registry with said gas aperture when said piston is in contact with said enclosure member, a multiplicity of ducts extending radially from said groove to an axial bore through said piston, a device threadably mounted in said bore rearwardly of the junction of said ducts and arranged to adjustably block off said ducts from said bore, and a portion forwardly of said groove arranged to restrict said gas aperture when moved into contiguous relationship therewith.

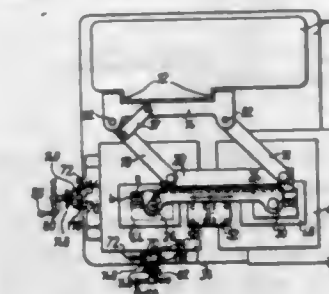
2,715,859

# ENGRAVING AND COPYING MACHINE

Kurt Zwick, Munich, Germany, assignor to Hans Deckel and Friedrich Wilhelm Deckel, both of Munich, Germany  
Application February 3, 1951, Serial No. 209,225  
Claims priority, application Germany February 9, 1950  
8 Claims. (Cl. 90—13.1)

1. An engraving and copying machine of the type having a frame, a pattern table and a work table movably mounted on said frame, feeding means for displacing at least one of said tables relative to said frame in the di-

rection of the plane of the table, a guideway, a mounting member mounted for movement along said guideway, a beam, a pair of arms each pivotally connected at one end to said mounting member and each pivotally connected at its other end to said beam to swing about pivotal axes substantially perpendicular to the planes of said tables, said arms and beam together forming a swinging parallelogram for displacement of said beam relative to said frame in certain directions parallel to the planes of the tables, a carriage mounted on the beam for displacement relative thereto in certain other directions

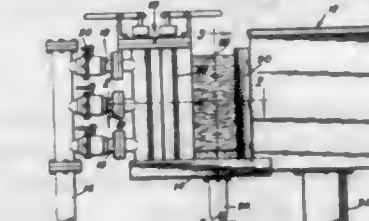


parallel to the planes of the tables and at an angle to the directions of displacement of the beam, said arms, said beam, and said carriage all being supported from said mounting member, means on the carriage for holding a tracing stylus and a cutting tool, characterized by means applicable to the mounting member and cooperating with one of the parts supported by said mounting member for preventing motion of the carriage in at least one of the directions parallel to the planes of the tables in which it could otherwise move, and supplementary intermittent feeding means for producing a step by step feeding motion of said tables in the direction in which the motion of said carriage is prevented.

2,715,860

# PULP CLEANER

Theodore M. Walters, Easton, Pa., assignor of fifty per cent to Lewis C. Walter, Riegelsville, Pa.  
Application July 2, 1954, Serial No. 441,062  
9 Claims. (Cl. 92—28)



1. A pulp cleaner comprising an ejector assembly including a vertically disposed elongated nozzle member having a vertically disposed slotted opening adapted to issue a vertical sheet-like stream of pulp fiber and water mixture into the atmosphere, means disposed below said ejector assembly and extending therebeyond for receiving dirt and foreign matter separated from the sheet-like stream of pulp fiber and water, and a clean pulp fiber receiver spaced downstream from said nozzle member, said receiver having a vertically disposed elongated slot therein opening to the atmosphere in alignment with the vertically disposed slotted opening in said nozzle member for receiving the sheet-like stream of pulp fiber and water mixture.

2,715,861

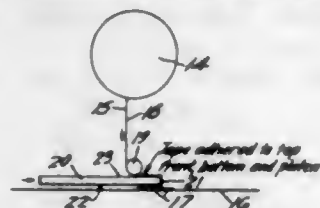
# PLATEN TAPE APPLYING

Paul W. Jacobsen, Kiel, Wis., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware  
Application November 27, 1953, Serial No. 394,767  
6 Claims. (Cl. 93—1)

1. A method of applying a length of normally tacky, pressure-sensitive adhesive tape to three successive sur-



faces of an article comprising conducting a length of tape from a source toward a platen, temporarily applying a leading portion of the said length to the said platen with the succeeding unadhered portion extending outwardly from the platen, advancing the article along the platen in a direction to bring the leading end of the article against the adhesive side of the said succeeding portion of tape, initially pressing the said succeeding portion



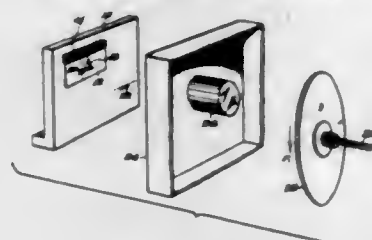
against the article at a point on the article removed from the leading end of the article to apply tape to the surface of the article opposite the platen, and continuing the said advancement and the said pressing to withdraw additional tape from the source and to apply tape to the surface of the article facing the platen and to the surface opposite thereto, the tape that is applied to the surface of the article facing the platen being the said leading portion that was temporarily adhered to the platen.

2,715,862

# APPARATUS FOR PREPARATION OF CHARACTER MATRICES AND FOR PHOTOGRAPHIC TYPE PROJECTION

Louis Moyroud and René Higonnet, Cambridge, Mass., assignors to Graphic Arts Research Foundation, Inc., Cambridge, Mass., a corporation of Delaware  
Application September 20, 1950, Serial No. 186,652  
Claims priority, application Great Britain

September 23, 1949  
1 Claim. (Cl. 95-4.5)



A process for preparing a character matrix support for photographic type composition, comprising the steps of mounting the support having a photosensitive layer rotatably about a fixed axis, placing a selected replaceable character form and an aperture form in fixed positions for projection onto the support, said positions being arranged to produce images of the character and aperture at unequal distances from said axis, one edge of the aperture image and the height of the character image being oriented substantially radially to said axis, projecting said images without intermediate movement of the support, rotating the support through a predetermined angle, and repeating the preceding steps with a different character substituted for that previously projected, each character having a base line and one vertical side extremity in the identical positions when photographed as the corresponding lines of the other characters.

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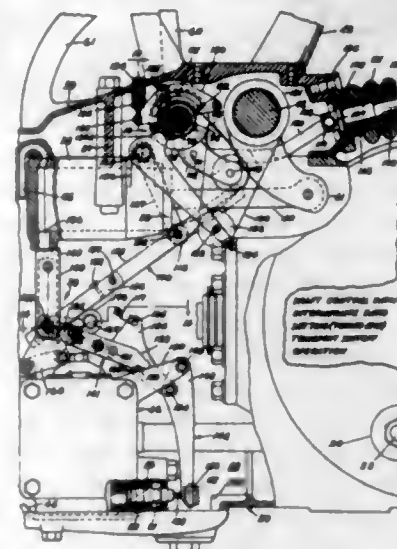
# POWER OPERATING SYSTEM FOR TRACTOR HITCH LINKAGES

Ernest V. Bunting, Detroit, Mich., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application June 7, 1949, Serial No. 97,640  
28 Claims. (Cl. 97-46.07)

26. The combination with a tractor having an implement hitch linkage trailing mounted on its center housing and a power unit enclosed within the housing

operable to raise and lower the linkage, of means within the housing shiftable to control the operation of said power unit, means supported on and externally of the housing and having a connection with an implement attached to the hitch linkage so as to respond to changes in the draft load on the implement by movements directly proportioned to the draft load changes, means within the



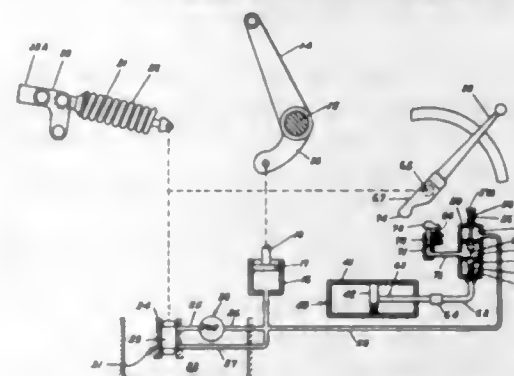
housing interposed between said draft responsive means and said control means operative to shift said control means selectively varying distances for any given movement of the draft responsive means, and means operable manually to condition said last mentioned means for shifting said control means a selected distance for a given movement of the draft responsive means.

2,715,864

# TRACTOR HYDRAULIC SYSTEMS

Lester G. Kopp, South Bend, Ind., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application March 15, 1950, Serial No. 149,738  
2 Claims. (Cl. 97-46.35)



2. An attachment for a tractor having a power lift including a main hydraulic actuator, a pump supplying fluid under pressure, valve mechanism and a hand lever for shifting said valve mechanism between a first position in which the pump is caused to supply fluid to the actuator, a second position in which fluid is locked in the actuator and the supply of fluid from the pump is interrupted, and a third position in which the fluid supply from the pump is interrupted and exhaust of fluid from the actuator is initiated, said attachment comprising a valve casing defining a first chamber connected to receive fluid from said pump, a second chamber adapted to be connected to an auxiliary actuator, and a third chamber intermediate said first and second chambers, valve means biased to permit flow of fluid from said first chamber to said second chamber and to shut off fluid flow in the reverse direction, other valve means biased to permit flow of fluid from said third chamber to said second chamber and to shut off fluid flow in the reverse direction, a plunger operative when actuated to open both of said valves, means supporting said valve casing with

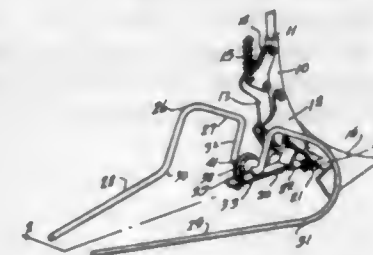
said plunger positioned for engagement by the hand lever when moved to shift said valve mechanism to its third position, a pressure responsive device including a cylinder carried on said valve casing and in communication with said third chamber, a plunger reciprocable in said cylinder, means normally opposing a predetermined force against the movement of said plunger by the pressure of the fluid in said third chamber, said means being constructed and arranged so that the opposing force exerted by said means is substantially reduced following the initial movement of the plunger thereby promoting further rapid movement of the plunger to fully extended position, said cylinder being located on said valve casing to position said plunger for engaging the hand lever and shifting the lever from its first to its second position.

2,715,865

# LAND LEVELLING ATTACHMENT FOR CULTIVATOR

Fred E. Dennewitz, Forrest, Ill.

Application June 3, 1952, Serial No. 291,449  
1 Claim. (Cl. 97-56)



A ground levelling attachment for a cultivator having a shank and a shank-supported shovel, comprising a flat bracket having a leading end portion formed with an angularly offset portion adapted to be affixed to said shovel and a trailing end portion lying in a horizontal plane, said trailing end portion having a pair of openings spaced longitudinally thereof; a pair of superposed blocks supported upon said trailing end portion, said blocks being disposed between the openings of said trailing end portion and including a lower block contacting the upper surface of said portion and an upper block disposed above the lower block, the lower block being of rectangular configuration and being formed at opposite ends thereof with vertically extending grooves of arcuate cross section registering with said openings, said lower block having a flat top surface formed intermediate the opposite ends of the block with a transversely extending recess of arcuate cross section, the well of said recess being formed with serrations extending fully from side to side of the block transversely of the block and trailing end portion, the upper block being formed as a semi-cylindrical member having a flat underside spaced from the flat upper surface of the lower block, said underside of the upper block being formed with an arcuate recess, opposing the recess of the lower block and having a wall formed with serrations extending fully from side to side of the upper block transversely of the trailing end portion, said upper block having a semi-cylindrical top surface formed with a groove of arcuate cross section extending from end to end of the upper block, the groove of the upper block having its ends registered with the grooves of the lower block; a ground-engaging element formed from a length of metal rod material bent to substantially a U-shape to include a bight portion and legs extending symmetrically and convergently from opposite ends of said bight portion, said bight portion being formed with a crank intermediate its ends and said crank having a straight intermediate part seated in the recesses of the blocks and serving to maintain the blocks in spaced relation, said legs extending as trailing elements in back of the shovel to level ground penetrated by the shovel; and a bolt of inverted U-shape straddling the blocks, said bolt having a bight portion

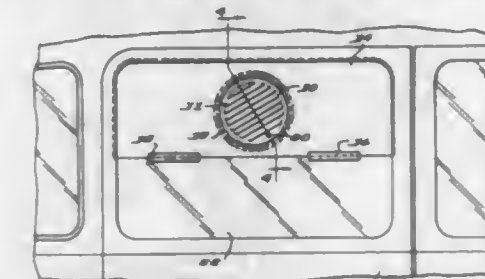
897 O. G.—32

2,715,866

# NON-GLARE VEHICLE WINDOW VENTILATOR

Canellen K. Mousel, Edison, Nebr.

Application February 19, 1952, Serial No. 272,302  
1 Claim. (Cl. 98-2)



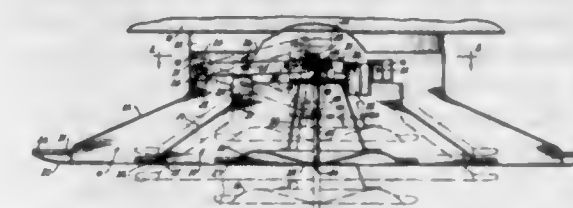
In a vehicle window ventilating panel, the combination which comprises a substantially rectangular-shaped panel of at least partially transparent material having pairs of depending clips on the lower edge adapted to retain the panel on the upper edge of a window pane with the upper part of the panel secured in a frame in which the window pane is positioned, said panel having a circular opening therein and having an annular channel extended around said opening, a disc having a rim, Z-shaped in cross section, positioned in the opening of the panel and having spaced parallel louvers therein, and a knob extended from the inner surface of the disc providing a handle for turning the disc to adjust the angular position of said louvers.

2,715,867

# AIR DISTRIBUTION UNIT

Walter W. Kennedy, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application May 3, 1950, Serial No. 159,795  
9 Claims. (Cl. 98-40)



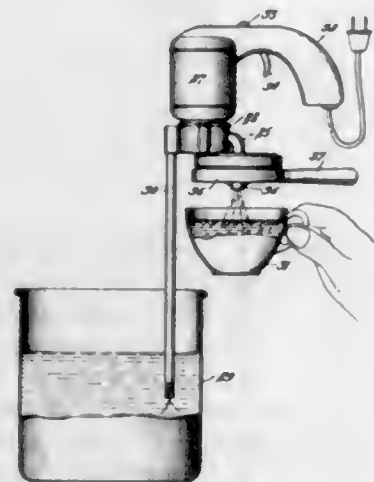
1. An air distribution unit having, in combination, a rotary shaft having a thread thereon, a nut on said shaft mating with said thread to move axially therealong during turning of the shaft, a bar radiating outwardly from said shaft, means providing a connection between the inner end of said bar and said nut to permit the bar to swing about a pivot spaced outwardly from said shaft and extending generally tangentially of said nut, inner and outer annular air deflectors both centered on the axis of said shaft and radially spaced apart so as to coact with each other in defining a generally annular passage for the flow of air longitudinally of said shaft axis, means connecting said outer deflector and said bar for relative swinging about a pivot paralleling said first pivot and spaced along the bar outwardly from the latter pivot, means providing a connection including a third pivot on said bar paralleling said first and second pivots and disposed between the latter, a rigid member supported at one end by said third pivot and extending longitudinally of said shaft and inwardly to a point adjacent the shaft, and means providing a connection between the inner end of said member and said inner deflector shiftable axially relative to said nut



upon turning of said shaft, one of said connections having parts shiftable relative to each other to permit said axial shifting of said nut and inner member.

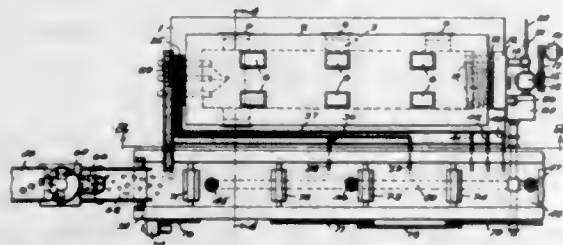
**2,715,868**  
**COFFEE EXTRACTING AND DISPENSING APPARATUS**

William F. Brown, Pawling, N. Y., assignor to International Coffee Corporation, New York, N. Y., a corporation of New York  
Application November 23, 1951, Serial No. 257,840  
1 Claim. (Cl. 99—302)



Coffee extracting and dispensing apparatus comprising an extractor head having relatively separable parts forming a chamber for containing a cartridge of beverage extraction material, said extractor head having an inlet for hot water and an outlet for the extracted beverage, a pump mounted on said extractor head having an inlet for hot water and having an outlet connected with the inlet of the extractor head and means connected with said pump for operating the same to force hot water as described through the extractor head, said operating means for the pump comprising an electric motor directly mounted on the extractor head and forming therewith a single portable unit, the pump inlet including a tube dependent from the pump adapted to be dipped into a vessel containing hot water and the outlet from the extractor head including a delivery spout adjoining said tube but disposed above the lower end of the tube and whereby the extracted beverage may be delivered into a cup held beneath said spout or the extracted beverage be delivered back into the hot water containing vessel for recirculation through the extractor head.

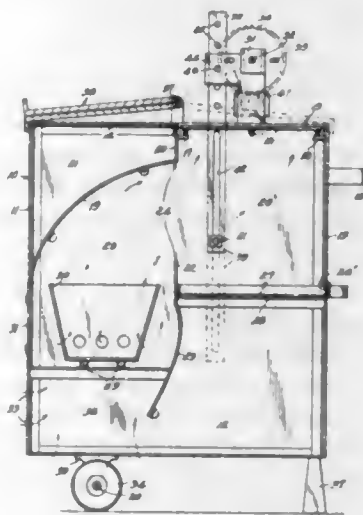
**2,715,869**  
**POTATO CHIP MANUFACTURE**  
Anthony Salvo, Fall River, Mass.  
Application December 7, 1951, Serial No. 260,376  
1 Claim. (Cl. 99—404)



A machine for cooking potato chips, comprising an elongated heater having a firing chamber therein, an elongated cooker disposed adjacent said heater, a series of fuel burners projecting into said chamber from one end of said heater, sets of oil-carrying tubes disposed

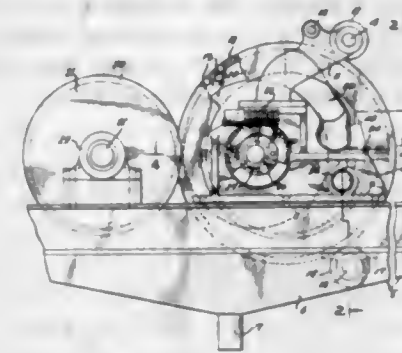
within said chamber above said burners and extending lengthwise of the chamber, a manifold at one end of said heater externally thereof and with which corresponding ends of all of said tubes are in communication, the opposite ends of one set of tubes communicating with the cooker adjacent the feed end thereof, the opposite ends of a second set of the tubes communicating with the cooker intermediate the ends thereof, and the opposite ends of a third set of the tubes communicating with the cooker adjacent the discharge end thereof, the first set of tubes being greater in number than that of the second and third set of tubes, an oil sump disposed at said one end of the heater beneath said manifold, a conduit leading from said sump to said manifold, a pump interposed in said conduit for supplying oil to said tubes under pressure, a plurality of oil drains in the bottom wall of said cooker, a conduit beneath said cooker with which said drains are in communication, said conduit being in communication with said sump and being provided with a valve for regulating the draining of oil from the cooker into said sump.

**2,715,870**  
**BARBECUE DEVICE**  
Walter L. Rutkowski, Normandy, Mo.  
Application September 29, 1953, Serial No. 382,899  
1 Claim. (Cl. 99—421)



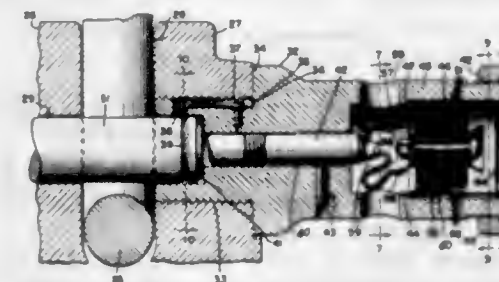
In a barbecue grill, the combination of a housing having a front portion affording a heating chamber therein and a back portion affording a combustion chamber in communication with said heating chamber, a drip pan provided at the bottom of said heating chamber, a fire pot provided in said combustion chamber and spaced rearwardly from said drip pan, a fire shield disposed between the drip pan and the fire pot and projecting above the same, said heating chamber having an open top, a deck plate provided at the top of said housing above said combustion chamber, a pair of fastener elements provided at the inner sides of said housing in the heating chamber, a pair of vertical straps provided with vertical slots having said fastener elements adjustably disposed therein whereby the straps may be vertically adjusted, said straps being disposed at the inner sides of said housing in said heating chamber and projecting upwardly through the open top of the latter, a rotatable spit mounted on the upper end portions of said straps and extending transversely of the housing above the open top of the heating chamber when the barbecue grill is in its operative position, said straps being retractable to an inoperative position wherein the upper ends thereof are substantially flush with the open top of said heating chamber, and a cover provided on said housing for closing the open top of the heating chamber when the straps are retracted into the latter.

**2,715,871**  
**PULP PRESS**  
Rene E. Dosne and Percy L. Johnson, Hawkesbury, Ontario, Canada, assignors to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of Quebec  
Application February 4, 1954, Serial No. 408,098  
8 Claims. (Cl. 100—131)



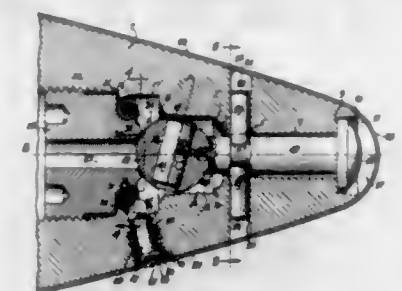
1. A pulp press including a perforate press ring provided at each edge with an imperforate annulus rigidly affixed thereto, means positioned exteriorly of said press ring for rotatably supporting the same about a fixed axis of rotation and including a resistance roll provided with a peripheral groove positioned in tangential contact with said press ring, a press roll having a diameter substantially smaller than that of said press ring and rotatably positioned off-center with said press ring to provide upper and lower horn angles between said press ring and press roll and having an axial length substantially equal to the interfacial distance between the annuli of said press ring, the axes of said press ring, resistance roll and press roll lying in a common plane, means for rotating said press roll, means for admitting a solids-containing liquid suspension to the lower horn angle between said press ring and said press roll, means for preventing admission of said liquid suspension to the upper horn angle between said press ring and said press roll, and means for removing and discharging the pressed solids from the inner surfaces of said press ring and its associated annuli.

**2,715,872**  
**PARACHUTE RELEASING MEANS**  
Harold W. Kias, Sylvania, Ohio, assignor to the United States of America as represented by the Secretary of the Navy  
Application July 3, 1945, Serial No. 603,100  
8 Claims. (Cl. 102—13)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



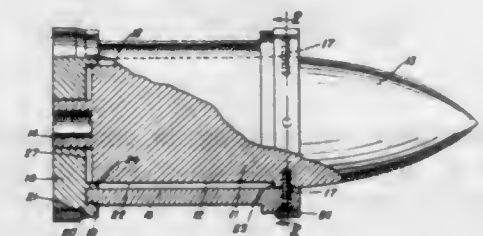
1. A mechanism of the character disclosed for releasing a parachute from a load as the load enters a body of water and comprising two separable sections secured to the parachute and to the load respectively, means for releasably locking said sections together, electroresponsive explosive means for releasing said locking means when said explosive means is operated, a source of electrical energy adapted to be activated to operate said electroresponsive means as water is received by said source, and frangible means for excluding water from said source until the frangible means is ruptured as the load enters said body of water.

**2,715,873**  
**FUZE**  
Parke H. Thompson, Kirkwood, Mo., assignor to the United States of America as represented by the Secretary of the Army  
Application January 25, 1950, Serial No. 140,454  
17 Claims. (Cl. 102—71)



1. A fuze for projectiles which spin comprising a body having an axial pocket having a first rearward seat, a precessive detonator rotor in the pocket engageable with said first seat, a firing pin having a safety position wherein it extends rearward into the front of the pocket and is adapted to hold the rotor in a safe position on the seat, said pin being adapted to assume a forward arming position retracted from the rotor to release it to precess into armed position, a second seat behind the first seat, a resilient ring member embracing the second seat and expansible from embracing position in response to spin to leave the seat, and means for forcing said ring member after leaving the seat into a position forward of said second seat wherein it may shrink in size upon decay of spin to engage the rotor to force it forward against said pin said means comprising a conical flaring portion forming in part at least the wall of said pocket and radially aligned with said second seat.

**2,715,874**  
**PROJECTILE WITH A BOURRELET RETAINING A SEGMENTED RING IN A CORE-GROOVE**  
Charles E. Hablutzel and William F. Ely, Albuquerque, N. Mex., assignors to the United States of America as represented by the Secretary of the Navy  
Application August 2, 1945, Serial No. 608,597  
1 Claim. (Cl. 102—93)



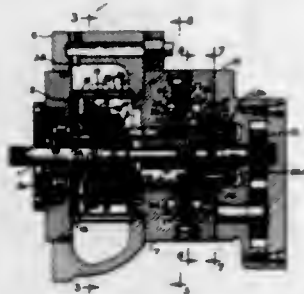
In a gun-fired projectile having an ogival sub-caliber core, a segmented spacer ring, said core having an annular groove at the approximate base of the ogive thereof, occupied by the ring and defining front and back shoulders limiting the axial displacement of the sections of the ring, a bourrelet carried by the core, having an internal diameter equalling the external diameter of the ring and extending at its front end over the ring approximately in line with the front shoulder to insure initially holding the sections together, said bourrelet having an internal annular shoulder at its rear end engaging the core, a shear pin driven through the bourrelet and shoulder into the core to maintain the bourrelet and spacer ring assembly until the projectile is fired, and a sabot mounted on the bourrelet at said rear end, furnishing rear end projectile support.



2,715,875

**AXIAL TYPE RECIPROCATING ENGINE**

John Maurice Towler, Carleton in Craven, Skipton, and Frank Hathorn Towler, Dob Park, near Odley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of the Kingdom of England  
Application October 21, 1949, Serial No. 122,698  
Claims priority, application Great Britain October 26, 1948  
12 Claims. (Cl. 103—173)

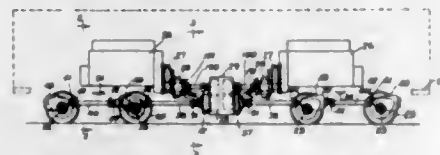


1. An axial ram pump of the type described comprising, in combination, a body having a plurality of parallel pump cylinders annularly arranged at equal radii about a central axis, a plurality of pump plungers slidably reciprocable in said cylinders of the annular series, said cylinders being alternately relatively large and small in diameter, power operated means for reciprocating said plungers in progressive overlapping timed sequence each with an intake stroke in one direction and a pressure stroke in the reverse direction in each cycle, a fluid supply manifold, inlet valve means for admitting fluid from said manifold to each cylinder in the course of the intake stroke of the associated plunger, a pair of fluid delivery manifolds in said pump body extending generally transversely of each of said cylinders and spaced apart axially of the cylinders, and discharge valve means individual to each cylinder and operative in the course of the pressure stroke of the associated piston to deliver pressure fluid to a particular one of said delivery manifolds.

2,715,876

**LOCOMOTIVES**

Heinrich Schnelder, Muncie, Ind., assignor to Schnelder Brothers Company, Muncie, Ind., a copartnership  
Application March 6, 1950, Serial No. 147,921  
8 Claims. (Cl. 105—62)



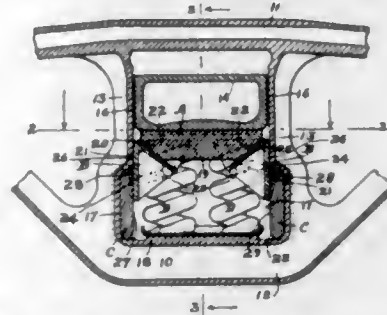
1. A locomotive comprising, in combination, a frame supported at opposite ends on a pair of trucks having spaced parallel drive axles with driving wheels on opposite ends of each axle, a pair of unidirectionally running internal combustion engines mounted in spaced opposed aligned relation on the center line of the frame directly over the aforesaid trucks, said engines having crankshafts, speed-up gearing connecting the crankshafts of the respective engines to the impeller wheels of a pair of spaced coaxially aligned torque converters each through a one-way clutch so as to turn the impeller wheels in the same direction and at stepped up speed in relation to the engine or engines when either or both of said engines are running, a transfer gear-box mounted centrally of the frame and extending downwardly with respect thereto having therein selectively engageable forward and reverse drive gears which are connected on their input side at the top portion of said gear-box with the turbines of the torque converters, and substantially horizontal propeller shafts connected with the drive gears on their output side and extending longitudinally of the locomotive below the frame on the center line thereof from opposite

sides of the lower portion of the gear-box and drivingly connected through bevel gears with the drive axles intermediate the ends thereof.

2,715,877

**SNUBBING MEANS FOR SPRINGS OF RAILWAY CAR TRUCKS**

Roland J. Olander, Chicago, Ill., assignor to W. H. Milner, Inc., Chicago, Ill., a corporation of Delaware  
Application March 25, 1950, Serial No. 151,906  
4 Claims. (Cl. 105—197)

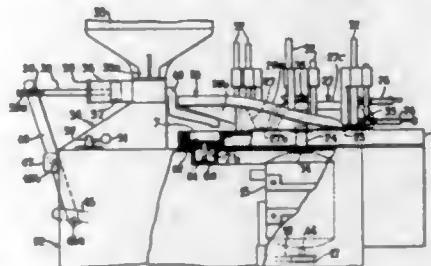


2. In a railway car truck including a truck side frame having laterally spaced, vertically extending bolster guides presenting opposed, vertically extending friction surfaces, the combination with a vertically movable bolster accommodated between said guides, said bolster having a flat underneath surface; of a plurality of springs arranged in sets supported on said frame beneath said bolster; a wedge including a flat plate section bearing on the underneath surface of said bolster, said plate having a depending rib thereon extending in a direction transversely with respect to said bolster and being accommodated between said sets of springs, said rib having the major portion thereof disposed below the upper ends of said springs, said rib having wedge faces at opposite ends thereof, said faces converging inwardly in downward direction; a pair of friction shoes beneath said plate section of the wedge, the shoes of said pair being disposed respectively at opposite sides of said bolster; and a downwardly extending, central section on each shoe, also accommodated in the space between said sets of springs, said central section presenting a downwardly inclined wedge face, the sections of said shoe at opposite sides of said central section presenting horizontal wing-like spring abutments which are entirely above said central section and rest on the top ends of said sets of springs, the wedge faces of said shoes respectively engaging the wedge faces of the rib of said wedge, each of said shoes having a lengthwise extending friction surface engaged with the friction surface at the corresponding side of said bolster.

2,715,878

**MACHINE FOR CUTTING AND FILLING CONFECTIONERY ARTICLES**

William Edward Egerton, Kingston-upon-Hull, England, assignor to Egerton Engineering Co. Limited, Ilkley Hall, Ilkley, England  
Application June 4, 1952, Serial No. 291,731  
Claims priority, application Great Britain June 5, 1951  
4 Claims. (Cl. 107—1)



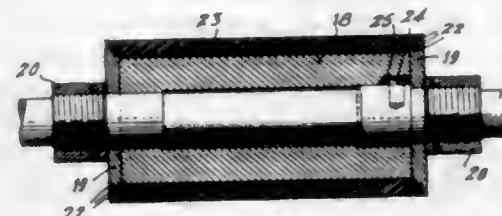
1. A machine for cutting and filling confectionery articles comprising in combination a support assembly, a

travelling platform mounted in said support assembly, a plurality of receptacles located in said travelling platform, means to cause movement of said platform and its receptacles in a given closed path, a rotatable disc cutter mounted alongside said travelling platform, said disc being disposed in a horizontal plane and having an edge portion thereof overlapping said closed path completely in close proximity to said travelling platform, a fixed platform mounted above a portion of said closed path beyond said cutter, an ascending ramp and a descending ramp disposed above said path and attached at opposite ends of said fixed platform, each ramp having its upper end at the level of said fixed platform and its lower end in close proximity to said path, a stationary cam track mounted alongside said path, the height of said track above said rotatable platform being a maximum alongside said fixed platform and a minimum adjacent each of said ramp lower ends, a plurality of substantially horizontally disposed arms mounted upon said platform, each of said arms extending across said cam track and having a free end terminating in a position immediately rearwardly of one of said receptacles, means to permit vertical displacement of each of said arms sufficient to permit the portion of said arm extending across said cam track to contact said cam track throughout movement of said travelling platform, and a dispensing device mounted upon said support assembly and having a discharge pipe terminating beneath said fixed platform and above said path.

2,715,879

**TRIFLUOROCHLOROETHYLENE SURFACED SHEETING ROLLER**

Hilton W. Sawyer, Nutley, N. J., assignor to Wallace & Tiernan Incorporated, a corporation of Delaware  
Application May 23, 1950, Serial No. 163,598  
1 Claim. (Cl. 107—12)



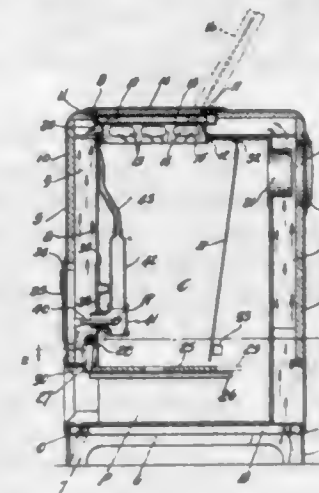
A roll for working sticky or tacky substances combining a rigid cylindrical core having a roughened peripheral surface, a tubular covering layer comprising a polymer of trifluorochloroethylene molded on and bonded with said roughened peripheral surface and thereby secured against rotation relatively to said core, and an end plate rigidly secured at each end of said core and having undercut portions with surfaces in overhanging relation to an imaginary extension of the periphery of said core, the end surfaces of said covering layer having portions corresponding in shape to said undercut portions and seated in said undercut portions, thereby interlocking the end portions of said covering layer with the end plates to prevent longitudinal and circumferential expansion of the covering layer at its ends.

2,715,880

**INCINERATOR**

John W. Hebert, Bay City, Mich., assignor, by mesne assignments, to Calcinator Corporation, Bay City, Mich.  
Application October 26, 1951, Serial No. 253,419  
7 Claims. (Cl. 110—18)

7. An incinerator comprising, an upright housing including top and side walls, an inner casing including top and side walls supported within said housing and spaced from said walls of the housing to define an insulating and air conducting chamber around the sides and top of the casing, said housing having a charging opening in the top wall thereof and said inner casing having a charging



opening in the top wall thereof in alignment therewith, a depending door frame supported by said housing within the charging opening and having a downwardly extending tubular skirt member extending in proximity to the charging opening in said inner casing to provide a charging passage leading from the exterior of said housing, and a charging door supported by said housing for closing said charging passage, said door frame, door, and top wall of the inner casing comprising a top closure for the

2,715,881

**INCINERATOR**

Frank R. O'Neill, Monrovia, Calif., assignor of fifty per cent to Robert J. O'Hare, Santa Monica, Calif.  
Application February 3, 1954, Serial No. 407,926  
5 Claims. (Cl. 110—18)



1. An incinerator comprising: a fire pot; a perforated tube extending vertically through said fire pot, the upper and lower ends of said tube being open; a flue connected to the upper end of said fire pot, said upper end of said tube being disposed in said flue; means providing communication between the lower end of said tube and atmosphere; an elongated shaft disposed axially within said tube and extending beyond the upper end of said tube; bearings positioned for rotatably supporting said shaft; a turbine wheel mounted on the upper end of said shaft, positioned in said flue and adapted to be rotated by gases passing through said flue; and a fan mounted on the lower end of said shaft, said fan being adapted to force air upwardly through said tube and into said fire pot thereby to facilitate combustion therein.



2,715,882

**GRASS PLANTING MACHINE**

Le Roy Overstreet, Jr., Loughman, Fla.  
Application March 28, 1952, Serial No. 279,111  
3 Claims. (Cl. 111-3)

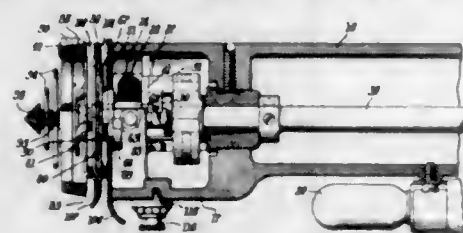


1. A two-wheeled hopper at least three times as wide as it is long, having a body V-shaped in longitudinal section, having at its forward or leading end a connection for towing of the hopper by a tractor, and having at its rear end a plurality of connector members, and a plurality of towed space grass planting units secured independently to said connector members, each of the units including a notched planting disk to penetrate the ground to bury grass cuttings fed to the notches of the disk from the hopper, said planting disks rotating at an angular speed slower than the speed determined by simple contact with the ground of a wheel having a radius equal to the distance from the axis of the disk to the ground level.

2,715,883

**ROTARY THREAD TAKE-UPS FOR SEWING MACHINES**

Eugene O. Mayer, South Norwalk, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey  
Application March 23, 1953, Serial No. 343,822  
7 Claims. (Cl. 112-248)

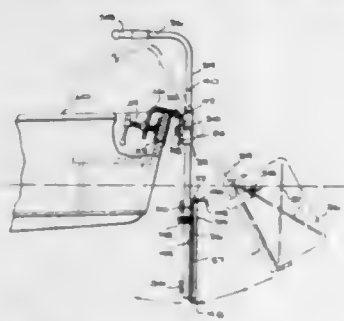


1. In a sewing machine having a duplex rotary take-up member, guard means surrounding said take-up member and having two parallel thread-accommodating slots formed therein, an introductory thread guide fixed with respect to said guard means and disposed to deliver thread into the plane of the first of said slots, and an intermediate thread guide arranged at an inclination to the parallel planes of said slots and disposed to receive the thread in the plane of said first slot and deliver said thread into the plane of the second slot.

2,715,884

**TROLLING ATTACHMENT FOR BOATS**

Earl M. Greenlee, Somerset, Ky.  
Application November 21, 1952, Serial No. 321,841  
2 Claims. (Cl. 115-29)



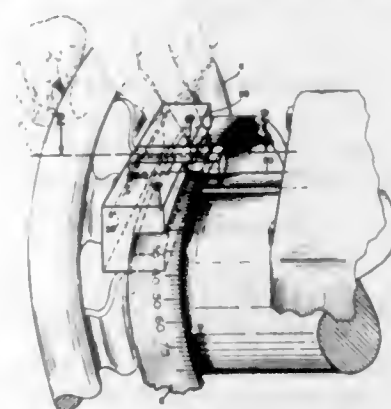
1. A trolling attachment for boats comprising a clamp detachably secured to a boat, a sleeve support plate hingedly connected to said clamp and extend-

ing exteriorly of the boat, a sleeve carried by said plate, pivot means extending transversely of said plate securing said sleeve to said plate to permit rotation of said sleeve about the transverse pivot means as an axis, an upstanding operating bar extending longitudinally through and freely rotatable in said sleeve, said bar having its upper end formed as a handle adapted to be grasped by a user for rocking the bar about said pivot means, and a pair of plates secured at the lower end of the bar for swing movement about spaced parallel axes parallel to the longitudinal center line of said bar, said plate being swingable from a position where the plates are coplanar to a position where the plates are in spaced parallel relation.

2,715,885

**ADJUSTABLE HAND STOP FOR MACHINE FEEDS**

Charles W. Crowley, Medford, Mass.  
Application May 4, 1953, Serial No. 353,024  
5 Claims. (Cl. 116-115)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

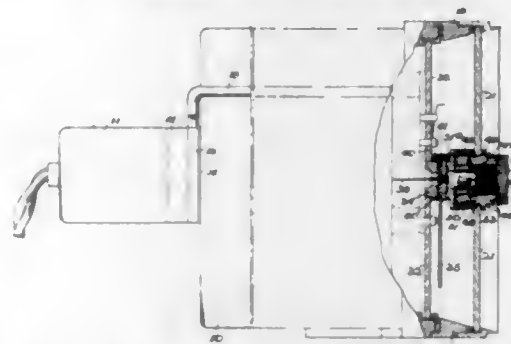


1. A stop for use with a machine tool comprising a base portion having an arcuate slot cut therein for adjustably positioning said stop, an arm pivotally secured to said base portion and movable about its pivot point in a plane perpendicular to a plane parallel to the radius of said arcuate slot, and resilient means secured to said base portion and cooperating with said base portion and said arm for biasing said arm away from said base portion.

2,715,886

**INTEGRAL LIGHTING FOR AIRCRAFT INSTRUMENTS**

Thomas A. Smith, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware  
Application December 16, 1952, Serial No. 326,185  
2 Claims. (Cl. 116-129)



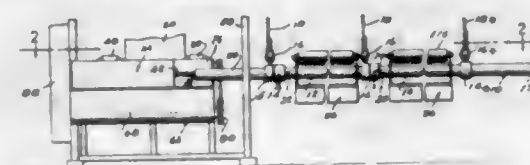
1. Means for illuminating the indicia encircling an instrument dial and an indicating pointer movable over the dial in response to ambient conditions comprising a mechanism containing hermetically sealed casing, said dial being centrally apertured and mounted in the casing, a pointer spindle actuated by the casing mechanism projecting through the dial aperture, a pointer wheel with a rim secured to the end of the spindle, a pointer radially projecting from the wheel formed of light rays transmitting material extending at its tip over the said

dial indicia, a prism formed in the pointer near the center of the wheel, a light supporting conducting plate having a light bulb and socket centrally mounted therein, said socket extending into the center of the pointer wheel, whereby the rays of light from the said bulb project from the said prism along the pointer to its tip, to thereby illuminate the dial indicia, and means encircling the said pointer spindle mounted in the dial aperture adapted to mask the light rays projected from the said prism, to thereby confine the rays to the light transmitting dial and pointer.

2,715,887

**AUTOMATIC CHAIN TYPE POULTRY FEEDER**

Lee I. Flannery and Albert T. Paulson, Centerville, S. Dak.  
Application October 9, 1950, Serial No. 189,247  
2 Claims. (Cl. 119-52)

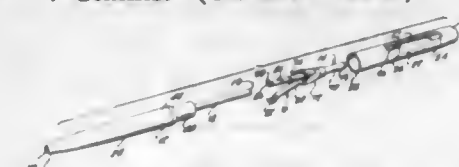


1. In a poultry feeder, a horizontally disposed conduit having a plurality of equidistantly spaced, downwardly directed, discharge outlets, said conduit having an upwardly directed slotted inlet opening adjacent one of its ends, a conveyor movable through said conduit to distribute feed entering said inlet opening to said discharge outlets, power means for driving said conveyor, a feed trough positioned beneath said discharge outlets, means at each end of the trough for detachably suspending the trough from said conduit free from ground contact, a feed supply hopper positioned above said inlet opening, and a spout depending from the lower end of said hopper for directing feed into the conduit through said inlet opening.

2,715,888

**CONTROL MECHANISM FOR WRITING IMPLEMENT**

Alfred T. Liguori, Bronx, N. Y., assignor to Delva Plastics, Inc., New York, N. Y., a corporation of New York  
Application September 22, 1953, Serial No. 381,538  
7 Claims. (Cl. 120-42.03)



5. In a writing implement including an elongated barrel having a front and rear opening and an elongated writing element disposed therein and movable between an advanced and a retracted position and spring urged to its retracted position said barrel having an aperture formed in its wall, a plunger element projecting through said rear opening and having a transverse slit formed therein and a locking member including a pair of resilient forwardly directed legs joined at their rear by a crotch portion registering with said slit, one of said legs extending forwardly of the front end of said plunger and having an outwardly directed detent portion adapted to engage said aperture.

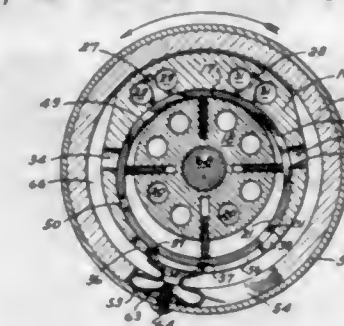
2,715,889

**REVERSING PNEUMATIC MOTOR**

James Sturrock, Orwell, Ohio, assignor to Master Pneumatic Tool Company  
Application November 5, 1952, Serial No. 318,781  
9 Claims. (Cl. 121-34)

1. A reversible fluid actuated motor comprising a cylindrical motor housing formed with an axial bore, a stator positioned in said housing bore formed with a bore having an axis parallel to and spaced from the axis of

said housing bore, tubular valve sleeve means positioned in said stator bore rotatable from a first position to a second position, a rotor mounted for rotation in said sleeve means, an annular reversing collar rotatably

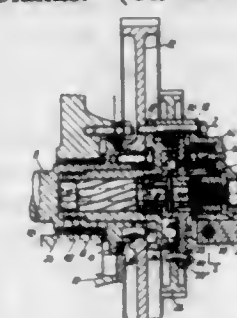


mounted on and surrounding said housing co-axial therewith, and radially resilient drive means extending between said sleeve means and said reversing collar rotating said sleeve means when said reversing collar is rotated.

2,715,890

**CENTRIFUGAL GOVERNOR, ESPECIALLY FOR THE REGULATION OF THE INSTANT OF INJECTION IN COMBUSTION ENGINES**

Otto Schilling, Stuttgart-Unterturkheim, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany  
Application April 22, 1952, Serial No. 283,633  
Claims priority, application Germany, April 23, 1951  
7 Claims. (Cl. 121-42)



1. A centrifugal governor comprising a rotary driving member, a hub-shaped part flanged to the latter, a ring piston part connected with this part, a carrier member with means, through which the same is connected with the driving member and the mentioned hub-shaped part, fly weights, which are supported at the carrier member, a slide-valve member, adapted to be axially adjusted by the fly weights, a sleeve member, which is arranged concentrically to the slide valve member, with a cylinder part, which is concentric to the mentioned ring piston part, a cylinder bottom, which connects the cylinder part with the other sleeve member, and a journal-shaped part concentrically to the mentioned hub-shaped part, whereby the sleeve member is adjustable both relatively to the hub-shaped part and relatively to the slide-valve member, means at the hub-shaped part and at the sleeve-shaped part, adapted to twist the latter relatively to the first one, when the hub-shaped part is axially displaced, elastic means, which support the slide valve member against the effect of the fly weights, means for supply of a pressure means to the interior of the mentioned cylinder part, control means at the slide member and at the sleeve-shaped part, adapted to control the pressure means in such a manner that at axial displacement of the slide member also the mentioned hub-shaped part is axially displaced, openings in the mentioned cylinder bottom, spring means, which act against the motion of the sleeve-shaped part under the effect of the pressure means, and abutting members between these elastic means and the cylinder bottom, which close the mentioned openings under the spring pressure of the spring means, in such a manner that at a certain pressure of the pressure means the mentioned abutting members release the openings.



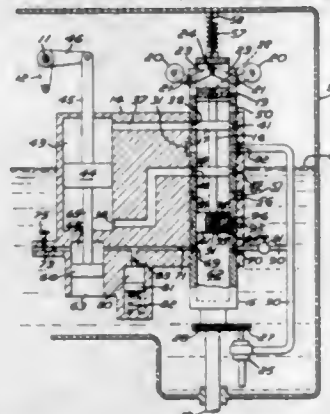
2,715,891

**HYDRAULIC GOVERNOR COMPENSATING SYSTEM**

Armin H. Rodeck and Albert G. Massey, Watertown, N. Y., assignors to Massey Machine Company, Watertown, N. Y.

Original application September 10, 1948, Serial No. 48,733, now Patent No. 2,623,504, dated December 30, 1952. Divided and this application October 27, 1952, Serial No. 317,062

6 Claims. (Cl. 121-42)



1. A hydraulic governor comprising a hydraulic pressure operated regulator member, a source of operating fluid pressure therefor, a pilot valve movable in opposite direction to connect said fluid pressure source to move said regulator member in opposite directions, a fluid pressure chamber and a piston movable directly with said pilot valve for compressing and expanding said chamber upon movement of the pilot valve in opposite directions, a compensating chamber and a piston movable directly with said regulator member for compressing and expanding said compensating chamber upon movement of the regulating member in opposite directions, said two chambers being in continuous fluid communication, and an adjustable leakage orifice leading from the fluid system including said two chambers to a source of fluid under substantially no pressure, said two pistons being arranged to jointly compress their chambers upon movement of the pilot valve in one direction and to jointly expand their chambers upon movement of the pilot valve in the opposite direction.

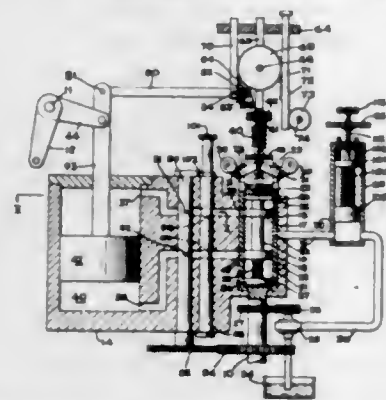
2,715,892

**HYDRAULIC GOVERNOR REGULATING MEANS**

Armin H. Rodeck and Albert G. Massey, Watertown, N. Y., assignors to Massey Machine Company, Watertown, N. Y.

Original application August 25, 1948, Serial No. 46,098. Divided and this application November 30, 1953, Serial No. 403,581

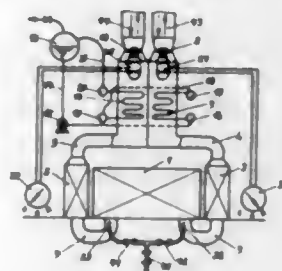
7 Claims. (Cl. 121-42)



1. A governor mechanism comprising a pressure chamber and a regulator movable therein in response to differential pressure, a fluid passage communicating with the pressure chamber, a rotary member and a bearing support therefor, a pilot valve movable axially in said support in response to changes in speed in the rotary member, an opening in said rotary member and means on said pilot valve normally blocking said open-

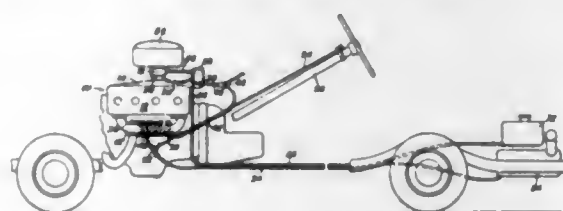
ing, speed responsive means actuable by said rotary member for controlling axial movements of said pilot valve, said fluid passage leading to said rotary member in axial registry with said opening whereby upon displacement of the pilot valve said opening is exposed to said passage intermittently as said opening passes the fluid passage during rotation of the rotary member, a rotary valve across said passage to close and open said passage intermittently, and means connecting the rotary member and the rotary valve for timed rotation at unequal speeds, whereby the frequency of simultaneous open condition of the passage at the rotary member and at the rotary valve is a submultiple of the rotative speeds of the rotary member and the rotary valve.

2,715,893

**REGENERATOR FIRING PLANT**Rudolf Hingst, Kassel-Wilhelmshöhe, Germany  
Application September 10, 1952, Serial No. 308,884  
Claims priority, application Germany September 20, 1951  
1 Claim. (Cl. 122-1)

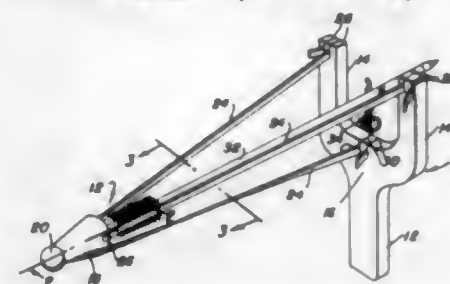
A regenerator firing plant comprising two separate burner chambers adapted to be operated alternatively, separate regenerators connected to each burner chamber, respectively, separate ducts for each regenerator for either supplying combustion air or exhausting gases, a reversible blower in each duct, one of the blowers acting as an exhaust blower for withdrawing the combustion products while the other blower simultaneously acts as a means for conducting air for combustion to the burner, heating coils in each duct between the blower and the regenerator, and means interconnecting said heating coils for circulating fluid from one heating coil through the other heating coil, whereby the fluid heated by exhaust gases in one heating coil is circulated to heat the other heating coil and the combustion air passing thereby.

2,715,894

**STEAM FEED FOR INTERNAL COMBUSTION ENGINES**Homer H. Shirrell, Santa Rosa, Calif.  
Application September 7, 1954, Serial No. 454,254  
4 Claims. (Cl. 123-25)

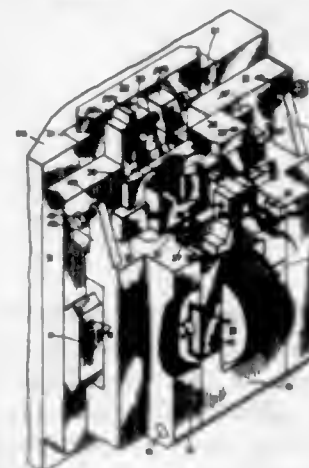
1. A vapor feeding system for use in conjunction with an internal combustion engine which includes a carburetor and intake manifold for conducting the fuel from the carburetor to the cylinders comprising, in combination: a liquid reservoir, a vapor generating unit, conduit means for conducting the liquid from the reservoir to the vapor generator, a pump having its inlet connected to the vapor generator, and conduit means for conducting the vapor from the exhaust side of the pump to the intake manifold.

2,715,895

**SLINGSHOT**William T. Loveless, Los Angeles, Calif.  
Application June 2, 1952, Serial No. 291,170  
2 Claims. (Cl. 124-20)

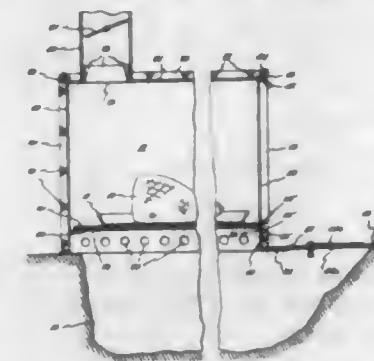
1. A slingshot comprising a forked handle having secured thereto propelling means for an arrow, an arrow guide carried by said forked handle, said arrow guide being movable to a position out of alignment with said propelling means, said arrow guide being in the form of a doubled length of wire and having a forked shape, said arrow guide including a stem portion, said stem portion being provided with resilient loops for increasing the resiliency of the same whereby portions of an arrow engaging said arrow guide will temporarily displace said arrow guide to limit damage to the arrow.

2,715,896

**MEANS FOR FEEDING A TOOL**Walter Darby, Coventry, England, assignor of one-half to Stuart Davis Limited, Coventry, England  
Application March 9, 1954, Serial No. 415,022  
Claims priority, application Great Britain March 24, 1953  
7 Claims. (Cl. 125-11)

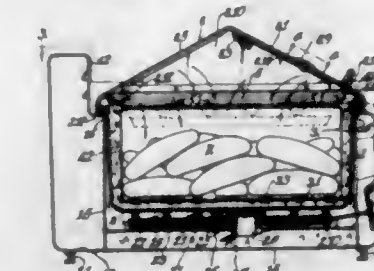
1. Means for feeding a crushing roller which is to be traversed in one direction across a grinding wheel, to be treated, in operative contact therewith and to be returned clear of the grinding wheel in readiness for a repetition of the cycle, including a reciprocable carrier for said roller, a first cam member, stationary guide means supporting said first cam member for sliding in the direction of the operative and return traverse movements of said carrier, means on said carrier for engaging and sliding said first cam member after the commencement of both said movements, a lever pivotally supported adjacent one end from said carrier, said roller journaled from said lever in a position intermediate the ends of the latter, a follower operatively connected to the other end of said lever, a second cam member interposed between said follower and said first cam a stationary part, a pivot on said stationary part and engaging said second cam member for pivotally supporting the latter, said first cam member having a surface which, when said first cam member is in one extreme position, holds said second cam member to be in the path of said follower, whereby the latter can feed said roller into working contact with said grinding wheel during the operative traverse, and said first cam member having a second cam surface which, when said first cam member is in its opposite extreme

2,715,897

**OVEN FOR PIT BARBECUE**Clarence D. Newland, Coulee Dam, and  
Elmo L. Cranford, Spokane, Wash.  
Application October 25, 1952, Serial No. 316,924  
4 Claims. (Cl. 126-29)

1. An oven for pit barbecue of foods comprising an open bottom sheet metal shell having a top wall provided with a smoke outlet and having a rear end wall and side walls secured to the top wall, a front lower bar connected to the lower front ends of said side walls, and a front door hinged along its lower edge to said bar, a reticulated food supporting rack in the shell, said shell having the lower portion of its side walls extended inwardly, then upwardly and outwardly to provide inwardly and upwardly extended ledges spaced inwardly from the side walls supporting the food rack, and supporting channels interlocked with said ledges and having bottom flanges projecting outwardly beneath and beyond the side walls for supporting the shell over a pit.

2,715,898

**FOOD WARMING AND CONDITIONING DEVICE**Harold A. Michaelis, Elmhurst, and Herbert F. Swanson, Chicago, Ill., assignors to General Electric Company, a corporation of New York  
Application September 27, 1951, Serial No. 248,543  
5 Claims. (Cl. 126-273)

1. Apparatus for heating foods in an atmosphere having a humidity governed primarily by the release of moisture from said foods, comprising, in combination, an open-topped vessel having relatively heavy bottom and side walls of material having good heat conductivity, means for directly heating the bottom of said vessel to a desired degree and the side walls thereof by conduction from said bottom, an open-topped food container disposed within said vessel in spaced relation to said vessel walls to provide side and bottom air flow passages, said container having apertures in its lower portion communicating with said bottom air flow passage and being otherwise imperforate, means within said container for preventing foods placed haphazardly within said container from blocking any substantial portion of said apertures, a thin-walled, gabled, canopy of good heat transfer material having wall means disposed in relatively close telescoping relation about the upper rim portion of said ves-



sel, portions of the upwardly sloping walls of said canopy being disposed above certain of the side wall air flow passages to divert air flowing upwardly therein over the rim of the container into heat transfer relationship with the upper layer of food, whereby the air upon loss of heat flows downwardly about the lower layers of food and finally through said apertures for reheat and recirculation upwardly within said side passages, and rigid members affixed to the underside of said canopy and extending into securement with the outside of side walls of said container below the upper edge thereof to dispose the container in fixed position relative to said vessel, said members having openings disposed at least in part below the upper edge of said container whereby condensate traveling along said members will be caused to drip along the outside of said container.

#### 2,715,899 CURETTE

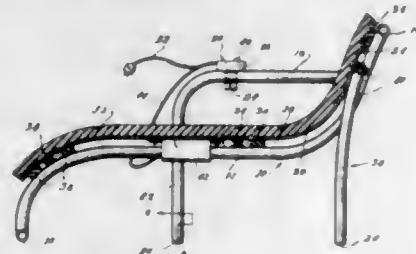
Kenneth Sheldon MacLean, New York, N. Y.  
Application November 21, 1952, Serial No. 321,815  
8 Claims. (Cl. 128—2)



1. A curette including in combination a collecting portion, a hollow shank attached to said collecting portion, a removable handle at the opposite end of said shank from said collecting portion, a discharge opening from said hollow shank adjacent said handle, a valve inserted in said discharge opening and an air vent closable by said valve.

#### 2,715,900 MASSAGING ACTION VIBRATING CHAIR

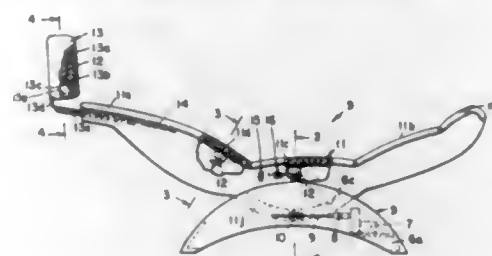
Arthur Posner, Brooklyn, N. Y.  
Application March 29, 1954, Serial No. 419,550  
10 Claims. (Cl. 128—33)



9. A vibrating chair comprising a main frame, a seat frame overlying the frame, resilient means connected between the main and seat frames, a vibrator mechanism secured to the seat frame, and control means for actuating said vibrator mechanism, the main frame being formed with a generally horizontal intermediate portion, an upwardly extended back portion, and a downwardly extended front end portion, the seat frame being shaped so as to generally parallel the main frame in closely spaced relation thereto, the main frame being formed as an endless open framework generally rectangular when viewed in plan, the seat frame being coextensive in width with the main frame and being so proportioned as to length as to cover the intermediate and back portions of the main frame, said seat frame including a metal plate and a resilient cushion overlying and secured to said plate, said resilient means comprising a plurality of groups, each of which includes a spring and a pair of resilient cushions at opposite sides of the spring, each spring being secured fixedly at its opposite ends to the main frame and to said plate of the seat frame respectively, said groups being extended along opposite sides of the chair.

#### 2,715,901 VIBRATING CONTOUR CHAIR

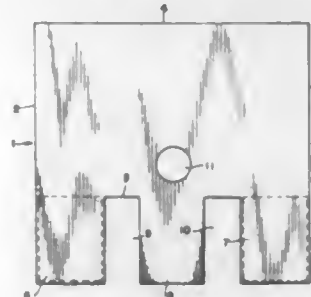
Oliver P. Blake, Pacific Palisades, Calif.  
Application August 2, 1954, Serial No. 447,249  
3 Claims. (Cl. 128—33)



1. A vibrating contour chair, for a person to recline thereon and receive resting and relaxing waves of vibration, comprising of a base with an arcuate groove to engage an arcuate tongue on the frame of a cot that has covering over padding on a gird type spring and head, back, rump, thigh, shank and feet support, with vibrating assembly on the gird type spring for the rump and thigh; and a vibrating foot assembly on a gird type spring adjustable to the feet.

#### 2,715,902 OBSTETRICAL DRAPE

Susan D. Shaffer and Carvel O. Shaffer,  
Benton Harbor, Mich.  
Application August 19, 1953, Serial No. 375,193  
7 Claims. (Cl. 128—132)



1. An obstetrical drape of the character described comprising, a sheet having a substantially centrally disposed opening therein, spaced apart end flaps at opposite sides of said sheet and integral therewith and adapted to cover the legs of the person over whom the sheet is draped, and an intermediate flap also integral with said sheet and extending outwardly from an edge thereof in spaced relation to said end flaps.

#### 2,715,903 TUBULAR BANDAGE APPLICATOR

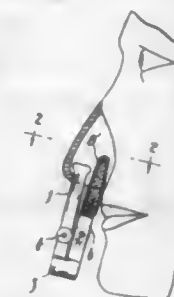
William H. Scholl, London, England, assignor to The Scholl Mfg. Co., Inc., New York, N. Y., a corporation of New York  
Application February 24, 1954, Serial No. 412,333  
4 Claims. (Cl. 128—157)



1. In a tubular bandage applicator of the character described, annular rings connected together by longitudinal members to form a partially open cylinder, a cutting slot in one of said annular rings where bandage retained on said cylinder may be partially removed from said cylinder and severed by means of a sharp instrument inserted into said cutting slot.

#### 2,715,904 NOSE ATTACHMENT CONTAINER FOR HEAD COLD MEDICAMENT

Albert G. Hill, London, Ontario, Canada  
Application April 8, 1954, Serial No. 421,823  
6 Claims. (Cl. 128—198)



1. An attachable inhaler device comprising a vise having a pair of nose-gripping jaws, a springy loop joining said jaws together at an end and urging said jaws toward an open attitude, a screw fastened to one of said jaws at a point removed from said springy loop and projecting through an opening in the other jaw, a nut on said screw for engaging said other jaw for urging said jaws toward a closed attitude, an inhaler tube, and supporting means extending from said vise and mounting said tube in captive relation to said vise and in operative attitude with respect to a nasal aperture.

#### 2,715,905 INTRAVENOUS INJECTION SET

Robert W. Ogle, Malibu, Calif.  
Application November 16, 1953, Serial No. 392,276  
2 Claims. (Cl. 128—214)



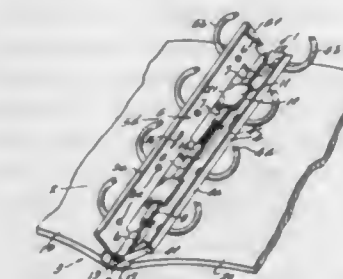
1. In an intravenous set of the type including a cannula for insertion into a supply bottle cork, a transparent drip meter attached to and in communication with said cannula, a tube attached to said drip meter, a flow meter carried by said tube and an injection needle affixed to the end of said tube; the improvement comprising a dished head on said drip meter and a cylindrical boss extending inwardly from said dished head to facilitate formation and counting of drops formed thereon; the other end of said drip meter being provided with an outwardly extending annular flange and a resilient plastic funnel seated on said other end of said drip meter and having a cylindrical wall provided with an internal annular groove adapted to receive said annular flange under tension when said funnel is assembled on said drip meter.

#### 2,715,906 LOOSE LEAF RING BINDER

Gene A. Lucchesi, Arlington, Va.  
Application February 11, 1953, Serial No. 336,460  
6 Claims. (Cl. 129—24)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. In a loose leaf binder device, a sheet metal binder comprising a pair of elongated flat plates hinged together at one side at their longitudinal edge, comprising a first plate having aligned pintle receiving hinge members at its opposite ends and an intermediate pintle member located substantially mid way between the aforesaid two hinge

members to leave two elongated hinge member receiving notches, one between each of the end hinge members and the intermediate hinge member, and a second plate substantially the same length as the said first plates and formed with longitudinally spaced hinge members, having aligned pintle receiving openings, disposed to be received in the aforesaid notches in the said first plate, the last mentioned hinged members being longitudinally spaced from the ends of the said second plate a distance greater than the length of the end hinge members on said first plate to provide longitudinal displacement between the plates, a pintle extending through the pintle receiving openings, a coil spring surrounding the pintle and interposed between the central hinge member on said first plate



and the side of a hinge member of the second plate, for yieldably urging said plates longitudinally relative to each other to move the first plate hinge members into movement limiting engagement with the hinge members of the second plate, the ends of said plates each being rebent on themselves at opposite ends to form an intumed locking shoulder thereon for locking engagement of the outer face of the other plate, releasable to free the ends of the plates from each other when the first plate is moved longitudinally relative to the second plate against the force of the coil spring means, complementary loose leaf binder fingers fixed on the outer sides of said plates with their free ends arcuately curved into interengaging relation when the plates are in interlocked relation.

#### 2,715,907 HAIR CURLING SHIELD AND APPLICATOR

Harry L. Boynton, Burbank, Calif.  
Application April 6, 1953, Serial No. 346,837  
1 Claim. (Cl. 132—41)



A hair curling shield and applicator comprising a first and second jaw mounted for movement towards and away from each other, an arcuate shoe secured to said first jaw, an arcuate plate secured to said second jaw, a roller slidably and rotatably mounted on said plate, a pair of arms having portions arranged in criss-crossed relation with respect to each other and extending from said jaws, a coil interconnecting said arms together and defining a handle, a shield having a plurality of spaced parallel slots in one end thereof and said shield being provided with a plurality of perforations in the body thereof, said shield being flexible, a securing element arranged in engagement with said shield when the shield is in rolled position, and said roller extending through said slots, said shoe including a base provided with a groove for receiving said first jaw, the base of the shoe being provided with wings positioned to overlap said roller.

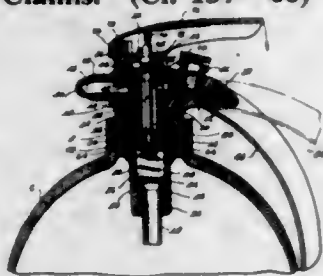
#### ERRATUM

For Class 134—102 sec:  
Patent No. 2,716,238



2,715,908

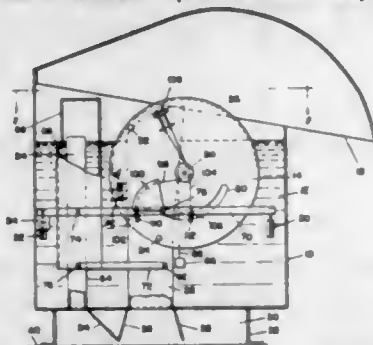
**FIRE EXTINGUISHER DISCHARGE VALVE**  
Charles K. Huthsing, Los Angeles, and John W. Howard, Temple City, Calif.; said Howard assignor to said Huthsing  
Application August 19, 1950, Serial No. 180,353  
4 Claims. (Cl. 137-68)



1. A discharge head for a high pressure fluid container, including: a body having a threaded portion adapted to be threadedly connected to a container, said body having a bore therethrough the inner end of which is adapted to communicate with the interior of a container, said body having a discharge port extending outwardly from said bore to the exterior of said body above said threaded portion, and said body having a laterally-projecting lug portion with a recess on its upper surface; a valve assembly within said bore having a valve element located inwardly from the outer end of said threaded portion and below said discharge port; a valve operating handle pivoted to the upper portion of said body above and in alignment with said lug portion; a lift handle positioned beneath and in alignment with said valve operating handle and connected to said lug portion; and a pressure relief means positioned in said recess in said lug portion and between said handles, said body and lug portion having a slanting open-ended passageway extending therethrough and leading from the wall defining the bottom of said recess to said bore inwardly of said valve assembly.

2,715,909

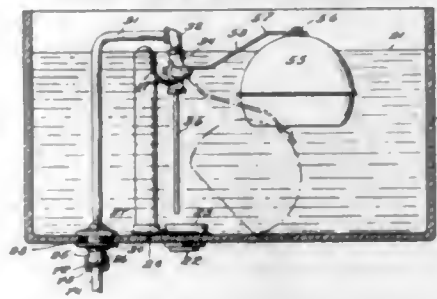
**STORAGE TANK VENT VALVE**  
Wallace M. Patterson, Penn Wynne, Pa., assignor to Sellers Injector Corporation, Philadelphia, Pa., a corporation of Pennsylvania  
Application December 4, 1951, Serial No. 259,769  
12 Claims. (Cl. 137-248)



1. A breathing device for a liquid storage tank comprising in combination, a vented housing adapted to retain a liquid at a normal operating level therein, a semi-cylindrical valve member pivotally mounted in said housing in operating contact with the liquid, a relief conduit extending through the housing and the liquid and opening into the valve member above the liquid level, an inverted cup actuator in said housing in sealing engagement with the liquid and spaced from the valve member, a pressure transmitting pipe extending through the housing and the liquid and opening into the inverted actuator cup above the liquid level, lever means pivotally suspending the inverted cup actuator in said housing in operating position with the valve member, weight means arranged to cooperate with said levers, connecting means linking the lever means to the valve member to oscillate said member in response to the movement of the actuator, and means to restrain the oscillatory movement of said valve member until the excess pressure exceeds a predetermined value.

2,715,910

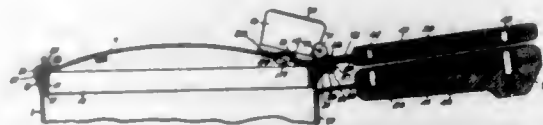
**FLOAT CONTROL VALVE**  
Samuel M. Kass, Philadelphia, Pa.  
Application March 25, 1950, Serial No. 151,890  
2 Claims. (Cl. 137-447)



1. A flush tank inlet valve comprising a rotary valve body having inlet and outlet ports, and having a tapering valve receiving rotary surface, a tapering rotary valve within the body engaging the tapering surface, a float, a float arm extending transversely to the axis of the valve and interconnecting the float and the valve, a screw take-up on the small tapered end of the valve adapted to exert pressure against the body and limit motion of the valve out of the tapered surface and a spring acting from the body against the valve in the axial direction tending to urge the valve out of the tapering surface as far as permitted by the screw take-up.

2,715,911

**PRESSURE CONTAINERS HAVING RELIEF VALVES WITH AUTOMATICALLY ALIGNING SEATS**  
William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland  
Original application September 6, 1946, Serial No. 695,128, now Patent No. 2,614,725, dated October 21, 1952. Divided and this application July 26, 1952, Serial No. 301,081  
2 Claims. (Cl. 137-527.8)

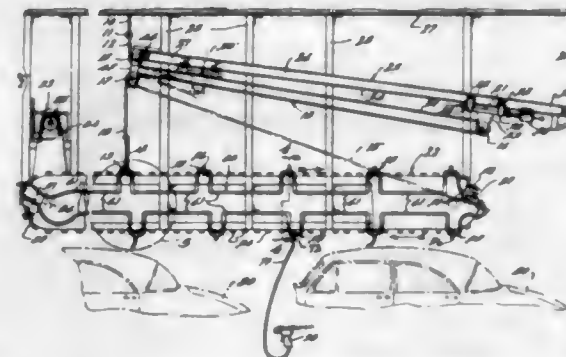


1. A pressure container comprising a wall having an opening with seating surfaces surrounding said opening at the upper and lower sides respectively of said wall, a movable weighted pressure relief valve having an exterior conically tapered seating surface, a valve seat member mounted in said opening for lateral movement relative to said wall, which member is formed with a container vent opening that receives and seats said valve, said member having a portion loosely extending through said opening of said wall, upper and lower laterally extending flanges carried by said portion adapted respectively to seat on said seating surfaces of said wall, the upper flange on its side adjacent said wall being dished to contact with the adjacent seating surface on said wall only adjacent the periphery of that flange when the valve is out of contact with the valve seat member and the lower flange is not subjected to fluid pressure whereby to facilitate lateral sliding of said member relative to

said wall when said valve is being initially seated on said member thus to secure accurate seating of said valve, said upper flange also being of elastic material for flexing and increasing its area of contact with said adjacent seating surface of said wall when the weight of the valve is initially applied to the valve seat member whereby to seal the joint between said member and wall to permit pressure to build up in the container.

2,715,912

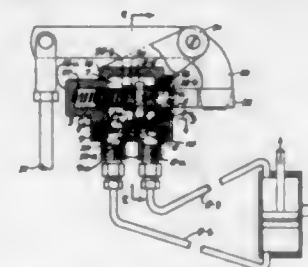
**MOVING AIR SUPPLY SYSTEM**  
Martin E. Cameron, Dearborn, and Walter Bratus, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware  
Application December 8, 1952, Serial No. 324,782  
12 Claims. (Cl. 137-599)



1. An air supply system comprising an air supply head, a flexible air supply conduit connected to said head, an endless carrier having drive means for causing carrier movement along a closed circuit where air is to be supplied, an endless air outlet conduit having a connection to said air supply conduit and mounted on said carrier for movement around said predetermined circuit, and means associated with said flexible air supply conduit adapted to automatically vary the effective length of the flexible air supply conduit as its connection to the air outlet conduit moves around the predetermined circuit.

2,715,913

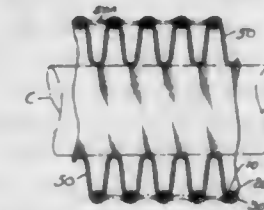
**CONTROL VALVE**  
John L. Taylor, La Habra Heights, Calif.  
Application June 30, 1945, Serial No. 602,593  
3 Claims. (Cl. 137-622)



1. In a valve: means forming a valve body adapted to be supplied with fluid under pressure and having a valve seat with ports opening therethrough into the body; an operating rod spaced from said seat and supported for axial movement in a direction substantially parallel with said seat; a control member for cooperating with said seat, said control member including a stem extending normally of said seat, as well as a valve member having provisions for sealing against said seat, for controlling the ports; said rod providing a guide for said stem; said stem being slidable in said guide in a direction substantially normal to said seat, whereby the pressure of said body urges the valve member to seat, movement of said rod moving said control member transversely of said ports; and spring means between said rod and said control member urging said valve member toward said seat.

2,715,914

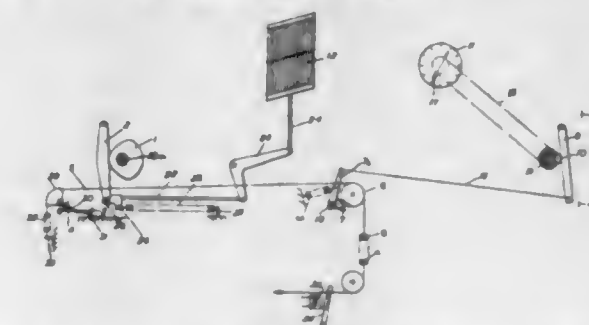
**FLEXIBLE TUBE**  
Robert E. Roberts, Ridgefield, Conn.  
Original application March 18, 1946, Serial No. 655,268, now Patent No. 2,560,369. Divided and this application June 30, 1951, Serial No. 234,599  
2 Claims. (Cl. 138-56)



1. In a spirally corrugated reinforced tube having an impervious tubular wall comprising a thin single layer of vulcanizable rubber-like material, a tube reinforcing member comprising a helically coiled metallic wire spring, each of the coils of said spring being individually encased throughout its extent with a protective coating of vulcanizable rubber-like material of a substantially uniform thickness, said member extending lengthwise of the tube and having its coating in contact with and vulcanized to the wall of the tube, with its coils spaced one from the other axially of the tube whereby said coating retains the spring in position on the tube wall and protects the spring from corrosion and increases the wall thickness at the region of contact between the reinforcing member and tube wall without increasing the thickness of the tube wall intermediate the coils of the reinforcement.

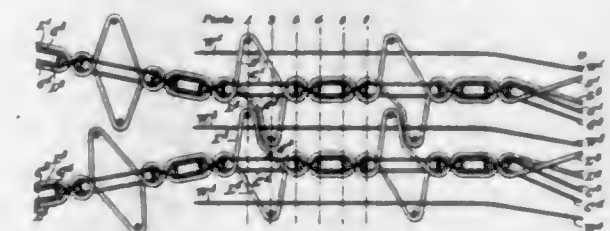
2,715,915

**CIRCULAR LOOMS**  
Jean Catry, Filxecourt, France, and Robert Norrie Low, Dundee, Scotland, assignors to Fairwest (U. K.) Limited, London, England, a British company  
Application June 20, 1952, Serial No. 294,532  
Claims priority, application Great Britain June 29, 1951  
6 Claims. (Cl. 139-13)



1. In a circular loom having oppositely reciprocable healds for forming the shed in warps for the passage of a rotary shuttle therethrough, a latch to retain each heald in an extreme position, a rotary member controlling release of said latch, said rotary member having a ratch thereon, a trigger-like lever engageable with said ratch to prevent rotation of said rotary member, and an adjustable cam controlling movement of said trigger-like lever.

2,715,916  
**METHODS OF WEAVING FRIEZE FABRICS**  
Nils O. G. Nelson, Clinton, Mass.  
Application February 9, 1953, Serial No. 335,915  
4 Claims. (Cl. 139-20)



1. The method of simultaneously weaving two double faced frieze looped fabrics comprising the weaving of two



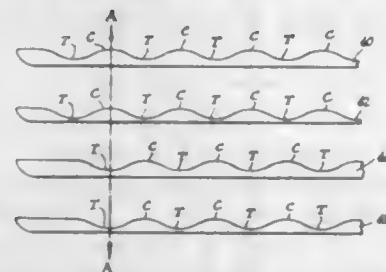
separate ground cloths in a double shuttle loom, having three sheets of loop forming wires extending longitudinally into the fell of the cloth, one of said sheets of wires being disposed above the upper ground cloth, another sheet being disposed between the two ground cloths, and the remaining sheet being disposed below the lower ground cloth, at regular intervals inserting above the upper sheet of wires a sustaining weft for forming frieze loops on the upper face of the upper fabric and simultaneously inserting above the intermediate sheet of wires a corresponding sustaining weft for forming frieze loops on the upper face of the lower fabric, and at a subsequent pick inserting below the middle sheet of wires a sustaining weft for forming frieze loops on the lower face of the upper fabric and simultaneously inserting below the lower sheet of wires a sustaining weft for forming frieze loops on the lower face of the lower fabric, interweaving frieze loops over the sustaining wefts, and feeding the fabric beyond the ends of the wires to thus permit separation of the upper from the lower fabric.

2,715,917

**METHOD OF WEAVING A PILE FABRIC**

Harry J. Smiley, Glasgow, Va., assignor to James Lees & Sons Company, Bridgeport, Pa., a corporation of Pennsylvania

Application June 14, 1951, Serial No. 231,455  
4 Claims. (Cl. 139—39)



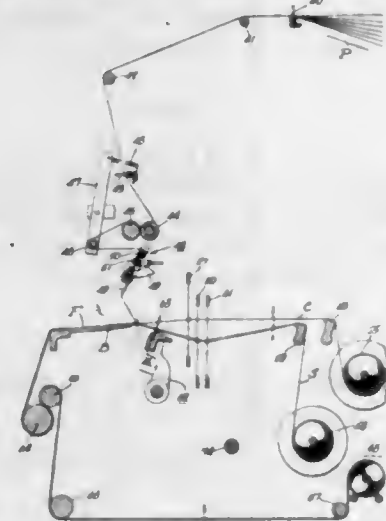
1. A method of weaving pile carpet fabric in a wire loom employing a series of wires at least two of which have symmetrical undulating sinusoidal upper edges provided with crests and troughs thereon, said crests and troughs being out of phase on the two wires, which consists of the steps of arranging the two wires in adjacent relationship in the series, raising pile warps having given physical characteristics over only one of said two wires and raising other pile warps having contrasting physical characteristics over only the other of said two wires.

2,715,918

**MODIFIED AXMINSTER LOOM AND METHOD**

Arthur J. Eisler, Lexington, and Melvin F. Moxley, Glasgow, Va., assignors to James Lees and Sons Company, Bridgeport, Pa., a corporation of Pennsylvania

Application February 20, 1952, Serial No. 272,578



1. In an Axminster carpet loom having a frame, a camshaft, a knife arm shaft, at least one knife arm

keyed to said arm shaft and timing connections between the arm and camshaft, the improvement that comprises a pair of frame slides positioned for horizontal movement in the loom frame, at least one tie rod connecting the frame slides to the knife arm shaft, a bracket journaled between said frame slides, a pair of clutch arms on said bracket, a tuft tube frame assembly journaled in said clutch arms, a cam controlled connection attached to said clutch arms for dipping the tuft tube frame assembly into the ground shed of a fabric being woven, and means for tilting the tuft tube frame assembly in the clutch arms as said assembly is dipped.

2,715,919

**METHODS OF WEAVING FRIEZE FABRICS**

Nils O. G. Nelson, Clinton, Mass.

Application April 15, 1953, Serial No. 348,878  
7 Claims. (Cl. 139—116.6)



1. The method of weaving frieze fabrics comprising the weaving of a ground cloth, interweaving therewith a plurality of loop forming warp ends, the provision with each set of warp ends of a pair of relatively thin flexible wires each of which is shedded alternately with respect to the other and each extending longitudinally above the ground cloth and into the fell of the cloth a sufficient distance to impart substantial tension to said wires, inserting loop sustaining wefts at desired intervals each having portions alternately disposed over and under the wires, and carrying the loop forming warp ends over the sustaining wefts thereby to form frieze loops of a size appreciably greater than the size of the loop forming wires.

2,715,920

**ELECTRICALLY OPERATED STOP MOTION MEANS FOR LOOMS FOR WEAVING TUFTED PILE FABRICS**

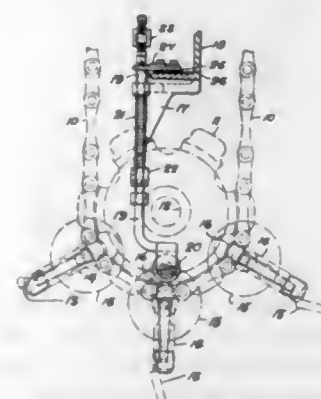
Edward S. Butler, Chadderton, Oldham, and Arthur Sutcliffe, Werneth, Oldham, England, assignors to Platt Brothers and Company Limited, Oldham, England

Application March 17, 1950, Serial No. 150,272

Claims priority, application Great Britain

March 17, 1949

4 Claims. (Cl. 139—336)



1. In a spool Axminster loom of the type in which tube frames for holding spools of tuft yarns are alternately engaged with and disengaged from carrying chains for conveying the tube frames to and from the places at which they are to be used for the supply of tuft yarn for insertion between warp threads, including a motor, a driving clutch, a spool pivot spring, tube frame end brackets, a starting handle and a brake, electric stop motion means including a low voltage electrical circuit and a vertical rod, a bearing bracket secured to the loom frame above each tube frame end bracket in which said rod is slidably mounted, a roller revolvably mounted at the extremity

of said rod and adapted to bear against the adjacent spool pivot spring, a compression spring surrounding said rod, an adjustable collar on said rod between which and the upper part of the aforementioned bearing bracket the said compression spring is compressed, a bracket secured to said rod adjacent to its upper extremity, a screw screwing into said last mentioned bracket to form an adjustable contact terminal in communication with the low-voltage electrical circuit of the electric stop motion means through the medium of the loom frame, a plate located below said screw and secured to but insulated from the loom frame and forming a second contact terminal in said low-voltage electrical circuit, said contact terminals forming a primary switch in said circuit, and a sequence switch, whereby the removal of a tube frame from the carrier chains causes the said vertical rod to lose its abutment on the spool pivot spring and to fall thereby bridging the two contact terminals to complete the low-voltage circuit in conjunction with the said sequence switch which is only operable at the requisite time.

2,715,921

**PILE FABRIC**

Harry J. Smiley, Glasgow, Va., assignor to James Lees and Sons Company, Bridgeport, Pa., a corporation of Pennsylvania

Original application June 14, 1951, Serial No. 231,455.  
Divided and this application May 26, 1952, Serial No. 290,034

4 Claims. (Cl. 139—403)



1. In a velvet fabric pile carpet comprising a series of wefts in one horizontal plane, at least two pile warps having different physical characteristics, the first of said pile warps projecting above the series of wefts and being tied under alternate wefts in said series, and the second of said pile warps projecting above the series of wefts and being tied under the intermediate wefts in said series, each projecting portion of the first pile warp being disposed at least as high as the rearwardly adjacent projecting portion of the second pile warp, and selected projecting portions of the first pile warp being disposed higher than the forwardly adjacent projecting portions of both said first and second pile warps, whereby the characteristics of said first pile warp predominate when the carpet is viewed in a direction rearwardly of the fabric, and other projecting portions of the first pile warp being disposed lower than the forwardly adjacent projecting portions of both said first and second pile warps whereby the characteristics of said second pile warp appear when the carpet is viewed in a direction forwardly of the fabric.

2,715,922

**METHOD AND APPARATUS FOR FORMING CABLES**

Herman A. Milloche, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 17, 1949, Serial No. 127,807

16 Claims. (Cl. 140—71)



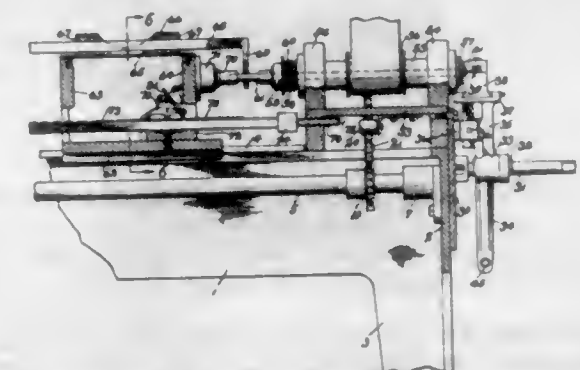
4. The method of forming local cable which comprises sweeping strands of the cable a plurality of times over the same substantially plane path parallel with the surface of a strand receiver in a single direction of rota-

tion, snagging said strands at selected locations in a series of pairs of aligned locations on said strand receiver to form a series of substantially rectangular loops all having one side in a substantially straight line, moving each snagged strand out of the path of successive strand sweeps securing an aligned side of each loop to a juxtaposed aligned loop side, severing each loop at a point spaced from said aligned side, and removing the strands from the strand receiver.

2,715,923

**AUTOMATIC CHAIR PLUGS AND BUTTON MACHINE**

Stanislas J. C. Despres, Grand Rapids, Mich.  
Application August 13, 1953, Serial No. 374,063  
9 Claims. (Cl. 144—48)



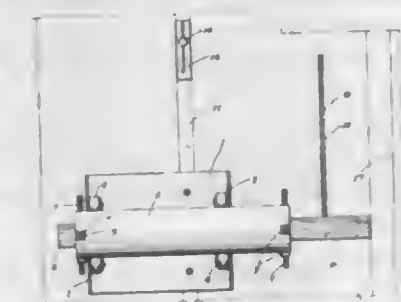
1. In a machine of the class described, an elongated supporting frame, a horizontal elongated shaft rotatably mounted thereon, means for driving said shaft at uniform speed of rotation, a horizontal, rotatably mounted dowel rod guide through which an elongated dowel rod is longitudinally movable, means driven by said shaft for periodically moving said rod a predetermined distance through said guide, rod gripping means mounted on and rotatable with said guide through which said rod passes, permitting longitudinal movement of the rod by said rod moving means and gripping said rod between movements, means for machining the projecting end of the rod mounted for movement toward and away from the rod, means driven by said shaft for moving said rod end machining means toward the end of the rod after said rod has been longitudinally moved, means for severing the machined end portion of the rod, mounted for movement toward and across and back from said rod, and means driven by said shaft for moving said severing means toward and across said rod after its end portion has been machined, and before the next succeeding longitudinal moving of said rod.

2,715,924

**DEVICE FOR TURNING INTEGRAL DOWELS**

George R. Norris, Stockton, Calif.  
Application June 30, 1953, Serial No. 365,223

10 Claims. (Cl. 144—205)



1. A device for use in combination with a table-type circular saw unit, to cut an integral dowel on one end portion of an elongated wooden work piece; the unit including a table and a driven circular saw blade projecting above said table, and said device comprising a mount adapted to rest on the table laterally of and for sliding motion parallel to the circular saw blade, said mount embodying a cradle assembly whose axis is parallel to

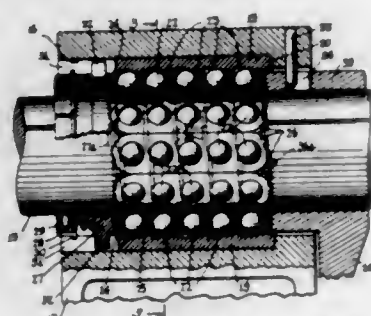


that of the circular saw blade, a horizontal elongated cylinder supported on said cradle assembly for rotation about said axis and for sliding to and fro thereon, and means securing the work piece centrally in the cylinder with said end portion projecting across and for cutting engagement by the circular saw blade.

2,715,925

### BALL AND INCLINED RACE MECHANICAL MOVEMENTS

Porter S. Morgan, Westport, Conn., assignor to Morgan Development Laboratories, Inc., Westport, Conn., a corporation of Delaware  
Application June 12, 1952, Serial No. 293,219  
25 Claims. (Cl. 144—305)



1. A device comprising a sleeve member having a cylindrical bore, a cylindrical member fitting within said bore, one only of said members having on its surface facing the other member a helically disposed flat race, the face of which is inclined toward the other member and spaced therefrom, a series of spaced balls encircling the cylindrical member and riding on said race in the space between the face thereof and the surface of the other member, the inclination of the face of the race and the position thereof causing the balls to wedge between said race face and the surface of the other member and prevent axial movement between the members in one direction and cause relative axial movement between the members in the other or work-performing direction as the wedged balls travel on the helically disposed race in response to relative rotation between the members, a portion of the face of the race being sufficiently spaced from the other member to free the balls from the latter and permit relative axial movement between the cylindrical member and the sleeve member in work-performing direction without necessarily rotating the members relative to each other.

20. A clamp having a frame having a stationary clamping member and a movable clamping member, a cylindrical rod connected to said movable clamping member, a cylindrical sleeve secured in said frame and surrounding said rod, said sleeve having on its surface facing the rod a helically disposed flat faced groove, the face of which is inclined toward the rod and is spaced therefrom, a series of balls encircling the rod and lying in said groove in the space between the face of the groove and the surface of the rod, the inclination of the face of the groove and the position thereof causing the balls to wedge between the groove face and the surface of the rod and prevent axial movement between the rod and the sleeve in one direction and cause axial movement of the rod relative to the sleeve in clamping direction as the wedged balls travel in the helically disposed groove in response to rotation of the rod.

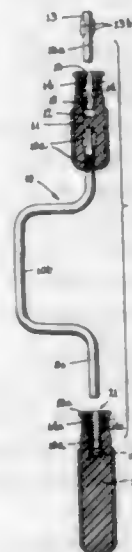
2,715,926

### COMBINATION BRACE TOOL

Richard C. P. Harris, Rowayton, Conn., assignor to The Cornwall & Patterson Company, Bridgeport, Conn., a corporation of Connecticut  
Application December 4, 1951, Serial No. 259,749  
4 Claims. (Cl. 145—66)

1. A brace comprising a handle having a chuck provided with a socket having spring friction fingers at the

inner end thereof and tool driving recesses at the forward end and a brace member having a chuck similar to the handle chuck drivingly connected to the forward end

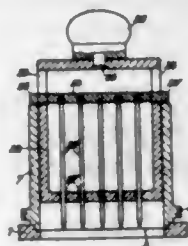


thereof; and a smooth cylindrical portion at the rear end in line with the chuck and rotatably and removably mounted in the handle chuck and frictionally held therein by said friction fingers.

2,715,927

### MATERIAL HOLDER FOR VEGETABLE SLICING MACHINE

Oscar Cüpfer and Alois Doleschl, Diessen am Ammersee, Upper Bavaria, Germany  
Application April 23, 1951, Serial No. 222,364  
Claims priority, application Germany June 28, 1950  
1 Claim. (Cl. 146—217)



In a machine for cutting and slicing vegetables and the like, a combined hopper and pressure closure comprising a hopper for receiving the vegetables to be cut, a closure member in the form of a hollow body slidable in the hopper and having a plurality of holes in the bottom thereof and a pair of diametrically opposite slots, a slide plate movably mounted in the closure member and having a plurality of pins secured in and projecting from under the plate with a pin for each hole and diametrically opposite projecting portions guided in the slots, and means secured to the closure member for lifting the closure member and slide plate out of the hopper whereby the pins will project from the bottom of the closure member to impale the vegetable to be cut on the pins, and thereafter inserting the closure member with the impaled vegetable in the hopper.

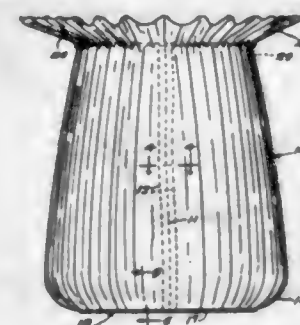
2,715,928

### COMBINATION ARTICLE HOLDING RECEPTACLE AND PILLOW

Laura Mary Coy and Dorothy A. Coy, Kokomo, Ind.  
Application April 21, 1952, Serial No. 283,352  
1 Claim. (Cl. 150—3)

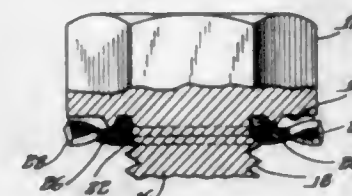
In a combined article holding receptacle and pillow a circular bottom portion, a soft flexible cylindrical body portion having one end secured to the periphery of said bottom portion, an outwardly flaring rim integral with said body portion at the open end, and a circular wire ring secured to said body portion at its juncture with said rim, said body and rim being pleated about said ring in overlapping flexible folds, whereby rotation of

said ring and bottom portion relative to each other will twist said body to close said receptacle, said rim including a reverted end portion and said wire ring being secured by stitching between said rim and the reverted end thereof.



### 2,715,929 ROTARY FASTENER AND SEALING LOCK WASHER ASSEMBLY

Friedrich Karl Knohl, Roselle, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application May 24, 1952, Serial No. 289,723  
5 Claims. (Cl. 151—37)



1. A rotary fastener unit comprising a rotary threaded clamping member having a generally radially extending clamping surface, a lock washer adjacent said clamping surface, and means for retaining the clamping member and the lock washer in preassembled relationship, said lock washer having an annular body which is of generally concavo-convex radial cross section with its concave side facing said clamping surface and presenting on its convex side an annular surface of limited radial extent at the trough of said cross section as a sealing surface, said lock washer having locking elements extending radially from said annular body, said locking elements being deflected to present tooth edges axially beyond bounding planes of said annular body, said clamping member including an annular V-shaped protuberance means extending axially from said clamping surface and presenting a continuous annular edge axially aligned with and concentric to the annular sealing surface of the lock washer for engaging the concave side of the annular body to clamp the opposite sealing surface thereof into sealing contact with a workpiece, said protuberance means simultaneously serving as an abutment to prevent complete flattening of the washer teeth when the washer is clamped between said clamping surface of the clamping member and a workpiece.

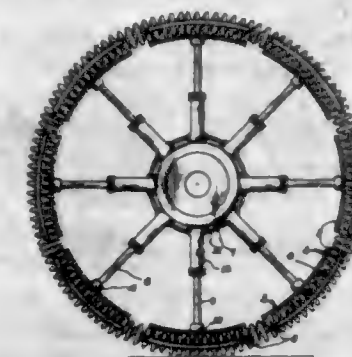
2,715,930

### HYDRAULICALLY RESILIENT WHEEL

Lawrence B. Bixby, Fredonia, and Daniel Bednarczuk, Flushing, N. Y.; said Bednarczuk assignor to said Bixby  
Application November 16, 1951, Serial No. 256,764  
6 Claims. (Cl. 152—6)

1. A resilient wheel comprising a hub portion, said hub portion including a reservoir for a fluid medium, spoke cylinders extending radially from the hub portion, said spoke cylinders being in fluid communication with the reservoir, pistons slidably retained in each of said spoke cylinders, each of said pistons having an outwardly extending rod, individual peripheral rim segments respectively connected to each of said rods, a torus-shaped tread spring connected to and surroundingly supported by the rim segments, fluid flow control means in each of said

spoke cylinders responsive to piston displacement in each cylinder to throttle fluid flow between cylinders and reservoir, and auxiliary fluid flow means to augment fluid



flow between cylinders whereby upon radial inward piston displacement of any piston results in a radial outward movement of all the other pistons.

2,715,931

### DRUM ASSEMBLY FOR TIRE BUILDING MACHINE

Larry C. Frazier, Niles, Mich., assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio  
Continuation of application Serial No. 180,452, August 19, 1950. This application October 10, 1952, Serial No. 314,092  
20 Claims. (Cl. 154—9)

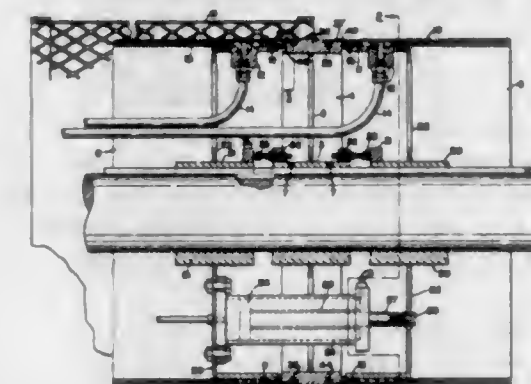


1. A drum assembly of the type described adapted for use with a tire building machine, comprising in combination, a plurality of radially movable cylindrical segmental shoe members combined in side-by-side relation to form a central forming drum unit, inflatable bag means disposed centrally inward of said shoes adapted for simultaneously moving said shoes radially outward to a predetermined stop position under suitable fluid pressure, inflatable folding bag means adapted to move over said forming drum and exert sufficient inward radial thrust thereon whereby said first mentioned bag and said segmental shoes will be moved radially inward and stop means for limiting inward radial movement of said shoes at a series of predetermined stop positions

2,715,932

### TIRE BUILDING DRUM (BICYCLE TYPE)

Larry C. Frazier, Niles, Mich., assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio  
Application March 4, 1953, Serial No. 340,289  
15 Claims. (Cl. 154—9)



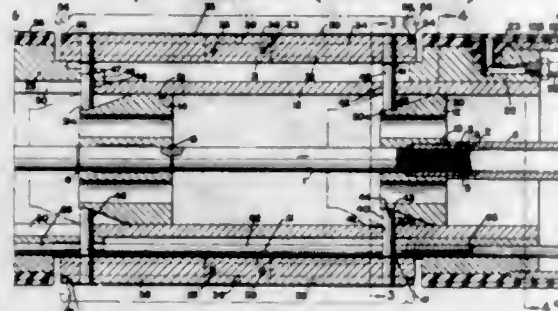
1. A tire building drum comprising a non-expandible central portion, expandible edge portions, and means to expand the edge portions radially outward to form bead setting shoulders extending beyond the central portion.



2,715,933

**TIRE BUILDING DRUM (INDUSTRIAL TYPE)**  
Larry C. Frazier, Niles, Mich., assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, a corporation of Ohio

Application March 4, 1953, Serial No. 340,290  
16 Claims. (Cl. 154-9)

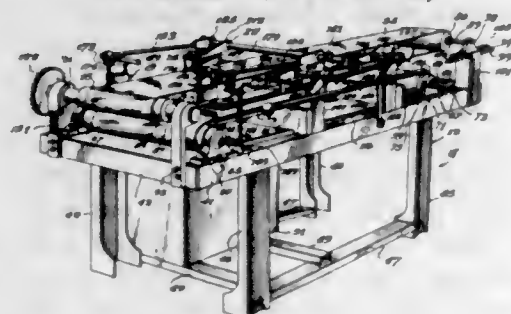


1. A tire building drum comprising a plurality of longitudinal staves forming the tire building surface, each of said staves being made of sections telescopically arranged, radial posts at the ends of said staves extending toward the axis of the drum, mechanically operated expanders on the interior of the drum having surfaces against which the inner ends of the posts rest, means to move said expanders along the axis of the drum to expand the drum circumferentially, and means connected to all of said staves to vary the length of all of said staves simultaneously.

2,715,934

**HEAT SEALING APPARATUS**  
Reinhardt N. Sabee, Appleton, and Willard L. Wogslund, Neenah, Wis.; said Wogslund assignor to said Sabee

Application April 2, 1953, Serial No. 346,318  
12 Claims. (Cl. 154-42)



1. Apparatus for heat sealing thermoplastic webs comprising a frame, means on said frame for supporting and carrying thermoplastic web products through the apparatus, an elongated heating member supported on said frame for movement into and out of contact with the upper surface of a web product being carried through the apparatus, the major length of said elongated heating member extending in the direction of movement of said web product, and a second heating member supported on said frame for movement into and out of contact with the upper surface of said web product being carried through the apparatus at a point immediately forwardly of, and in line with, the surface area contacted by said elongated heating member, whereby the same surface area of said web product may be contacted first by said elongated heating member and immediately following by said second heating member as said web product is carried through the apparatus by said supporting and carrying means, said heating member extending in the direction of movement of said web product for a distance substantially less than the major length of said elongated heating member.

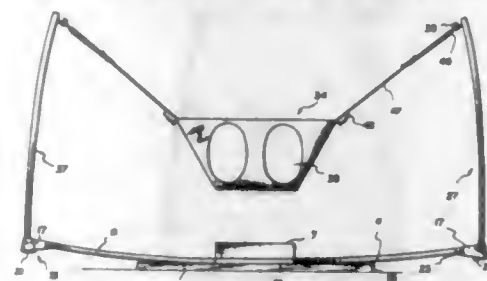
2,715,935

**BABY JUMPER**

Louis P. Berry, Jr., Memphis, Tenn.  
Application March 2, 1954, Serial No. 413,509  
8 Claims. (Cl. 155-17)

1. A baby jumper including in combination, a support base including elongated flexible members removably

fixed adjacent their inner ends to said base and extending outwardly therefrom and a seat and seat supporting flexible uprights, an upright being removably mounted at

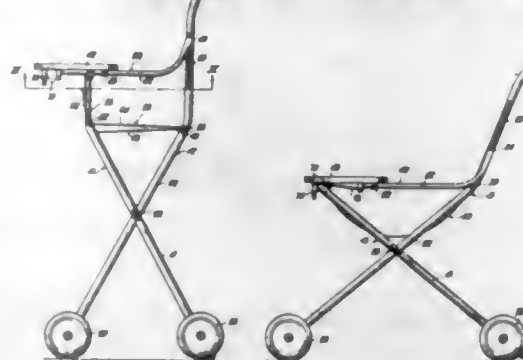


its base adjacent the outer end of each flexible member and means suspending said seat from the upper portions of said uprights in position therebetween.

2,715,936

**COMBINATION HIGH CHAIR AND BABY CARRIAGE**

William F. Galloway, Sr., New Orleans, La.  
Application October 13, 1952, Serial No. 314,435  
3 Claims. (Cl. 155-38)



1. In a collapsible combination high chair and baby carriage, a front and a rear frame, each having a pair of legs, the legs of the front frame crossing the legs of the rear frame; means pivotally securing each leg of the front frame to a corresponding leg of the rear frame for swinging movement of the frames relatively to and from a collapsed position; a flexible seat on one side of said pivotal means, said seat having a pair of ends and a bight, one of the ends being secured to one of the frames, the other frame having a cross member joining the legs thereof, said bight being looped around the member when the frames and seat are in a position for use as a high chair; releasable means including elements on the seat and elements on the one frame for joining the other of said ends to said one frame when the frames and seat are in said position for use as a high chair; means on said other frame adapted to receive said elements for joining said other end to the other frame with said bight looped between the frames when the frames and seat are in a position for use as a baby carriage; a tray; arm means swingably and shiftably secured to said one frame; means shiftably securing the tray to said arm means; releasable mechanism for joining the tray with said member when the frames and seat are in said position for use as a baby carriage; and structure for supporting the tray by said member when the frames and the seat are in said position for use as a high chair.

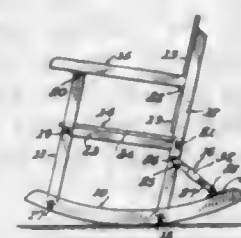
2,715,937

**COLLAPSIBLE ROCKER**

Robert L. Thomas, Brawley, Calif., assignor of one-half to Clifford S. Lupercio, Brawley, Calif.  
Application June 15, 1954, Serial No. 436,759  
3 Claims. (Cl. 155-76)

1. A rocker comprising rocker bars, front and rear posts, back members connecting the latter posts, a seat, and arm rests arranged with the posts to define a parallelepiped, pivots connecting said bars, seat, and arm rests

to the posts, and separable brace devices extending between each rear post and the rear portion of each respective rocker bar to brace said rocker components in erected operative position, each brace device comprising a link



pivotally connected to a rear post, a link pivotally connected to a rocker bar, means to separably connect the links, and a member telescopically engaged with the links, when connected, to render the same relatively rigid.

2,715,938

**TRACTOR SEAT**

Delmer E. Miller, De Witt, Mo.  
Application July 22, 1953, Serial No. 369,557  
4 Claims. (Cl. 155-121)



1. A seat structure for a vehicle comprising an upwardly inclining leg having a front end pivoted on said vehicle for vertical swinging of said leg, said leg terminating in a rear end shaft angularly related thereto to dispose said shaft substantially horizontally and being vertically swingable with said leg, a shock absorber beneath said shaft pivotally connected to said vehicle, means operatively connecting the shock absorber to said shaft for cushioning vertical movement of the shaft, a seat frame surmounting the shaft, frame supporting means slidable forwardly and rearwardly on the shaft and rotatable on the shaft to adjust said frame into level position, coacting devices on said first and second named means interlocking upon forward sliding of said frame supporting means to prevent rotary adjustment of said seat frame and unlocked upon rearward sliding of said seat supporting means to permit rotary adjustment of said frame, and spring means on said shaft operatively connected to said second named means and tending to slide said second named means forwardly.

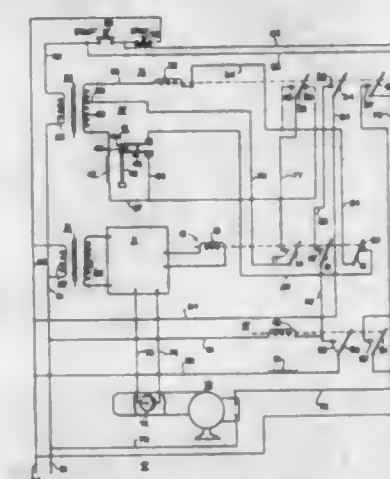
2,715,939

**RELAY CONTROL APPARATUS FOR BURNERS AND THE LIKE**

James W. Smith, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Application October 12, 1951, Serial No. 250,972  
12 Claims. (Cl. 158-28)

1. Control apparatus comprising, an alternating current source of power; a relay having an armature and an actuating means, said relay adapted to move said armature from an inoperative to an operative position when a first level of power is applied to said actuating means and to maintain said armature at the operative

position only so long as the level of power is maintained above a second level; control circuit means adapted to connect said actuating means to said source of power to apply said first level of power to said actuating means, said control circuit means remaining completed as long as relay operation in said operative position is desired; switch means controlled by said armature to be closed when said armature is in the operative position; impedance means; and further circuit means completed by said switch means connecting said source of power, said impedance means and said actuating means in a series circuit to apply said second level of energization to said actuating means, said impedance means being shorted by said control circuit means so long as said control circuit means is completed.



6. Burner control apparatus for use with a fuel burner comprising, an alternating current source of power, a first relay, first switch means controlled by said first relay and adapted to energize the burner, a starting switch, first circuit means adapted to be completed by closing said starting switch to connect said first relay to said source of power; a flame detector for detecting a flame at the burner, second switch means controlled by said flame detector; a second relay, said second relay having an inoperative and an operative position and movable to said operative position upon energization of said second relay above a first level of energization, said second relay normally remaining in said operative position only so long as said relay is continuously energized above a second level of energization lower than said first level, circuit means adapted to be completed by said second switch means connecting said second relay to said source of power to supply at least said first level of energization to said second relay, third switch means controlled by said second relay and including a plurality of switch contacts, holding circuit means including a first of said plurality of switch contacts maintaining said first relay energized by said source of power independent of said starting switch, impedance means, and second circuit means completed by a second of said plurality of switch contacts of said third switch means to connect said second relay, said impedance means and said source of power in a series circuit, the impedance value of said impedance means being of sufficiently high value to render said series circuit effective upon opening of said second switch means to cause energization of said second relay below said second level to thereby prevent sticking of said second relay due to residual magnetism.

2,715,940

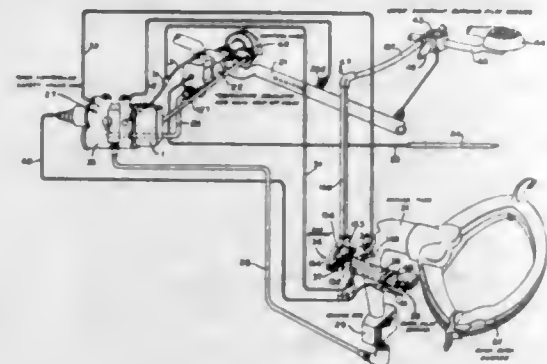
**OVEN LIGHTING SYSTEM**

Peter I. Hollman, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois  
Application June 17, 1946, Serial No. 677,137  
36 Claims. (Cl. 158-131)

33. In an oven lighting system, the combination of an oven burner arranged to be connected to a source of



fuel, a safety valve movable between an open and a closed position controlling the flow of fuel to said burner, a first combination pilot burner and supply means in lighting proximity with said oven burner and arranged to be connected to the source of fuel, a second combination pilot burner and supply means in lighting proximity with said oven burner and arranged to be connected to said source of fuel, means responsive to the heat of said first combination pilot burner and supply means for holding said safety valve in the open position, and valve means controlled by said safety valve for maintaining the flow of fuel to said second combination pilot burner and supply means at all times that said safety valve is open to maintain the flow of fuel to said oven burner.

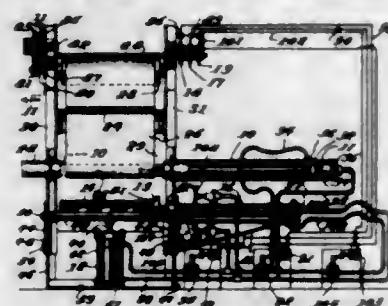


36. In a burner control system wherein there is a main burner, pilot burner means for lighting said main burner, said pilot burner means comprising a first pilot burner, a fuel supply line for supplying fuel to said main burner, a fuel supply line for supplying fuel to said first pilot burner, a safety shut-off valve in the fuel supply line for the main burner and operable to a closed position to shut off the supply of fuel to said main burner, valve means in the fuel supply line for said first pilot burner and operable to closed position when said safety shut-off valve in the fuel supply line for the main burner is open, whereby to shut off the supply of fuel to said first pilot burner, the combination with said system of standby pilot burner means in juxtaposition to the main burner for relighting said main burner when the safety shut-off valve in the fuel supply line to the main burner is in open position and the valve means in the fuel supply line for said first pilot burner is closed, said safety shut-off valve in the fuel supply line for the main burner comprising a valve body having an outlet port for supplying fuel to said first pilot burner, a fuel supply means for said outlet port, and a valve member under the control of the safety shut-off valve for controlling the supply of fuel through said fuel supply means to said port.

2,715,941

**SHEET MATERIAL SLAB CUTTER**

Floyd C. Rankin and Oral A. Good, Indiana, Pa., assignors to The McCreary Foundation, Inc., Indiana, Pa.  
Application June 27, 1952, Serial No. 295,914  
9 Claims. (Cl. 164-73)



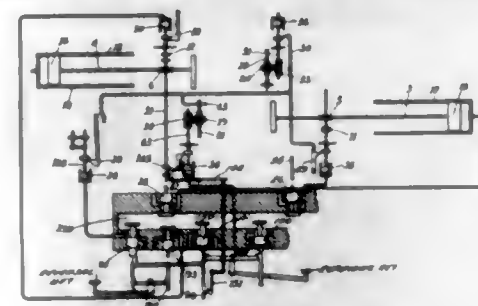
1. A sheet material cutter comprising means for suspending the sheet of material with parts of a depending section thereof in spaced relation and with the lower ends of the parts connected with an arcuate section, a cutting cylinder having a continuous knife slot extended longi-

tudinally through the peripheral surface, means for projecting the cutting cylinder having the slot therein longitudinally and between the parts of the depending section of the sheet material, a knife, a guide having spaced gripping jaws, means urging said gripping jaws against the sheet material on the cylinder with one of said jaws on each side of said slot, means actuating the knife longitudinally of said gripping jaws with the cutting edge of the knife extended through said sheet material and into the slot of the cylinder, and means for retracting the knife and gripping jaws.

2,715,942

**KEYBOARD CONTROLLED MECHANISMS FOR USE IN THE PRODUCTION OF LINES OR PATTERNS OF TYPOGRAPHICAL AND LIKE MATTER**

Henry George Croucher, Beccles, England, assignor, by mesne assignments, to The Monotype Corporation Limited, London County, England  
Application June 1, 1951, Serial No. 229,341  
58 Claims. (Cl. 164-112)



1. A keyboard controlled mechanism for producing record-bearing means used in the production of typographical and like matter comprising, in combination, means for feeding a record-bearing means such as a strip, key controlled means for forming records at a fixed station on said record-bearing means corresponding to the characters required for variable lines of typographical matter and also for the determination of character spacing in such line of characters, means for reversely feeding the record bearing means, means for automatically determining the reverse feeding distance to have a relation with the forward feeding distance corresponding to the previously formed records for a line of characters such that the records which determine character spacing in the line are positioned in advance of the records of characters constituting such line, and means for subsequently returning the record-bearing means over an automatically determined distance to a position such that the commencement of the formation of character records for the succeeding line is spaced from the character records of the previous line so that the records which determine character spacing can be subsequently formed in such space.

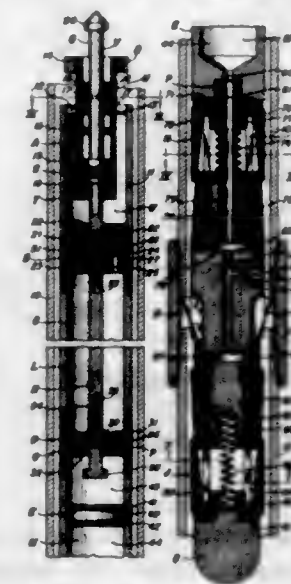
2,715,943

**TUBING THREAD LEAK REPAIR TOOL**

Martin E. True, Houston, Tex., assignor, by mesne assignments, to Esso Research and Engineering Company, Elizabeth, N. J., a corporation of Delaware  
Application April 29, 1954, Serial No. 426,452  
4 Claims. (Cl. 166-63)

1. A tool for forcing thread sealing compound into the threads of a leaking coupling comprising, in combination, an elongated body having a first chamber containing gas under high pressure and a second chamber containing thread sealing compound, a partition member between said chambers provided with first and second passageways, spaced first and second pressure actuated packer assemblies carried on said body member, said body member being provided with a third passageway fluidly communicating said packer assemblies with the second chamber, said body member being also provided

with a discharge port closed by a frangible disc communicating fluidly with the third passageway and discharging from the body member at a point between said spaced first and second packer assemblies, check valve means in the first passageway allowing flow of gas from the second chamber to the first chamber when the pressure in the second chamber is greater than the pressure in the first chamber and preventing flow of gas from the second chamber to the first chamber when the pressure in the first chamber is greater than the pressure in the second chamber, a longitudinally movable valve element slidably arranged in the second passageway adapted to assume a first position sealing said first chamber and movable from the first position to a second position

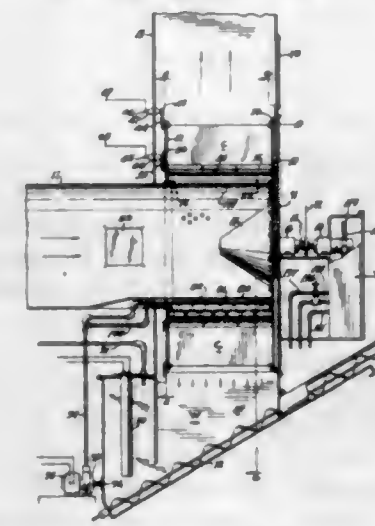


communicating said first chamber with said second chamber and movable from the second position to a third position communicating said first chamber with the exterior of said elongated body, and a valve actuating means mechanically connected with said movable valve element, said valve actuating means including an elongated member having a head adapted to be engaged with a wire line, a slidable sleeve, and a frangible member releasably connecting the elongated member and the slidable sleeve adapted to shear at a first point allowing movement of the slidable sleeve downwardly to move the valve element from its first position to its second position and shearable at a second point to allow movement of the elongated member upwardly and the valve element from its second position to its third position.

2,715,944

**ROTATING CELL ELECTRIC DUST PRECIPITATOR**

Francis J. Dohrer, Seattle, Wash.  
Application July 6, 1951, Serial No. 235,488  
18 Claims. (Cl. 183-7)



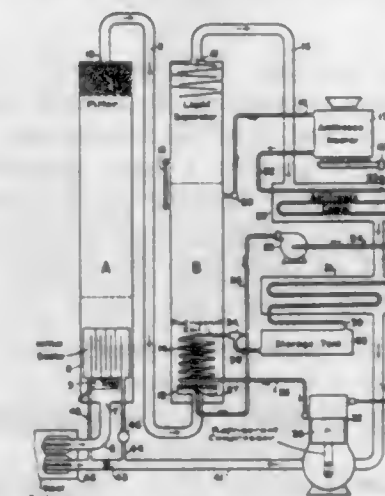
1. In an electric precipitator, a rotor having a plurality of precipitating cells distributed circumferentially around the rotor, a back plate on said rotor supporting

said precipitating cells at a distance from the axis of the rotor, a conical deflecting shield having its base mounted on one side of said back plate and its apex extending into the eye of the rotor, a shaft supporting the rotor mounted in said back plate and conical shield, and bearings supporting said shaft and rotor on the other side of said back plate.

2,715,945

**METHOD AND APPARATUS FOR REMOVING FOREIGN MATERIALS FROM GASEOUS FLUIDS**

Paul M. Hankison, Bridgeville, and Donald K. Bice, Pittsburgh, Pa.  
Application February 27, 1952, Serial No. 273,748  
8 Claims. (Cl. 183-32)



6. A method of removing readily condensable vapors from a compressed fluid such as compressed air, which consists in confining a flow of such fluid while maintaining the pressure thereof above atmospheric pressure; delivering such flow of confined fluid to a body of refrigerated liquid maintained at a temperature below 32° F. but above the freezing temperature of such liquid; causing the fluid so delivered to bubble through such body of liquid; collecting such fluid issuing from such body of liquid at a point above such body; while continuing the flow of such fluid so collected and while maintaining the pressure thereof above atmospheric pressure, separating therefrom the refrigerated liquid entrained thereby; withdrawing liquid from said body of liquid during the bubbling of fluid therethrough; heating the liquid so withdrawn to remove therefrom vapors absorbed thereby as the result of the bubbling of fluid through such body of liquid; partially cooling the withdrawn and heated liquid by subjecting the same to a flow of fluid which has issued from said body of liquid; spraying the partially cooled liquid into the flow of fluid moving toward such body of liquid; then delivering liquid so sprayed into such body of liquid with the flow of fluid entering such body; and refrigerating the liquid so delivered and the liquid of said body to continuously maintain the temperature of such body of liquid below 32° F. but above the freezing point of such liquid.

2,715,946

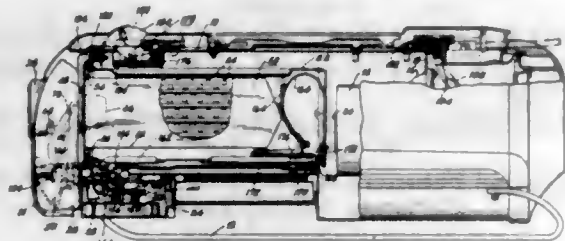
**ADJUSTABLE CONTROL FOR AUTOMATIC VACUUM CLEANERS**

Axel Peterson, Stamford, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware  
Application January 14, 1954, Serial No. 403,977  
8 Claims. (Cl. 183-37)

6. In a vacuum cleaner, a casing having an opening, a dust separating member disposed in said casing and removable through said opening, suction creating means for producing flow of air through said casing and through said dust separating member therein, a differential pressure diaphragm movable in response to variations in the



pressure drop of air passing through said dust separating member, an electric contact movable by said diaphragm, a normally fixed electric contact disposed in operative relation to said movable contact, a power diaphragm, conduit means for communicating the suction produced by said suction creating means to one side of said power diaphragm, an electromagnetic valve for controlling flow through said conduit means, a closure member for said

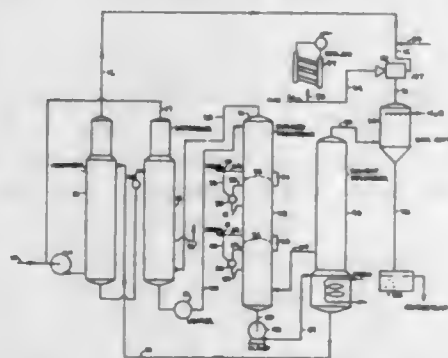


opening, means operable by said power diaphragm for opening said closure member, an electric circuit including said contacts and said electromagnetic valve, and means to adjust the position of said normally fixed contact with respect to said movable contact for varying the value of the pressure drop through said dust separating member required to cause said diaphragm to close said contacts to thereby actuate said valve.

2,715,947

#### CHEMICAL PURIFICATION PROCESS FOR ACETYLENES

Wayne E. Alexander, Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware  
Application November 1, 1951, Serial No. 254,388  
6 Claims. (Cl. 183-115)



1. In the process for removing acetylene polymers from an organic oxygen-containing solvent containing said polymers and dissolved water, said solvent having a boiling point above that of water, the steps of vaporizing water simultaneously with said acetylene polymers from said solvent, condensing at least a part of said water and then mixing said acetylene polymers with a high velocity jet of combustible gas.

2,715,948

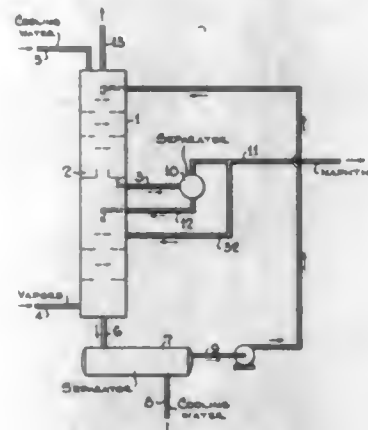
#### DIRECT CONTACT CONDENSER AND ABSORBER

Warren K. Lewis, Newton, and Edwin R. Gilliland, Arlington, Mass., and William N. McCurdy, Jr., Linden, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

Application May 22, 1951, Serial No. 227,652  
4 Claims. (Cl. 183-120)

1. The process of condensing mixed heavy and light hydrocarbon vapors comprising the steps of introducing said vapors into a condensing zone at the higher temperature end thereof, condensing in said zone a liquid relatively rich in heavy hydrocarbons and capable of absorbing light hydrocarbon vapors, withdrawing all of said liquid from said zone at said higher temperature end,

introducing all of said liquid into an absorption zone at one end thereof, introducing a liquid coolant immiscible with said vapors into said absorption zone at substantially the same point at which said liquid relatively rich in heavy hydrocarbons is introduced, whereby said point is maintained at the lowest temperature in said absorption zone, introducing light hydrocarbon vapors from said condensing zone into said absorption zone at the end opposite said low temperature point, contacting said light hydrocarbon vapors with said coolant and said liquid rich in heavy hydrocarbons in said absorption zone whereby said light hydrocarbon vapors are absorbed to form a liquid mixture of light and heavy hydrocarbons, and a treated gas from which light hydrocarbon vapors have



been removed, withdrawing said gas from said absorption zone adjacent said point of lowest temperature, withdrawing said liquid hydrocarbon mixture from said absorption zone and introducing at least a portion thereof into said condensing zone, contacting said liquid mixture and said mixed vapors countercurrently in said condensing zone whereby light hydrocarbons are stripped from said liquid mixture, withdrawing liquid relatively rich in heavy hydrocarbons and of increased absorptive capacity from said condensing zone, introducing the same into said absorption zone adjacent said point of lowest temperature, withdrawing said liquid coolant from said absorption zone, and introducing said liquid coolant into said condensing zone at the end opposite that at which said vapors are introduced.

2,715,949

#### HINGE LID OILER

Nicholas J. Nolan, Detroit, Mich.  
Application January 10, 1952, Serial No. 265,841  
7 Claims. (Cl. 184-91)

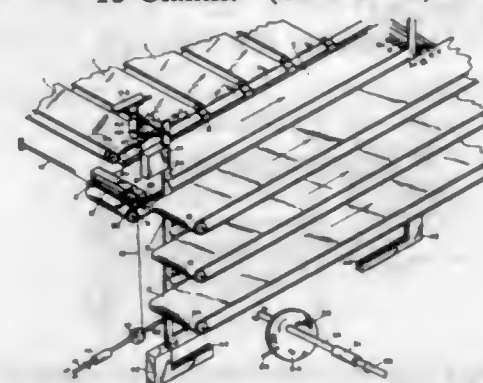


1. A hinge lid oiler of the class described comprising a tubular member; a tongue extended outwardly from one side of said tubular member, adjacent one end thereof, and said tongue being curved toward its end; a pivot lug projecting outwardly from each of the opposite sides of said tongue adjacent the end of said tongue; a one-piece cover comprising a body portion; a tongue formed integral with said body portion and doubled thereunder and extending rearwardly thereof and spaced from the under surface thereof adjacent its free end; a pair of lugs carried by said cover swingably mounted on said first named lugs, one face of said second named tongue engaging the edge of said first named tongue below said pivot lugs and being formed of resilient material for normally retaining the cover in closing position.

2,715,950

#### ARTICLE DISPENSING SYSTEMS

Peter L. Law, Roseville, near Sydney, New South Wales, Australia, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a corporation of Australia  
Application October 30, 1951, Serial No. 253,786  
Claims priority, application Australia November 6, 1950  
15 Claims. (Cl. 186-1)

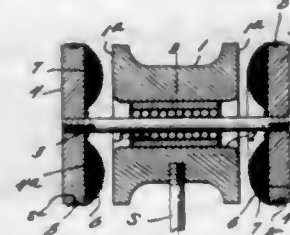


1. In a system for dispensing articles of varied character: a plurality of storage and releasing devices; a receiving device mounted adjacent the releasing ends of a number less than the total number of said storage and releasing devices and adapted to receive a batch of articles selectively released from the adjacent storage and releasing devices; common conveying means mounted adjacent said receiving device and the releasing ends of the remainder of said storage and releasing devices for receiving articles released from said remainder of said storage and releasing devices and from said receiving device; and control means connected to said receiving device operable after the release of said batch of articles to transfer as a group to said common conveying means said articles held on said receiving device.

2,715,951

#### VIBRATION DAMPERS

Paul Lieber, Flushing, N. Y.  
Application July 12, 1950, Serial No. 173,333  
2 Claims. (Cl. 188-1)



1. A vibration damper of the impact type comprising an abutment member composed of metal and having flat impact faces upon its opposite sides, an opening extending centrally through the abutment member, a rod passing through said opening and projecting substantially beyond opposite sides of the abutment member, impact plates supported upon opposite ends of said rod and presenting impact faces companion to the impact faces on the abutment member, said rod and impact plates constituting an inertia member, and a pad of non-resilient, deformable cushioning provided upon one of each pair of companion impact faces of the abutment member and the inertia member, said cushioning material comprising a mass of non-coherent particles enclosed within a flexible and inelastic covering.

2,715,952

#### VIBRATION DAMPERS

Leonard Henry Barnett, Putney, London, England, assignor to Jonas Woodhead & Sons Limited, Leeds, England, a company of Great Britain  
Application December 21, 1953, Serial No. 399,377  
Claims priority, application Great Britain January 1, 1953  
6 Claims. (Cl. 188-129)

1. A vibration damper of the kind referred to comprising a cylinder member, a piston member including at

least one radially displaceable friction element, a piston rod axially movable relatively to the cylinder member, locating parts projecting radially from the piston rod and having radial surfaces engaging corresponding surfaces of the friction element to locate the friction element relatively to the piston rod, permit radial displacement of the friction element relatively to the piston rod but to exert

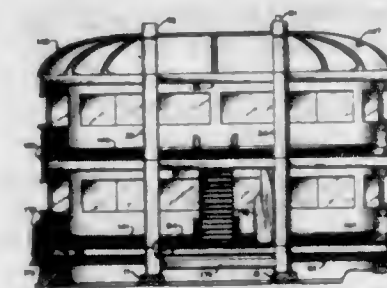


no radial force on the friction element by reason of axial forces transmitted from the piston rod to the friction element through the locating parts, means for applying a radial force to the friction element to maintain said element in frictional engagement with the cylinder, and control means extending from the outer end of the piston rod along its bore for varying the radial force applied by said control means to said friction element.

2,715,953

#### HOUSE

George M. Marrow, Brattleboro, Vt.  
Application March 31, 1947, Serial No. 738,383  
3 Claims. (Cl. 189-1)



1. A prefabricated building having semi-circular end portions, vertical internal support units of semi-circular cross-sectional shape concentric with the semi-circular end portions of the building, horizontal support members extending between said vertical support members and connected thereto, curved wall sections disposed in adjoining relationship to each other around said vertical support units and uniformly spaced therefrom, straight wall sections disposed between said curved wall sections at the opposite ends of said building, segmental floor sections connected and supported at their inner ends on said vertical support units and at their outer ends on said curved wall sections, and rectangular floor sections connected and supported at their inner ends on said horizontal internal support units and at their outer ends on said straight wall sections.

2,715,954

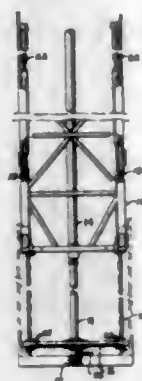
#### HYDRAULIC TOWER ELEVATING DEVICE

Thomas M. Rowan, Long Beach, Calif., assignor to Wilson Manufacturing Company, Wichita Falls, Tex., a corporation of Texas  
Application April 4, 1949, Serial No. 85,299  
5 Claims. (Cl. 189-14)

1. In an extensible structure including inner and outer telescoping elements of which the inner element has a



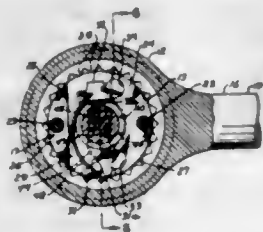
high slenderness ratio, a rigid frame surrounding and extending substantially throughout the length of said inner element substantially parallel with the axis thereof, a movable member slidably mounted within said rigid frame, means anchoring an end of one said element to said movable member, means anchoring the opposite end of said other element against movement relative to said rigid frame, bracing means mounted in axial sliding con-



tact with said inner element and an axial sliding engagement with said rigid frame, and lost motion linkage means connecting said movable member and said bracing means for moving the latter along said inner element during extension of said structure beyond the extent of lost motion of said linkage, whereby said bracing means act between said rigid frame and said inner element intermediate the ends of the latter when said structure is fully extended.

2,715,955

**REVERSIBLE RATCHET DEVICE FOR WRENCHES**  
Arthur P. Stone, Akron, Ohio, assignor to The Wright Tool and Forge Company, Barberton, Ohio, a corporation of Ohio  
Application May 13, 1950, Serial No. 161,790  
6 Claims. (Cl. 192-43.1)

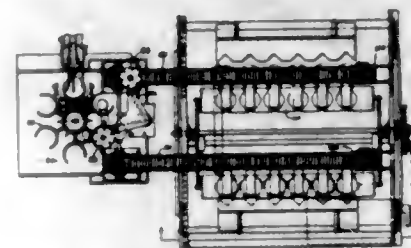


1. A reversible ratchet device of the character described comprising a head having an opening therein, a member relatively rotatably mounted on said head to be rotatable about an axis and having a part received in said opening, said opening having circumferentially spaced teeth on the inner periphery thereof, separate laterally oppositely disposed pawls pivotally mounted on said part for driving engagement with said spaced teeth in opposite directions of relative rotation of the member in said head, a link pivotally connected at opposite ends thereof to the respective said pawls to extend unobstructedly between the same and to be freely movable laterally, whereby through said link said pawls are swingable in unison in either direction laterally, an element mounted in said member to be rotatable about said axis, and indexing means operable upon relative rotation of the element in either of opposite directions with respect to said rotatable member and including a portion carried by said element engageable with a corresponding said pawl to urge the same outwardly into driving engagement with said teeth while said connecting link correspondingly urges the other pawl inwardly out of driving engagement with the teeth.

# 2,715,956 APPARATUS FOR MANUFACTURING POTTERY WARE

Walter A. Johnson, Syracuse, N. Y., and Norman I. Sebell, Long Meadow, Mass., assignors to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York  
Original application February 24, 1950, Serial No. 146,054, now Patent No. 2,686,587, dated August 17, 1954. Divided and this application May 19, 1952, Serial No. 288,606

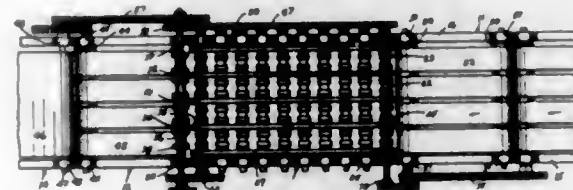
7 Claims. (Cl. 198-25)



4. Apparatus for the manufacture of pottery ware, a mould carrying turret operable upon indexing movement to advance a procession of moulds, an in-feed conveyor, an out-feed conveyor, said conveyors being arranged horizontally in a plane above said turret, a pair of mould supports mounted for vertical reciprocation in unison and being operable upon upward movement to elevate a mould with ware therein from the turret to the plane of said conveyors, and upon downward movement to lower a mould into said turret, a ware transfer mechanism mounted in juxtaposition to said supports and said conveyors and being operable upon elevation of said supports to transfer the filled mould to the out-feed conveyor and to transfer an empty mould from the in-feed conveyor to the other support.

2,715,957

**CONTAINER FEED MANIPULATING DEVICE**  
Charles A. Shuttleworth, Warren, Ind.  
Application September 6, 1952, Serial No. 308,208  
8 Claims. (Cl. 198-33)



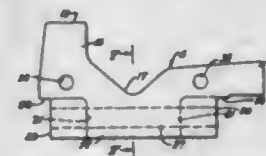
8. A container feed manipulating device for receiving containers in scattered arrangement and erecting them in parallel rows comprising a frame, a plurality of parallel rollers mounted on said frame with their centers in a common plane for unidirectional rotational movement thereby to provide lateral movement of said containers, said rollers being spaced from one another to move upright containers into a position with their longitudinal axes in a horizontal plane, spaced collars on said rollers for guiding said containers into a position with their longitudinal axes extending in the direction of container travel, drive sprockets on said rollers having a progressively smaller number of teeth in the direction of container travel, a drive chain common to said sprockets thereby to provide progressively increased speed of container travel, spaced pulleys mounted for free rotation on the end rollers, belts running in said pulleys for defining parallel paths of movement for said containers, a final roller travelling at slower speed than the last aligning roller, thereby to cause the momentum of containers to provide a setting-up movement of said containers, a main drive means coupled to said chain and said setting-up roller, an auxiliary drive means coupled to said main drive means for driving alternate ones of said belts in opposite directions to rotate said containers into longitudinal alignment, and

conveyor means below said setting-up roller for receiving said containers in an upright position and continuing their travel in this position.

2,715,958

# CHAIN CONVEYOR FOR HANDLING PIERCED BILLETS AND MANDREL BARS

Walter A. Lindstrom and Adolf O. Preuss, Gary, Ind., assignors to United States Steel Corporation, a corporation of New Jersey  
Application February 18, 1954, Serial No. 411,111  
8 Claims. (Cl. 198-131)

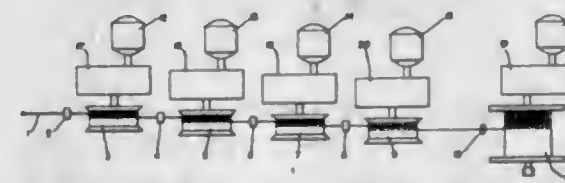


5. In a chain conveyor for handling pierced billets and mandrel bars including a chain drive formed of pairs of spaced parallel links, a supporting saddle comprising a U-shaped body extending transversely of the space between the links of one of said pairs and having parts at its ends supported on said one pair of links and a depending portion intermediate said parts received in the space between said one pair of links for maintaining the spaced and parallel relation thereof, said one pair of links and depending portion having aligned openings with a connecting pin received therein, said body having upwardly projecting and spaced parallel flanges extending transversely of the conveyor, said flanges each having a depression intermediate the ends of its upper edge providing a recess for the reception and support of a billet, and an insert removably mounted in the space between said flanges with its ends positioned between said flanges and held thereby against movement lengthwise of the conveyor chain and having a center portion of its upper edge projecting above said recesses.

2,715,959

# MULTIBLOCK WIRE-DRAWING APPARATUS AND METHOD

William Elwood Zelle, Columbus, N. J., assignor, by mesne assignments, to John A. Roebling's Sons Corporation, Trenton, N. J., a corporation of Delaware  
Application February 17, 1951, Serial No. 211,523  
3 Claims. (Cl. 205-14)



1. A multiple-die wire-drawing machine comprising a plurality of dies and pulling blocks alternately arranged so that the wire passes directly from a die to its pulling block and thence directly to the next die, separate electrical motors for driving said blocks without variation in wire storage during wire drawing, the armatures of said motors being connected in parallel across a first electrical power supply and the shunt field windings of said motors being connected in parallel across a second electrical power supply, means for varying field resistances of all of said motors concurrently to vary the motor and block speeds in substantial unison, means for varying field resistances of said motors individually to vary the speeds of the respective motors thereby selectively to operate the corresponding blocks faster than the wire to provide slippage between the blocks and the wire, to operate the blocks at substantially the speed of the wire without slippage or to operate the blocks with a selected tension on the outgoing wire, and means for determining

697 O. G.—33

2,715,960

# CRATE FOR FINNED END PIECE OF BOMB OR THE LIKE

Kenneth T. Norris, San Marino, Calif., assignor to Norris-Thermador Corporation, Los Angeles, Calif., a corporation of California  
Application September 14, 1951, Serial No. 246,538  
7 Claims. (Cl. 206-3)

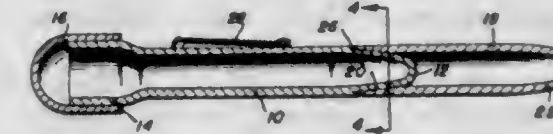


1. A device of the character described, comprising in combination a frame, a finned tailpiece disposed centrally therewithin, said tailpiece having a front end and a rear end and being hollow and open at each end and including fins on the rear end, said fins having rear edges disposed rearwardly of all other portions of the tailpiece, an end plate constituting one end of said frame and having a central opening therethrough, a clamping member disposed within said tailpiece, an axial member extending rearwardly from said clamping member through the open rear end of said tailpiece and through the opening in said end plate, means securing said axial member against rotation relative to said tailpiece and a nut threaded on the end of said axial member and engaging the outer surface of said end plate circumjacent its central opening to draw the rear edges of said fins into firm engagement with said end plate thereby to clamp said tailpiece firmly within said frame.

2,715,961

# SAFETY EXTINGUISHER

William R. Field, Memphis, Tenn.  
Application June 2, 1952, Serial No. 291,178  
1 Claim. (Cl. 206-38)



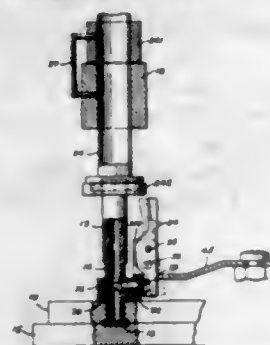
A safety extinguisher for ignited tobacco products and matches comprising an elongated first tubular member having a conical closed end and an open end, said open end being flared to permit ease of entry of a tobacco product, a removable cap normally closing said open end, a second tubular member having a closed end and an open end, the open end of said second tubular member being frictionally engaged over said conical closed end, said second tubular member forming an extension of said first tubular member, a match receiving opening in said second tubular intermediate the ends thereof, said conical closed end and the open end of said second tubular member having walls of reduced thickness, mating surfaces of said walls being complementary.



2,715,962

## ARTICLE ASSORTING DEVICE

Lester H. Messinger, Trumbull, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware  
Application December 28, 1951, Serial No. 263,859  
17 Claims. (Cl. 209—72)

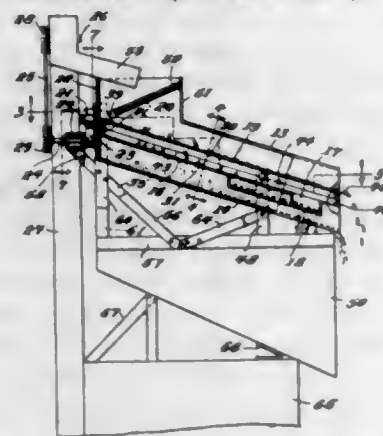


1. Apparatus for the continuous assembly of a sequence of similar articles each comprising a percussion sensitive element, said apparatus comprising an article conveying device having a predetermined movement, means activated by the combustion of a percussion sensitive element in process of assembly, and means controlled by said first named means for effecting the segregation of assemblies comprising burned-out percussion sensitive elements while said conveying means performs its predetermined movement.

2,715,963

## GRAIN CLEANER

Homer M. Brown, Imperial, Nebr.  
Application April 29, 1952, Serial No. 284,921  
3 Claims. (Cl. 209—319)



1. In a grain cleaner, the combination which comprises an upper inclined screen having longitudinally disposed spacing strips on the lower surface and at the edges thereof, a lower inclined screen positioned below the upper inclined screen and having spacing strips on the upper surface and at the edges thereof, the upper surfaces of said spacing strips of the lower screen being positioned in meeting relation with the lower surfaces of the spacing strips of the upper screen, an inclined chute having a base, a cover, and side walls in which the screens are positioned and said side walls of the chute having longitudinally disposed channels therein in which edges of the upper and lower screens and the strips thereon are positioned, a distributing baffle mounted in the upper end of the chute, an elevator for supplying grain to the chute, a spout positioned to carry grain from the elevator to the distributing baffle, means actuated by the elevator for vibrating the chute and screens, a grain bin positioned below the chute, and means for delivering grain from the lower screen to the grain bin.

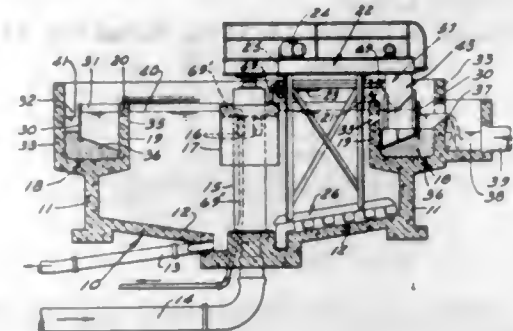
2,715,964

## GRANULAR BED FILTER

Warren S. Martin, Massapequa, N. Y.  
Application June 23, 1951, Serial No. 233,141  
11 Claims. (Cl. 210—128)

1. A filtering apparatus comprising a circular filter chamber, a circular wall suspended within said chamber

but spaced from the bottom thereof dividing said chamber into an influent channel and an effluent channel having concentric relationship, a bed of filter sand filling the lower parts of said chamber and the space under said wall, means for producing a differential head of liquid to cause a flow thereof through said sand filter bed from said influent channel to said effluent channel, means for progressively reconditioning said filter bed comprising a sand washer and a scraper travelling in an

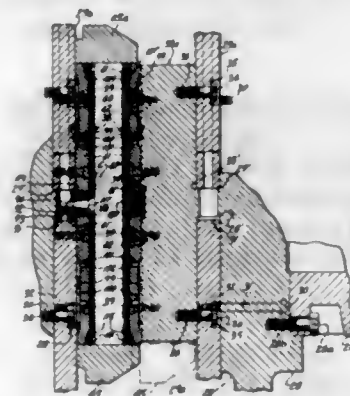


annular path over said chamber for continuously removing the top layer of sand and filtered material from the surface of said bed in said influent channel, said sand washer comprising means to wash the filter sand from said filtered material, depositing the washed sand in the effluent channel and discharging separately the said filtered material; and means correlative with said scraper for progressively shifting the sand of said filter bed from said effluent channel to maintain a uniform filter surface at said influent channel.

2,715,965

## PRESSURE FILTER

Fred S. Carver, Short Hills, N. J., assignor to Fred S. Carver, Inc., Summit, N. J., a corporation of New York  
Application October 4, 1950, Serial No. 188,371  
23 Claims. (Cl. 210—188)



4. A filtering element comprising a filter screen in the form of a piece of woven wire mesh having a rearwardly extending, obliquely flanged periphery, a perforated backing plate inside the filter screen and similarly flanged, a pressure plate having effluent passages there-through and a rearwardly beveled peripheral portion to receive the periphery of the screen and backing plate, a securing ring having its front face flush with the screen and its rear face beveled to fit about the flanged peripheries of the screen and backing plate, and means to secure the ring to the pressure plate.

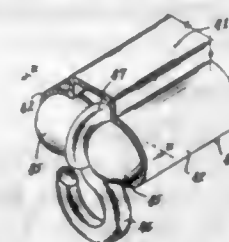
2,715,966

## REVOLVING BALL CONVEYOR AND SUPPORTING DEVICE

Max C. Tieck, Oroville, Calif.  
Application September 10, 1951, Serial No. 245,930  
1 Claim. (Cl. 211—94)

A device of the character described comprising an elongated channel-shaped housing having a longitudinal slot centrally located in the underside thereof, means for supporting said housing, trackways of semicircular

cross section forming the sides of said housing, pairs of balls of substantially the diameter of said trackways revolubly mounted therein, an eye member interposed between each of said pairs of balls, said pairs of balls

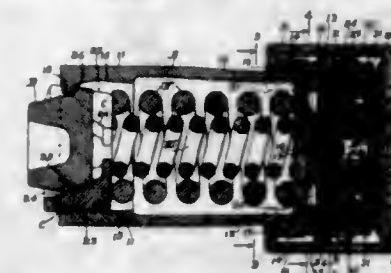


being laterally spaced apart less than the thickness of said eye member, said eye member having a circular opening adapted to receive portions of said balls, and a hook member depending from said eye member and extending through the slot.

2,715,967

## COMBINED FRICTION AND RUBBER SHOCK ABSORBING MECHANISMS FOR RAILWAY DRAFT RIGGINGS

Harry W. Mulcahy, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware  
Application August 8, 1952, Serial No. 303,388  
11 Claims. (Cl. 213—32)



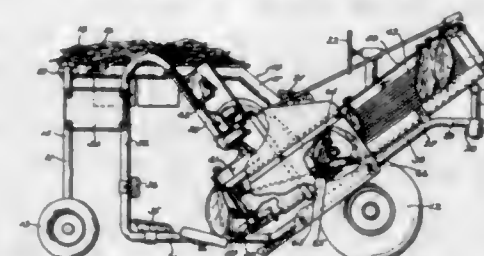
11. In a shock absorbing mechanism, the combination with a member open at its front end and having a transverse rear wall; of a transversely disposed friction plate in said member; yielding means interposed between and bearing on said friction plate and the rear wall of said member; a pair of friction elements within said member laterally slidable on said friction plate, said elements having opposed, lengthwise extending friction surfaces and transverse abutment faces thereon; friction blocks having lengthwise extending friction surfaces engaging with said friction surfaces of said elements; cushioning means interposed between and bearing on the rear ends of said blocks and said transverse abutment faces of said elements; a wedge member at the open end of said first named member movable lengthwise with respect to the same and engaged between said blocks to wedge the same laterally apart; and yielding means within said first named member at opposite sides thereof opposing lateral separation of said friction elements.

2,715,968

## TOBACCO HARVESTER

William E. Davis, Seven Springs, and Alton Scott and Oliver W. Scott, Southern Pines, N. C.; said Alton Scott and said Oliver W. Scott assignors to said William E. Davis

Application May 18, 1953, Serial No. 355,791  
23 Claims. (Cl. 214—5.5)



1. An apparatus adapted to be moved along a row of tobacco plants for the harvesting of the leaves thereof

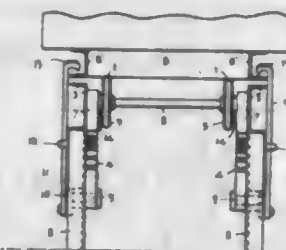
comprising: An engine for driving the apparatus, a mechanism for tying the leaves in bundles, a mechanism for moving the bundles upward to a position straddling a drying stick carried by said apparatus adjacent a raised platform constructed and arranged for temporarily storing a plurality of drying sticks carrying bundles of leaves and a leaf picker's seat mounted on said apparatus below said platform.

2,715,969

## APPARATUS FOR TRANSPORTATION OF FREIGHT

Olaf Christopher Olsen, Johnson County, Kans., assignor to Transport Equipment, Inc., a corporation of Maryland  
Substituted for application Serial No. 235,857, October 19, 1938. This application May 10, 1950, Serial No. 161,210

4 Claims. (Cl. 214—15)

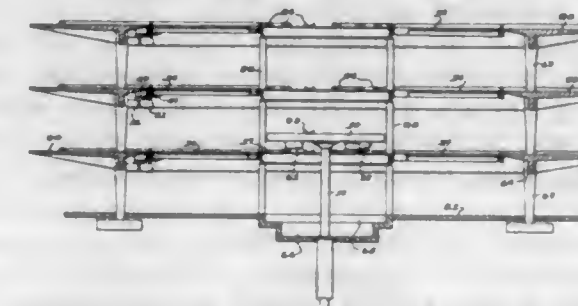


1. In apparatus for the transportation of freight, the combination of a container for the freight; a water vehicle; a platform in said vehicle; conveyor cables adapted to travel longitudinally of said platform to move said container to any desired point along said platform; means adapted to reciprocate said cables transversely of their direction of travel to cause said container to move into and out of contact with said platform; and clamping means operated by said reciprocating means and adapted to clamp said container upon said platform when said container is moved into contact with said platform.

2,715,970

## AUTO VEHICLE PARKING STRUCTURE

Guy C. Carr, Beaverton, Oreg.  
Application October 7, 1952, Serial No. 313,395  
1 Claim. (Cl. 214—16.1)

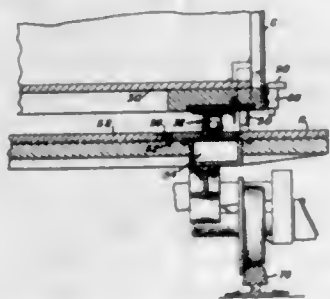


A motor vehicle parking structure, comprising an elevator platform provided with a recess in its upper surface, a turntable mounted in said recess, a vertically disposed shaft having its upper end connected to said elevator platform, a plurality of vertically disposed columns arranged in spaced parallel relation with respect to each other, a plurality of stationary circular floor members supported by said columns, horizontally disposed reinforcing beams extending between said columns and secured thereto, an annular platform arranged centrally within each of said floor members, a floor portion arranged below said platforms and floor members, said floor portion being provided with a well, there being a recess in the bottom of said floor portion below said well, a U-shaped guide channel secured to the upper surface of said turntable, a plurality of spaced apart guide channels secured to the upper surfaces of said annular platforms, a plurality of spaced guide channels secured to the upper surfaces of



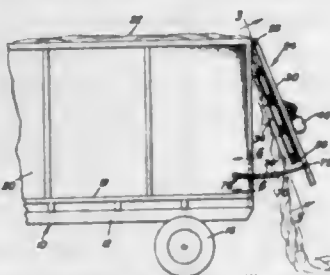
said floor members, said guide channels adapted to receive the wheels of a vehicle, said elevator platform having a circular channel member on its outer periphery, guide bars engaged by said circular channel member, webs for supporting said guide bars, a circular rail arranged in the recess in said elevator platform, rollers depending from said turntable and engaging said last named rail, a motor supported below said elevator platform, a first shaft driven by said motor, a second shaft arranged at right angles to said first shaft, worm gear means interconnecting said shafts together, a gear member secured to the undersurface of said turntable, intermeshing gears connecting said gear member to said second shaft, opposed circular channel members on the adjacent edges of said annular platform and floor members, a circular band depending from said annular platform, an endless chain arranged in engagement with said band, a sprocket having teeth arranged in engagement with said chain, a motor depending from said floor member for rotating said sprocket, a counterweight on the bottom of said elevator platform, and fences on the outer edges of said floor members.

**2,715,971**  
**APPARATUS FOR HANDLING FREIGHT**  
Charlie B. Cox, Tesnus, Tex.  
Application August 27, 1951, Serial No. 243,846  
11 Claims. (Cl. 214—38)



1. In an apparatus for handling freight, the combination of a vehicle having a platform provided with a set of tracks and with recesses intermediate the ends of said tracks, removable cover plates for said recesses having tack sections formed therein in continuous alignment with the tracks in the platform, a portable carrier removably positioned on said platform, wheels provided at the bottom of the carrier and engageable with said tracks, said wheels being receivable in said recesses when said cover plates are removed, and jack means between the carrier and the platform for raising the former above the latter to permit removal or replacement of said cover plates.

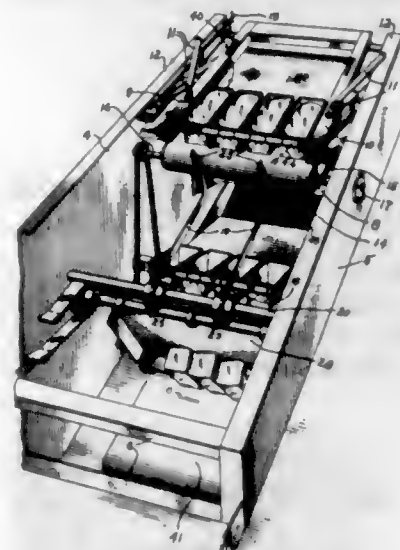
**2,715,972**  
**WAGON GATE UNLOADING ATTACHMENT**  
Joseph L. Grygiel, Krakow, Wis.  
Application June 15, 1953, Serial No. 361,552  
2 Claims. (Cl. 214—83)



1. A wagon gate having means for unloading loose farm produce from an associated wagon, said unloading means comprising a plurality of shafts rotatably mounted on an inner surface of said wagon gate, said shafts extending transversely of said wagon gate and having tines mounted thereon, drive means operatively connected to

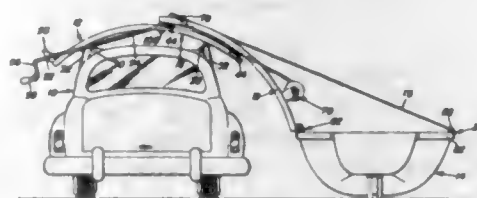
said shafts for rotating the same, said drive means including a prime mover mounted on an outer surface of said wagon gate, said wagon gate being provided with mounting hinges at an upper edge thereof, adjustable spacing members carried by said wagon gate retaining said wagon gate in an open position.

**2,715,973**  
**DEPANNING MACHINES**  
Robert N. Winfree, Lynchburg, and Richard Thomas Watts III, Roanoke, Va.  
Application March 10, 1951, Serial No. 214,913  
4 Claims. (Cl. 214—308)



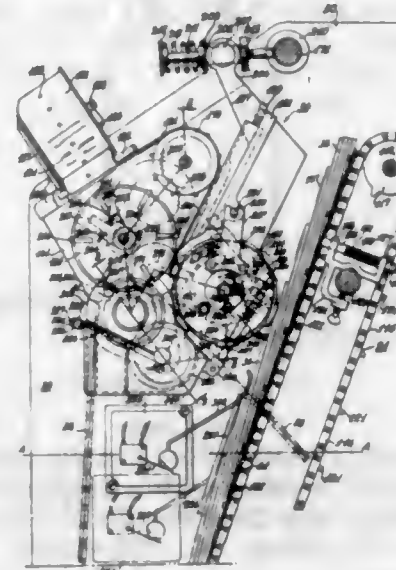
1. A depanning machine for bakery products particularly loaves of bread, comprising a frame, a shaft rotatably mounted in the frame, a pair of forked arms mounted to rotate with the shaft, the pans to be depanned being received between the pairs of arms, a tray pivotally mounted in the frame, and means for intermittently rotating the pair of forked arms through an arc of a circle and to rotate the tray in synchronized operative relationship whereby the tray will be moved adjacent the fork members to receive the bakery products which fall from the pans as the latter are swung through an arc of a circle in the fork members, one of the forked arms of each pair having an extension to hold the pans out from between the arms until the arms have moved to a receiving position.

**2,715,974**  
**ELEVATOR ATTACHMENT FOR VEHICLES**  
Albert K. Van Nest, La Mesa, Calif.  
Application January 6, 1953, Serial No. 329,780  
7 Claims. (Cl. 214—450)



1. An elevator for mounting a boat on a vehicle comprising a supporting frame, a trackway carried by said supporting frame, a carriage mounted on said trackway, means for securing a boat to said carriage, means for moving said carriage on said trackway, said first mentioned means including connectors for pivotally connecting one gunwale of a boat to one edge of said carriage, and means for rotating a boat to an inverted position overlying said carriage, said rotating means including a reel and a line, said line being adapted to be connected to a gunwale of a boat opposite said one gunwale.

**2,715,975**  
**LABEL APPLYING MACHINES**  
Ralph E. Doane, Chicago, and Wayne F. Ridenour, Oak Park, Ill., assignors to Cheshire Mailing Machines, Inc., Chicago, Ill., a corporation of Illinois  
Application August 23, 1950, Serial No. 181,044  
5 Claims. (Cl. 216—28)



1. In a machine for applying a label to an individual flat article such as a large magazine or the like, a feed shelf having said articles disposed thereon in substantially vertical position while resting on the lower edges thereof, means for moving said articles in a substantially vertical path in contiguous relationship with respect to each other along said feed shelf, means for conveying said articles away from said feed shelf in partial overlapping relationship with respect to each other, a label applying head for applying a label to each article whilst being conveyed past said label applying head in such partial overlapping relationship, and means driving said conveying means and label applying head in synchronism.

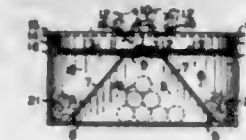
**2,715,976**  
**BREAKER STRIP ASSEMBLY**  
Harland W. Whitmore, Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York  
Application April 28, 1952, Serial No. 284,704  
2 Claims. (Cl. 220—9)



1. A heat insulated cabinet having walls comprising an outer shell member and an inner liner member with insulation therebetween, said cabinet having a front access opening into its interior, said shell and liner members each having coplanar edges surrounding said opening, the plane occupied by the edges of one of said members being parallel to but spaced rearwardly from the edges of the other of said members, the edges of said one member comprising a continuous flange extending toward the adjacent edge portions of said other member, relatively narrow clips carried by said flange in spaced relation, said clips including retainer portions spaced forwardly from the front surface of said flange and located substantially in the plane occupied by the edges of said other member, said other member having a channel opening away from said one member and located directly adjacent its said edges, a flexible resilient breaker strip having the characteristics of rubber spanning the space between the edges of said members, said strip being of U-shaped cross-section and having a flat web extending completely across the space between the edges of said members and legs at

the edges of said web engaging the opposite edge portions of said members, said legs having beads at the inner sides thereof spaced substantially from the free edge of said legs and located directly adjacent the web and receiving the forward edge of said channel and the retainer portions of said clips closely engaged between said bead and web.

**2,715,977**  
**CIGARETTE AND ASH SEPARATOR**  
Arvel D. Allman, Kansas City, Mo.  
Application July 28, 1952, Serial No. 301,339  
1 Claim. (Cl. 220—20.5)



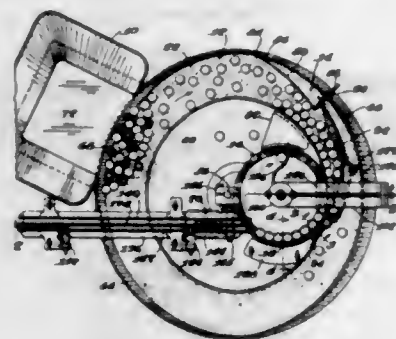
A cigarette and ash separator comprising a receptacle for cigarettes, said receptacle being horizontal and elongated with the top thereof being open so as to receive horizontal cigarettes, said receptacle for cigarettes having end walls, side walls and a bottom, a pair of ash receptacles, said ash receptacles being on opposite sides of said receptacle for cigarettes and continuous therefrom with the openings thereof being upward at least to the same plane of the opening of the receptacle for cigarettes, a pair of gates, said gates being plate members longitudinally extended over the opening of the receptacle for cigarettes and meeting substantially on the longitudinal center line of the opening for cigarettes, a pair of open mesh grates, said grates having the mesh openings smaller than the diameter of the cigarettes to be used, each of said grates being normally extended substantially over an opening of the receptacles for ashes, said gates being rigidly connected with said grates above the longitudinal side walls of said receptacle for cigarettes, a pair of U-shaped wires, one U-shaped wire being inverted and attached to an upward projection of each end wall of said receptacle for cigarettes, a plate extended upward from each end of each gate and extended around the outer periphery of the attached grate to form a flange, said plates having the upper ends thereof bent over horizontally with holes therein to engage the inverted U-shaped wires so as to hinge the gates on the inverted U-shaped wires to separate them along the center lines of the inverted U-shaped wires and the longitudinal center line of the opening of the receptacle for cigarettes whereby the grates may be manually lifted to admit cigarettes into the receptacle for cigarettes, or fall by gravity to suspend them from the U-shaped wires in a dependent position when the receptacles are emptied by inversion.

**2,715,978**  
**CLOSURE-HANDLING MACHINE**  
Walter S. Sterling, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts  
Application April 21, 1951, Serial No. 222,219  
13 Claims. (Cl. 221—160)

1. In a closure-handling machine, in combination, a hopper for containing a bulk supply of substantially cylindrical closures which are heavier at one end than at the other, frictional means for withdrawing and advancing closures at random from the bulk supply, means for guiding the closures into a single line, and orienting mechanism including a rotary disk having a beveled marginal edge mounted to rotate in a substantially horizontal plane, and a stationary supporting rail spaced from and concentric with said disk and between which successive randomly positioned closures in the line are presented, said disk

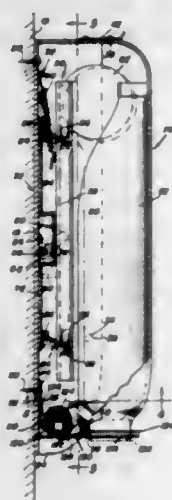


and said rail being positioned relative to each other to balance and support and further advance therebetween successive of those closures which assume a predetermined uniform position of equilibrium with the center of gravity of the closure disposed between said elements in a slightly outwardly tilted position with the heavier end at the bot-



tom, the relative position of said disk and rail being such as to cause the closures presented therebetween in other than said predetermined position with the center of gravity of the closure disposed beyond the edge of one of said elements to be overbalanced and rejected from the orienting mechanism.

**2,715,979**  
**DISPENSER FOR COLLAPSIBLE TUBES**  
Harry J. Leonard, Jr., Port Hope, Mich.  
Application May 22, 1952, Serial No. 289,296  
6 Claims. (Cl. 222-101)

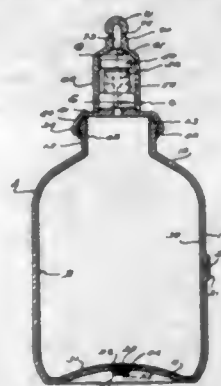


1. A dispenser for collapsible tubes comprising a tube holder, a ball carried within said tube holder for engagement with a collapsible tube, means for selectively urging said ball toward an adjacent collapsible tube for collapsing the same in order to dispense material formed therein, said means including an elongated guide for said ball, and actuating means carried by said tube holder in engagement with said guide for simultaneously moving said guide towards said ball for urging said ball into compressive engagement with a collapsible tube and longitudinally of the tube to roll the ball along the tube.

**2,715,980**  
**LIQUID HANDLING DISPENSER**  
Chester A. Frick, Glendale, Calif., assignor to  
Leo M. Harvey, Los Angeles, Calif.  
Application October 9, 1950, Serial No. 189,242  
9 Claims. (Cl. 222-183)

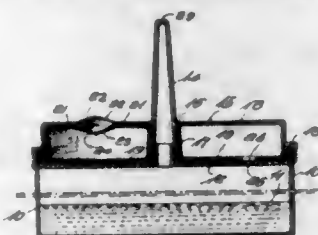
1. A container including, a deformable unitary case-like body with an air inlet port therein, a flexible liquid carrier in the body and having an outlet duct and adapted when expanded to fully conform to the interior of the body, a mounting carried by the body in fixed position thereon and closing the duct, a projection carried by the

mounting and rigid therewith and having an outlet port in communication with the duct, and an expansible sleeve



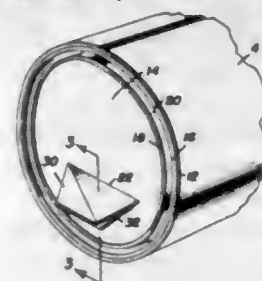
carried by the projection normally stopping flow through the port of the projection.

**2,715,981**  
**ATTACHMENT FOR DISPENSING CONTAINERS**  
Esber E. Moubayed, Washington, D. C.  
Application July 22, 1954, Serial No. 445,012  
1 Claim. (Cl. 222-209)



A device of the character described comprising, in combination with a liquid dispensing container including a top having an opening therein, an upwardly extending beaded edge and an upwardly extending spout, the provision of a hollow body of flexible material adapted to fit on said top within said beaded edge and having a passageway for the reception therethrough of said spout and an opening adapted to register with the opening in said top, and an air inlet valve in said body.

**2,715,982**  
**COVER WITH POURING SPOUT INCORPORATED THEREIN**  
Raymond D. Preston, Burlington, Vt., assignor of one-half to Philip D. Gould, Burlington, Vt.  
Application February 28, 1952, Serial No. 273,917  
2 Claims. (Cl. 222-541)



1. For use in conjunction with a paint can of a type having a lid supporting and retention annulus embodying a friction held lid keying channel spaced concentrically and inwardly from the body of the cap and joined by way of the usual connective web; a temporarily usable cover to be substituted for the original cover after the latter is removed comprising a lid which is an exact replica of said original lid, the latter embodying the usual flat discoidal lid portion and usual marginally arranged annular keying rib and also embodying an improvement; namely, T-shaped slit means embodying a first linearly straight slit and a second linearly straight slit joined at one end with the central portion of said first slit, said first slit being twice the length of the second slit and said slits being at right angles to each other and cooperating in

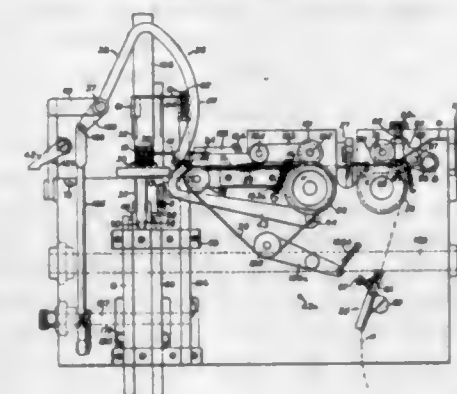
defining a pair of triangular tabs, the latter, at the time of manufacture and sale being flat and coplanar with said lid portion, and when pried open and bent out for use, providing a pouring spout.

**2,715,983**  
**TOOL FOR TURNING CORDING**  
Elaine J. Fraser, Sun Valley, Calif.  
Application August 12, 1952, Serial No. 303,971  
2 Claims. (Cl. 223-42)



1. A cording tool having all parts thereof in fixed relationship and comprising a relatively long thin wire shaft adapted to be passed within the stitched fold of a piece of material for turning said fold inside out, said shaft having a hand grip and having a continuous size and form from said hand grip through the end opposite therefrom, a fold turning head at an end remote from the hand grip comprising a section of the shaft continuous with the shaft, said head having a cross-sectional shape and size smaller than the cross-sectional shape and size of the shaft, said section having an unbroken uniform exterior and being turned back to a position overlying itself for a distance slightly less than one-half its length leaving a gap between the free end of said section and the shaft for reception of an edge of the material, the turned over outer end of said section having the form of a uniformly round continuous curve tangent at ends thereof with adjacent sides of the shaft, the overlying portions of said section being spaced one from another forming parallel walls of a continuously open narrow slit adapted to hold said material during a turning operation, said slit being partially filled with solid material throughout a distance in excess of twice the diameter at the closed end forming a substantially flat bottom for the slit and removed from the outermost end of the head.

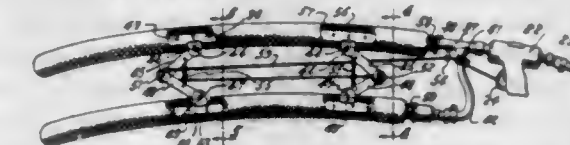
**2,715,984**  
**METHOD AND APPARATUS FOR THREADING BUCKLES**  
Louis Brownstein, Brooklyn, N. Y., assignor to Nasan Metal Products, Inc., New York, N. Y.  
Application August 6, 1954, Serial No. 448,293  
21 Claims. (Cl. 223-49)



2. In an apparatus for threading a flexible tape through and into engagement with a buckle having a rear slot, an intermediate slot and a front slot, the combination of a threading platform for operatively supporting said buckle, tape feeding means moving towards said platform along a predetermined feed line, said platform being above the foremost portion of said

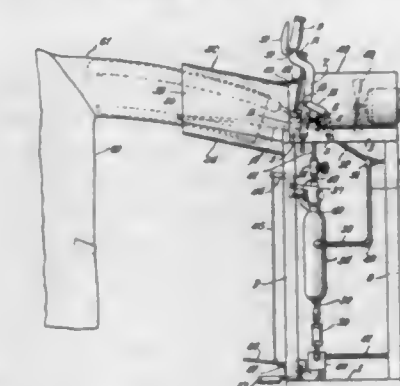
feed line, a movable rear pusher blade normally in an operatively retracted limiting position below said platform and below the rear slot of said buckle when operatively disposed thereon, and positioned for movement upwardly through said rear slot into an operatively raised limiting position, a movable intermediate pusher blade normally in an operatively retracted limiting position above said platform and above the intermediate slot of said buckle, and positioned for movement downwardly through said intermediate slot into an operatively lowered limiting position, a movable front pusher blade normally in an operatively retracted limiting position below said platform and below the front slot of said buckle, and positioned for movement upwardly through said front slot into an operatively raised limiting position, means to move said pusher blades between their respective limiting positions, an underfolder movable between a retracted position behind said platform and remote from said feed line forwardly across said feed line to a projected position in front of said platform, and means to operatively actuate said underfolder.

**2,715,985**  
**SLEEVE PUFFING APPARATUS**  
James E. Holliman and Roy D. Brooks, Henderson, Tex., assignors of one-third to J. A. Rountree, Henderson, Tex.  
Application February 5, 1953, Serial No. 335,362  
4 Claims. (Cl. 223-73)



1. A portable device for finishing tubular portions of garments comprising a pair of substantially parallel elongate conduits; spaced apart pairs of relatively pivoted links connecting said conduits for movement toward and away from one another; means connected between the links of each pair for biasing said conduits toward one another; a steam bag embracing each of said conduits, said conduits each having a plurality of perforations whereby said steam bags are expansible by steam escaping through said perforations; a steam valve connected to said conduits for admitting steam to said conduits having an operating lever; and means connected to said operating lever and to said connecting means whereby said perforated conduits are moved away from each other when steam is admitted thereto by said steam valve; said steam bags being expansible by steam flowing from said conduit through said perforations.

**2,715,986**  
**GARMENT PRESSING DEVICE**  
William Ebner, Chicago, Ill.  
Application December 31, 1953, Serial No. 401,549  
7 Claims. (Cl. 223-73)



1. A garment pressing device comprising a frame, a pair of relatively movable pressing elements carried by

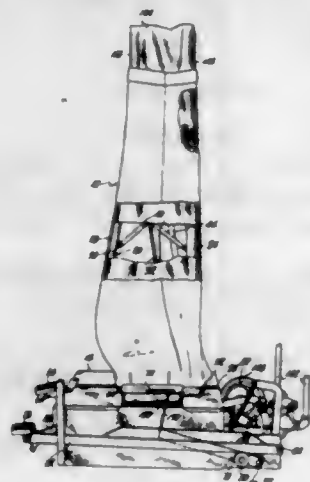


said frame for holding a portion of a garment to be pressed, means carried by said frame and connected to one of said elements for laterally spacing said elements relative to each other to apply tension to the portion of the garment carried by said elements, means connected to one of said pressing elements for applying a moistening fluid to the portion of the garment held by said elements, hood means carried by said frame loosely embracing a portion of the pressing elements, and means carried by said frame for passing air through said hood means to remove fluid from the vicinity of the portion of the garment carried by said elements.

2,715,987

# **PANTS CONDITIONER FOR DRY CLEANING AND LAUNDRY PLANTS**

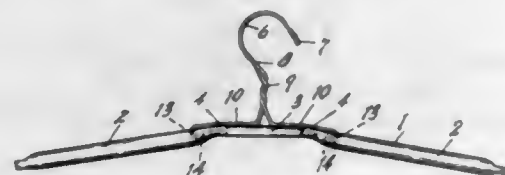
Cecil Monroe Elrod, Carlsbad, N. Mex.

Application March 27, 1952, Serial No. 278,938  
11 Claims. (Cl. 223—74)

1. In a pants stretcher, a support; a pants leg stretching section having a pair of members, intercoupled for relative movement toward and away from each other; shiftable structure interconnecting the support and the members for moving the latter relatively away from each other; means connecting the section with the support for movement of the section as a unit relative to the support; and shiftable control apparatus interconnecting the support and the section for moving the latter.

2,715,988

# **GARMENT HANGER**

Bernard Hellman, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.  
Application March 7, 1952, Serial No. 275,399  
4 Claims. (Cl. 223—92)

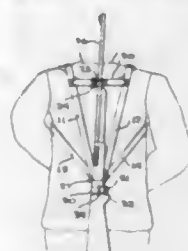
4. In a garment hanger, the combination of a supporting yoke, and a suspending hook, said yoke being of fibrous material and having downwardly diverging garment supporting arms and an apex portion integrally and angularly joined to said arms, said suspending hook being formed of wire and having oppositely projecting arms seatingly disposed upon the upper wall of the yoke at the apex thereof and upon the upper wall of the portion of the yoke extending longitudinally of the arms outwardly beyond the angles at the junctures of the downwardly diverging yoke arms with the apex portion, the yoke having apertures therein spaced longitudinally of the yoke outwardly beyond said juncture angles, said suspending hook arms terminating in downwardly projecting

prongs disposed through said apertures, the end portions of the prongs being clamped on the under wall of the yoke to coact with the said suspending hook arms to reinforce the yoke longitudinally thereof across said juncture angles thereof.

2,715,989

# **SHOULDER HARNESS**

Arne V. Sjödin, Minneapolis, and Gerald T. Melby, Robbinsdale, Minn.

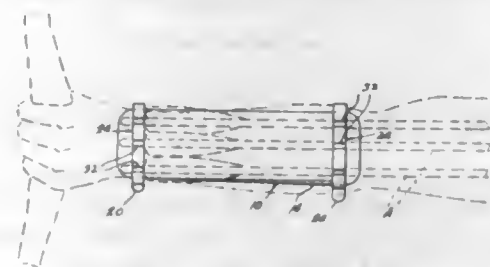
Application May 2, 1952, Serial No. 285,602  
1 Claim. (Cl. 224—1)

A gun sling comprising a gun stock-embracing strap, a pair of suspension straps arranged in divergent relation and having the converging ends attached to said stock-embracing strap, a cross strap extending between and attached to said suspension straps inwardly of and adjacent to the divergent ends thereof, a retaining strap positioned outwardly of each of said suspension straps and having one end attached to said stock-embracing strap at the location of attachment of the converging ends of said suspension straps, and means for releasably connecting the other end of each retaining strap to the divergent end of the adjacent one of said suspension straps, and a gun barrel-engaging loop strap carried by said cross strap in axial alignment with said gun stock-embracing strap, said gun stock-embracing strap having means at one end thereof for releasably securing the strap as a loop about the stock of a gun to be carried.

2,715,990

# **COMBINED QUIVER AND ARM GUARD**

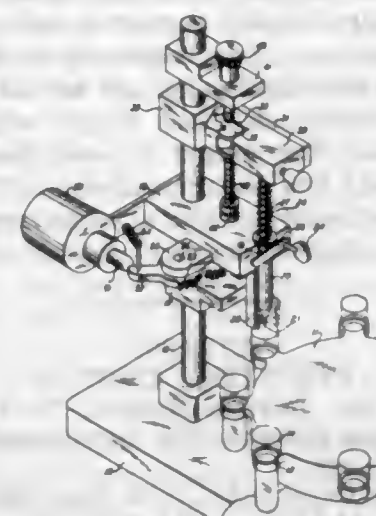
Thomas W. Austin, Sanford, Mich.

Application August 15, 1952, Serial No. 304,490  
1 Claim. (Cl. 224—28)

A quiver comprising a plurality of spring clips each of which is of inverted U-shape with the legs thereof bowed outwardly to embrace, between said legs, the forearm of a user; an elongated, wide member extending between the clips, one leg of the clips crossing the respective ends of said member, said member being connected at its ends to the crossing legs of the clips at a plurality of locations spaced longitudinally of said crossing legs to fixedly connect each clip to said member against movement relative to the member and relative to each other; and arrow holders each arranged longitudinally of and fixedly secured to the other legs of the respective clips so as to extend transversely of the forearm at locations spaced longitudinally of the forearm, each of said holders being curved in the direction of its length correspondingly to the curvature of the leg on which it is mounted, each holder having a longitudinal series of arrow-receiving recesses, the recesses of one holder being aligned along lines extending between the clips with the corresponding recesses of the other holder.

2,715,991

# **MATERIAL DISPENSING APPARATUS**

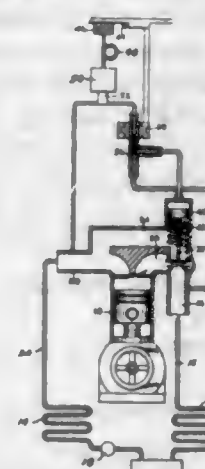
Gerard A. Frank, Allentown, and John J. Fry, Bethlehem, Pa., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application January 30, 1952, Serial No. 268,992  
1 Claim. (Cl. 226—96)

A material dispensing apparatus comprising a turret having holders to removably support articles driven intermittently to successively position the articles at a receiving position, an element mounted at a fixed position adjacent the receiving position, a hypodermic syringe having a cylindrical receptacle open at the top end for material and a plunger and having a hollow needle at the lower end, means to mount the hypodermic syringe on the element above and in alignment with the receiving position, and means to move the plunger in the receptacle like distances intermittently to force like quantities of the material therefrom through the hollow needle and into the successive articles, and means carried by the element and actuable when the receptacle of the hypodermic syringe is empty of the material to stop driving of the turret.

2,715,992

# **COMPRESSOR UNLOADER**

Robert W. Wilson, Dayton, Ohio

Application June 26, 1951, Serial No. 233,615  
4 Claims. (Cl. 230—31)

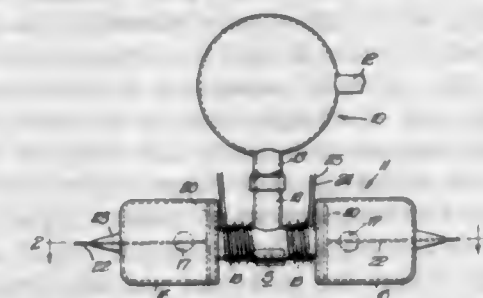
1. In combination with a compressor having a low pressure suction inlet and a relatively high pressure outlet, means forming a compressor unloading bypass between said inlet and said outlet, a valve for controlling the flow through said bypass and for shutting off the flow through said outlet, means for controlling the operation of said valve including a pressure responsive device, means for connecting said pressure responsive device to said suction inlet, a check valve in said last named means for checking the flow from said inlet to said pressure responsive device, and means forming a restricted passage at all times providing a passage between said compressor inlet and said pressure responsive device even when said check valve is closed.

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2,715,993

# **IONIZATION PUMP**

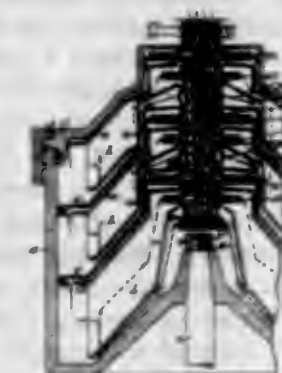
Jerome R. Batina, Chicago, Ill., assignor to W. M. Welch Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application June 6, 1952, Serial No. 292,213  
5 Claims. (Cl. 230—69)

1. An ionization vacuum pump comprising a casing defining a sealed, air-tight pumping chamber, which chamber has a gas intake opening adapted to be connected to a space to be evacuated and a gas discharge opening to the exterior of said casing, a pair of spaced electrodes mounted in said chamber at opposite ends of a path of electron flow therethrough, conductors connected to said electrodes and extending through said casing in sealed relation thereto, which conductors are adapted to connect said electrodes with terminals of an external voltage source and thereby cause ionization of molecules in said chamber by electron flow along said path, followed by attraction of ionized particles to one of the electrodes and electrical discharge thereof, and an independent source of emission of radioactive particles located between said electrodes, said source being sufficiently closely adjacent said electron flow path to supplement the ionization in said chamber created by said electrodes, which independent source becomes the predominant source of ionization under an extremely high degree of evacuation of said chamber.

2,715,994

# **COUNTERCURRENT EXTRACTION CENTRIFUGES**

Peter Steinacker, Oelde, Westphalia, Germany  
Application November 22, 1949, Serial No. 128,770  
In Germany October 6, 1948Public Law 619, August 23, 1954  
Patent expires October 6, 1968  
9 Claims. (Cl. 233—15)

1. In a multiple-stage countercurrent centrifuge of the type having within one centrifugal bowl partition means defining at least three centrifugal stages consecutively positioned along the axis of rotation of the bowl, including a last, at least one intermediate, and one first stage, and providing means for admitting one of two liquids of different specific gravities to said first stage and the other to said last stage, and means for passing such liquids countercurrent to each other to each said stage for passage through all said stages, entering each stage as a mixture and leaving each stage in centrifugally separated fractions, the improvement which comprises means defining discharge inlets in the lower outer portion of each of said stages, means defining separated fraction outlets



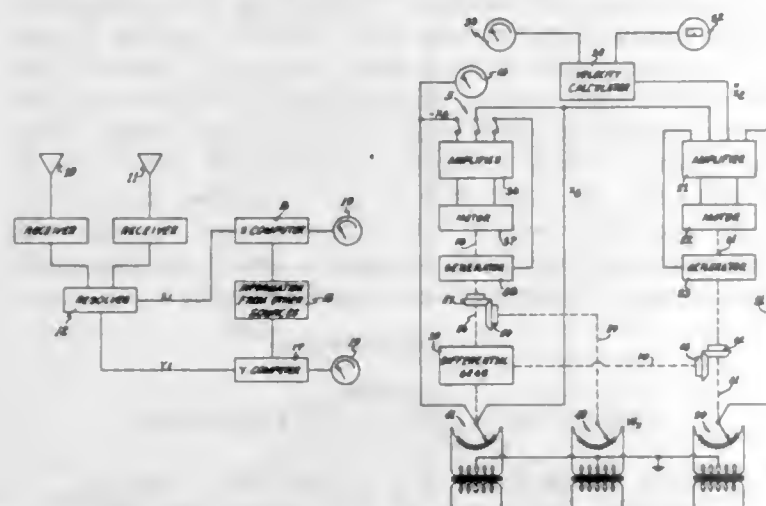
for specifically lighter and specifically heavier fractions in the upper, inner portion of each of said stages, conduit means for passing a liquid fraction into said centrifuge to said discharge inlet of said first stage, conduit means for passing a liquid fraction into said centrifuge to said discharge inlet of said last stage, a discharge conduit connected to one of said separated fraction outlets in said last stage, discharge means connected to the other separated fraction outlet in said first stage, conduit means connecting one of said separated fraction outlets in each stage to said discharge inlet of the next preceding stage, conduit means connecting the other of said separated fraction outlets in each stage to the discharge inlet of the next subsequent stage, means defining within each of said first, intermediate, and last stages, a passage for liquid travel between said inlet and said outlets therein, the passage defined within at least one of said first and last stages being of greater cubic content than the passage in said intermediate stage.

2,715,995

## AUTOMATIC TRACKING APPARATUS

Walter H. Winkler, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application July 19, 1950, Serial No. 174,697  
6 Claims. (Cl. 235—61)



1. Apparatus for computing the position of a moving body relative to a pair of reference axes comprising, radiant energy receiving means carried on said body and receiving energy from transmitters located at known geographic positions, a resolver receiving an output from said receiving means and resolving it into a pair of coordinate signals representing the coordinates of the body with respect to a reference system on the ground, angle and velocity measuring means carried on said body, an x computer receiving one of said coordinate signals and a first velocity signal from said angle and velocity measuring means, a y computer receiving the other of said coordinate signals and a second velocity signal from the angle and velocity measuring means, and said x and y computers computing derived coordinate signals indicating the position of the body by selecting the low frequency components of said derived coordinate signals from said coordinate signals and by selecting the high frequency components of said derived coordinate signals from said velocity signals.

5. In a system for tracking by dead reckoning the position of a moving aircraft which carries flight instruments and a velocity calculator for translating signals from the flight instruments into x and y components of air velocity during a period when no radio position information is available and immediately following a period when radio information has been available, an x-computer comprising, a first servomotor mechanically connected to a first rate generator and receiving an electrical feedback therefrom, a first potentiometer mechan-

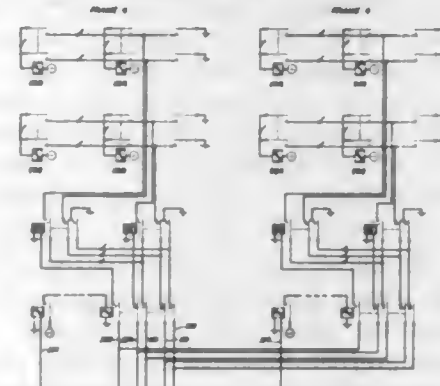
ically connected to said first motor and furnishing an electrical feedback thereto, a second servomotor mechanically connected to a second rate generator and receiving an electrical feedback therefrom, a differential gear train mechanically connected to the second motor by means of a first shaft, a second potentiometer connected to said differential gear train by means of a second shaft and supplying a first electrical output to said second motor, said differential gear train connected to the first motor by means of a third shaft, and said second potentiometer supplying a second electrical output which is out of phase with said first output to said first and second motors, and said first motor receiving a signal from the resolver proportional to the x component of velocity relative to the surrounding air.

2,715,996

## COUNTING CIRCUIT

Robert C. Avery, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, a corporation of New York

Application October 22, 1953, Serial No. 387,581  
11 Claims. (Cl. 235—61)



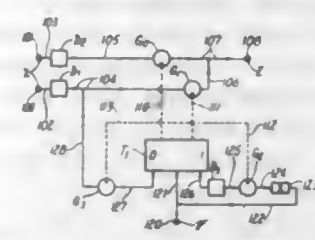
1. An arrangement for counting the number of a group of objects on which a predetermined condition may exist at random comprising a corresponding group of relays responsive to said predetermined condition, means for simultaneously connecting said relays to said objects to operate the relays corresponding to the objects on which said predetermined condition exists, contacts controlled by said relays and chain circuits interconnecting all of said relays in a series arrangement, a primary locking circuit for the serially first one of said operated relays, a secondary locking circuit for the serially second one of said operated relays, said locking circuits including portions of said chain circuits, means under the control of said connecting means to close said locking circuits and disconnect said relays from said objects, timing means, means under the control of said timing means to alternately open and close said primary locking circuit and said secondary locking circuit to release the operated ones of said relays one at a time, counting means, and means responsive to the release of each operated relay to operate said counting means.

2,715,997

## BINARY ADDERS

Charles M. Hill, Alameda County, Calif., assignor to Marchant Research, Inc., a corporation of California

Application December 28, 1953, Serial No. 400,522  
15 Claims. (Cl. 235—61)



1. In an adder for combining two operands, the combination of: a first input circuit including a first lead

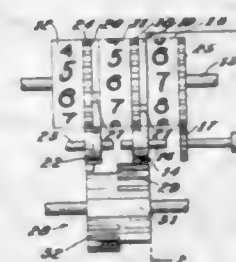
and a second lead; means for applying a first pulse sequence, representative of a first operand, to the first input circuit, a pulse on the first or second lead during any of a series of predetermined intervals representing a first or second value, respectively, in said first pulse sequence; a second input circuit; means for applying a second pulse sequence, representative of a second operand, to the second input circuit; an output circuit; conditional circuits for operatively connecting said first and second leads to the output circuit under predetermined conditions of said conditional circuits to thereby apply to the output circuit a third pulse sequence which represents the arithmetic sum of the first and second operands; and means including a part of the second input circuit, and operable in response to the second operand pulse sequence, for establishing said predetermined conditions in said conditional circuits.

2,715,998

## MECHANICAL COUNTER LIMITING DEVICE

Lamont C. Stanley, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application October 24, 1951, Serial No. 252,845  
6 Claims. (Cl. 235—117)





2,716,001

**COOLING SYSTEM FOR VEHICLE ENGINES**  
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany

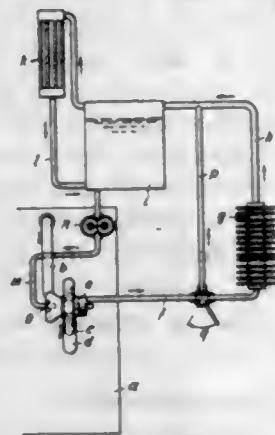
Application March 29, 1951, Serial No. 218,133

In Germany February 4, 1950

Public Law 619, August 23, 1954

Patent expires February 4, 1970

7 Claims. (Cl. 237-12.3)



1. In a radiator free liquid cooling system for a vehicle internal combustion engine having a closed in cooling liquid jacket, and a cooling circulation device, the improvement comprising a cooling liquid pump, a line leading to the pump and connecting the cooling liquid jacket directly with the pump, another line leading to the cooling liquid jacket connecting the pump directly with the cooling liquid jacket, said cooling liquid being circulated by said pump under high pressure from the cooling liquid jacket through said lines and said pump back to the cooling liquid jacket, means for separating steam in the pump, a heater for the vehicle connected in parallel to the aforesaid cooling circulation device, means to condense the steam, means for conducting the steam from the pump to the heater, and means for returning the steam used for this purpose as condensate to the cooling circulation device.

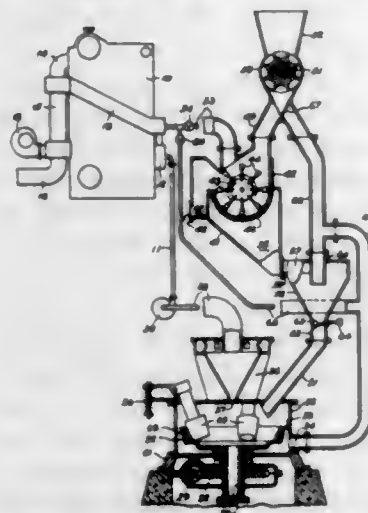
2,716,002

**PLURAL STAGE COMMUNITION SYSTEM FOR WET SOLID MATERIALS**

Ollison Craig, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application October 18, 1950, Serial No. 190,715

3 Claims. (Cl. 241-43)



1. Apparatus for comminuting wet, raw coal comprising a mill having revoluble crushing hammers and having an arcuate sifting grid situated therebelow, the said mill being of the type which subjects the coal to violent agitation, means to feed the coal into the path of the hammers, means to direct hot gas into the path of the hammers so that the coal will be simultaneously crushed and dried, a separator, close-coupled means to lead the

gas and the dry crushed coal substantially by gravity to the separator so that the coal will be separated from the gas, a pulverizer adapted to grind coal to a fine powder, the pulverizer having an entrance for coal to be ground and a separate entrance for gas to entrain the fine powder, the pulverizer being of the type which subjects the coal to very fine comminution, means to lead the crushed coal from the separator to the coal entrance of the pulverizer, means to lead the gas from the separator to the gas entrance of the pulverizer whereby the same gas which passes through the hammers also passes through the pulverizer, and means for applying additional hot gas to the gas in the said last-named means.

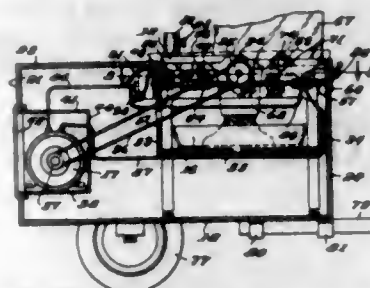
2,716,003

**ICE SHAVING MACHINE**

Fred Barringer, Mooresville, N. C.

Application October 2, 1951, Serial No. 249,266

1 Claim. (Cl. 241-100)



An ice shaving machine comprising a housing mounted on wheels, a stationary platform positioned in said housing, a vertically movable platform positioned in said housing and spaced from the stationary platform providing a space between said platforms, a rotary cutter positioned in the space between the platforms, an ice receiving tray positioned below the cutter, means for adjusting the elevation of the movable platform, and means for actuating the cutter, cam rollers mounted in said housing and supporting said vertically movable platform, said cam rollers being adjustable by hand cranks through worms and gears whereby the elevation of said platform is adjusted, arms extended from the vertically movable platform and said rotary cutter being journaled in said arms whereby the movable platform and rotary cutter are adjustable in relation to the stationary platform.

2,716,004

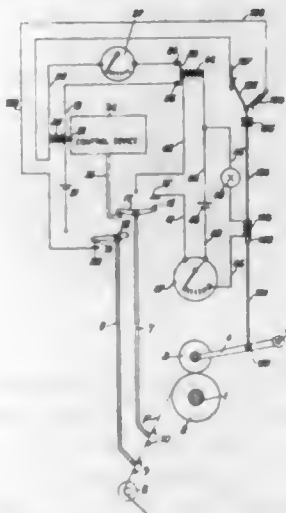
**CONTROL APPARATUS FOR COIL WINDING MACHINES**

Walter Reiners, Waldniel, and Stefan Fürst, Munich-Gladbach, Germany; said Fürst assignor to said Reiners

Application May 22, 1951, Serial No. 227,554

Claims priority, application Germany May 23, 1950

5 Claims. (Cl. 242-37)



1. In an automatic coil winding machine, the combination of means for winding a thread, a feeler engage-

able with the thread and responsive to thread faults, a counting device connected with said feeler to count the number of faults and having control means responsive to a predetermined limit value of said number, and stop-motion means connected with said control means to be controlled thereby for stopping said winding means.

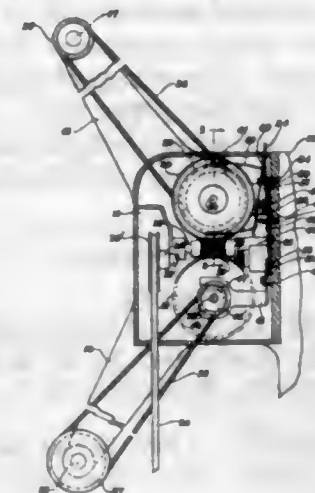
2,716,005

**REEL DRIVING MECHANISM FOR MOTION-PICTURE PROJECTORS**

Lee T. Askren and Henry N. Fairbanks, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 30, 1953, Serial No. 352,224

8 Claims. (Cl. 242-55)



1. In a motion-picture projector the combination with a rotatable supply spindle for receiving a supply reel of film, of means for selectively driving said spindle in one direction at different speeds and at different torques for reverse and rewind purposes and freeing the spindle for rotation in the other direction for forward projection and comprising a drive shaft, means for selectively driving said shaft in one direction for rewind and forward projection and in the other direction for reverse projection, a planetary gearing coaxial with said drive shaft and including a sun gear fixed to said shaft, a planet carrier coaxial with and rotatable relative to said shaft, a planet gear rotatably mounted on said carrier and engaging said sun gear, an internal gear rotatably mounted on said shaft and engaging said planet gear, a pulley rotatably and slidably mounted on said shaft, a belt connecting said pulley with said rewind spindle, means for selectively sliding said pulley between a rewind position and a reverse position, means for clutching said pulley to said shaft when it is moved to its rewind position, means for clutching said pulley to said internal gear when it is moved to its reverse position, and means for selectively braking said planet carrier when the shaft is rotating in the direction for reverse operation so that the planet gears drive the pulley at reduced speed and for freeing said planet carrier when said shaft is rotating in the opposite direction for forward projection so that the planetary gearing idles and does not drive the pulley.

2,716,006

**BOLT CLOTH WINDING DEVICE**

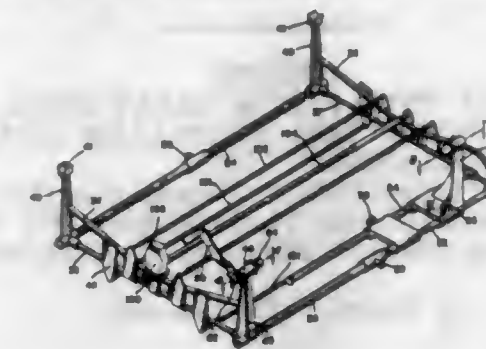
Malcolm L. Maitland, Seattle, Wash.

Application February 9, 1953, Serial No. 335,663

8 Claims. (Cl. 242-62)

1. A winding device for bolt cloth, comprising: a horizontal rack having a series of telescopic rods forming the longitudinal members of said rack whereby the rack may be shortened and lengthened according to the width of the cloth to be wound, some of said rods forming guides and tensioning means for the cloth; means for rotatably supporting a bolt to be wound at one side of said rack; a fixed arbor in one corner bor-

dering the other side of the rack, said fixed arbor having a rotatable chuck and a hand crank for rotating the same; an arbor, movable along said other side of said rack mounted on a base, said base being adjustably positioned on a portion of a first of said telescopic rods which is movable in relation to said fixed arbor,



a portion of said first telescopic rod which is fixed in relation to said fixed arbor having a lateral arm and a rod supported by said lateral arm and running parallel to said first rod through said base forming additional support therefor, said movable arbor having a rotatable spindle to cooperate with said chuck to hold the roll on which said cloth is rewound.

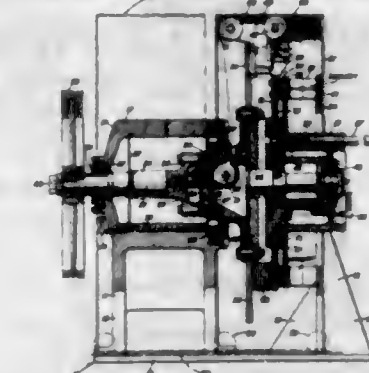
2,716,007

**APPARATUS FOR COILING WIRE**

Roger M. Scott, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application November 17, 1951, Serial No. 256,944

11 Claims. (Cl. 242-78)



1. Apparatus for coiling wire, comprising: a main body member, a spider rotatably mounted on said main body member, a block rotatably mounted on said spider, a restraining member adjacent said block, and magnetic means associated with said block and said restraining member to restrain their rotation relative to each other.

2,716,008

**PACKAGE OF FLEXIBLE MATERIAL**

Walter P. Taylor, Jr., New York, N. Y.

Application March 26, 1953, Serial No. 344,872

10 Claims. (Cl. 242-159)



1. A package of flexible material having an annular core space around which the material is wound in a body and an opening into such core space through the body of the package, a guide member secured in said opening through which the inner free end of the material



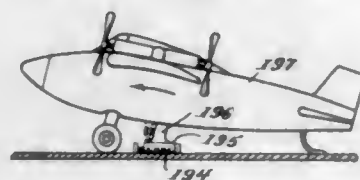
may be drawn out, said guide having a part providing an annular guiding surface within the core space, the line connecting such surface to the opening forming an angle of about 15° to 25° with the radius of the core space through such opening and lying on the side of such radius on which the material is wound last.

2,716,009

# AIRCRAFT WITH FLOOR BRAKE SHOE AND INTERCONNECTED PROPELLER REVERSING MECHANISM

Harry Herbert Hoke, Jr., Washington, D. C.  
Original application May 19, 1952, Serial No. 288,610.  
Divided and this application May 28, 1954, Serial No. 433,000

3 Claims. (Cl. 244—81)



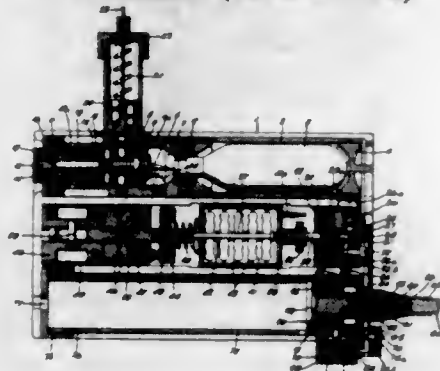
1. In combination with an aircraft having reversible propeller driving units mounted thereon, a landing surface engaging brake shoe carried by the aircraft, means for powering the propeller driving units, and means actuated by said brake shoe for reversing the direction of rotations of the propeller driving units to impart a back pull to the aircraft in addition to that imposed by the friction of the brake shoe on the landing surface.

2,716,010

# ANEROID BAROMETRIC PARACHUTE RELEASE

John A. Gaylord, Pacific Palisades, Calif.  
Application December 28, 1953, Serial No. 400,516

8 Claims. (Cl. 244—150)



1. A parachute release comprising, an air bottle, mechanism for piercing said air bottle, an air passage for air from the pierced bottle to a pneumatic piston, means for attaching a parachute release wire to said piston, valve means in said passage, a vacuum bellows for opening said valve at a predetermined atmospheric pressure, said vacuum bellows including a casing having a plurality of bellows members mounted therein, a shaft attached to said bellows members, adjusting means for mounting said shaft, an adjusting nut on said shaft, and a spring between said nut and the case of said vacuum bellows.

2,716,011

# VIBRATION DAMPING DEVICES

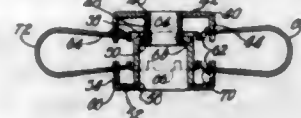
Lawrence E. Steimen, Topsfield, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application August 4, 1951, Serial No. 240,379

2 Claims. (Cl. 248—24)

1. A vibration damping mount for machines comprising a platform and a base having flanges extending toward each other, each of the flanges having spaced projections with the projections on the platform in vertical alignment with the projections on the base, looped springs

positioned between the platform and base with end portions of the springs positioned in the spaces between the projections, sleeves on the platform and base projecting toward each other and positioned one within the other, and interengaging flanges on the sleeves for limiting movement of the platform outwardly of the base under forces exerted by the springs.



2. A mount for machines comprising a platform and a base having flanges extending toward each other, each of the flanges having spaced projections with the projections on the platform in vertical alignment with the projections on the base, looped springs positioned between the platform and the base with end portions of the springs located in the spaces between the projections, and additional springs positioned between the platform and the base with the end portions of each spring extending over two of the aligned projections.

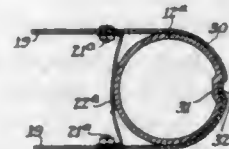
2,716,012

# ADJUSTING AND HOLDING DEVICE

Arthur B. Simmons, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 11, 1949, Serial No. 92,600

6 Claims. (Cl. 248—125)



5. A device for supporting a member adjustably on a standard comprising, in combination, a pair of resilient arms extending in parallel relation from diametrically opposite points of said standard, a portion of said device connecting the ends of said arms adjacent said points and engaging the periphery of said standard between said ends, a bowed, tensioned, resilient element connecting said arms and having the concave side thereof toward said standard and engaging a part of said standard opposite that engaged by said portion and cooperating with the latter to grip said standard to retain the device frictionally in adjusted position on said standard, said arms being movable toward each other to bow said element further and to increase the tension thereof, said further bowing serving to move said element out of contact with said standard to free said device for adjustment relative to said standard, upon release of said arms said tensioned element returns the arms to their initial position and also moves said element into engagement with said standard to cooperate with said portion to retain the device in adjusted position on said standard, and cooperating means on said standard and device to prevent turning of the latter relative to said standard.

2,716,013

# FLEXIBLE VALVE STRUCTURE

Theodore B. Tinker, New York, N. Y.

Original application November 24, 1948, Serial No. 61,828. Divided and this application May 27, 1950, Serial No. 164,819

1 Claim. (Cl. 251—4)

A valve structure comprising a tubular conduit of elastic and pliable material for connection with a chamber to fill same with a fluid and provided with an end portion adapted to be normally folded upon itself to thereby provide a bight portion intermediate said end portion and the remainder of said conduit, said bight portion having

an outer surface, and an element of elastic material preformed and dimensioned to inherently contract and compress said conduit material at said bight portion, said element having an inner surface bonded solely to said



outer surface of said bight portion, whereby said conduit is normally closed to passage of fluid at said bight portion and is open for such passage of fluid by substantially separating the folded end portion of said conduit from said remainder of the latter against the force of contraction of said element.

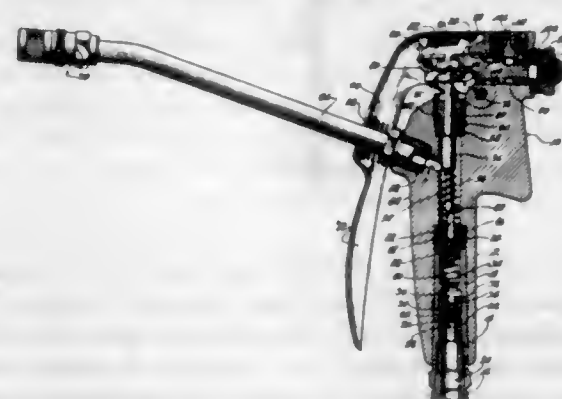
2,716,014

# CONTROL VALVE FOR LUBRICATING APPARATUS

Henry T. Dinkelkamp, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application December 21, 1950, Serial No. 201,911

2 Claims. (Cl. 251—64)



1. A hand valve for passing fluid either in discrete charges or in a continuous flow, comprising, in combination, a valve body defining a passageway therethrough, a reciprocable member for controlling the flow of fluid through the passageway, a fulcrum member slidably mounted in the valve body near the outer end of the control member for movement forward and away from the latter, the fulcrum member defining an anchor ledge at one side of the control member, an operating lever pivoted to the valve body and shaped to have a portion thereof on the side of the control member opposite from the anchor ledge movable away from the latter as an incident to opening movement of the lever, a transverse pivot member mounted in said lever portion, a rocker member extending transversely across the outer end of the control member and having one end adapted for slidable engagement with the anchor ledge, means on the rocker member defining an elongated guide slidably engageable with the pivot member and an abutment at the end of the guide remote from the anchor ledge positioned for engagement with the pivot member, a spring interconnected with the rocker member for urging the latter toward the fulcrum member to an extent limited by engagement of the abutment with the pivot member, the rocker member being effective to transmit opening movement of the operating lever to the control member until the rocker member is pulled off the anchor ledge by the pivot member acting on the rocker member abutment, the rocker member and the fulcrum member being shaped to return the rocker member to slidable engagement with the anchor ledge under the force of said spring as an incident to return movement of the operating lever, and adjusting means interconnected between the valve body and the fulcrum member for adjusting the latter toward and away from the control member to regulate the degree of movement of the operating lever required to disengage the rocker member from the anchor ledge.

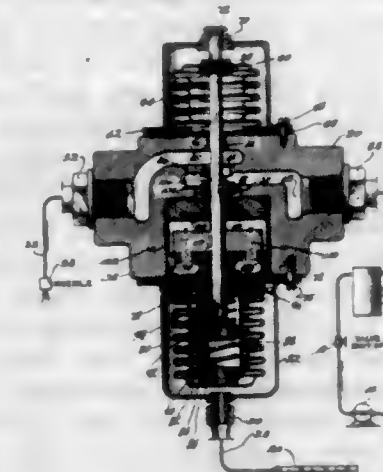
2,716,015

# SNAP ACTING THERMOSTATIC VALVE

George W. Allen, Indianapolis, Ind., assignor to Stewart-Warner Corporation, Indianapolis, Ind., a corporation of Virginia

Application July 18, 1952, Serial No. 299,565

3 Claims. (Cl. 251—66)



1. In a snap acting valve, a valve body having inlet and outlet passages formed therein with a valve seat providing communication between said passages, a valve member movable toward and away from said seat to close and open said valve, a valve stem carrying said valve member and mounted for axial movement, resilient means for biasing said valve stem for axial movement in one direction or the other, depending upon the position of said resilient means, an actuator for positioning said resilient means to determine the direction and amount of bias, said actuator including a corrugated metal bellows enclosing said resilient means and one end of said valve stem and said bellows acting to center said resilient means and said one end of said valve stem, a magnetic member carried by and movable with said valve stem, a member of magnetic permeability positioned to be in contact with said magnetic member when said valve is in open position and to exert a magnetic force on said valve stem to hold said valve stem in open position, a second member of magnetic permeability so positioned as to be immediately adjacent said magnetic member when said valve is in closed position and to exert a magnetic force on said valve stem to hold said valve stem in closed position, means including a second corrugated metal bellows for enclosing the other end of said valve stem and for centering said other end of said valve stem, and means available to an operator exteriorly of the last said bellows for moving the end of the last said corrugated metal bellows so as to push said valve stem from one end of its stroke to the opposite end thereof.

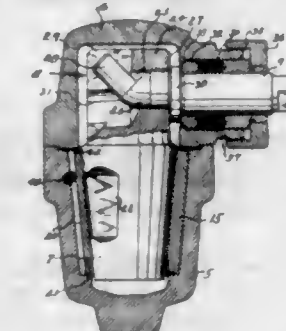
2,716,016

# PLUG VALVE

Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Inc., Houston, Tex., a corporation of Texas

Application March 30, 1950, Serial No. 152,911

14 Claims. (Cl. 251—163)



1. A plug valve comprising a fluid tight valve casing with a flow passage therethrough and a valve seat transverse the passage, a plug valve member disposed within



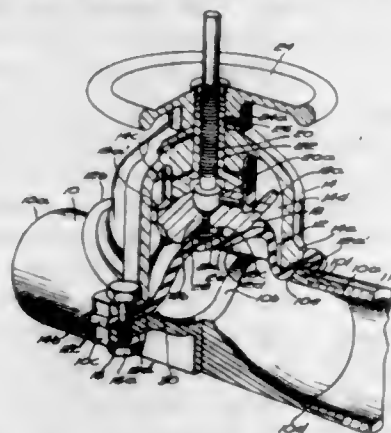
the casing for rotation and endwise movement on a common axis and cooperable with the seat to control the passage, an actuating shaft journaled in the casing with one end exterior thereof and the other end extending into the casing, said shaft disposed angularly relative to the rotational axis of the plug valve member, means sealing the journal, and power conversion connection means within the casing between the plug valve member and shaft for lifting the plug valve member from its seat, rotating it, and reseating it upon rotation of the shaft, said connection means including interengaging surfaces carried respectively by the shaft and plug valve member causing said lifting and reseating and disposed relative to each other to permit the plug valve member, during its initial endwise movement from and its final endwise movement to seated position, to move laterally within the confines of said seat, said plug valve member being free from connections with said casing, other than said connection means and seat, determining its movement during said initial and endwise movements so that said plug valve member can be shifted laterally by the seat into seating alignment therewith.

2,716,017

## DIAPHRAGM VALVES

William L. Linker, Coventry, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware

Application August 28, 1952, Serial No. 306,860  
10 Claims. (Cl. 251—331)



1. A diaphragm valve having a body with a substantially straight passageway therethrough and an opening at one side portion thereof, a weir extending across the passageway at the side of the body opposite the opening and having a surface forming a diaphragm seat the ends of which merge with the rim of the opening at points which define a line spaced inwardly from a second line passing through points on the rim of the opening, which second line together with the longitudinal axis of the passageway forms a plan perpendicular to said first line, a bonnet having one end complementary to the rim of the body opening and secured to the body, a diaphragm having its edge clamped between the rim and said bonnet end, means carried within said bonnet and associated with said diaphragm for moving the latter into and out of seating engagement with said weir.

2,716,018

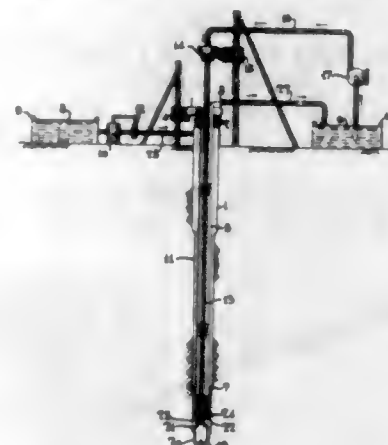
## APPARATUS FOR BORE HOLE DRILLING

Philip S. Williams, Tulsa, Okla., assignor to Esso Research and Engineering Company, a corporation of Delaware

Application October 17, 1951, Serial No. 251,743  
6 Claims. (Cl. 255—24)

1. An apparatus for drilling a bore hole in the earth comprising, in combination, a casing, means supporting said casing in a bore hole, a tubular member of less diameter than said casing, means supporting said tubular member within said casing in a manner defining therewith

a first annular space, a drill bit supported by said tubular member at the lower end thereof and extending beyond the lower termination of said casing, said bit having extensible cutting members adapted for drilling a bore hole substantially greater in diameter than the diameter of said casing whereby said casing will define with the bore hole a second annular space, a packing member supported on the exterior of said casing adjacent the lower termination thereof whereby to seal said second annular space from the borehole below said lower termination, said first annular space and the bore of said tubular member constituting, respectively, first and second circulating paths for fluid, each circulating path extending independently through the entire length of the bore hole from the surface to the vicinity of the bit below said packing member, a first fluid reservoir, a conduit system connecting said

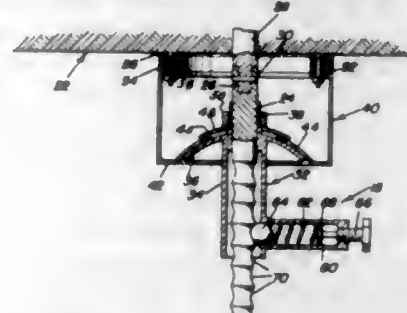


first fluid reservoir with said tubular member and said first annular space whereby a first fluid may be circulated from said first reservoir through the entire length of the bore hole through one of said fluid circulating paths and returned to said first reservoir through the remaining path, a second fluid reservoir and a second conduit system connecting said second reservoir to said second annular space whereby a second fluid may be supplied to said second annular space, said first conduit system and said first reservoir being isolated from said second conduit system and said second reservoir whereby two separate and distinct isolated bodies of fluid may be supplied to said bore hole, said first fluid serving to lubricate the drill bit and to remove cuttings from the bore hole and said second fluid differing from said first fluid and serving to control formation pressures and to maintain the walls of the bore hole.

2,716,019

## DUST COLLECTOR

Anthony Shacikoski, Avonmore, Pa.  
Application July 17, 1953, Serial No. 368,607  
4 Claims. (Cl. 255—50)



1. A dust collector assembly comprising a rod member adapted for attachment to a drill bit at one end and to a drill chuck at its other end, a collector cup slidably secured to said rod with its open end facing said one end of the rod, means for resisting sliding of said cup on said rod for effecting continuous engagement of the open edge of the cup against the material being drilled, a connector sleeve concentrically disposed on said rod, said sleeve including a convex flange, the bottom of said collector

cup being inwardly dished to seat upon said flange and provided with an enlarged central aperture, and a concave retaining washer seated upon the inner surface of said dished bottom and carried by said sleeve.

2,716,020

## REAMER

David P. Blaker, Odessa, Tex.  
Application March 1, 1952, Serial No. 274,354  
10 Claims. (Cl. 255—73)



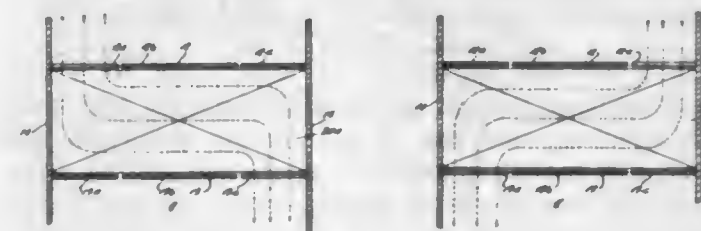
1. A reamer comprising an elongated body having an external cutter recess extending longitudinally thereof, said body having external cutter bearing recesses at each end of and opening into the cutter recess, each bearing recess having longitudinal side walls, a bottom wall and an end wall, one of said side walls being undercut, each bottom wall having a depression adjacent its end wall and extending laterally of said body and of said cutter recess, a bearing block in each bearing recess, said bearing blocks having an end wall abutting the end wall of the bearing recess and a depending member received in said depression whereby the engagement of the end walls of the block and bearing recess and of the depending member in the depression will prevent longitudinal movement of the bearing block in either direction, but will permit lateral movement of the bearing block in the bearing recess and radial movement of the block into and therefrom, said bearing block having longitudinal side walls one of which is complementary to said undercut wall, a cutter journaled for free rotation upon said bearing blocks and disposed in said cutter recess, a longitudinal locking wedge for each bearing block disposed in a bearing recess to one side of said block, retaining means engaging the wedge and moving the same towards the bottom of the recess, another side wall of the bearing block cooperating with the wedge for simultaneously forcing the block laterally causing engagement of the inclined and undercut side walls and for holding the block to the bottom of the bearing recess.

2,716,021

## METHOD OF AND DAMPER APPARATUS FOR CLEANING TUBE BANKS

Richard Henry Evans, Surbiton, and Sidney John Evans, Staines, England, assignors to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application December 22, 1952, Serial No. 327,334  
14 Claims. (Cl. 257—1)



1. A method of cleaning the external tube surfaces of a bank of heat exchanger tubes extending transversely of a gas pass and contacted by heating gases flowing along

the gas pass and across the tubes, the heating gases carrying non-combustible solids in suspension which solids tend to deposit on the gas-contacted external surfaces of the tubes; such method comprising periodically re-directing the heating gases to flow transversely across the tubes within the tube bank alternately in reverse directions transversely of the gas pass.

2,716,022

## CONCRETE VIBRATOR

Harold E. Wilson, Topeka, Kans.  
Application September 15, 1953, Serial No. 380,156  
3 Claims. (Cl. 259—1)



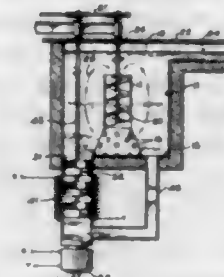
1. A concrete vibrator comprising a casing adapted to be inserted into wet concrete, means for producing a magnetic field along the inner walls of said casing, means actuated by said field within said casing causing vibration of said casing, and means for supplying electricity to said field producing means, wherein said first named means comprises a first pair of electromagnets disposed in said casing, one of said magnets of said first pair being secured to the inner wall of the casing adjacent one end thereof, the other magnet of said first pair being secured to said inner wall diametrically opposite said first magnet and adjacent the other end of the casing, a second pair of electromagnets disposed in said casing in diametrically opposite relation to said first pair of magnets, said second named means being disposed between said first pair of magnets and between said second pair of magnets.

2,716,023

## GLASS BLENDER

Robert C. Cleveland, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application March 23, 1953, Serial No. 343,833  
6 Claims. (Cl. 259—6)



6. A molten glass-conditioning apparatus comprising a molten glass-receiving chamber of substantially circular cross section, means to continuously introduce molten glass thereinto, a centrally disposed, vertically arranged circular stack mounted on the bottom of said chamber and having a plurality of openings near its lower end providing circumferential communication between its interior and the interior of said chamber, said stack terminating below the normal level of glass in said chamber, and an impeller arranged within said stack and adapted on rotation for circulating the molten glass within said chamber downwardly through said stack and through said openings to effect uniform blending of such molten glass, said chamber being provided with an outlet in its bottom remote from the molten glass-introducing means for the discharge of blended glass therefrom.

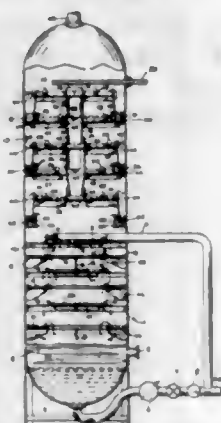


2,716,024

**APPARATUS FOR THE TREATMENT OF OXYGENATED COMPOUNDS**

Henry K. Dice, Corpus Christi, Tex., assignor to Celanese Corporation of America, a corporation of Delaware  
Original application January 5, 1949, Serial No. 69,353, now Patent No. 2,570,215, dated October 9, 1951.  
Divided and this application April 27, 1951, Serial No. 223,315

1 Claim. (Cl. 261—11)



An absorber adapted to be employed for selectively absorbing a hot vapor in a liquid medium passing counter-current to said vapor, comprising a shell having a plurality of inlets and outlets communicating therewith, including a single vapor inlet and a single vapor outlet, a plurality of liquid inlets and a single liquid outlet, said inlets and outlets being so spaced that the liquid and vapor in their respective counter-current paths traverse a substantial portion of the length of said shell, and means interposed between said several inlets and outlets to provide a tortuous path for the liquid and vapor flows, the upper portion of the tortuous path comprising a plurality of bubble cap trays and the lower portion comprising a plurality of ring and disc sections each provided with a sawtooth weir about the peripheral edge thereof for liquid holdup, the vapor inlet and liquid outlet being below the ring and disc sections and the vapor outlet being above the bubble cap trays, one liquid inlet being above the bubble cap trays and a second liquid inlet being above the ring and disc sections and below the bubble cap trays, said single liquid outlet comprising an outlet pipe leading from the bottom of the shell for withdrawing liquid having therein absorbed constituents of said hot vapor, which liquid has been heated by contact with said hot vapor, a cooler connected to said outlet pipe for cooling said withdrawn liquid, a branch pipe for directing a portion of said cooled liquid to said second liquid inlet, a second branch pipe for withdrawing a side stream of said cooled liquid, and a pump for forcing the liquid through said outlet pipe and said cooler and said branch pipes, and liquid seal means associated with each of said bubble cap trays to provide a downward path of liquid overflowing said trays, said means being adapted to hold up a portion of said liquid and form a liquid seal, the construction and arrangement of said liquid seal means being such that the liquid is caused to have a radial flow over said bubble cap trays and to leave one bubble cap tray peripherally thereof and to leave the next succeeding cap tray centrally thereof whereby the liquid travels in a downward direction through the bubble cap trays in a tortuous path.

2,716,025

**METHOD AND MINING APPARATUS WITH MOVABLE ROOF SUPPORTS**

Paul V. Malloy and Paul J. Malloy, Lakewood, Ohio  
Application July 17, 1951, Serial No. 237,222

31 Claims. (Cl. 262—1)

17. In mining apparatus, a plurality of roof beams having their forward ends supported by a longitudinal overcut formed in a mine wall adjacent the mine roof, a cutting machine movable along said wall beneath said

beams and having a cutting boom adapted to form a second longitudinal overcut in said wall to constitute a new support for said forward ends when said beams are advanced to a new position, and a rail mounted on and connected with said cutting machine and forming a support movable with said cutting machine and engaging certain of said beams from the underside thereof for



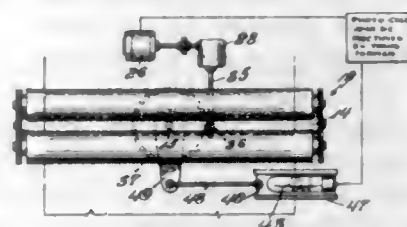
supporting the forward ends of said certain beams when the first-mentioned overcut is destroyed by the removal of material from said wall, said beams comprising connected main and auxiliary beam units and being extensible by forward relative movement of said auxiliary beam units for engagement of the forward ends of said certain beams with said second overcut while said certain beams are being supported by said rail.

2,716,026

**WEB GUIDING DEVICE**

Charles G. Axworthy, Pawtucket, R. I., assignor to Union Wadding Company, a corporation of Rhode Island  
Application October 25, 1951, Serial No. 253,019

10 Claims. (Cl. 271—2.6)



1. A guider for a travelling web of material comprising a pair of parallel rollers between and in contact with which the web travels, a carriage for said rollers, means for pivoting said carriage to swing about an axis at right angles to the plane of the axes of said pair of rollers, mechanical means for shifting said carriage about its pivot, an electric circuit, a source of light in said circuit, a light responsive means in said circuit positioned to receive the light transmitted from the source dependent upon its position relative to the web, said electrical circuit being responsive to the amount of light received by said light responsive means to actuate the mechanical means to shift the carriage about its pivot, a variable in said circuit connected to said carriage and movable therewith to control movement of the rolls and minimize hunting action of said rolls, said circuit including an inactive area midway of the travel of said variable.

2,716,027

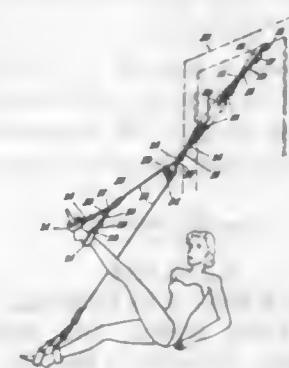
**GYMNASTIC APPARATUS**

Fritz Henry Gehri, Bern, Switzerland  
Application February 10, 1953, Serial No. 336,165  
Claims priority, application Switzerland May 28, 1952

6 Claims. (Cl. 272—83)

1. A gymnastic apparatus for attachment to a support, comprising tension spring means having two ends, means attaching one end of said spring means to said support, pin means operatively connected to the other end of said tension spring means, pulley carrier means operatively connected to said pin means for rotation about the axis of said pin means, pulley means mounted on said carrier means having an axis of rotation extending perpendicular to said pin means, first rope means riding on said pulley means and having two ends, a plu-

ality of further rope means operatively connected to each of said ends of said first rope means, respectively, for displacement relative to said ends of said first rope means, respectively, each of said further rope means having two ends, and limb supporting members operatively



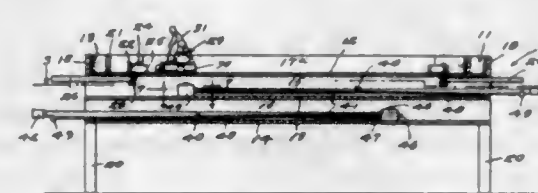
connected to each of said ends of said further rope means, respectively, whereby at least quadruple total engagement with two respective limbs of the human body is provided when exercising said body by means of said apparatus.

2,716,028

**MAGNETICALLY OPERATED GAME APPARATUS**

Bernard W. Yaeger, Garden City, Mich.  
Application August 8, 1952, Serial No. 303,239

6 Claims. (Cl. 273—85)



1. In a game apparatus, a supporting structure having a top part defining a playing surface, a plurality of player simulating units mounted for movement over said playing surface and each including a base portion capable of being magnetically attracted and each having a recessed portion in a part thereof, a playing piece mounted for movement on said playing surface capable of being engaged in the recessed portion of each of said player simulating units for movement therewith over the playing surface, a plurality of manually operated manipulating devices each including a magnet, means forming a part of the supporting structure slidably and turnably supporting the manipulating devices beneath said top part in positions whereby the magnetically attractable base portions are connected by magnetic attraction to the magnets of the manipulating devices so that said player simulating units are selectively movable on the playing surface by movement of said manipulating devices.

2,716,029

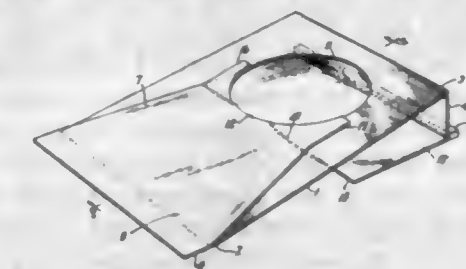
**PRACTICE PUTTING DEVICE**

John Montgomery, New York, N. Y.  
Application November 21, 1952, Serial No. 321,856

2 Claims. (Cl. 273—178)

1. In a portable device for practicing golf putting comprising an inclined ramp of L-shaped cross section having a long and a short leg, the long leg being supported in the inclined position by the short leg, the ramp having at its raised upper end a circular opening through which a golf ball may pass, the combination including a continuous apron of flexible material running longitudinally up the ramp and passing through the golf ball opening and projecting rearwardly below the raised upper

end of said ramp and under the short leg thereof, the rearward end of the apron below said ramp having a transverse ridge that bears against the back end of said leg, the portion of the apron intermediate its front and rear portions and near the entrance of said circular golf ball opening being partially severed inwardly from each



side of the apron with the edges of the severed portions conforming substantially to and being substantially adjacent a portion of the circular perimeter of the golf ball opening, the narrow unsevered portion passing down through the said opening at an angle towards the rear portion of the apron running beneath the short leg of the ramp.

2,716,030

**EXTENSION CHUCK FOR PIERCING TOOLS**

William J. Faso, Huntington Station, N. Y.  
Application November 9, 1953, Serial No. 390,999

4 Claims. (Cl. 279—9)



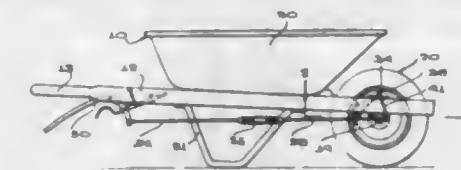
1. An extension chuck for piercing tools comprising a tubular chuck member having a bore of greater diameter than the diameter of the tool and arranged at one end to hold the tool in piercing position, a locking member adjustably mounted in an intermediate portion of the chuck member and having a stem of less diameter than the bore of the chuck member extending from one end of the locking member concentrically of the bore of the chuck member and adapted to project from the end of the chuck member opposite the tool holding end with the opposite end of the locking member abutting the end of the tool within the chuck member, and an extension rod having an elongated recess extending into one end portion of the extension rod and arranged to interlock with the stem of the locking member and retain the locking member against the tool in piercing position.

2,716,031

**HAND OPERATED BRAKE FOR WHEELBARROW**

Benjamin Roessler, Cincinnati, Ohio  
Application February 27, 1953, Serial No. 339,307

2 Claims. (Cl. 280—47.31)



1. In combination with a wheelbarrow having spaced apart shafts arranged in converging relationship each terminating in a handle at the divergent end thereof, brackets mounted one on each shaft at the convergent ends of said shafts, an axle secured at its respectively opposite ends to said bracket and extending between said shafts, and a wheel journaled on said axle between said shafts and having thereon a cylindrical surface coaxial with the axis of rotation of the wheel, brake mechanism comprising a bearing structure mounted on one of said



shafts adjacent the corresponding bracket, a crank having an arbor portion journaled in said bearing structure and arms extending angularly one from each end of said arbor portion, a brake shoe mounted on the distal end of one of said arms and positioned adjacent the cylindrical surface on said wheel for braking engagement therewith, a bell crank lever pivotally mounted at its angle on said one shaft adjacent the handle end of the latter and having one leg thereof extending along the handle portion of said one shaft to constitute a brake-applying hand lever, an adjustable length link connecting the distal end of the other leg of said bell crank lever to the distal end of the other arm of said crank to enable said bell crank lever to turn said crank in a brake-applying direction when the hand lever leg of said bell crank lever is manually moved toward the adjacent shaft handle, an abutment device mounted on said one shaft adjacent said bell crank lever, and a latch bar pivotally connected to said bell crank lever and having notches therein engageable with said abutment device to releasably lock said bell crank lever in its brake-applying position relative to said one shaft.

2,716,032

# STEERING MECHANISM FOR AUTOMOTIVE VEHICLES WITH SEPARATELY CONSTRUCTED BODY SECTIONS

Béla Barényi, Stuttgart-Rohr, Germany  
Application July 6, 1951, Serial No. 235,487  
3 Claims. (Cl. 280—87)

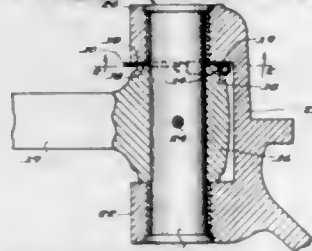


1. In an automotive vehicle in combination: a plurality of individually constructed body cells, a vehicle frame supporting said cells, a steering wheel within one of said cells, support means for said steering wheel pivotally connected to said frame for pivotally supporting said steering wheel on said frame, a steering gear means within another of said cells, means for supporting said steering gear means on said frame, and means including two universal joints connecting said steering wheel with said steering gear means for transmitting the steering torque from said steering wheel to said steering gear means.

2,716,033

# PIVOTAL JOINT UTILIZING AN END PLAY TAKE-UP WASHER

Ruez M. Dodge, Charleston, W. Va.  
Application June 27, 1951, Serial No. 233,914  
1 Claim. (Cl. 287—100)



In a pivotal joint comprising a yoke having spaced arms and a spindle having a hub with cylindrical end portions received between said arms with slight axial clearance, pin means pivotally connecting said hub portion and yoke arms together, said hub portion and yoke arms having confronting flat faces, the improvement which comprises a substantially semi-annular play take-up member positioned between a pair of said flat faces and tapered from the outside edge to the inner edge, the inner edge of said

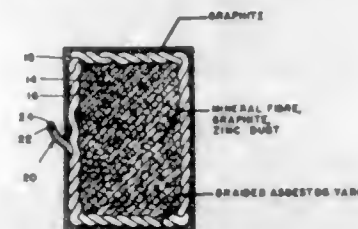
member having a thickness which is less than the amount of the clearance, the member having an outer thickness which is slightly greater than the amount of clearance, one face of said play take-up member being flat and engaging one of the said flat faces, a coil spring having its ends connected to the end portions of said semi-annular member, at least one end of said coil spring being readily removable or detachable from said member, said coil spring surrounding a part of a cylindrical portion of the hub portion and having an effective cross section of greater size than the amount of clearance whereby the spring will continually urge the play take-up member into the clearance.

2,716,034

# PACKING MATERIAL

Merrill M. Main, Park Ridge, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois

Application June 2, 1952, Serial No. 291,237  
2 Claims. (Cl. 288—8)



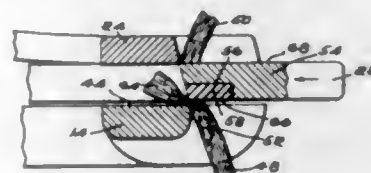
2. A self-contained anticorrosion packing material comprising an outer jacket of wire core asbestos fiber finely and tightly woven to provide an inner enclosure, a compact moldable homogeneous mixture of flake graphite, mineral fiber and finely divided zinc disposed within said inner enclosure and filling the same, the strands of said woven outer jacket being close fitting to prevent egress of the homogeneous mixture outwardly through the jacket, and an outer coating containing graphite secured to said jacket by adhesion.

2,716,035

# BILL CUTTER AND YARN HOLDER FOR KNOTTER

James O. Thorndike, Whitman, Mass., assignor to Abington Textile Machinery Works, North Abington, Mass., a trust of Massachusetts

Application September 19, 1952, Serial No. 310,417  
5 Claims. (Cl. 289—13)



1. For use in a knotter of the type described, a bill screw having associated therewith a bill, a bill cutter and a bill spring for pressing said bill cutter against said bill, said bill cutter having an insert on the face that abuts the inner face of the bill of non-metallic material having frictional characteristics capable of holding the severed ends of filaments of continuous filament yarn between said insert and bill during the knotting procedure.

2,716,036

# PORTABLE KNOT TYING DEVICE

Louis F. Fenell, Altoona, Pa.  
Application February 5, 1954, Serial No. 408,531  
5 Claims. (Cl. 289—17)

1. In a knot tying device, a flat elongated member formed to provide a fixed vise jaw at one of its ends, said

jaw having a centrally disposed longitudinally extending slot opening through the outer end thereof, spaced parallel transverse grooves formed in the upper surface of said fixed jaw to receive filaments therein, a second flat elongated member overlying the first member formed to provide a movable vise jaw at one of its ends and normally



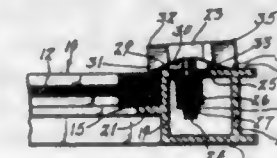
superimposed on said fixed jaw, a finger engaging portion extending angularly upward and rearward from the inner end of said movable jaw, means pivoting said second member to the first member adjacent the junction of said movable jaw with said finger engaging portion, and spring means urging said movable jaw toward said fixed jaw to clamp the said filaments in said grooves.

2,716,037

# FASTENERS FOR WINDOWS, DOORS AND THE LIKE

Arthur Skodnek, Roslyn, N. Y., assignor to Jasco Aluminum Products Corporation, New Hyde Park, N. Y., a corporation of New York

Application February 24, 1953, Serial No. 338,245  
2 Claims. (Cl. 292—60)



2. As an article of manufacture a window fastening device comprising an elongated metal body portion shaped like an arrow in plan, a stem formed integrally with the body and depending from the center thereof, said stem having a peripheral groove adjacent its free end, said body portion being undercut at each side of the stem providing a depending nose at one end and a depending tail at the other end, said body portion constituting a handle, and a coiled compression spring surrounding said stem, one full coil of said spring being embedded and secured in the peripheral groove of said stem, the other end of the spring being free and slidable along the stem.

2,716,038

# LOCKING DEVICE

Archie A. Sawyer, Laramie, Wyo.  
Application July 21, 1952, Serial No. 299,968  
5 Claims. (Cl. 292—62)



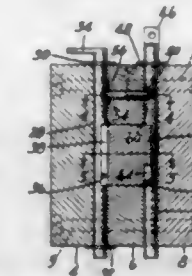
5. A locking device comprising a bolt, means supporting said bolt for rotation on its axis and for axial sliding movement, means biasing said bolt for sliding movement in one direction, said bolt being provided with a portion engageable with an element to be locked when said bolt is turned on its axis to a predetermined position and is moved away from its biased direction, said portion of said bolt being releasable from the element upon rotation of the bolt on its axis, a latch supported by said bolt and biased to an operative position locking said bolt against

rotation when said portion thereof is in engagement with the element to be locked, said means for supporting said bolt for rotational and sliding movement comprising a plate having a recess therein receiving said latch when the latter is in operative position to fix said bolt against turning movement, and a push button having mechanical connection with said latch and operable for releasing it to release said bolt for turning movement on its axis.

2,716,039

# DOOR LATCH

Frank M. Phillips, Utica, Pa.  
Application November 22, 1952, Serial No. 321,978  
9 Claims. (Cl. 292—163)

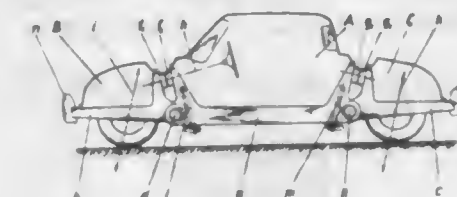


1. In a latch and locking mechanism, a latch-receiving body having a recess adapted to receive a latch, a latch movably mounted in the recess, first-named lock means in said body and actuable to engage the latch to prevent movement thereof, second-named lock means in the body and actuable to engage the latch to prevent movement thereof, and an interlock associated with both lock means and operable upon actuation of either lock means to prevent actuation of the other lock means.

2,716,040

# MOTOR VEHICLE HAVING HINGED END SECTIONS AND ATTACHED LIFTING MEANS

Béla Barényi, Stuttgart-Rohr, Germany  
Application January 26, 1950, Serial No. 140,583  
Claims priority, application Germany January 26, 1949  
2 Claims. (Cl. 296—28)



2. A motor vehicle comprising a middle passenger part, a front part and a rear part, transverse means including a front hinge for connecting said front part with said middle passenger part and a rear hinge for connecting said rear part with said middle passenger part, the front part and the rear part of the vehicle being each connected thereby articulately with respect to said middle part, said hinges constituting transverse articulate connections of said parts and being located in the lower portion of said vehicle, resilient compression members located above said transverse articulate connections for resiliently supporting said parts, and lifting means in said middle part of the vehicle disposed at each opposed end thereof adjacent respective hinges for lifting said middle part for disconnection thereof from said end part, the lifting means located near the front end of said middle part slanting forwardly with respect to said vehicle, and the lifting means located near the rear end of said middle part slanting rearwardly with respect to said vehicle.



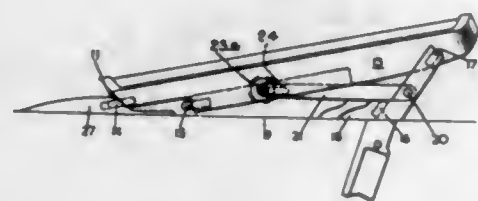
2,716,041

**FOLDABLE WINDSHIELD FOR SPORTS CARS**  
Gerald Charles Coker, Warwick, England, assignor to  
Donald Healey Motor Company Limited, Warwick,  
England

Application April 24, 1953, Serial No. 350,888

Claims priority, application Great Britain  
October 15, 1952

7 Claims. (Cl. 296-84)



1. A motor-vehicle with a non-planar windscreen, said windscreen when in the erected position having at its upright edges side frame members, supporting base brackets for said side frame members, axially disconnectable pin and socket means interconnecting said side frame members and said brackets for holding said windscreen in an erected position, said pin and socket means being parallel with said side frame members when the windscreen is erect, arms hinged to said base brackets and having longitudinally directed slots at their free ends, said slots extending parallel to said pins and said arms being received in recesses in said side frame members when said windscreen is in erected position, and releasable locking means engaged with the lower ends of said slots when said windscreen is in erected position, said locking means, when released, permitting disengagement of said pin and socket means whereby the bottom edge of said windscreen and said arms can be swung forwardly for said windscreen to be substantially horizontal with its top edge in a lowered operative position, said locking means then being engaged with the other end of said slots.

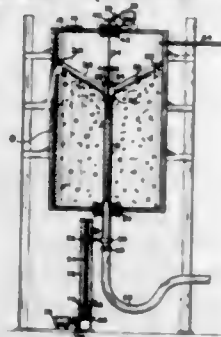
2,716,042

**SOLIDS FEEDING DEVICE**

Nels E. Sylvander, Bridgeville, and Sam A. Jones, Pittsburgh, Pa., assignors to Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application August 18, 1951, Serial No. 242,542

6 Claims. (Cl. 302-42)



1. An apparatus for feeding particulate solid material at a constant rate comprising an upright cylindrical vessel adapted to confine a bed of particulate solids, an elongated gravity feed discharge tube substantially centrally positioned within said vessel and extending vertically through a substantially airtight seal in the bottom wall of said vessel, a supporting structure rotatable about the upper terminus of said discharge tube and incapable of longitudinal motion with respect to said discharge tube, said supporting structure having lateral openings therein to permit the flow of solids therethrough into the open top of said discharge tube, at least one paddle arm affixed to and supported by said rotatable supporting

structure, said paddle arm being positioned with respect to the open top of said discharge tube to cause, upon rotation of said supporting structure, a movement of solids from the surface of said solids bed into the open top of said discharge tube, first mechanical driving means for rotating said rotatable supporting structure and second mechanical driving means independent of said first mechanical driving means for causing said discharge tube and said supporting structure to descend at a constant rate.

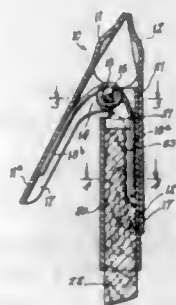
2,716,043

**ADAPTER ASSEMBLY FOR USE WITH SPRING CLAMPS**

Edward J. Baril, Brooklyn, N. Y.

Application March 1, 1952, Serial No. 274,416

2 Claims. (Cl. 306-27)



1. An adapter assembly for use with a spring clamp having a pair of jaws, a pin pivotally connecting said jaws, the jaws being extended beyond the pin to form handles having concave inner sides and by which the jaws can be spread apart, and a spring coiled on said pin and biasing said jaws toward closed position, said spring having two end portions of which one is engaged with the concave side of a said handle, said adapter comprising an elongated tubular sleeve, the second end portion of the spring being engaged within the sleeve frictionally securing the same against the concave side of the other handle, said sleeve including a semi-cylindrical extension, the longitudinal edges of which frictionally engage said pin on either side of said spring to stabilize the engagement of the sleeve against the inner side of the other handle, and an elongated pole frictionally fitted into said tubular sleeve.

2,716,044

**FOLDING WALL TABLE**

Roy P. Overby, Fargo, N. Dak.

Application May 25, 1954, Serial No. 432,097

5 Claims. (Cl. 311-19)



1. In a folding wall attached table, a leaf including a pair of members hinged together intermediate the length of the leaf, hinge means attaching one of said members to a wall, a foldable strut consisting of a pair of pivotally connected strut members, one of said strut members being hingedly connected to a wall below the leaf connection with the wall, the other of said strut members being hingedly connected to the leaf adjacent the free end

thereof, and other strut means extending between the first mentioned strut member and the wall connected section of the leaf and having its ends hinged to the first strut member and the wall hinged leaf member.

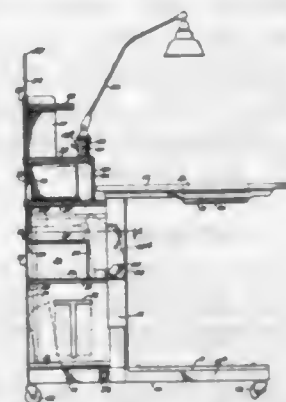
2,716,045

**BEDSIDE CABINET AND TABLE STRUCTURE**

Harry M. Berner, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois

Application October 10, 1951, Serial No. 250,720

5 Claims. (Cl. 312-281)



1. In a structure of the character described, an elongated support beam equipped intermediate the ends thereof with an upwardly-extending support member, said support member being adapted to support a table extending laterally therefrom in substantially parallel relation with said beam and toward one end thereof, a cabinet carried on said beam and rigidly secured thereto and extending substantially from adjacent said support member to the end opposite said one end of said beam, and floor supports carried by said beam and cabinet and being adapted to be received upon a floor for supporting said structure.

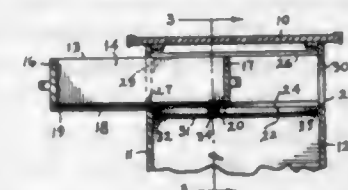
2,716,046

**CABINET TWO-WAY DRAWER STOP**

Herbert A. Minturn, Indianapolis, Ind.

Application September 18, 1953, Serial No. 381,083

3 Claims. (Cl. 312-286)



1. The combination with a cabinet having a drawer and opposite side openings through which said drawer may be selectively pulled to open positions, said drawer having a floor in a plane above the top edges of the lower margin of said openings to have portions of front and back drawer end extend below the floor, of a stop member; and a stop member support carried by the cabinet below and between said drawer opening edges; said stop member being free to traverse said support between said edges, and said stop member having a height extending above those edges and into the paths of said drawer front and back end portions.

2,716,047

**STATISTICAL FREQUENCY DISTRIBUTION RECORDER**

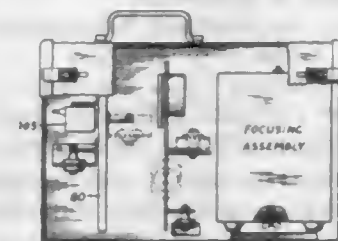
James W. Dibrell, New York, N. Y., assignor to Ebasco Services, Inc., New York, N. Y., a corporation of New York

Application April 3, 1951, Serial No. 218,955

18 Claims. (Cl. 346-33)

1. A frequency distribution recorder comprising input means for receiving signals indicative of aperiodic events

to be counted and recorded, counter means responsive to said input signals for totalizing the signals received, timing means, printing means including record receiving means controlled by said timing means, said printing means being periodically actuated to record the count of said counter on said record receiving means, means for rendering said counter means inoperative during the printing operation, reset means to reset the counter to a start-



ing point after each printing operation, and means controlled by said printing means for rendering said reset means inoperative during the printing operation, the last said means including a releasable stop for inactivating the reset means, a stop release member movable with the printing means, and a stop on said release member to maintain the reset member inactive during the printing operation.

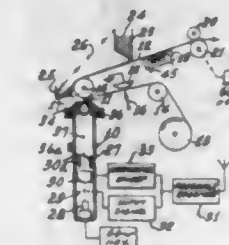
2,716,048

**ELECTROSTATIC FACSIMILE RECEIVER**

Charles J. Young, Princeton, N. J., assignor, by mesne assignments, to United States of America as represented by the Secretary of the Army

Application August 14, 1952, Serial No. 304,263

1 Claim. (Cl. 346-74)



A cathode ray tube recording apparatus comprising a cathode ray tube having an elongated slitlike window in its face, said window being covered by a thin sheet of metallic foil, an elongated sheet of insulating material having a width substantially equal to the length of said window, means for moving said elongated sheet of insulating material past said window at a constant velocity in close proximity to said window, means for intensity modulating an electron beam in said tube, means for causing said electron beam to scan said elongated sheet of insulating material through said window at right angles to the direction of motion of said sheet, whereby a charge pattern is produced on said elongated sheet of insulating material in accordance with the intensity modulation of said beam, means including a substantially airtight enclosure covering said window and the portion of said elongated sheet of insulating material in the immediate vicinity of said window for substantially evacuating the space between said window and said elongated sheet of insulating material, a source of finely divided material, said finely divided material being so charged as to adhere only to the portions of said elongated sheet of insulating material which have received a charge from said electron beam and means for applying said finely divided material to said elongated sheet of insulating material whereby said finely divided material will adhere selectively to said elongated sheet of insulating material in accordance with the charge pattern produced thereon by said electron beam and will make a visible pattern on said elongated sheet of insulating material in accordance with the intensity modulation of said beam.

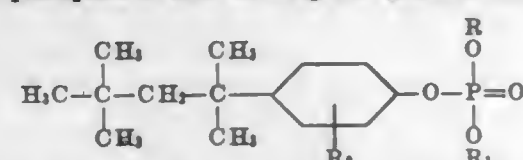






carbon atoms and  $R_2$  is a radical selected from the group consisting of hydrogen and alkyl radicals.

10. Blasting explosives of the kind comprising a preponderating proportion of freely water-soluble inorganic nitrates distributed in a lesser proportion of a viscous solution of nitrocellulose in a solvent comprising a liquid explosive nitric ester which explosives include a tri-ester of ortho-phosphoric acid having the general formula:



wherein R and  $R_1$  are alkyl radicals containing up to 12 carbon atoms and  $R_2$  is a radical selected from the group consisting of hydrogen and alkyl radicals.

2,716,057

## METAL POWDERS

Thomas P. Whaley, Royal Oak, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 1, 1954,  
Serial No. 433,819

7 Claims. (Cl. 75—0.5)

1. A process for the preparation of metal powders comprising reducing at least one metal compound other than an alkali metal compound with the product obtained when contacting an alkali metal with an ether.

2,716,058

## DERESINATION OF WOOD PULP

William Howard Rapson and Morris Wayman, Hawkesbury, Ontario, Canada, assignors to Canadian International Paper Company, Montreal, Quebec, Canada, a corporation of the Province of Quebec

No Drawing. Application June 24, 1950,  
Serial No. 170,262

6 Claims. (Cl. 92—13)

1. In a method of removing resin from wood pulp prepared from hardwood, the steps of incorporating in an aqueous suspension of wood pulp from 0.1 to 1.0 per cent, based on pulp of a deresination agent selected from the group consisting of the condensation products of ethylene oxide with one of the following, octyl phenol, nonyl phenol, dioctyl phenol, lauryl alcohol, tall oil, cashew nut shell oil, rosin and hydrogenated rosin as represented by a mixture of di- and tetra-hydroabietic acids, the ethylene oxide portion of said deresination agent constituting from about 50 to about 80 per cent of the weight thereof and treating said pulp in suspension for from  $\frac{1}{2}$  to 4 hours with from 2.0 to 12.0 per cent of sodium hydroxide, based on pulp, at from about 60° C. to about 100° C.

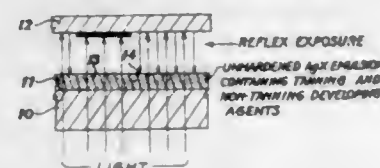
2,716,059

## PHOTOGRAPHIC TRANSFER PROCESS

Henry C. Yutzy and Edward C. Yackel, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application January 21, 1952, Serial No. 267,447

7 Claims. (Cl. 95—6)



2. A method of photographic reproduction which comprises exposing to a two-tone subject a substantially unhardened gelatin-silver halide emulsion layer containing a mixture of a developing agent of the class con-

sisting of 3,4-dihydroxy diphenyl, 2,5-dihydroxy diphenyl and 2,3-dihydroxy diphenyl, and a developing agent of the class consisting of N-methyl-p-aminophenol-x-sulfonic acid, p-hydroxy-anilino-methane sulfonic acid, pyrogallol dimethyl ether, 8-hydroxy- $\alpha$ -naphthol and 4-methoxy- $\alpha$ -naphthol, said emulsion layer being not harder than a gelatin layer containing 0.7 gram of formaldehyde per pound of gelatin freshly coated, developing the exposed emulsion layer with an alkaline solution to obtain a hardened gelatin and silver image in the region of exposure to the high-light area of the subject and substantially unhardened gelatin, silver and silver halide in the region of the emulsion layer corresponding to the shadow region of the subject, pressing a sheet having an absorbent surface against said emulsion layer while said emulsion layer is moist to cause only the shadow region of the emulsion to adhere to said sheet, and separating said sheet and emulsion layer to transfer only a stratum of said shadow region of the emulsion layer to said sheet.

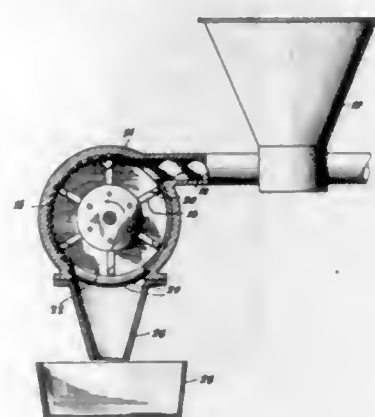
2,716,060

## CONTACT PRINTING EMULSION AND METHOD OF MAKING

John M. Lupo, Jr., Brooklyn, N. Y., assignor to Direct Reproduction Corporation, a corporation of New York

Application July 7, 1950, Serial No. 172,401

2 Claims. (Cl. 95—7)



1. The method of preparing a contact printing emulsion adapted to be retained on plastic and glass surfaces which comprises mixing approximately 100 parts by weight of water with approximately 6 to 12 parts by weight of a pigment selected from the group consisting of toluidine red toner, phthalocyanine blue, hansa yellow, and a lamp black pigment having at least 99% by weight of carbon which is capable of adsorbing more than its weight of oil, adding approximately 15 to 35 parts by weight of a water dispersible colloid selected from the group consisting of gum arabic, gum tragacanth, gelatine, carboxymethylcellulose, hydroxymethyl cellulose and methylcellulose and approximately 15 to 30 parts by weight of ammonium dichromate followed by the addition of approximately 2 to 4 parts by weight of a humectant and emulsifying agent selected from the group consisting of glycerine, triethanolamine and sorbitol and adding ammonium hydroxide in an amount to establish a pH of approximately 7.5 to 10.0 and then delivering the entire mixture into the chamber of a mill, rotating the mixture in such chamber to hurl it at high velocity and by centrifugal force against a rough milling surface and continuing the milling operation for a given particle of solid until the particle is reduced in size to pass through an opening of predetermined size in the outlet of the mill to emulsify and uniformly disperse the solid pigment particles and ammonium dichromate throughout the resulting emulsion whereby the emulsion upon exposure to light will adhere to a flexible sheet such as a vinyl plastic sheet in a substantially continuous film even after repeated flexing of the sheet.

2,716,061

## CASEIN CONTACT PRINTING EMULSION

John M. Lupo, Jr., Brooklyn, N. Y., assignor to Direct Reproduction Corporation, a corporation of New York

No Drawing. Application December 18, 1952,  
Serial No. 326,777

2 Claims. (Cl. 95—7)

1. The method of preparing a contact printing emulsion adapted to be retained on plastic and glass surfaces which comprises the steps of dispersing a casein selected from the group consisting of rennet and acid metallic caseinates in an alkaline aqueous medium having a pH above 7, adding solid pigment particles and a water soluble light sensitive dichromate to the casein water dispersion, the pigment being added in amount sufficient to bring the pigment content of the resulting mixture within the range of about 0.2% to 6.0% by weight of the mixture and the dichromate being added in amount sufficient to bring the dichromate content of the resulting mixture within the range of about 2.0% to 4.0% by weight of mixture, adding alkali to bring the pH of the mixture within the range of about 8.5 to 10.5, adjusting the water and casein content of the mixture to bring the specific gravity of the final mixture within the range of about 1.020 to 1.045, and then delivering the final mixture into the chamber of a colloid mill, rotating the mixture in such chamber at a velocity of about at least 14,000 R. P. M. to grind the solid particles and uniformly disperse the ingredients throughout the mixture and continuing such grinding and dispersing operation for a given particle of solid until the particle is reduced in size to give a mixture with particles the shortest dimension of which is less than 0.01 inch and to emulsify and uniformly disperse the ingredients in relation to each other throughout the resulting casein emulsion whereby the emulsion upon exposure to light will adhere to a flexible sheet, such as a vinyl plastic sheet, in a substantially continuous film even after repeated flexing of the sheet, and whereby the half-tone colors of an image may be faithfully reproduced by applying and exposing successive coatings of the casein emulsion containing different primary pigment colors.

2,716,062

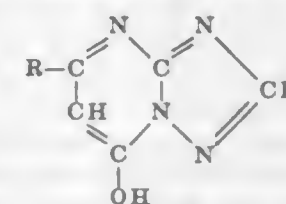
## 4-HYDROXY-6-ALKYL-1,3,3a,7-TETRAZAINdene STABILIZERS FOR EMULSIONS SENSITIZED WITH ALKYLENE OXIDE POLYMERS

Burt H. Carroll and Norman F. Beach, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 1, 1953,  
Serial No. 365,550

20 Claims. (Cl. 95—7)

1. A light-sensitive silver halide emulsion sensitized with an alkylene oxide polymer selected from the class consisting of (1) polyalkylene glycols, (2) condensation products of alkylene oxide with glycols, (3) condensation products of alkylene oxide with aliphatic compounds selected from the class consisting of alcohols, acids and amines and (4) condensation products of alkylene oxide with hexitol ring dehydration products, said alkylene oxide containing from 2 to 4 carbon atoms and said alkylene oxide polymer having a molecular weight of at least 300, said emulsion containing as a fog inhibiting agent an azaindene having the formula:



where R represents an alkyl group.

2,716,063

## HOG FOOD

Paul B. Shearer, Drexel Hill, Pa.

No Drawing. Application June 11, 1952,  
Serial No. 292,983

9 Claims. (Cl. 99—2)

1. A composition of matter for the feeding of hogs comprising liquid whey resulting from the manufacture of cheese supplemented with an ingestible reactive calcium compound in an amount approximately sufficient to substantially reduce the free lactic acid in the whey.

2,716,064

## VITAMIN-A PREPARATIONS

Maksymilian K. Koffler, Tel-Aviv, Israel

No Drawing. Application March 10, 1953,  
Serial No. 341,600

Claims priority, application Israel December 24, 1952  
6 Claims. (Cl. 99—11)

1. Vitamin-A preparations of high keeping power, containing an animal source of vitamin A in admixture with concentrated citrus fruit peel juice.

2,716,065

## TELLTALE FOR FROZEN FOOD PACKAGES

John S. Beckett, Glendale, and William J. Marenus, Los Angeles, Calif., assignors to Aseptic Thermo Indicator Company, Los Angeles, Calif., a corporation of California

Application June 4, 1951, Serial No. 229,782

10 Claims. (Cl. 99—192)



1. A telltale device for a refrigerated package comprising a semi-solid ionic diffusion mass containing a pH indicator substance and water; and a reservoir having water-dispersed ions available at a surface arranged in communication with said diffusion mass, said dispersed ions being selected as to pH to be effective to change the color of said pH indicator substance upon contact therewith when said ions from said reservoir diffuse by ionic migration into said mass.

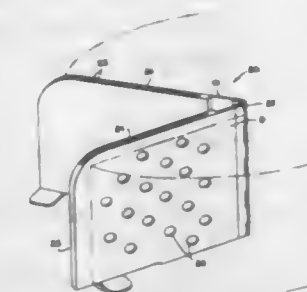
2,716,066

## CAKE PROTECTOR AND PRESERVER

Paul M. Baker, Columbus, Ohio

Application June 10, 1952, Serial No. 292,711

7 Claims. (Cl. 99—234)



1. A cake protector comprising a pair of hinged connected plate-like sections, each of which has inner and outer walls spaced to provide a pocket, one of said walls having openings extending therethrough; and an absorbent sheet disposed in said pocket, said sheet being replaceable.



2,716,067

## DE-ICING COMPOSITION

Jacob M. Fain, Brooklyn, N. Y., and Norman L. Hewitt, Red Bank, N. J., assignors, by mesne assignments, to United States of America as represented by the Secretary of the Navy

No Drawing. Application September 26, 1952, Serial No. 311,808

10 Claims. (Cl. 106—13)

1. A de-icing composition consisting by weight of ethylene diamine 67 parts and potassium thiocyanate 33 parts.

2,716,068

## DE-ICING AND FREEZE DEPRESSANT COMPOSITION

Jacob M. Fain, Brooklyn, N. Y., and Norman L. Hewitt, Red Bank, N. J., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

No Drawing. Application October 21, 1952, Serial No. 316,096

3 Claims. (Cl. 106—13)

1. A de-icer and freeze depressant composition consisting by weight of ethylene glycol 60 parts, potassium thiocyanate 30 parts and sodium nitrite 10 parts.

2,716,069

## FLUOROXIDE GLASS COMPOSITION

Alexis G. Pincus, Worcester, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application July 27, 1948, Serial No. 40,963

11 Claims. (Cl. 106—47)



10. A fluoroxide optical glass having an atomic formula expressed as  $A_mB_n(O_xF_{1-x})$  in which A represents metals selected from the group consisting of sodium, potassium, lithium, rubidium, caesium, magnesium, calcium, barium, strontium, zinc, cadmium, lead, thallium and mixtures thereof, B atoms selected from the group consisting of beryllium, aluminum, silicon, phosphorous, boron, sulphur, nitrogen, carbon, titanium, zirconium and mixtures thereof, O oxygen atoms and F fluorine atoms, with the sum of O and F being unity and x, m and n representing the number of atoms to which they are subscripted with relation to the sum of O and F, x having a value between about .15 and .68, m between about .03 and .32 and n between about .33 and .41.

2,716,070

## LIME-SILICA INSULATION AND METHOD OF MAKING

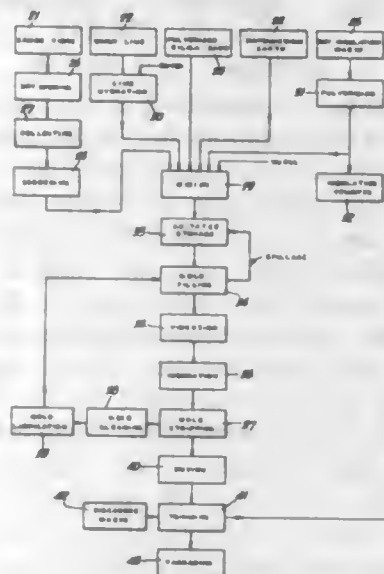
Willard R. Seipt, North Wales, Pa., assignor to Keasbey and Mattison Company, Ambler, Pa., a corporation of Pennsylvania

Application July 11, 1949, Serial No. 104,128

2 Claims. (Cl. 106—120)

2. A thermal insulation comprising a substantially homogeneous micro-porous body element essentially consisting of the reaction products of calcium hydroxide and siliceous material together with reinforcing asbestos fibres, said body having a density of from 7 to 20 pounds per

cubic foot, and the asbestos fibre content of said body being from 8% to 40% by weight of the dry solids content thereof, and said body containing not in excess of 3% reactable alumina and having a temperature resist-



ance such that when a plurality of pieces thereof  $1\frac{1}{2}$ " thick and 6" wide are stacked upon a surface heated to approximately 1550° F., no appreciable cracking of the pieces occurs.

2,716,071

## CELLULOSE ORGANIC ACID ESTER PLASTICS CONTAINING MONO-TERTIARY-BUTYL HYDROQUINONE MONO-SALICYLATE

Lester W. A. Meyer and Margaret H. Broyles, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 24, 1953, Serial No. 394,201

3 Claims. (Cl. 106—182)

1. A cellulose organic acid ester plastic comprising a cellulose organic acid ester selected from the group consisting of cellulose acetate, cellulose propionate, cellulose butyrate, cellulose acetate-propionate and cellulose acetate-butyrate, a plasticizer therefor, and, as an agent for inhibiting deterioration of the plastic by ultra-violet light, approximately 0.5%–1% based on the weight of the cellulose ester, of 3-mono-tertiary-butyl hydroquinone mono-salicylate.

2,716,072

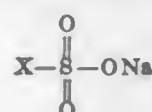
## METHYLCELLULOSE COMPOSITION AND METHOD

William J. Hanson, Long Beach, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 5, 1951, Serial No. 230,067

3 Claims. (Cl. 106—186)

1. A free-flowing pulverulent methylcellulose composition, adapted readily to wet with and dissolve in water over a temperature range of 0°–40° C., which comprises 30–70 per cent by weight of methylcellulose of particle size of 60 screen mesh and smaller (Tyler screen series), 20–50 per cent by weight of sodium acetate, and 10–20 per cent by weight of a solid synthetic anionic wetting agent of the formula,



wherein X represents one of the structures lauryloxy, coconut oil-fatty acid amido-polyethyleneoxy, and (long-chain alkyl)-phenyl, the several constituents being in intimate dispersion each with the others.

2,716,073

## HEAT-TREATED MAGNESIUM SOAP COMPOSITION

Joseph Cunder, East Orange, and Francis J. Licata, West Caldwell, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey

No Drawing. Application January 21, 1949, Serial No. 72,098

7 Claims. (Cl. 106—243)

1. A composition of matter which comprises a homogeneous mixture of a wax, and a heat-treated magnesium soap of a saturated fatty acid containing from 8 to 22 carbon atoms, the soap having been heated above its melting point for a period sufficient to substantially reduce its viscosity in the liquid state.

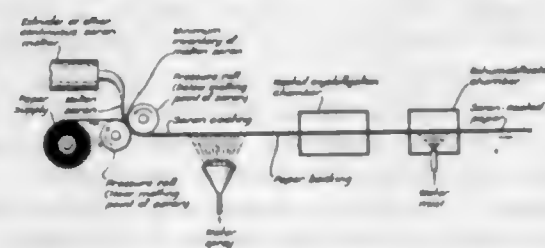
2,716,074

## METHOD OF COATING PAPER WITH CRYSTALLINE SARANS

William F. Mick, Midland, and Oliver B. Amley, Sanford, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application August 20, 1951, Serial No. 242,794

3 Claims. (Cl. 117—65)



1. The method which comprises continuously melting a normally crystalline saran, supplying it continuously at the rate at which it is melted to a pressure zone, simultaneously feeding a strip of paper to said pressure zone, bringing the paper and the molten polymer continuously into contact across the face of the paper sheet, pressing the polymer to a uniform thickness on the sheet, taking the so-coated paper away from the pressure zone continuously and at such a rate that the polymer is used in coating at substantially the same rate as it is melted and supplied for that purpose, promptly wetting thoroughly the uncoated side of the paper with water while the polymer on the coated side is still amorphous, and subjecting the so-treated sheet to a temperature of at least 55° C. at which the polymer crystallizes rapidly, for a time sufficient to crystallize the polymer.

2,716,075

## POLYETHYLENE COATING AND METHOD OF APPLYING THE SAME

Randolph A. Wiese, New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application March 17, 1954, Serial No. 416,971

7 Claims. (Cl. 117—72)

1. The method of producing a polyethylene coating on a structural surface which comprises successively applying thin layers of the following materials to said surface in the stated order: (1) a resorcinol-phenol-formaldehyde resin in an organic solvent (2) a phenol-formaldehyde-rubber cement and thereafter flame spraying thin layers of (3) a mixture of polyethylene and finely divided silica and (4) polyethylene.

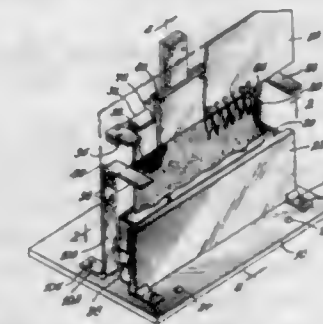
2,716,076

## METHOD AND APPARATUS OF RADIUM COATING

Rufus G. Fordyce, Glencoe, and Clifford J. Rugh, Oak Park, Ill., assignors to Luminous Processes, Inc., Chicago, Ill., a corporation of Delaware

Application October 8, 1952, Serial No. 313,758

8 Claims. (Cl. 117—112)



1. That method of applying radium luminous material and similar expensive coatings to clock hands and the like so that substantially the entire surface to be coated is covered comprising the steps of mounting a plurality of such articles on a common support with the surfaces to be coated substantially in a common vertical plane, providing a member having a vertical face covered with coating material, positioning the supporting member so that the upper limit of the portions of the articles to be coated conform to the upper edge of the vertical coating face, moving said articles laterally into engagement with the coating face, rocking the support and articles to bring curved portions of the articles into contact with said face, reversing the rocking movement of the support, and separating the articles from said face.

2,716,077

## PROCESS OF PRODUCING MATERIAL FOR USE IN THE CASTING OF PHOTOGRAPHIC FILM SUPPORT

Gustaaf Adam, Antwerp-Wilrijk, and Remi Gustave Tritsmans, Antwerp-Mortsel, Belgium, assignors to Gevaert Photo-Producten N. V., Antwerp-Mortsel, Belgium, a Belgian company

No Drawing. Application July 11, 1952, Serial No. 298,468. In Germany September 9, 1942

Section 1, Public Law 690, August 8, 1946

Patent expires September 9, 1962

9 Claims. (Cl. 117—118)

1. The process of producing a casting layer for the manufacture of photographic film support, which comprises coating the surface of a sheet of cellulose lower fatty acid ester soluble in an organic solvent with an aqueous solution of gelatin, allowing this solution to set, spreading on the thus-obtained gelatin layer an aqueous solution containing from 3 to 30 percent by weight of alkali metal hydroxide, allowing the aqueous solution to diffuse through the gelatin layer, saponifying said cellulose lower fatty acid ester sheet and then removing the gelatin layer.

2,716,078

## METHOD FOR TREATING ACTIVATED MANGANESE DIOXIDE

Jay Y. Welsh, Hamden, Conn., assignor to Olin Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application March 24, 1953, Serial No. 344,455

6 Claims. (Cl. 136—139)

1. The method of stabilizing activated manganese dioxide to increase its stability when used as the depolarizer of a dry cell which comprises subjecting the material to a temperature of substantially 90° C. to 150° C. for a period varying from 72 hours to 1 hour, the period of time decreasing as the temperature increases in an aqueous solution containing zinc chloride.



2,716,079

## HEAT TREATMENT OF METAL

Richard M. Wick, Allentown, and Stewart H. Jones and Samuel W. McClemens, Johnstown, Pa., assignors to Bethlehem Steel Company, a corporation of Pennsylvania

Application October 11, 1949, Serial No. 120,635  
5 Claims. (Cl. 148—10)



1. In a method of continuously heat treating metal wire or the like by passing a heating current of electricity therethrough, the steps comprising passing said wire past a first molten metal contact, thereafter passing said wire past a second molten metal contact and then again passing said wire past said first molten metal contact, said first molten metal contact being at ground potential and said second molten metal contact being at operating potential.

2,716,080

## PROCESS FOR INCREASING THE STRENGTH OF STEEL

Johannes Schwarz, Berlin-Dahlem, Germany

No Drawing. Application October 9, 1951,

Serial No. 250,567

Claims priority, application Germany October 13, 1950  
9 Claims. (Cl. 148—12)

1. A process of increasing the strength of steel, comprising the steps of annealing said steel, cold-drawing said annealed steel, thereby causing hardening of the surface area of the same; cold-hammering the thus cold-drawn steel in subsequent annular sections distributed over the surface of the same in at least one transit thereof so as to cause deep hardening of said steel, thereby causing hardening of the same throughout the thickness thereof; and alternately repeating said cold-drawing and cold-hammering until the strength of the steel is increased to a predetermined degree.

2,716,081

## FLUORESCENT SCREENS

Franklin J. Marks, Towanda, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 19, 1951,

Serial No. 257,199

11 Claims. (Cl. 154—95)

1. A fluorescent screen comprising a sheet support having on one surface in order a layer comprising discrete particles of fluorescent material dispersed in a binding agent composed of a mixture of cellulose nitrate and a water-insoluble cellulose ether taken from the group consisting of benzyl cellulose and alkyl cellulose wherein said alkyl group contains from 1 to 7 carbon atoms, said ether being present in a ratio of 0.1 to 3 parts per part by weight of the nitrate said dispersion being in a ratio of 1 part by weight of binding agent to 4 to 50 parts of fluorescent material and an adherent layer having a thickness of 0.002 to 0.05 millimeter composed of a hydrophobic cellulose carboxylic acid ester predominating in acetate groups taken from the group consisting of cellulose acetate, cellulose acetate propionate and cellulose acetate butyrate.

8. The process which comprises coating a thin layer of a hydrophobic cellulose carboxylic acid ester predominating in acetate groups taken from the group consisting of cellulose acetate, cellulose acetate propionate and cellulose acetate butyrate onto a casting surface, coating a dispersion comprising discrete particles of a fluorescent material in a mixture comprising (a) cellulose nitrate and a water-insoluble cellulose ether, said ether being present in a ratio of 0.1 to 3 parts per part by weight of the ni-

trate, said dispersion being in a ratio of 1 part by weight of the binding agent to 4 to 50 parts of fluorescent material and (b) a high-boiling cellulose acetate solvent onto the cellulose ester layer, applying a backing sheet to the layer of fluorescent particles and stripping the screen assembly from the casting surface.

2,716,082

## FLUORESCENT SCREENS

James S. Smith, Towanda, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 19, 1951,

Serial No. 257,200

9 Claims. (Cl. 154—95)

1. A fluorescent screen comprising a sheet support bearing on one surface in order a layer comprising discrete particles of fluorescent material dispersed in a hard-film-forming binding agent comprising a mixture of cellulose nitrate and an alkyl methacrylate polymer said alkyl group containing 1 to 4 carbon atoms, the cellulose nitrate being present in the proportion of 0.4 to 8.0 parts per part by weight of said polymer and an adherent protective layer having a thickness of 0.002 to 0.05 millimeter composed of a hydrophobic cellulose carboxylic acid ester predominating in acetate groups taken from the group consisting of cellulose acetate, cellulose acetate propionate and cellulose acetate butyrate.

4. The process which comprises coating a thin layer of a cellulose carboxylic acid ester predominating in acetate groups taken from the group consisting of cellulose acetate, cellulose acetate propionate and cellulose acetate butyrate onto a smooth casting surface, coating a dispersion comprising (a) discrete particles of a fluorescent material in a mixture comprising cellulose nitrate and an alkyl methacrylate polymer said alkyl group containing 1 to 4 carbon atoms, the cellulose nitrate being present in the proportion of 0.4 to 8.0 parts per part by weight of said polymer, the dispersion being in a ratio of 1 part by weight of the binding agent to 4 to 50 parts of the fluorescent material and (b) a high-boiling cellulose acetate solvent onto the cellulose ester layer, applying a backing sheet to the layer of fluorescent particles and stripping the screen assembly from the casting surface.

2,716,083

## BONDING OF YARNS TO RUBBER

Ernest E. Tallis, Coventry, England, assignor to Courtaulds Limited, London, England, a British company

No Drawing. Application August 25, 1950,

Serial No. 181,557

Claims priority, application Great Britain

September 23, 1949

14 Claims. (Cl. 154—136)

1. A composite article comprising cellulose yarns bonded to vulcanized rubber by means of an adhesive consisting essentially of a phenol-aldehyde condensation product having side chains containing an ethylenically unsaturated carbon-carbon linkage whereby said cellulose yarns are bonded to said rubber.

5. A process for the production of a composite article comprising cellulose yarns bonded to vulcanized rubber which comprises incorporating in the yarns an adhesive consisting essentially of a phenol aldehyde condensation product having side chains containing an ethylenically unsaturated carbon-carbon linkage, placing the yarns in contact with unvulcanized rubber and subjecting the assembly to a vulcanizing temperature.

## ERRATUM

For Class 195—31 see:  
Patent No. 2,716,237

2,716,084

## PRODUCTION OF ENDODextranase BY ASPERGILLUS WENTII

Virginia Whiteside Carlson and Warner W. Carlson, Birmingham, Ala., assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

No Drawing. Application December 1, 1953,

Serial No. 395,582

13 Claims. (Cl. 195—66)

1. The method of obtaining a filtrate containing endodextranase having the capacity to attack glucosidic linkages of large dextran molecules to thereby split the large molecules into relatively low molecular weight segments, which comprises inoculating *Aspergillus wentii* into a nutrient medium comprising an aqueous composition containing dissolved metallic salts and, per liter of water, from about 2.0 gms. to about 6.0 gms. of a substance selected from the group consisting of amino acids and protein sources of amino acids, and from about 5.0 gms. to about 50.0 gms. of, as sole carbohydrate, a substance selected from the group consisting of starch and glycogen, incubating the culture until the endo-dextranase is elaborated therein, and filtering the culture to remove the mold mat and leave a filtrate containing the endo-dextranase.

2,716,085

## ADHESIVE PETROLEUM LUBRICANT

George W. Ayers, Chicago, and William A. Krewer, Crystal Lake, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application September 27, 1951,

Serial No. 248,628

7 Claims. (Cl. 196—149)

1. A lubricating composition characterized by its adhesiveness to metal surfaces, comprising a major portion of a residuum from the distillation of a petroleum oil and a small amount of unctuous, stringy, non-crystalline wax tailings having an asphaltene content of not above 4 per cent by weight and a petroleum resin content of at least about 30 per cent by weight, a wax content of under 2 per cent by weight, and a sulfur content of about 2.4 per cent by weight.

2,716,086

## PROCESS OF AND APPARATUS FOR FERMENTING ORGANIC SUBSTANCES

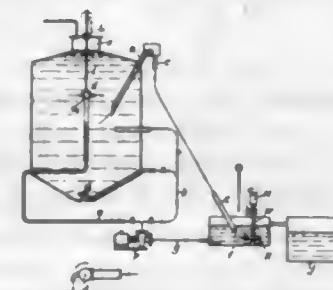
Ferdinand Schmidt and Walter Eggersgluess,

Verden (Aller), Germany

Application June 17, 1950, Serial No. 168,698

Claims priority, application Switzerland June 21, 1949

6 Claims. (Cl. 210—2)



3. An apparatus for the fermentation of agricultural sludge of vegetable or animal origin comprising in combination: a fermentation chamber, at least one nozzle movably arranged in the center region of said chamber for movement in vertical direction and for rotation, a conduit communicating with said nozzle and arranged for leading sludge to be fermented from a supply of sludge to said nozzle, the outlet of said nozzle being arranged for ejecting a jet stream of sludge in a substantially radial direction towards the wall of the chamber, and means connected with said nozzle for causing a simultaneous vertical movement and rotation thereof.

2,716,087

## METHOD OF FILTERING DISPERSIONS OF METAL OXIDES AND HYDROXIDES IN LUBRICATING OILS

Richard L. Woodruff, Concord, Paul K. Mulvany, Richmond, and James O. Clayton, Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 29, 1951,

Serial No. 218,284

5 Claims. (Cl. 252—18)

1. In the process of preparing liquid lubricating oil compositions comprising forming an admixture of a lubricating oil, a dihydric alcohol, a dispersant, an inorganic substance selected from the group consisting of polyvalent metal oxides and hydroxides, removing dihydric alcohol, and filtering the remaining admixture, the improvement which comprises blending into said admixture, prior to the filtration step, a filtering agent in an amount such that the mol ratio of said filtering agent to said inorganic substance has a value from about 0.1 to about 4.0, wherein said filtering agent is selected from the group consisting of lactic acid, glycolic acid, and the calcium salts of these acids, said lubricating oil composition being substantially free of acid from said filtering agent.

2,716,088

## LUBRICATING OIL COMPOSITION

Louis A. Mikeska, Westfield, and Charles A. Cohen, Roselle Park, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Original application January 16, 1951, Serial No. 206,313. Divided and this application January 2, 1952, Serial No. 264,678

3 Claims. (Cl. 252—33)

1. An improved lubricating composition which comprises a major proportion of a mineral lubricating oil and a minor proportion, sufficient to improve the detergency characteristics of said lubricating oil of a naphthenic non-aromatic calcium sulfonate of a white oil olefin, said white oil olefin having a molecular weight in the range of 450 to 600 and being derived from a naphthenic, non-aromatic white oil by chlorination with not more than about 0.5 mol of chlorine per mol of hydrocarbon at an elevated temperature below 100° C., followed by dehydrochlorination.

2,716,089

## MOTOR OIL INHIBITOR

Elmer B. Cyphers and Leonard E. Moody, Cranford, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application July 10, 1952,

Serial No. 298,174

6 Claims. (Cl. 252—33.6)

1. A composition comprising a mineral lubricating oil and a minor amount, sufficient to suppress coking of said oil, of an antimony salt of a dihydrocarbon dithiocarbamic acid, each of the hydrocarbon portions of said acid having in the range of 1 to 20 carbon atoms.

2,716,090

## PLASTICIZING AGENT FOR MINERAL OIL SOLUTIONS

Nillo V. Hakala, Rahway and James E. J. Kane, Elizabeth, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application August 30, 1950,

Serial No. 182,419

9 Claims. (Cl. 252—42.7)

1. The method of preparing a mineral oil solution of a metal salt of a phenol sulfide which comprises reacting a phenol sulfide with a basic acting metal compound in the presence of a mineral lubricating oil containing a plasticizing amount of an alkylated phenol containing at least two alkyl groups of branched chain structure, each of which contains from 5 to 16 carbon atoms.



**2,716,091**  
**REGENERATION OF SOLID CONTACT MATERIAL**  
 Frederick E. Ray, Woodbury, N. J., assignor to Socony Mobil Oil Company, Inc., a corporation of New York  
 Application December 26, 1952, Serial No. 327,951

1 Claim. (Cl. 252-418)

The method of regenerating a spent catalyst in a regeneration zone which comprises: passing catalyst downwardly as a compact column through a regeneration zone, introducing air into a confined zone located above the bed of solids in said regeneration zone, passing the air downwardly through at least one elongated, laterally-confined passage to a level a substantial distance below the surface of the bed of catalyst in said zone, expanding the stream of air gradually near the bottom of said laterally-confined passage, passing the expanded stream through a vertical skirt at the lower end of the confined passage having a height, H, of at least that expressed by the equation

$$H = KU \left( \frac{T}{P} \right)^{1/2}$$

where H is the height in feet, K is a constant=0.01, and U is the velocity of the air at the top of the skirt in feet per second measured at 60° F. and atmospheric pressure, T is the temperature of the gas in degrees Rankine, and P is the absolute pressure in the distributor in pounds per square inch, whereby the air is distributed into the catalyst bed without turbulence of the catalyst under the distributor, and withdrawing flue gas from said catalyst bed at levels above and below said skirt substantially removed from the lower end of said vertical skirt.

**2,716,092**  
**VINYL CHLORIDE RESINS STABILIZED WITH A MIXTURE CONTAINING A PHENOLATE AND A POLYVALENT METAL SALT OF A FATTY ACID**  
 William E. Leistner, Brooklyn, and Arthur C. Hecker, Richmond Hill, N. Y.

No Drawing. Application February 4, 1953,

Serial No. 335,166

7 Claims. (Cl. 260-23)

6. A plastic composition comprising a polyvinyl chloride resin and a stabilizer therefor, the stabilizer including a barium hydrocarbon-substituted phenolate and the cadmium salt of a fatty acid containing 6-18 carbon atoms to the molecule, the hydrocarbon substituent in the phenolate containing a total of 4-24 carbon atoms and the said phenolate and salt being mixed substantially uniformly into the plastic.

**2,716,093**  
**ACRYLONITRILE POLYMER SOLUTIONS AND PROCESS OF SHAPING THE SAME**

William R. McClellan, Kennett Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 12, 1951,

Serial No. 231,248

20 Claims. (Cl. 260-29.6)

1. An aqueous solution containing from 8 to 25%, by weight thereof, of an acrylonitrile polymer of at least 85% acrylonitrile content, said solution comprising from 32 to 50%, by weight of the solution, of a salt, a concentrated aqueous solution of which is a solvent for the acrylonitrile polymer, which polymer is dissolved in amount from 8 to 25% by weight of the solution and from 25 to 100% by weight of the salt, from 15 to 35%, by weight of the solution, of a neutral organic oxy compound liquid at 25° C. and miscible at 25° C. with water in all proportions, containing only oxygen, hydrogen, and not more than six carbons with from one to three carbons per oxygen, and from 5 to 35%, by weight of the solution, of water.

**2,716,094**  
**FREE-FLOWING, NON-CAKING COMPOSITIONS**  
 Henry L. Morrill, Clayton, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 17, 1952,

Serial No. 315,436

6 Claims. (Cl. 260-41)

1. A composition comprising from about 15 to 40% by weight of a hygroscopic water-soluble polyelectrolyte having a weight-average molecular weight of at least 10,000 and containing a substantially linear continuous carbon to carbon chain derived by the polymerization of an aliphatic unsaturated group, said polymer being selected from the class consisting of salts of polymers of acrylic acid, polyacrylic acids, salts of polymers of methacrylic acid, polymethacrylic acids, salts of copolymers of unsaturated polycarboxylic acids and at least one other mono-olefinic monomer, copolymers of unsaturated polycarboxylic acid anhydrides and at least one other mono-olefinic monomer, salts of the copolymer of the partial alkyl esters of unsaturated polycarboxylic acids and at least one other mono-olefinic monomer, copolymers of the partial alkyl esters of unsaturated polycarboxylic acids and at least one other mono-olefinic monomer, salts of polymers of sulfonated hydrocarbons, polymers of unsaturated amines, and polymers of unsaturated amides; and from about 60% to about 85% by weight of a mixture comprising finely divided, pulverulent solid particles of from about 0.25 parts to about 2.0 parts by weight of an attapulgite clay for each part by weight of an acid modified sub-bentonite clay.

**2,716,095**  
**ACRYLONITRILE POLYMERS STABILIZED WITH CERTAIN FORMALS AND ACETALS**

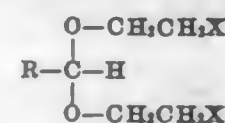
George W. Stanton and Forrest A. Ehlers, Walnut Creek, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 4, 1952,

Serial No. 307,918

6 Claims. (Cl. 260-45.7)

1. A composition of matter the essential constituents of which are a polymeric body containing at least 60 per cent by weight of acrylonitrile polymerized in the polymer molecule, any balance being another monoethylenically unsaturated compound copolymerized with acrylonitrile, and, as a stabilizing agent therefor, from 1 to 20 per cent by weight of a compound having the general formula



wherein R is selected from the group consisting of hydrogen and methyl, and both substituents X are alike and are selected from the group consisting of hydrogen, chlorine, methoxyl, ethoxyl and methoxy-ethoxyl radicals.

**2,716,096**  
**STABILIZED ORGANIC COMPOSITIONS CONTAINING A KETONE CONDENSATION PRODUCT OF BISPHENYL TYPE COMPOUNDS**

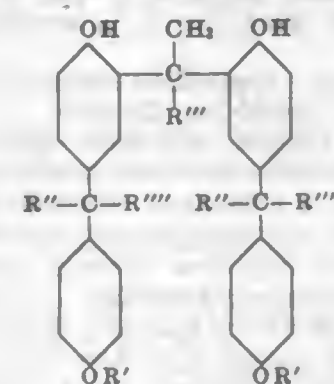
David W. Young, Westfield, Delmer L. Cottle, Highland Park, and Wilbur F. Fischer, Cranford, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Original application March 27, 1951, Serial No. 217,884, now Patent No. 2,625,568, dated January 13, 1953. Divided and this application July 28, 1952, Serial No. 301,362

15 Claims. (Cl. 260-45.95)

13. A method of stabilizing other organic material normally subject to oxidative deterioration which com-

prises adding thereto a minor proportion, effective as an antioxidant, of a ketone condensation compound of a bisphenyl type compound, said ketone condensation product corresponding to the general formula:



wherein R is a radical selected from the group consisting of hydrogen and alkyl radicals having from 1 to 3 carbon atoms, R'' and R''' are radicals, which can be the same or different, selected from the group consisting of hydrogen and alkyl radicals and the sum of the carbon atoms of R'' and R''' does not exceed 5, and R'''' is a radical selected from the group consisting of methyl and ethyl radicals.

**2,716,097**  
**POLYMERS OF VINYL SUBSTITUTED BENZAL ACETOPHENONES**

Cornelius C. Unruh and Charles F. H. Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 13, 1951,

Serial No. 246,516

16 Claims. (Cl. 260-47)

2. A process for preparing a polymer which comprises condensing with an aromatic aldehyde having the general formula



wherein R represents a univalent aromatic monocyclic radical of the benzene series whose free valence belongs to the aromatic nucleus, there being no more than four hydrogen atoms attached directly to the carbon atoms of said nucleus, a polymer of a compound having the general formula



wherein D represents a bivalent aromatic radical whose free valences belong to the aromatic nucleus and which radical is selected from the group consisting of monocyclic radicals of the benzene series and bicyclic radicals of the naphthalene series, in the presence of a condensation catalyst.

**2,716,098**  
**WATER SOLUBLE CONDENSATION PRODUCTS WITH A TANNING ACTION**

Robert Bledermann, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland

No Drawing. Application February 7, 1952,

Serial No. 270,528

Claims priority, application Switzerland February 13, 1951

6 Claims. (Cl. 260-49)

1. A tanning agent obtained by reacting formaldehyde in an aqueous alkaline medium at a raised temperature with a mixture of a hydroxypolyarylsulphone sulphonic acid corresponding to the formula



wherein Ar represents an aromatic radical selected from the group consisting of hydroxyphenyl, cresyl and naphthyl, Ph represents a radical selected from the group consisting of hydroxyphenyl and cresyl, and n represents

sents a whole number greater than 1, and a hydroxypolyarylsulphone corresponding to the formula



wherein Ar, Ph and n have the meanings defined above.

**2,716,099**  
**EPOXY RESINS FROM ALKYL PHENOL NOVOLAC RESINS**

Theodore F. Bradley, Orinda, and Herbert A. Newey, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application January 19, 1952,

Serial No. 267,306

9 Claims. (Cl. 260-59)

1. A process for production of an epoxy resin which comprises condensing epichlorhydrin in basic medium with novolac resin of an aldehyde and a mononuclear monohydric alkylphenol containing at least 4 carbon atoms in the alkyl group, which novolac resin contains about 3 to 12 phenolic hydroxyl groups per average molecule, said condensation being effected by mixing the novolac resin with at least about 3 mols of epichlorhydrin per phenolic hydroxyl equivalent of the novolac resin and reacting the mixture at about 60° to 150° C. with addition of about one mol of an alkali metal hydroxide per phenolic hydroxyl equivalent of the novolac resin.

**2,716,100**  
**RESINOUS, LINEAR POLYMERIC CHLORO-ALKANEPHOSPHONATES**

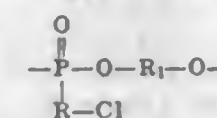
Harry W. Coover, Jr., and Marvin A. McCall, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 10, 1952,

Serial No. 308,928

10 Claims. (Cl. 260-61)

1. A resinous, linear polymeric organo-phosphonate comprising the recurring structural unit



wherein R represents a saturated divalent alkylene group containing from 1 to 12 carbon atoms and R<sub>1</sub> represents an aromatic group selected from the group consisting of a phenylene group, a diphenylene group and a diphenylene sulfone group.

**2,716,101**  
**POLYMERIC ORGANO-PHOSPHONATES CONTAINING PHOSPHATO GROUPS**

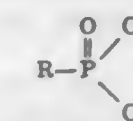
Harry W. Coover, Jr. and Marvin A. McCall, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 10, 1952,

Serial No. 308,929

8 Claims. (Cl. 260-61)

1. A process for preparing resinous polymeric organo-phosphonates containing phosphato groups which comprises heating in the presence of an anhydrous alkaline-earth halide condensation catalyst a mixture comprising approximately 50.0 mole percent of a dihydroxy aromatic compound selected from the group consisting of a dihydroxybenzene, a dihydroxy diphenyl, and a dihydroxydiphenyl sulfone, and from 0.1 to 49.9 mole percent of an organo-phosphonic acid dichloride having the general formula:



wherein R represents a member selected from the group consisting of an alkyl group containing from 1 to 12 car-



bon atoms, a chloroalkyl group containing from 1 to 12 carbon atoms, a cyclohexyl group, a phenyl group and a tolyl group, and from 49.9 to 0.1 mole percent of a tri-functional phosphorus compound selected from the group consisting of phosphorus oxychloride, triphenyl phosphate, tricresyl phosphate, diphenylchlorophosphate and phenyl dichlorophosphate, at a temperature of from 90° to 300° C., until the condensation reaction is substantially complete.

2,716,102

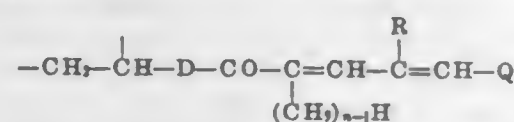
## VINYL CINNAMALACETOPHENONE POLYMERS

Cornelius C. Unruh and Charles F. H. Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 13, 1951,  
Serial No. 246,515

10 Claims. (Cl. 260—64)

1. A polymer containing recurring units having the general formula



wherein  $n$  represents a positive integer of from 1 to 4, Q represents a univalent aromatic monocyclic radical of the benzene series whose free valence belongs to the aromatic nucleus, D represents a bivalent aromatic radical whose free valences belong to the aromatic nucleus and which radical is selected from the group consisting of monocyclic radicals of the benzene series and bicyclic radicals of the naphthalene series, and R represents a member of the class consisting of a hydrogen atom and alkyl groups of from 1 to 5 carbon atoms.

2,716,103

## PREPARATION OF POLYMER OF VINYL BENZALACETOPHENONE

Cornelius C. Unruh and Charles F. H. Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 13, 1951,  
Serial No. 246,518

1 Claim. (Cl. 260—64)

A process for preparing a polymer which comprises condensing polyvinyl-p-acetophenone with benzaldehyde in the presence of trimethyl benzyl ammonium hydroxide as a condensation catalyst.

2,716,104

## MULTICOMPONENT INTERPOLYMERS OF VINYLIDENE CYANIDE

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application January 26, 1952,  
Serial No. 268,461

13 Claims. (Cl. 260—78.5)

1. An interpolymers comprising vinylidene cyanide copolymerized with two conjugated aliphatic dienes, the vinylidene cyanide component being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C., and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin, said interpolymers containing substantially 50 mole per cent copolymerized vinylidene cyanide.

2,716,105  
MULTICOMPONENT INTERPOLYMERS OF VINYLIDENE CYANIDE

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application January 26, 1952,  
Serial No. 268,462

20 Claims. (Cl. 260—78.5)

1. An interpolymers comprising vinylidene cyanide copolymerized with a conjugated aliphatic diene and another monoolefinic monomer copolymerizable with vinylidene cyanide, the vinylidene cyanide component being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C., and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin, said interpolymers containing substantially 50 mole per cent copolymerized vinylidene cyanide.

2,716,106

## MULTICOMPONENT POLYMERS OF VINYLIDENE CYANIDE

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application January 26, 1952,  
Serial No. 268,463

16 Claims. (Cl. 260—78.5)

1. An interpolymers comprising vinylidene cyanide copolymerized with two other monoolefinic monomers copolymerizable therewith, the vinylidene cyanide component being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C., and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin.

2,716,107

## SYNTHETIC RUBBER EMULSION POLYMERIZATIONS IN THE PRESENCE OF AN ALDEHYDE OR KETONE SULFOXYLATE

Robert W. Brown, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 30, 1953,  
Serial No. 345,669

16 Claims. (Cl. 260—84.1)

1. In the process of polymerizing an aqueous emulsion of polymerizable synthetic rubber-forming monomers selected from the group consisting of butadienes-1,3 and mixtures of butadienes-1,3 with compounds which contain a single CH<sub>2</sub>=C< group and are copolymerizable with butadienes-1,3, and containing an organic peroxide catalyst, an iron salt, and an alkali salt of ethylenediamine tetraacetic acid, the step of carrying out said polymerization in the presence of 0.0002 to 0.02 gram equivalent of a sulfoxylate selected from the group consisting of ketone sulfoxylates and aldehyde sulfoxylates per 100 grams of said polymerizable monomers.

2,716,108

COPOLYMERS OF ACRYLONITRILE AND  $\alpha$ -CHLOROACETAMIDOACRYLIC ACID AND SALTS THEREOF

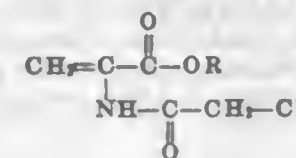
Harry W. Coover, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application November 14, 1952,  
Serial No. 320,600

12 Claims. (Cl. 260—85.5)

1. A copolymer consisting of from 60 to 95 percent by weight of acrylonitrile and from 40 to 5 percent by

weight of a compound represented by the following general formula:



wherein R represents a member selected from the group consisting of a hydrogen atom, an alkali-metal atom and an ammonium group.

2,716,109

## POLYMERIC 1-CHLORO-1,2-DIFLUOROETHYLENE

Robert P. Ruh and Marion R. Rector, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 4, 1951,  
Serial No. 249,802

2 Claims. (Cl. 260—92.1)

1. As a new synthetic resin, a solid polymer of 1-chloro-1,2-difluoroethylene, being readily fusible and soluble in common organic solvents, and being substantially inert to oxidation, thermal decomposition, and to attack by acids, alkali metal hydroxides, and moisture.

2,716,110

## POLYMERIZATION OF VINYL CHLORIDE WITH N-CHLOROPHTHALIMIDE MODIFIER

Dexter C. Seymour, Wyckoff, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 26, 1952,  
Serial No. 322,803

4 Claims. (Cl. 260—92.8)

1. The method which comprises polymerizing vinyl chloride at 25° C. to 60° C. in the presence of a free radical producing polymerization initiator and 0.1% to 8% of N-chlorophthalimide based on the weight of the vinyl chloride monomer.

2,716,111

## POLYMERIZATION OF VINYL CHLORIDE WITH A BENZENESULFONYL CHLORIDE MODIFIER

Dexter C. Seymour, Wyckoff, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 26, 1952,  
Serial No. 322,806

16 Claims. (Cl. 260—92.8)

1. The method which comprises polymerizing vinyl chloride at 25° C. to 60° C. in the presence of a free radical producing polymerization initiator and 0.1% to 8%, based on the weight of the vinyl chloride monomer, of material selected from the group consisting of benzenesulfonyl chloride, and its monomethyl and monobromo derivatives.

2,716,112

## POLYMERIZATION OF VINYL CHLORIDE WITH 1,1,1-TRIBROMO-2-METHYLPROPANOL-2 MODIFIER

Dexter C. Seymour, Wyckoff, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 26, 1952,  
Serial No. 322,807

4 Claims. (Cl. 260—92.8)

3. A process for production of polyvinyl chloride latex which comprises polymerizing vinyl chloride at 25° C. to 60° C. in aqueous emulsion in the presence of a free radical producing polymerization initiator and 0.1% to 8%, based on the weight of the vinyl chloride monomer, of 1,1,1-tribromo-2-methylpropanol-2.

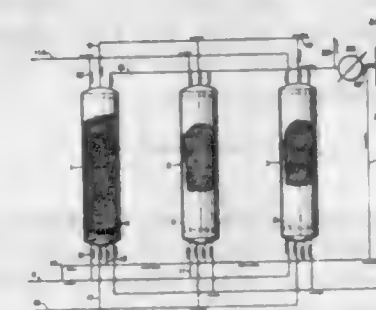
2,716,113

## SEPARATION PROCESS

William Nelson Axe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 26, 1950, Serial No. 170,430

13 Claims. (Cl. 260—96.5)



1. A process for separating an organic compound capable of forming a solid adduct with an amide selected from the class consisting of urea and thiourea from admixture with an organic compound not capable of forming such an adduct which comprises passing said admixture downwardly through a fixed bed of said amide bound on an inert granular support by a viscous activator for the adduct-forming reaction selected from a group consisting of glycerol, glycol, triethanolamine and diethanolamine at a rate sufficient to permit said admixture to contact said bed for a period of time within the range of one minute to 2 hours, maintaining said bed at a temperature within the range of 50° to 100° F. and under a pressure sufficient to maintain said admixture in the liquid phase, discontinuing flow of said admixture through said bed when the adduct-forming capacity of said amide has been depleted, regenerating the resulting adduct-containing bed by passing a regenerating medium comprising an inert gaseous heat carrier therethrough at a temperature within the range of 125 to 250° F. and at a pressure within the range of atmospheric to 500 pounds per square inch, removing said regenerating medium containing liberated adduct-forming organic compound and recovering said adduct-forming compound as a product, washing said regenerated bed with a liquid washing medium comprising a low boiling aliphatic hydrocarbon at a temperature within the range of 125° to 150° F. to remove any remaining adduct-forming compound therefrom, separating said washing medium from any adduct-forming compound which it contains, and cooling said bed by reducing the pressure on said bed containing said liquid washing medium to thereby cause said medium to evaporate and cool said bed.

2,716,114

## PROCESS FOR THE PRODUCTION OF CAPROLACTAM

Bruno Blaser, Dusseldorf-Holthausen, and Günther Tischbirek, Dusseldorf-Beurath, Germany, assignors to Henkel & Cie., G. m. b. H., Dusseldorf-Holthausen, Germany, a limited liability company of Germany

No Drawing. Application August 4, 1951,  
Serial No. 240,441

Claims priority, application Germany May 16, 1951

7 Claims. (Cl. 260—239.3)

7. The method of producing caprolactam, which comprises reacting cyclohexanonoxime with sulfur trioxide in the presence of a solvent selected from the class consisting of sulfur dioxide and carbon bisulphide.



2,716,115

**PROCESS OF PRODUCING CAPROLACTAM**  
Bruno Blaser, Dusseldorf-Urdenbach, and Günther Tischbirek, Dusseldorf-Benrath, Germany, assignors to Henkel & Cie., G. m. b. H., Dusseldorf-Holthausen, Germany, a limited liability company of Germany  
No Drawing. Application July 23, 1952,  
Serial No. 300,494

Claims priority, application Germany July 27, 1951  
10 Claims. (Cl. 260—239.3)

1. In a process of producing caprolactam by rearranging cyclohexanone oxime, the step comprising reacting cyclohexanone oxime with sulfur trioxide in the presence of tetrachloro ethylene.

2,716,116

**SYNTHESIS OF SAPOGENIN DERIVATIVES**  
Thomas D. Fontaine and Harry M. Doukas, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of Agriculture  
No Drawing. Application September 16, 1952,  
Serial No. 309,956

3 Claims. (Cl. 260—239.55)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
1. A process for preparing  $\Delta^3$ -22-isofurostene-3 $\beta$ ,26-diol which comprises reacting, under substantially anhydrous conditions,  $\Delta^3$ -22-isoprostene-3 $\beta$ -ol with lithium aluminum hydride in an inert organic solvent acidified with hydrogen chloride.

2,716,117

**STABILIZED PURE PHENOTHIAZINE**  
Reinhard Böker and Richard Brodersen, Frankfurt am Main, Germany, assignors to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius und Brüning, Frankfurt am Main Höchst, Germany, a German company  
No Drawing. Application December 9, 1952,  
Serial No. 325,017

Claims priority, application Germany December 20, 1951  
3 Claims. (Cl. 260—243)

1. Phenothiazine containing hexamethylene tetramine as a stabilizer, wherein the proportion of hexamethylene tetramine incorporated with the pure phenothiazine amounts to about 0.3 to 3.0 per cent.

2,716,118

**PROCESS OF PRODUCING VINYL PYRIDINES**  
Francis E. Cislak, Indianapolis, Ind., assignor to Reilly Tar & Chemical Corporation, Indianapolis, Ind., a corporation of Indiana  
No Drawing. Application November 15, 1948,  
Serial No. 60,181

1 Claim. (Cl. 260—290)

A process for producing vinylpyridine which comprises passing the vapors of an ethylpyridine over a solid dehydrogenation catalyst at a temperature of about 700° C. to produce a vinylpyridine and recovering the vinylpyridine thus produced.

2,716,119

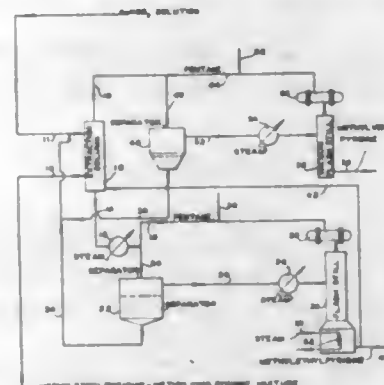
**PROCESS OF MAKING 2-METHYL-5-VINYL PYRIDINE**  
Francis E. Cislak, Indianapolis, Ind., assignor to Reilly Tar & Chemical Corporation, Indianapolis, Ind., a corporation of Indiana  
No Drawing. Application July 18, 1950,  
Serial No. 174,584

1 Claim. (Cl. 260—290)

A process for producing 2-methyl-5-vinylpyridine which comprises passing vapors of 2-methyl-5-ethylpyridine over a solid dehydrogenation catalyst at a temperature of about 700° C. and not substantially exceeding 800° C. to produce 2-methyl-5-vinylpyridine and recovering the 2-methyl-5-vinylpyridine thus produced.

2,716,120

**SEPARATION OF ALKENYLPYRIDINES FROM ALKYL PYRIDINES**  
Donald M. Haskell, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware  
Application January 3, 1952, Serial No. 264,811  
11 Claims. (Cl. 260—290)



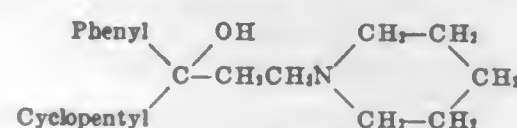
1. A method of separating an alkylpyridine containing at least one alkyl group having at least two carbon atoms and a total of not over ten carbon atoms in side chains from admixture with an alkenylpyridine containing at least one alkenyl group having at least two carbon atoms and a total of not over ten carbon atoms in side chains, said alkenylpyridine having the double bond on an alpha carbon atom which comprises contacting same with an aqueous solution more acid than said pyridine and having a pH less than 7 but not less than 2, and separating resulting organic and aqueous phases from each other, the latter being enriched in said alkylpyridine and the former being enriched in said alkenylpyridine.

2,716,121

**BASIC TERTIARY PIPERIDINO ALCOHOLS**  
John Joseph Denton, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine  
No Drawing. Application November 3, 1949,  
Serial No. 125,383

2 Claims. (Cl. 260—294.7)

1. A compound of the group consisting of the tertiary amino alcohol of the formula



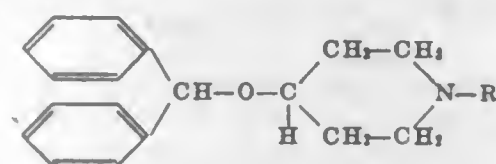
and acid addition salts thereof.

2,716,122

**N-SUBSTITUTED-4-BENZHYDRYL ETHER-PIPERIDINES**  
Joseph Levy, Paramus, N. J., Saul Chodroff, Brooklyn, N. Y., and Roland Kapp, Newark, N. J., assignors to Nopco Chemical Company, Harrison, N. J., a corporation of New Jersey  
No Drawing. Continuation of application Serial No. 154,733, April 7, 1950. This application October 19, 1953, Serial No. 387,062

3 Claims. (Cl. 260—294.7)

1. A compound of the class consisting of a free base and its acid addition salts, said free base having the structural formula:



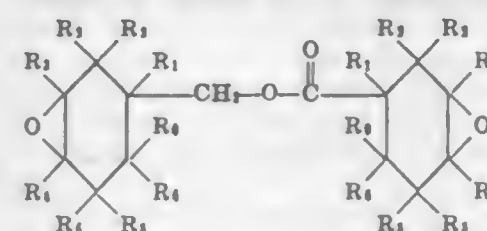
wherein R is selected from the group consisting of benzyl and cyclohexyl radicals.

2,716,123

**DIEPOXIDES OF CYCLOALIPHATIC ESTERS**  
Frederick C. Frostick, Jr. and Benjamin Phillips, Charleston, W. Va., assignors to Union Carbide and Carbon Corporation, a corporation of New York  
No Drawing. Application August 13, 1953,  
Serial No. 374,145

8 Claims. (Cl. 260—348)

1. A diepoxide represented by the general formula:



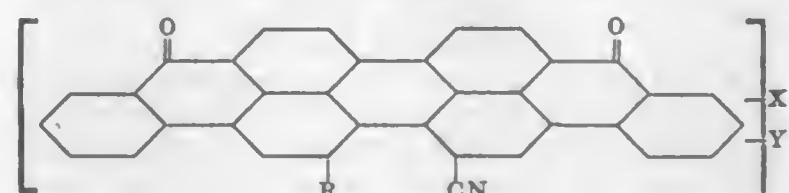
wherein R<sub>1</sub> through R<sub>6</sub> represent members selected from the group consisting of hydrogen and lower alkyl radicals.

2,716,124

**NEW DIBENZANTHRONE VAT DYE COMPOUNDS**  
James M. Straley and Raymond C. Harris, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
No Drawing. Application March 25, 1954,  
Serial No. 418,781

6 Claims. (Cl. 260—353)

1. The dibenzanthrone compounds having the general formula:



wherein R represents a member selected from the group consisting of a hydrogen atom, a methyl group and a cyano group and X and Y each represents a member selected from the group consisting of a hydrogen atom and a methyl group.

2,716,125

**3(β)-ACETOXY-16(β)-ACETOXYISOCAPROOXY-ALLOPREGNANEDIONE-11,20**  
Ralph F. Hirschmann, Westfield, Norman L. Wendler, Summit, and William V. Ruyle, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey  
No Drawing. Application October 14, 1953,  
Serial No. 386,101

3 Claims. (Cl. 260—397.45)

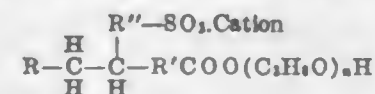
1. 3(β)-acetoxy - 16(β - acetoxyisocaprooxy) - allopregnanedione-11,20.

2,716,126

**CERTAIN ESTER ACIDS AND CERTAIN ESTER SALTS OF SULFOAROMATIC FATTY ACIDS, AND METHOD OF MAKING SAME**  
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware  
No Drawing. Application May 27, 1950,  
Serial No. 164,858

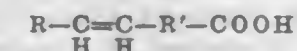
34 Claims. (Cl. 260—402)

1. The ester salt of a sulfoaryl fatty acid of the following structure:

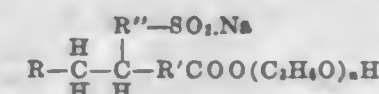


in which R'' is an aryl radical having not more than 25

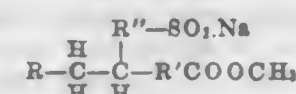
carbon atoms; said sulfoaryl fatty acid being an addition product of a monoethylenic higher fatty acid of the structure:



in which R is the monovalent hydrocarbon radical having a terminal methyl radical and connected with the ethylenic linkage, and R' is the divalent hydrocarbon radical connecting the ethylenic linkage with the carboxyl radical; n being a whole number varying from 10 to 60; and with the further proviso that the sodium salt



is predominantly hydrophobe in character, and the corresponding methyl ester of the sodium salt



is water-soluble and predominantly hydrophile.

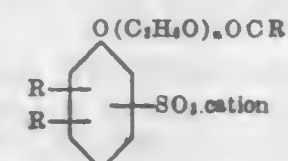
2,716,127

**ESTERS OF OXYPROPYLATED DERIVATIVES OF SUBSTITUTED PHENOL SULFONIC ACID SALTS, AND METHOD OF MAKING SAME**

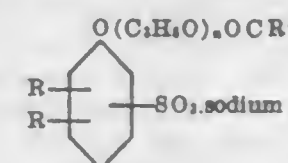
Melvin De Groote, University City, Mo., assignor to Petrolite Corporation, a corporation of Delaware  
No Drawing. Application May 27, 1950,  
Serial No. 164,859

6 Claims. (Cl. 260—402)

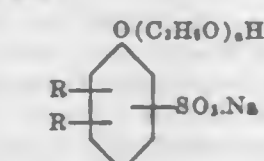
1. An ester salt of the following formula:



in which R is selected from the class of hydrocarbon substituents and hydrogen atoms, with the proviso that there must be at least one hydrocarbon substituent and that the total number of carbon atoms substituted in the phenolic ring be not less than 12 and not over 35, and with the proviso that n be not less than 10 and not more than 50; in which R'CO is the acyl radical of a monocarboxy detergent-forming acid having at least 8 and not over 56 carbon atoms; and with the proviso that the corresponding sodium salt



in which the occurrences of R, R' and n have their previous significance and n has the identical value as previously, shall be soluble in non-aromatic kerosene; and with the further proviso that the corresponding unacylated sodium salt



in which the occurrences of R and n have their previous significance and n has the identical value as previously, shall be insoluble in non-aromatic kerosene.



2,716,128

**CONDENSATION PRODUCT OF OLEFINIC HYDROCARBON WITH POLYSILOXANE AND METHOD OF PRODUCTION THEREOF**

James P. West, Westmont, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 31, 1951, Serial No. 229,273

12 Claims. (Cl. 260-448.2)

1. A condensation process which comprises reacting an olefinic hydrocarbon and a polysubstituted polysiloxane whose substituents consist of alkyl groups in the presence of a catalyst yielding free radicals at condensation conditions including a temperature at least as high as the decomposition temperature of said catalyst, and recovering the resultant condensation product.

2,716,129

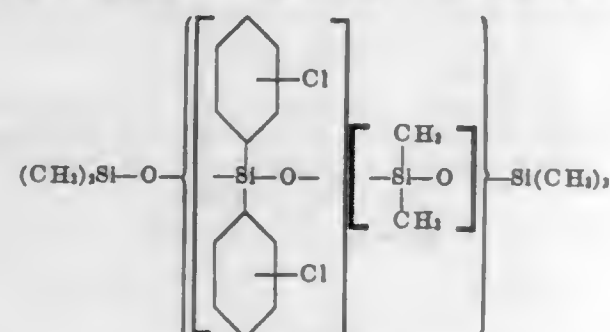
**HALOGENATED ORGANOPOLYSILOXANES**

Donald F. Wilcock, Marblehead, Mass., and Murray M. Sprung, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application February 19, 1952, Serial No. 272,277

5 Claims. (Cl. 260-448.2)

1. A liquid composition of matter comprising a linear organopolysiloxane corresponding to the general formula



the di-(monochlorophenyl)siloxy units comprising a minor molar proportion up to 5 mol percent of the total number of the latter units and the dimethylsiloxy units.

2,716,130

**SYNTHESIS OF PANTOTHENIC ACID-2' PHOSPHATE**

James Baddiley and Eric Malcolm Thain, London, England, assignors to National Research Development Corporation, London, England, a British corporation

No Drawing. Application November 26, 1951, Serial No. 258,308

Claims priority, application Great Britain December 4, 1950

6 Claims. (Cl. 260-461)

1. A method of producing pantothenic acid 2'-phosphate comprising intimately contacting pantolactone 2-phosphate with an ester of beta-alanine having the amino group unsubstituted; hydrolyzing the ester thus obtained to pantothenic acid 2'-phosphate; and isolating pantothenic acid 2'-phosphate from the reaction mixture thus obtained.

2,716,131

**PROCESS FOR MANUFACTURING ALKYLNITRILE-2-ACETOXY**

Karl Meinel, Burghausen, Upper Bavaria, Germany, assignor to Wacker-Chemie G. m. b. H., a corporation

No Drawing. Application January 21, 1953, Serial No. 332,543

Claims priority, application Germany March 7, 1952, 5 Claims. (Cl. 260-465.4)

1. Process for producing alkyl nitrile-2-acetoxy which comprises reacting an alkali cyanide with an alkylidene diacetate in the presence of water at a temperature of 0-30° C.

2,716,132

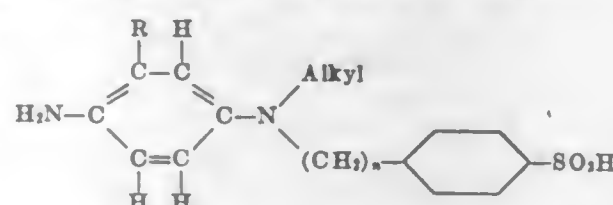
**N-SUBSTITUTED AMINO ANILINES**

Elmore Louis Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 22, 1952, Serial No. 316,113

7 Claims. (Cl. 260-509)

1. The chemical compounds taken from the group consisting of compounds of the general formula:



where R is a member taken from the group consisting of hydrogen, alkyl of 1 to 3 carbon atoms and alkoxy of 1 to 3 carbon atoms; Alkyl contains 1 to 6 carbon atoms and n is a cardinal number from 2 to 10 inclusive, and their acid addition salts.

2,716,133

**PURIFICATION AND SEPARATION OF DICARBOXYLIC ACIDS**

Leo S. Pooler, Chicago, Ill., assignor to The C. P. Hall Company of Illinois, Chicago, Ill., a corporation of Ohio

No Drawing. Application June 21, 1950, Serial No. 169,542

6 Claims. (Cl. 260-537)

1. The process of recovering dicarboxylic acid from a solution of longer and shorter chain dicarboxylic acids in a dichloro benzene, which comprises cooling the solution from a relatively high temperature at which at least a part of the acid of shortest chain length is crystallized from the solution while retaining acid of longer chain length in solution, dissolving in water at a relatively high temperature acid thus crystallized from the solution and adding a minor per cent of nitric acid thereto, and then cooling this aqueous solution to a relatively low temperature and thereby crystallizing dicarboxylic acid of shorter chain length therefrom.

2,716,134

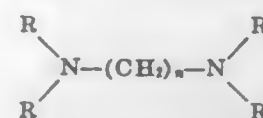
**N,N,N',N'-TETRASUBSTITUTED DIAMINES**

Delbert D. Reynolds and Thomas T. M. Laakso, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 19, 1950, Serial No. 156,934

7 Claims. (Cl. 260-570.5)

1. A process for preparing a tetrasubstituted diamine having the general formula:

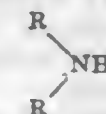


wherein n represents a positive integer of from 2 to 6 and each R represents a member selected from the group consisting of an alkyl group containing from 1 to 4 carbon atoms, a cyclohexyl group and a phenyl group, comprising heating at a temperature of from 50° to 150° C. a glycol disulfonate having the general formula:



wherein n has the above meaning and R<sub>1</sub> represents the same member selected from the group consisting of an alkyl group containing from 1 to 4 carbon atoms, a

phenyl group and a tolyl group, with a secondary amine having the general formula:



wherein each R has the above meaning, in the ratio of from 4 to 25 mol weights of the secondary amine to each mol weight of the said glycol disulfonate, then adding an aqueous solution of an alkali metal hydroxide to the reaction mixture in the ratio of from 2 to 15 mol weights of the alkali metal hydroxide to each mol weight of the said glycol disulfonate, and separating the tetrasubstituted diamine which forms from the reaction mixture.

2,716,135

**CATALYTIC HYDROGENATION OF AROMATIC NITRO COMPOUNDS TO AMINES**

Leon O. Winstrom, East Aurora, N. Y., assignor to Allied Chemical &amp; Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 29, 1950, Serial No. 203,561

8 Claims. (Cl. 260-580)

1. The process of manufacturing a mononuclear aromatic primary amine by the vapor-phase catalytic reduction of the corresponding mononuclear aromatic nitro hydrocarbon with hydrogen, which comprises contacting a mixture of vapor of said mononuclear aromatic nitro hydrocarbon and at least 4½ mols of hydrogen per mol of nitro hydrocarbon, at a temperature of 250° to 450° C., with a catalyst essentially comprising an intimate mixture of nickel sulfide and amorphous alumina, the amount of alumina being about 10% to about 90% of the weight of the nickel sulfide-alumina catalyst, said catalyst having been obtained, by a procedure including a sulfiding treatment, from a mixture of precipitates of insoluble nickel and aluminum compounds selected from the group consisting of nickel and aluminum hydroxides and carbonates produced from water-soluble nickel and aluminum salts by alkaline precipitation.

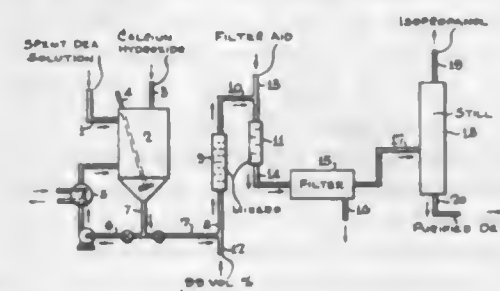
2,716,136

**PURIFICATION OF ETHANOLAMINES**

Henry C. Paulsen, Elizabeth, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

Application September 10, 1952, Serial No. 308,789

3 Claims. (Cl. 260-584)



1. In a process for regenerating a treating solution consisting of water and a dissolved amine material of the group consisting of monoethanolamine and diethanolamine salts of an organic acid impurity in admixture with the corresponding free amine, said organic amine salts being present in a concentration corresponding to at least 12 weight percent of the amine based on the weight of the solution, the improvement which comprises mixing said treating solution with an alkaline earth metal hydroxide added in excess with respect to said organic amine salts, heating the mixture at a temperature of 180 to 250° F. to convert said amine salts into alkaline earth metal salts

and free amine, adding 1 to 2 volumes of isopropanol per volume of said treating solution to precipitate said alkaline earth metal organic salts, separating the said precipitated metal organic salts from the residual solution to leave a filtrate consisting essentially of water, free amine and alcohol, and distilling the filtrate to remove the alcohol and leave a purified aqueous amine solution.

2,716,137

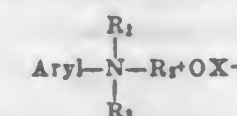
**CATALYTIC CONDENSATION OF α,β ALKYLENE OXIDES**

John T. Patton, Wyandotte, Mich., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application July 5, 1952, Serial No. 297,403

3 Claims. (Cl. 260-615)

1. The method of preparing oxyalkylene compounds, which comprises intimately contacting an α,β alkylene oxide with an active hydrogen compound in the presence of a catalyst selected from the group consisting of benzyltrialkylammonium hydroxides and benzyltrialkylammonium alkoxides having the formula:



where:

Aryl is selected from the group consisting of phenyl and alkyl-substituted phenyl radicals,

R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are selected from the group consisting of methyl and ethyl radicals, and

X is selected from the group consisting of hydrogen, aliphatic radicals and aromatic radicals.

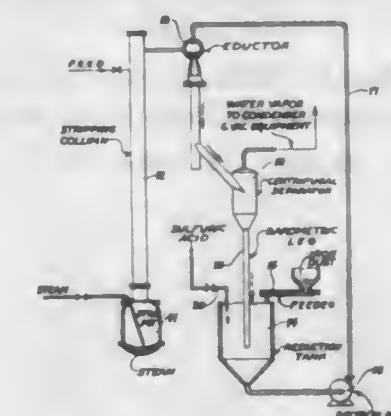
2,716,138

**PRODUCTION OF HYDROQUINONE**

Donald V. Ross, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 11, 1951, Serial No. 241,445

8 Claims. (Cl. 260-621)



1. In a process for the reduction of quinone to produce hydroquinone wherein a vapor mixture of quinone and steam is continuously introduced into a recirculating reducing slurry of iron dust in water, the slurry being subjected to flashing during each cycle whereby to remove excess condensed steam, the improvement comprising the steps of passing the slurry containing condensed steam and condensed and reduced quinone into a centrifugal separator maintained under vacuum, flashing said slurry within said separator whereby to remove a portion of said condensed steam as water vapor, passing the unflashed portion of the slurry from said separator through a barometric leg into a reduction tank, maintaining said reduction tank at atmospheric pressure, and introducing iron dust as required into said reduction tank as a dry powder under atmospheric pressure.



2,716,139

**COMPOSITIONS OF PARA-BROMOPHENOLS AND METHOD OF STABILIZING THE SAME**

Andrew J. Dietzler, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application July 1, 1954,  
Serial No. 440,857

17 Claims. (Cl. 260—623)

1. A method of inhibiting the discoloration and decomposition of a bromophenol upon exposure to air and light at ordinary and elevated temperatures, which method comprises maintaining a bromophenol having the general formula:



wherein X represents a member of the group consisting of a hydrogen atom, a halogen atom, the phenyl radical and an alkyl radical, in admixture with a stabilizing amount of a lead phosphate.

2,716,140

**FLUORINE ACTIVATED CHLORINATION**

Earl T. McBee and James A. Bittles, West Lafayette, Ind., assignors to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana

No Drawing. Application January 15, 1948,  
Serial No. 2,545

23 Claims. (Cl. 260—648)

23. A process of activating the direct chlorination of an organic compound susceptible to chlorination with chlorine which comprises introducing the chlorine and a small proportion of fluorine into contact with the organic compound.

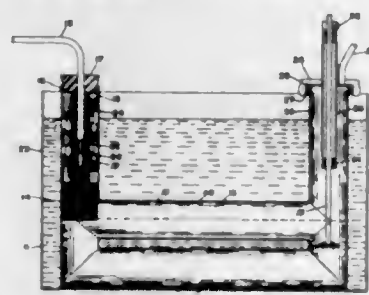
2,716,141

**PREPARATION OF HALO ALIPHATIC COMPOUNDS**

William T. Miller, Ithaca, N. Y.

Application December 13, 1950, Serial No. 200,657

20 Claims. (Cl. 260—653)



14. Perhalogenated butanes containing at least four fluorine atoms, at least one of which is on each of the end carbon atoms of the butane chain and substituted by at least one halogen atom other than fluorine on each carbon atom of the butane chain, the remaining substituents being selected from the group consisting of fluorine, chlorine, saturated perfluoro and perfluorochloro groups containing fewer than three carbon atoms.

20. A condensation process which comprises reacting an olefin of not more than 8 carbon atoms per molecule completely substituted only with gaseous halogen and containing a fluorine atom attached to a doubly bonded carbon atom with fluorine to produce a condensation product of said olefin containing at least two added fluorine atoms.

**PREPARATION OF VINYL FLUORIDE AND CATALYST THEREFOR**

Benjamin F. Skiles, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 21, 1952,  
Serial No. 300,125

12 Claims. (Cl. 260—653)

10. The process which comprises heating a bed of particles of zinc oxide to a temperature of from about 65° C. to about 200° C., flowing a gaseous mixture of HF and nitrogen through such bed of particles at a rate such that the HF initially is substantially completely removed from the gaseous mixture by the bed particles, continuing the flow of the gaseous mixture through the bed while maintaining the bed at a temperature of from about 65° C. to about 200° C. until fumes of HF appear copiously in the gases passing out of the bed, then discontinuing the flow of the gaseous mixture through the bed, then heating the bed of particles to a temperature of from about 300° C. to about 350° C. and flowing a gaseous mixture of HF and acetylene in a proportion of from about 2 to about 5 mols of HF to each mol of acetylene through such bed at a rate of from about 25 to about 35 volumes of acetylene per volume of particles per hour while maintaining the bed at a temperature of from about 300° C. to about 350° C., and separating vinyl fluoride from the gaseous mixture leaving the bed.

11. A catalyst which consists essentially of the reaction product of HF with particles of zinc nitrate obtained by passing a gaseous mixture of HF and nitrogen through a bed of the particles of the zinc nitrate at a temperature of from about 65° C. to about 200° C. at a rate of from about 50 grams to about 100 grams of HF per hour per 400 cc. of the particles until fumes of HF appear copiously in the gases passing out of the bed of particles and then discontinuing the flow of the gaseous mixture through the bed.

2,716,142

**PREPARATION OF VINYL FLUORIDE AND 1,1-DIFLUOROETHANE AND CATALYST THEREFOR**

Benjamin F. Skiles, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1952,  
Serial No. 300,984

7 Claims. (Cl. 260—653)

1. A catalyst which consists essentially of the reaction product of HF with particles of aluminum sulfate obtained by flowing a gaseous mixture of HF and nitrogen through a bed of the particles of aluminum sulfate at a temperature of from about 100° C. to about 200° C. until there is a material decrease in the rate at which the HF is removed from the gaseous mixture by said bed and then discontinuing the flow of the gaseous mixture through the bed.

6. The process which comprises heating a bed of particles of aluminum sulfate to a temperature of from about 100° C. to about 200° C., flowing a gaseous mixture of HF and nitrogen through such bed of particles at a rate such that the HF initially is substantially completely removed from the gaseous mixture by the bed of particles, continuing the flow of the gaseous mixture through the bed while maintaining the bed at a temperature of from about 100° C. to about 200° C. until fumes of HF appear copiously in the gases passing out of the bed, then discontinuing the flow of the gaseous mixture through the bed, then heating the bed of particles to a temperature of from about 250° C. to about 400° C. and flowing a gaseous mixture of HF and acetylene in a proportion of from about 2 to about 5 mols of HF to each mol of acetylene through such bed at a rate of from about 20

to about 205 volumes of acetylene per volume of particles per hour while maintaining the bed at a temperature of from about 250° C. to about 400° C., and separating vinyl fluoride and 1,1-difluoroethane from the gaseous mixture leaving the bed.

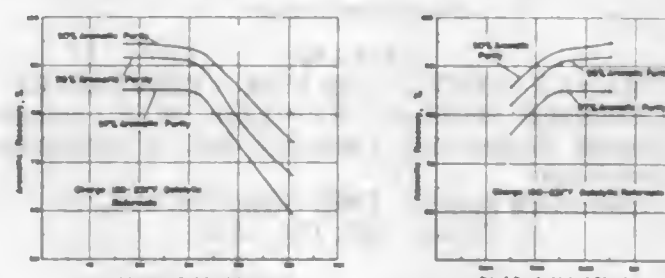
2,716,144

**SEPARATION OF AROMATICS FROM GASOLINE OR KEROSENE FRACTIONS**

John L. Olsen, Claymont, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application September 5, 1951, Serial No. 245,200

10 Claims. (Cl. 260—674)



1. A cyclic process for separating aromatic hydro-

carbon from a hydrocarbon charge boiling in the range of gasoline and kerosene and composed of non-aromatic and aromatic hydrocarbons which comprises introducing into a bed of silica gel during each cycle an amount of liquid charge equivalent to 50–85% of "equilibrium amount" to selectively adsorb charge aromatic, displacing the adsorbed aromatic by introducing into the silica gel during each cycle an essentially aromatic hydrocarbon liquid desorbent which boils below 500° F. and outside of the charge boiling range in amount of 0.05–0.14 gal./lb. of silica gel, said amount of aromatic desorbent being sufficient to cause the charge hydrocarbon content of the effluent stream from the silica gel during each cycle to decrease below 5% by volume, segregating the effluent during each cycle into two portions one of which contains most of the saturate components of the charge in admixture with desorbent and the other of which contains most of the aromatic components of the charge in admixture with desorbent and in an aromatic purity of at least 80° on a desorbent-free basis, separately distilling each of said portions to recover desorbent from the charge hydrocarbons, and directly re-using the wet silica gel for treatment of a further quantity of charge in the next cycle.

**ELECTRICAL**

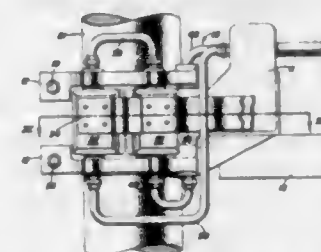
2,716,145

**ELECTRODE HOLDER**

Henri G. Cartoux, Chedde, France, assignor to Pechiney, Paris, France, a corporation of France

Application September 21, 1953, Serial No. 381,351

5 Claims. (Cl. 13—16)



2. An electrode holder comprising a main body member, two jaws hingedly connected to the body member, means for drawing the jaws together to surround the electrode, pads having hollow shafts at their ends, the hollow shafts being journaled in openings provided in the jaws, conduits connected to the shafts for providing the pads with cooling fluid, and flexible electrical leads fastened to the pads.

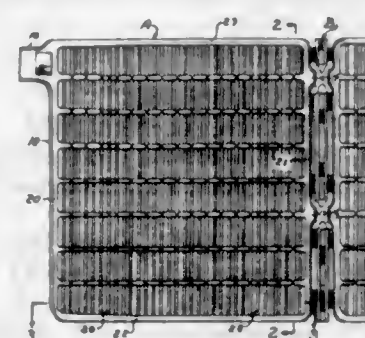
2,716,146

**BATTERY GRID**

Robert M. Raney, Euclid, Ohio, assignor to The Electric Storage Battery Company, a corporation of New Jersey

Application October 16, 1953, Serial No. 386,504

2 Claims. (Cl. 136—36)



1. A storage battery grid comprising a frame, a plurality of parallel vertical ribs having substantially the thick-

997 O. G.—36

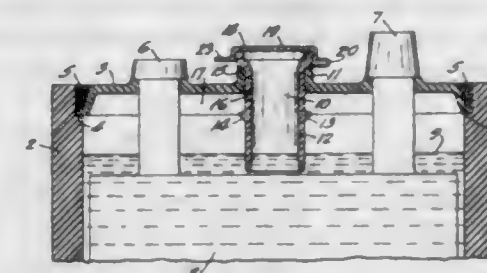
2,716,147

**COVER CONSTRUCTION FOR STORAGE BATTERIES**

Clayton A. Laughlin, Minneapolis, Minn., assignor to Northwest Plastics, Inc., St. Paul, Minn., a corporation of Minnesota

Application May 21, 1953, Serial No. 356,333

1 Claim. (Cl. 136—177)



In combination, a storage battery including a case adapted to be filled with fluid to an optimum fluid level point, a cover affixed upon said case, a filler opening in said cover, a vertical flange encircling said filler opening, a flexible plastic filler tube mounted in said filler opening for slidable vertical movement relative to said battery, one end of said filler tube projecting interiorly of said battery, the other end of said filler tube projecting exteriorly of said battery, a point on the interiorly projecting portion of said filler tube being of diameter greater than said filler opening and a point on the exteriorly projecting portion of said filler tube likewise being of diameter greater than said filler opening, said points serving to limit the distance which said filler tube is slidable in said filler opening, said filler tube, intermediate said points of greater diameter, being smooth sur-



faced, and being provided with a venting aperture, said points of greater diameter being spaced apart so as to provide for said venting aperture being sealed off by said vertical flange when the greater diameter point on the interiorly projecting portion of said filler tube is in abutment with the underside of said cover, the interiorly projecting portion of said filler tube being of a length so as to extend downwardly to approximately the optimum water level in said battery case when said venting aperture is sealed off, said filler tube being raisable and lowerable in said filler opening without turning or twisting, the exteriorly projecting end of said filler tube being provided with a cap, said cap being provided with an aperture.

2,716,148

## GROUND STAKES FOR ELECTRICAL CONDUCTING CABLES

Sidney D. Kretzer, St. Louis, Mo.

Application February 21, 1951, Serial No. 211,999

1 Claim. (Cl. 174-7)



A stake for electrically grounding cables comprising an elongated solid metallic rod of uniform cross section and pointed at its lower end, said rod having a multiple series of vertically spaced outwardly and upwardly extending pointed wing members immovably attached at the bottom of said wing members to the sides of said rod along the major portion of the width and length of said rod in electrical conducting relationship, each of said series consisting of two wing members on opposed sides of said rod, and the adjacent series being staggered from one another, both said rod and wing members being made of a material having a low electrical resistance, and means for attaching an electrical conducting cable to the upper part of said rod, said means including a cable receiving clamp, said clamp being slidably received in electrical conducting relationship on and removable from the top end of said rod, at least part of said material being constructed of a number of the group consisting of copper and brass.

2,716,149

## ELECTRICAL CONNECTOR FOR JOINING ELECTRIC WIRES

Druery F. Hicks, Jr., Los Angeles, Calif.

Application September 8, 1951, Serial No. 245,700

7 Claims. (Cl. 174-94)



7. An electric connector for connecting a wire end to a continuous wire comprising a body having a longitudinal aperture therethrough large enough to receive two strands of wire side by side, said body having a longitudinal slot connecting the aperture and the exterior of the

body adapted to admit the continuous wire to the aperture, a wedge element slidably receivable in said aperture having a wire contacting face and guide means on the wedge element extending through and slidably receivable in said slot, and a wedge take-up comprising two open spiral members adapted to be threaded around the continuous wire and threaded into engagement one with the other and adapted to engage said guide means, said body having a spiral groove in the exterior thereof adapted to receive the spiral members upon rotation of the spiral members over the body thereby to draw the wedge element against the wires, and lock means releasably anchoring the spiral members together.

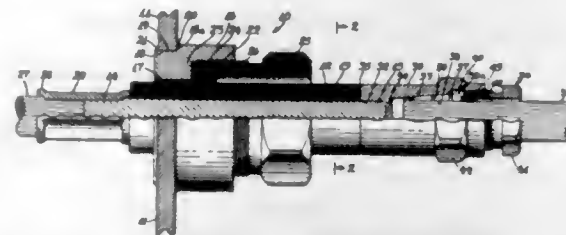
2,716,150

## ENTRANCE CONNECTOR FOR A CONTAINER

Irving Frederick Matthisse, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Application July 19, 1950, Serial No. 174,710

1 Claim. (Cl. 174-152)



An electrical connector for joining an outside conductor through an apertured container wall to an inside conductor comprising a rigid element of conducting material adapted to extend through the container wall; a non-conducting sleeve concentrically positioned about said conducting element and sealed thereto; a collar having an opening to permit said collar to be concentrically positioned about said sleeve, and adapted to be mounted and sealed to said container wall through the aperture therein; said conducting element having free ends extending longitudinally beyond the sleeve and provided with sockets on both sides of the container wall for inserting conductors therein; means for securing the conductors to said sockets; said collar having a threaded bore and a circular seat in said bore; a resilient apertured cylindrical member positioned in said seat; an apertured flat metal washer positioned over said resilient member; and a clamping nut having a central bore and an externally threaded end terminating in a bearing surface for engaging against the flat metal washer; the opening in said collar, resilient member, washer and clamping nut having a diameter sufficient to freely accommodate the sleeve; said resilient member being sealed to said collar on one face and to said sleeve throughout the length of said aperture when the clamping nut is suitably tightened, to completely seal the sleeve to said container wall when the collar is installed thereon, said conducting element, one of said sockets, and sleeve being smaller in diameter than the opening in the collar to permit said parts to be moved therethrough.

2,716,151

## ELECTRICAL SYSTEM

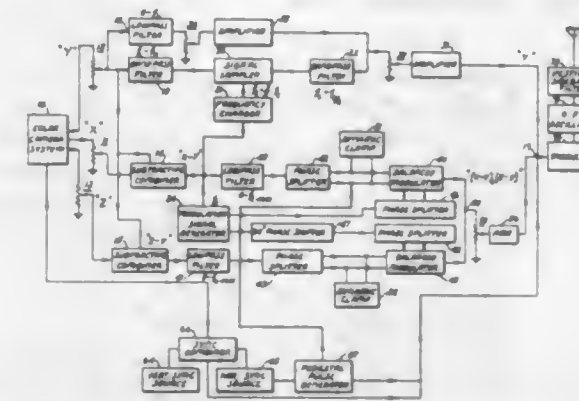
David B. Smith, Meadowbrook, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application July 13, 1951, Serial No. 236,585

24 Claims. (Cl. 178-5.2)

1. A transmitter of useful intelligence contained in television signals representative of variations in the brightnesses of successively-scanned elements of a televised scene, said scene being completely scanned during the period of each television frame by means of an integral number of repetitive line-scannings, said tele-

vision signals comprising principally original frequency components situated substantially at harmonics of a predetermined frequency and within a predetermined frequency band, said transmitter comprising: signal modulating means including a generator of a modulating signal having a frequency situated without said television frequency band by an amount less than the width of said band and having a phase which differs by substantially 180° at times separated by said television frame period, said signal modulating means being responsive to said original television signal components to produce corresponding frequency components substantially identical in frequency and relative amplitude with said original



components producing them and to generate new frequency components by heterodyning of said original signal components with said modulating signal, said new frequency components having amplitudes representative of the amplitudes of said original components producing them; signal transmitting means supplied with said corresponding components and with said new components from said modulating means to transmit said corresponding and said new components to a receiver; and frequency-selective means for supplying said transmitting means substantially only with those of said new and said corresponding components produced by different original components.

2,716,152

## REMOTE CONTROL FOR TELEVISION CAMERA

Eric Lawrence Casling White, Iver, England, assignor to Electric &amp; Musical Industries Limited, Hayes, England, a company of Great Britain

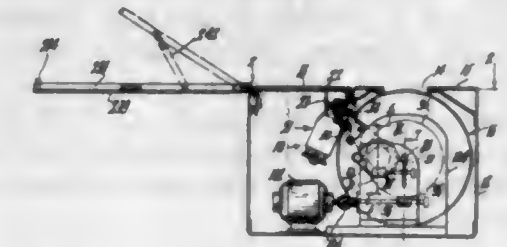
Application March 28, 1950, Serial No. 152,425

2 Claims. (Cl. 178-6)



1. Television camera apparatus including a television camera connected by a cable to a control unit, means at the control unit for generating an electrical control signal having recurrent peak extremities and signal portions having a substantially constant value between recurrent peak extremities, means at the control unit for adjusting the amplitude of said signal and for transmitting said signal along said cable, means at the camera end of said cable for generating a high direct current voltage for operating the pick-up tube of said camera, means for isolating said high voltage from said cable and arranged to exclude the D. C. component from said control signal, a level setter subsequent to said last-mentioned means for setting the peaks of said signal at a fixed level corresponding substantially to said high direct current voltage and utilisation means at said camera responsive to variations in amplitude of said signal portions from the fixed level of said pulses due to said adjustment in amplitude to effect a control at the high voltage level of said source.

2,716,153  
FACSIMILE SCANNER  
Knut J. Magnusson, Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Army  
Application May 26, 1950, Serial No. 164,589  
7 Claims. (Cl. 178-7.1)



1. In a facsimile scanner, a copy holding drum, a pair of superimposed flexible curtains for receiving subject copy between them, at least one of said curtains being transparent, each curtain having one end connected to said drum, securing means at the other end of one of said curtains, and mating means on said drum to engage said securing means.

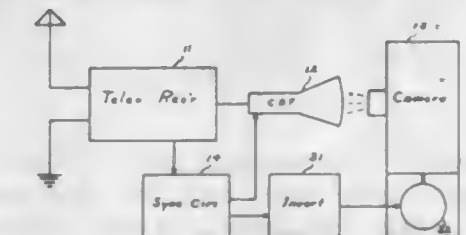
2,716,154

## TELEVISION RECORDING METHOD AND APPARATUS

Paul Raliborn, Southport, Conn.

Application October 7, 1947, Serial No. 778,307

18 Claims. (Cl. 178-7.4)



1. An apparatus for recording at selected time intervals received television images in which the images displayed on a cathode ray tube screen are projected on an intermittently actuated film strip comprising, signal generator means operable to generate signals at predetermined time intervals, means controlled by said generated signals for initiating the illumination of the cathode ray tube screen and means controlled by the received television horizontal synchronizing signals for terminating such illumination after a time interval corresponding to the time required to receive one complete television picture.

2,716,155

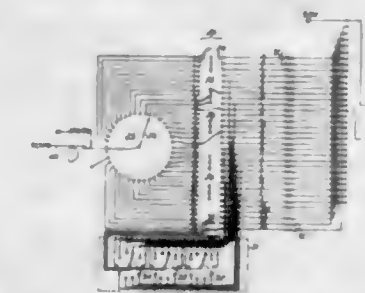
## TELEPRINTING APPARATUS

Ernest William Smith, Welling, and Harold Thomas Hillyard, Chislehurst, England, assignors to National Research Development Corporation, London, England

Application June 20, 1952, Serial No. 294,582

Claims priority, application Great Britain June 26, 1951

3 Claims. (Cl. 178-17)



1. Teleprinting transmitting apparatus of the kind in which a message is expressed in a multi-unit code of signals applied to a communication line, each character of the message being represented by the sequential order in which the signals are transmitted, comprising a series

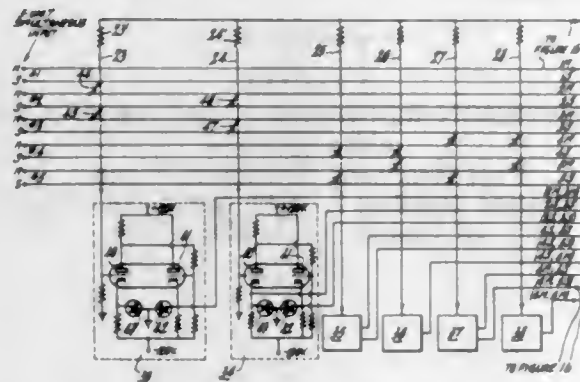


of change-over devices, one for each unit of the multi-unit code, each device establishing either of two alternative signal conditions, a distributor for applying successively to the line a signal in accordance with the condition established by each change-over device, whereby signals are transmitted in sequences established by the series of change-over devices, manual means for establishing at will any one of a number of character sequences representing various messages, and repeatedly operating rotary means for changing during each revolution thereof the signal sequences established by the series of change-over devices in accordance with the character sequence established, whereby the same signal sequences are repeatedly applied to the line.

2,716,156

## CODE CONVERTER

James S. Harris, Old Greenwich, Conn., assignor to Radio Corporation of America, a corporation of Delaware  
Application June 25, 1953, Serial No. 364,074  
6 Claims. (Cl. 178-26)

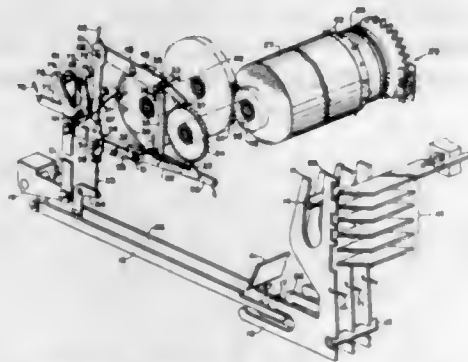


1. A converter for converting from a  $p$ -unit code to an  $n$ -unit code, the codes being such that there are  $q$  conditions of the  $p$ -unit code each of which defines a unit of the  $n$ -unit code, comprising, input terminals for a simultaneous code of  $p$  units, a plurality of grouping circuits each having an input coupled to at least two of said input terminals, a bus for each of said  $q$  conditions,  $n$  output terminals and means connecting said buses to said output terminals, and means connecting said buses to said input terminals and to the outputs of said grouping circuits which define the corresponding condition.

2,716,157

## FEED OUT MECHANISM FOR TELEGRAPH PRINTERS

Robert L. Doerrfeld, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware  
Application March 6, 1953, Serial No. 340,865  
5 Claims. (Cl. 178-42)



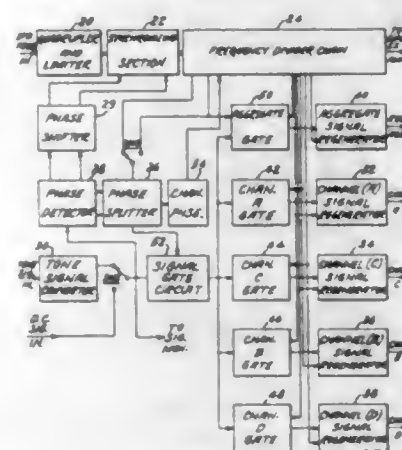
1. In a telegraph printer, a rotatable platen, means continuously tending to advance said platen, a ratchet associated with said platen and rotatable therewith, an escapement mechanism cooperating with said ratchet to control the advancement of said platen by said advancing means, means operable in response to a first predetermined signal for causing said escapement mechanism to release the ratchet to permit the advancing means to ad-

vance the platen a step, a latch for engaging and holding said escapement mechanism from engagement with said ratchet, means for actuating said latch in response to a second special signal, and means responsive to said first predetermined signal for releasing said latch.

2,716,158

## ELECTRONIC RECEIVER FOR TIME DIVISION MULTIPLEX

Eugene Richard Shenk, Fairlawn, N. J., Arthur Eugene Canfora, Brooklyn, N. Y., and Philip Eckert Volz, Florham Park, N. J., assignors to Radio Corporation of America, a corporation of Delaware  
Application May 21, 1951, Serial No. 227,344  
20 Claims. (Cl. 178-50)

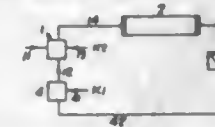


1. An electronic multiplex telegraph receiver circuit arrangement including a tone signal converter circuit producing a direct current on-off aggregate telegraph signal train, in response to a received aggregate tone signal, a frequency multiplying and dividing chain having a synchronizing section, means to apply substantially constant frequency energy to said chain to produce a plurality of harmonically related timing waves, a phase detector circuit, a phase splitting circuit connected to said phase detector circuit and coupled to said chain to apply at least one of said timing waves to said phase detector, means to apply said signal train to said phase detector to produce an output current proportional to the degree of phase difference between said signal train and said one timing wave, a phase shifter circuit coupled between said phase detector circuit and said synchronizing section of said frequency multiplying and dividing chain to synthesize said timing waves with said signal train, a signal gating circuit, a plurality of channel gating circuits connected to said signal gating circuit, a plurality of channel signal regenerating circuits individually connected to said channel gating circuits, means to apply said timing waves to said signal gating circuit, said channel gating and said channel regenerating circuits to present pulses thereat permutationwise rendering said channel gating and associated regenerating circuits operative in succession, said regenerating circuits being arranged to produce channel signal elements of one nature in response to application of aggregate signal elements of given nature to said signal gating circuit to pass pulses applied thereto by said timing wave application means, the latter pulses being applied to said channel gating circuits and the one of said channel gating circuits rendered operative by said timing wave means passing a pulse to the associated regenerating circuit, said regenerating circuits being arranged to produce a channel signal element of another nature in response to application of aggregate signal elements of nature opposite to said given nature to said signal gating circuit, and a channel phasing circuit interposed in said frequency multiplying and dividing chain to step the permuted timing waves among said channel gating and regenerating circuits to maintain proper channel phase relationship.

2,716,159

## REGISTER TRANSLATORS

Thomas Harold Flowers, London, England  
Application October 17, 1950, Serial No. 190,537  
Claims priority, application Great Britain  
October 19, 1949  
47 Claims. (Cl. 179-18)

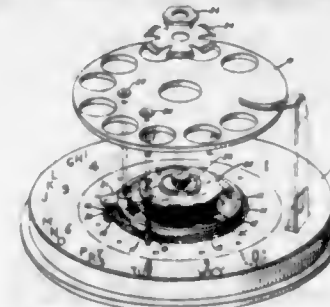


1. An automatic telephone exchange system including in combination a register, impulse storing means in said register, said impulse storing means comprising iterative pulse-storage apparatus, a source of impulses connected to said iterative pulse-storage apparatus, means for causing said impulses to circulate in said storing means through said storage apparatus, a second source of impulses connected to said storage apparatus and means responsive to impulses circulating through said storage apparatus in cooperation with impulses from said second source of impulses.

2,716,160

## BRAKE FOR TELEPHONE CALLING DIALS

Robert S. Pitt, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application December 30, 1953, Serial No. 401,341  
6 Claims. (Cl. 179-90)

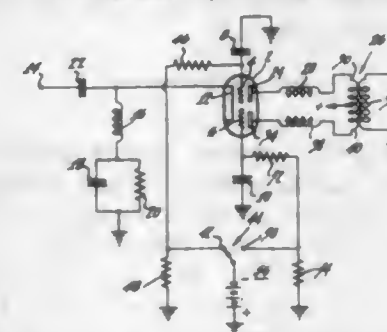


1. A call transmitter comprising a manually rotatable finger wheel, an electrical impulse transmitter mechanism operably connected to said finger wheel, an energy storing spring for rotating said finger wheel in a counter-clockwise direction to cause the operation of said impulse transmitter when the finger wheel has been rotated in a clockwise direction a predetermined distance and released, and means on said finger wheel in engagement with a stationary portion on said call transmitter for braking said finger wheel upon manual acceleration of said wheel during its run-down.

2,716,161

## BAND SELECTING AMPLIFIERS

George W. Gray, Lambertville, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application November 26, 1951, Serial No. 258,176  
3 Claims. (Cl. 179-171)



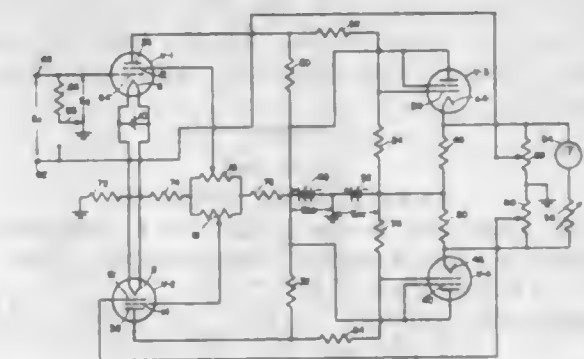
1. A band selecting amplifier comprising in combination a first electron discharge device having at least a cathode, a grid and a plate, a second electron discharge device having a cathode, grid and a plate, each of said

discharge tube plates having a degree of shunt capacitance, an input circuit having a sufficiently broad response to cover two bands of frequencies coupled to said cathodes, a condenser connected between each grid and ground, said condensers having a low impedance for either of said frequency bands, a source of negative grid bias potential of sufficient value to produce plate current cutoff in either of said discharge devices, switching means connected with said bias potential source and said grids for selectively applying sufficient negative potential to said grids so as to bias one or the other electron discharge device to cut-off, an output transformer having a primary and a secondary, a source of positive potential, said source being connected to an intermediate point of said primary, one end of said primary being connected to the plate of said first electron discharge device, the other end of said primary being connected to the plate of the second electron discharge device, the overall inductance of the sections of the primary between the source of positive potential and each plate taken in combination with each plate shunt capacitance forming circuits that are resonant respectively to a different one of said bands of frequencies.

2,716,162

## BALANCED AMPLIFIER

Alan R. Pearlman, Glendale, Calif., assignor to Tracerlab, Inc., Boston, Mass., a corporation of Massachusetts  
Application January 22, 1952, Serial No. 267,614  
3 Claims. (Cl. 179-171)



1. A direct current amplifier comprising, first and second substantially identical electron tubes each having at least a cathode, an anode, a control grid and a screen grid, means arranged to heat the cathodes of said first and second tubes in parallel, a two terminal input circuit having one terminal connected to the control grid of said first tube, third and fourth substantially identical electron tubes each having at least a cathode, an anode and a control grid, first and second equal resistors serially connected between the cathodes of said third and fourth tubes, a voltage source having a first terminal connected to ground, a second terminal positive with respect to ground, and a third terminal negative with respect to ground, means separately connecting the anodes of said first, second, third and fourth tubes to the second terminal of said voltage source, a first voltage divider connected between the anode of said first tube and the third terminal of said voltage source and a second voltage divider connected between the anode of said second tube and the third terminal of said voltage source, means connecting the control grid of said third tube to a point on said first voltage divider, means connecting the control grid of said fourth tube to a point on said second voltage divider, means connecting the third terminal of said voltage source to the junction of said first and second resistors, first and second serially connected potentiometers connected between the cathodes of said third and fourth tubes, the junction of said potentiometers being grounded, an indicating device connected in parallel with said potentiometers, a first feedback connection between said first potentiometer and the other terminal of said

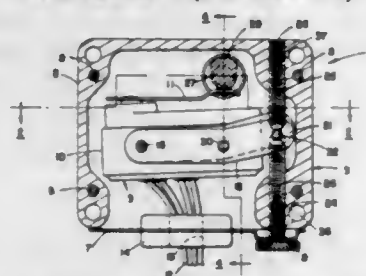


input circuit, and a second feedback connection between said second potentiometer and the control grid of said second tube.

2,716,163

**ELECTRICAL SWITCH ASSEMBLY**

Harold R. Smith, Inglewood, Calif., assignor to North American Aviation, Inc.  
Application February 29, 1952, Serial No. 274,146  
4 Claims. (Cl. 200—6)

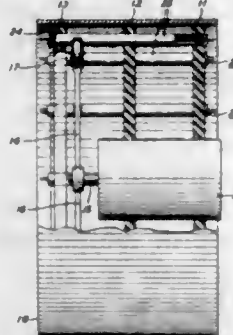


1. A switch device comprising a housing; a plurality of switches disposed therein in abutting side by side relationship; a shaft journaled in opposite walls in said housing and engaging said switches whereby said switches are pivotal thereabout, each switch being provided with an actuating arm on the upper side thereof and with a second arm projecting therefrom; a cam shaft rotatably carried by said housing with its axis substantially in parallelism with said mounting shaft; a pair of adjusting screws received in said housing for each of said switches and engaging said second arm for pivoting said switch about said shaft for vertical adjustment relative to said cam shaft, and for retaining said switch in said vertical adjustment, whereby said switches may be caused to trip simultaneously upon rotation of said cam shaft.

2,716,164

**ELECTRICAL SWITCH**

Attell B. Anderson, Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application January 21, 1953, Serial No. 332,290  
9 Claims. (Cl. 200—27)



1. Switching means comprising an arcuate common contact, a plurality of contactors arcuately arranged adjacent thereto, an arcuate insulator having a plurality of metal-lined guide orifices, one for each of said contactors, and a rotatable roller for moving each contactor successively into contact with the common contact, the lining and contactor associated with each orifice being combined and comprising an elongated metal sheath and an elongated metal cantilever spring within the sheath and secured thereto at one end only, the sheath including adjacent the free end of the spring an opening each for the roller and the common contact.

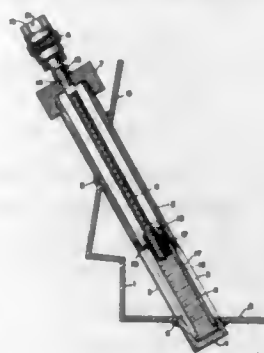
2,716,165

**MEANS FOR DETECTING CONDUCTIVE IMPURITIES IN OIL**

George W. Pfitzner, Richmond, Va.  
Application June 19, 1953, Serial No. 362,743  
3 Claims. (Cl. 200—61.05)

1. Means for detecting the presence of electrically conductive impurities in a mass of liquid which is not electri-

cally conductive, comprising a container for the mass of liquid, a tubular housing extending downwardly into the container to a point adjacent the bottom thereof and having an opening near its lower end, a spool of insulating material positioned within the lower end of said hous-

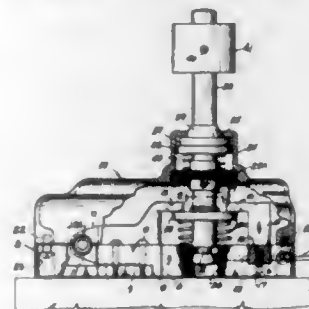


ing, a pair of bare wires wound on said spool in the form of spaced helices, a tube disposed axially within said housing and secured at its lower end to said spool, insulated wires extending up from said helices out through said tube, and a circuit connected with said wires.

2,716,166

**IMPACT SWITCH**

George Yunker, Portland, Oreg., assignor of thirty per cent to Edwin E. Meler and fifteen per cent to Byron H. Ginther, both of Portland, Oreg.  
Application March 16, 1953, Serial No. 342,311  
3 Claims. (Cl. 200—61.5)



1. An impact switch of the character described comprising in combination, a base, a clamp secured to the base and extending upwardly therethrough for attaching the base to a terminal of a battery, a contact carried by the clamp and elevated from the base, a companion elevated contact carried by the base and insulated therefrom, a plunger slidably mounted beneath said contacts for vertical movement with respect to the base, a contact plate carried by the plunger and adapted to make and break an electrical circuit across the underside of said contacts, a normally vertically reposing lever resting upon said plunger, a weight adjustably attached to said lever and adapted to overbalance and tilt said lever in a direction opposite to that of any impact or collision to depress the plunger and said contact plate out of contact with said contacts, and adjustable resilient means surrounding said plunger for normally maintaining the same in an elevated position and said contact plate in circuit-closing position across said contacts.

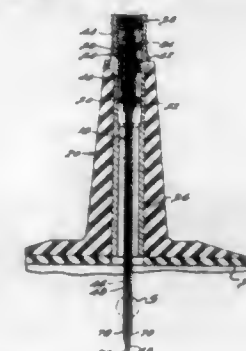
2,716,167

**TIRE INFLATION INDICATOR**

Jere K. Jacobus, Port Huron, Mich.  
Application October 9, 1952, Serial No. 313,896  
9 Claims. (Cl. 200—61.25)

1. A valve stem unit for an air indicator apparatus for an automobile tire or tire tube having a valve stem including a sleeve member formed of electrically conductive material and having one end open and adapted to communicate with the interior of said tire or tire tube, said air indicator apparatus including an electrically operated signal for indicating predetermined

changes in the air mass within said tire or tube, said valve stem unit being adapted to replace a conventional valve core assembly and comprising a generally tubular body having an annular seal adapted to engage a co-operating seat on said sleeve member, means connected to said body and adapted to engage said sleeve member for moving said seal to and from said seat, a second seal movable to and from a position in which it engages said body to prevent the flow of air therethrough, a tube disposed axially of said body and including first and second axially spaced portions formed of electrically conductive material and insulated from each other, means closing the bore of one of said tube portions in spaced relation to the adjacent ends of said portions, a body of electrically conductive liquid material disposed in said tube for movement in response



to a balancing of the air pressures at the opposite sides thereof to and from a position in which it electrically connects said tube portions, said tube having an opening at the opposite side of said body of liquid from said means closing said bore through which the bore of said tube is adapted to communicate with the interior of said tire or tire tube, said tube being connected to said second seal for moving the latter from engagement with said body to permit the flow of air therethrough, and means yieldably urging said second seal into engagement with said body, the construction and arrangement of said valve stem unit being such that when in use, one of said tube portions is electrically connected to said sleeve member and the other of said tube portions is provided with contact means disposed adjacent the outer end of said sleeve member.

2,716,168

**ELECTRICAL SWITCH**

Francis R. Shonka, Riverside, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application July 3, 1951, Serial No. 235,050  
14 Claims. (Cl. 200—61.45)



14. In combination, a housing having a cavity therein and a bore extending into the cavity, a non-magnetic ball disposed within the cavity having a diameter slightly less than the distance across the narrowest portion of the bore, a ferro-magnetic ball placed within the cavity having a diameter greater than the diameter of the bore, the sum of the diameters of the ferro-magnetic ball and the non-magnetic ball being less than the shortest distance across the cavity, and electrical switching means disposed in the bore actuable by the non-magnetic ball.

2,716,169

**LEVEL SENSITIVE SWITCH**

Raymond Alvah Hanson, Palouse, Wash.  
Original application May 16, 1950, Serial No. 162,156.  
Divided and this application March 21, 1952, Serial No. 277,866

1 Claim. (Cl. 200—61.47)



A delayed action switch comprising a body formed with vertical pockets adjacent its ends, there being a conduit extending longitudinally of the body and at its opposite ends communicating with lower ends of said pockets, mercury filling said conduits and lower portions of said pockets, a conductor strip extending longitudinally of said body and having opposite ends entering the pockets below the level of mercury therein, a screw mounted through said body transversely thereof and engaging said strip intermediate the length thereof to secure the strip to the body and having a head at one end for engagement with a conductor wire, contact rods disposed vertically and entering said pockets through upper ends thereof and having caps on their lower ends spaced upwardly from the mercury in the pockets when the body is horizontal, said contact rods having caps formed of platinum, one of said caps being engaged by the mercury when the body is tilted vertically, and connectors carried by upper ends of said rods for connecting conductor wires with the rods.

2,716,170

**SIGNAL COLLECTION DEVICE**

Fred D. Collins, Charlotte, N. C.  
Application January 10, 1952, Serial No. 265,802  
3 Claims. (Cl. 200—61.63)



1. In a signal collection device having a backboard, a switch housing, and a switch disposed in a circuit with a signalling device; a spring pressed clamp arm pivotally mounted at one end thereof on said backboard, said switch housing enclosing the pivoted end of said spring pressed clamp arm, means normally urging said spring pressed clamp arm into engagement with the backboard, said spring pressed clamp arm being manually movable outwardly from said backboard to permit newspapers, magazines, and the like to be placed between the same and the backboard and clamped thereby, a switch actuating arm associated with said pivoted end of said spring pressed clamp arm and adapted to engage and close said switch upon said spring pressed clamp arm being moved outwardly from said backboard, whereby closure of said switch will actuate said signalling means to indicate that material is positioned between said backboard and said spring pressed clamp arm.

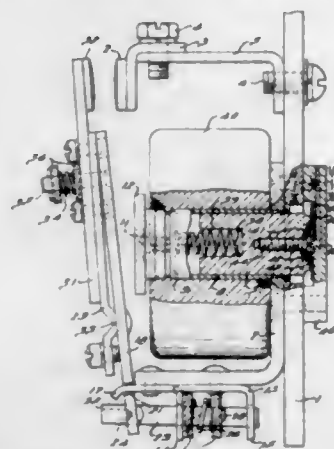


2,716,171

## ELECTROMAGNETIC SWITCH

Earl F. Meckelburg, Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan

Application November 8, 1952, Serial No. 319,586  
7 Claims. (Cl. 200-97)

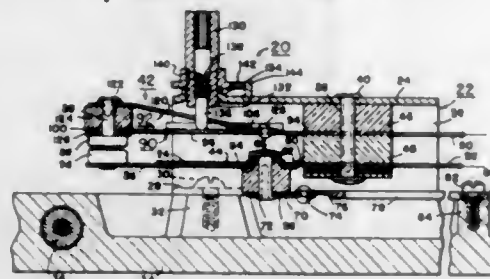


1. In a time delay electromagnetic switch, a stationary contact, a movable contact cooperating with said stationary contact to open and close the circuit through the switch, a movable armature controlling said movable contact, a magnetic circuit for said armature including a pole piece for attracting said armature and a movable core biased away from said pole piece to form a second air gap between itself and the armature in the open position of the switch, an energizing coil for said magnetic circuit for attracting said core and armature toward the pole piece, a suction cup cooperating with said core to delay the initial movement thereof toward energized position, and means metering the passage of air to said suction cup to adjust the time delay in the release thereof, the reluctance of the combined air gaps being so high that there is insufficient magnetic pull upon energization of said coil to move the armature into closed position until the core has been released by the suction cup for movement toward the pole piece to reduce the air gap therebetween.

2,716,172

## THERMAL SWITCH WITH EXPANDING CYCLING CONTROL

Edmond G. Franklin, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware  
Application September 12, 1952, Serial No. 309,325  
19 Claims. (Cl. 200-137)



3. A thermal switch comprising first and second contact arms carrying first and second contacts respectively, the first contact arm having a contact support portion carrying said first contact and supported for limited movement toward and away from the second contact between a first position toward said second contact and a second position displaced from the first position in a direction away from the second contact, said contact support portion being resiliently biased toward its first position, and a restraining member connected under longitudinal tension between the contact support portion and another part of the switch and normally holding the contact support in said second position against said resilient bias, a portion of said restraining member being electrically

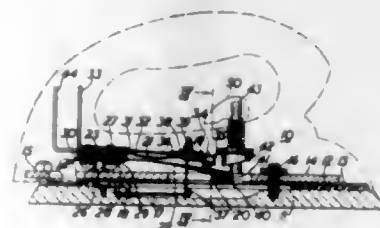
connected in circuit with one of said contacts and having a substantial length and relatively small cross section such that passage of current through said restraining member portion on engagement of the contacts expands said portion substantially and thereby permits resiliently biased movement of the contact support and first contact toward said first position, increasing the contact pressure and delaying the subsequent disengagement of the contacts.

2,716,173

## ELECTRIC SWITCHES

William Morris Russell, Bromley, England, assignor, by mesne assignments, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware

Application April 28, 1952, Serial No. 284,698  
10 Claims. (Cl. 200-138)

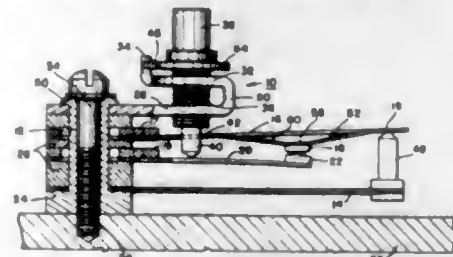


2. A thermally-operated electric switch comprising a pair of cooperating contacts controlling an electric current, first biasing means for moving a first one of said contacts, second biasing means for moving the second contact in the same direction as said first contact, a temperature responsive device the heating of which is effected by the current controlled by said contacts, means connecting said temperature responsive device to said first and second biasing means and so arranged that with increasing temperature said temperature responsive device permits said first and second biasing means to move said contacts, a stop member arranged to arrest at a predetermined temperature movement of said first contact only, whereby initial separation of said contacts is effected, anchoring means arranged so as to normally move with said second biasing means, and a heat sensitive wire directly heated by said current and attached to said anchoring means and to said second contact, the contraction of said wire on cooling due to the cessation of said current after said initial separation, causing further movement of said second contact away from said first contact.

2,716,174

## THERMAL SWITCH WITH CYCLING DELAY

Edmond G. Franklin and Chang-Kaing Tsai, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware  
Application September 12, 1952, Serial No. 309,326  
10 Claims. (Cl. 200-138)



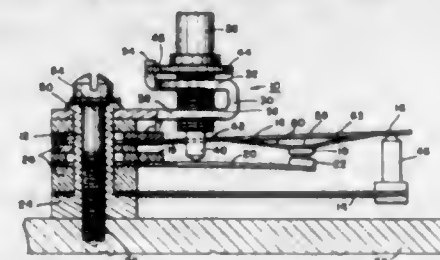
1. A thermal switch comprising first and second contact arms having first and second contacts respectively adapted to engage and disengage each other, thermally responsive means engaging and moving one arm with respect to the other and thereby engaging and disengaging said contacts in response to predetermined temperature changes, the first arm having a contact support on which the

first contact is mounted, said support being offset from the plane of the first arm toward said second arm and contact, and at least two current-conducting struts constituting the sole connection of the contact support to the first contact arm, the total cross section of said struts being limited with respect to the current passing through the contacts and thereby causing substantial expansion and contraction of the struts by heating and cooling in response to the changes in current carried by the struts on engagement and disengagement of the contacts, the expansion of the struts due to current increase when the contacts engage tending to increase the offset of the first contact toward the second thus increasing the contact pressure and delaying subsequent disengagement of the contacts, and the contraction of the struts due to current decrease when the contacts disengage tending to move the first contact away from the second thus increasing the gap between the contacts and delaying subsequent reengagement of the contacts.

2,716,175

## THERMAL SWITCH WITH CYCLING DELAY

Edmond G. Franklin, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware  
Application July 26, 1954, Serial No. 445,745  
11 Claims. (Cl. 200-138)

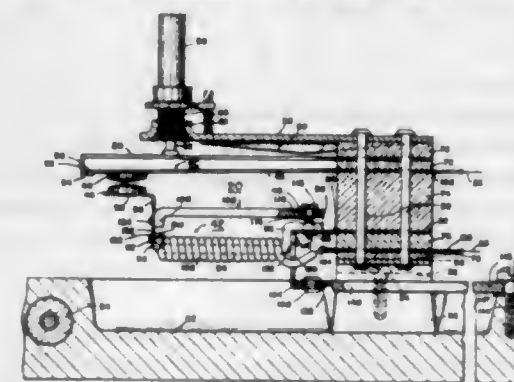


1. A thermally-operated electric switch comprising a pair of cooperating contacts controlling an electric current, a first temperature responsive device comprising a bimetal strip arranged to effect initial separation of said contacts in response to increasing temperature, and a second temperature sensitive device which, prior to said initial separation, is expanded through heating by the current controlled by said contacts, but which cools and consequently contracts after such separation due to the cessation of said current, and thereby causes the gap between said contacts to increase as it cools.

2,716,176

## THERMAL SWITCH WITH ELECTROMAGNETIC CYCLING DELAY

Edmond G. Franklin, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware  
Application September 15, 1952, Serial No. 309,615  
12 Claims. (Cl. 200-139)



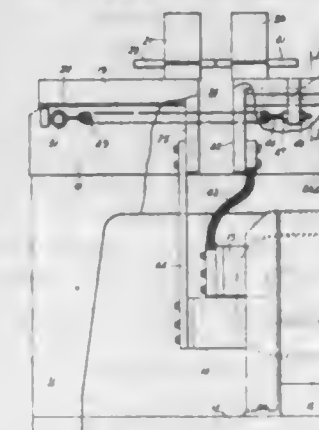
1. A thermal switch comprising first and second contact arm assemblies having first and second contacts respectively, said first contact arm assembly comprising a movable first contact arm, an electromagnet secured to said arm and having a magnet armature mounted for relative movement between first and second positions, means biasing the armature to its first position

when the electromagnet is de-energized, the armature being moved automatically to its second position in response to energization of the electromagnet, said first contact being operatively connected to said armature for limited movement toward the second contact in response to movement of the armature to its second position and for limited return movement of the first contact away from the second contact in response to movement of the armature to its first position, and means energizing the electromagnet while the first and second contacts engage each other and de-energizing the electromagnet while said contacts are disengaged.

2,716,177

## APPARATUS FOR ELECTRIC WELDING

William Reid Cumming, Inverness, Scotland, assignor to Resistance Welders Limited, Inverness, Scotland  
Application October 20, 1952, Serial No. 315,672  
Claims priority, application Great Britain  
October 25, 1951  
11 Claims. (Cl. 219-4)

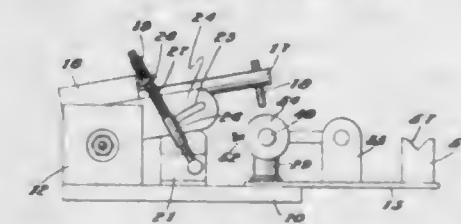


1. An apparatus for flash butt welding the surface of two metal workpieces including a pair of carriages movable relatively to one another, a mounting on each carriage to receive a workpiece, electric flashing current supply means to the carriages and magnetic force exerting means to adjust the spacing of the carriages in accordance with the electric current flowing to tend to maintain the flashing current constant, said magnetic force exerting means acting without time lag in accordance with variations of the flashing current.

2,716,178

## ASSEMBLY JIG

Frank Charles Wallace, North Hollywood, Calif., assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa  
Application October 29, 1951, Serial No. 253,575  
3 Claims. (Cl. 219-17)

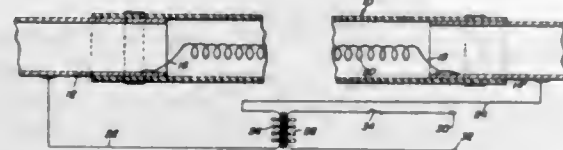


1. A jig for assembling a plurality of elements in predetermined relative positions comprising a base member, a two part securing means having one part pivotally supported on said base member and the other part constituting a support fixedly mounted on said base member and adapted to supportingly engage at least one of said elements, a workholder including an arm which supports a clamping means, said arm journaled for rotation about a transverse axis on said base member and adapted to transfer said plurality of elements, a grooved block mounted on said base member, said support, said block and said clamping means being equally spaced from said axis, said support and said block being oppositely dis-



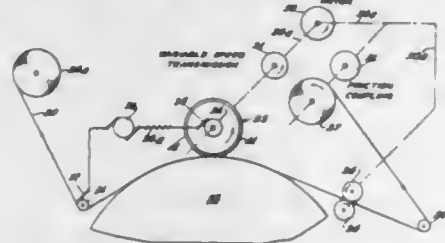
posed with respect to said axis, said clamping means being rotatably mounted on said arm about a second transverse axis and adapted in a first position of said arm adjacent said block to supportingly engage said plurality of elements and adapted in a second position of said arm between said two parts to present different portions of said elements to said parts.

**2,716,179**  
**WATER PIPE DE-ICER**  
Emanuel Cornella, West Chicago, Ill.  
Application March 23, 1953, Serial No. 344,105  
1 Claim. (Cl. 219—19)



In combination with a tubular water pipe constructed of an electrically non-conductive substance, a water pipe de-icer comprising a pair of tubular electrically conductive connectors each secured to one end of said water pipe, a high resistance heating coil terminally attached to the inside of said connectors and extending therebetween, and conductors terminally operatively attached to the secondary coil of a transformer, the primary coil of said transformer being connected to means for connection to a source of electrical power, and clamps secured over said water pipe clampingly holding said water pipe to said connectors, said water pipe being constructed of a resilient material.

**2,716,180**  
**MEANS AND METHOD OF MANUFACTURING ELECTRICAL CONDENSERS**  
William Dubiller, New Rochelle, N. Y.  
Application January 20, 1954, Serial No. 405,092  
Claims priority, application Great Britain June 2, 1950  
31 Claims. (Cl. 219—19)

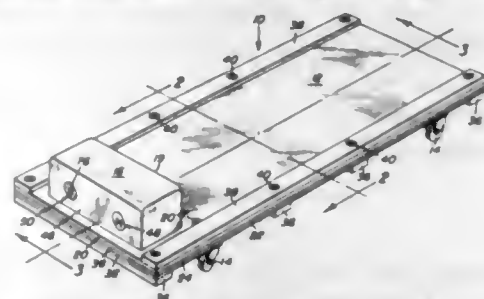


1. In the art of manufacturing single-web wound metalized condensers, the method of patterning a metallized insulating strip preparatory to its winding into a condenser unit comprising the steps of moving said strip past a plurality of branding electrodes fixed relative to each other with the metal surface of said strip facing said electrodes, to burn opposite longitudinal track sections alternating with transverse track sections upon said strip forming a continuous zig-zag shaped insulating track and defining alternate electrode areas of opposite polarity, and controlling the timing of the branding current between said electrodes and said strip, to effect a progressive variation of the spacing distances between successive transverse track sections, to thereby cause the alternate electrode areas of opposite polarity to substantially register throughout the length of said strip, when said strip is subsequently wound into a rolled condenser unit.

**2,716,181**  
**HEATED CREEPER**  
Ferris O. Ritter, Detroit, Mich.  
Application December 14, 1954, Serial No. 475,093  
4 Claims. (Cl. 219—19)

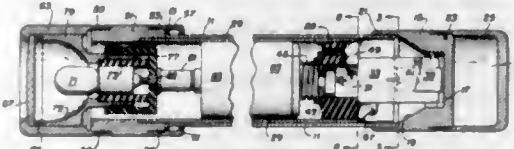
1. A mobile work creeper constructed substantially of non-conducting material comprising a creeper body in-

cluding upper and lower panels secured at their adjacent peripheral edges in spaced relation to define an inner compartment substantially coextensive with said panels, the upper panel including on its surface adjacent its opposite side edges longitudinally extending reinforcing strips extending the length of said upper panel, the lower panel including on its lower surface a plurality of reinforcing elements extending across the width of said lower panel, transverse and longitudinally extending spacer strips extending between the inner surfaces of said panels around the entire perimeter thereof, a sealing gasket interposed between said panels and both sides of said spacer strips around the entire perimeter of said panels, fastener elements extending through the reinforce-



ing strips, spacer strips, sealing gasket, and panels along the longitudinal edge of said creeper, an electrical heating element comprising a plurality of longitudinally extending bends of a single heating element comprising a plurality of longitudinally extending bends of a single heating element contained in said inner compartment, insulating means substantially enclosing the entire heating element on all sides for preventing heat loss and reducing the entrance of moisture in said compartment, a head rest including a substantially hollow interior at one end on the top of the creeper body, a power inlet plug secured on said head rest, and a heat responsive thermostat connected in series to said power inlet plug and heating element.

**2,716,182**  
**FLASHLIGHT**  
Reginald H. Carter, Doylestown, Pa.  
Application August 4, 1950, Serial No. 177,747  
4 Claims. (Cl. 240—10.66)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

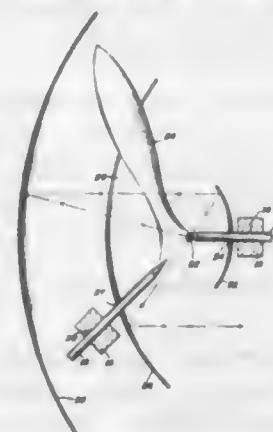


1. In a flashlight, a first tubular member, a lighting device mounted in one end of said member, a power source mounted in the body of said member, a circuit coupling said lighting device and said power source, said circuit including a switch mounted in the end of said member distal said lighting device, said switch including a movable element having a normally-closed switch-circuit position and an open switch-circuit position, a second tubular member fitted over a portion of said first member for relative sliding movement, said second member having an annular cam surface engaging and actuating said element to open switch-circuit position upon telescoping movement of said first and second members.

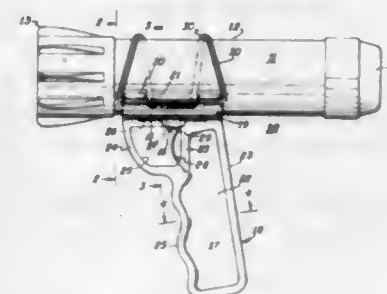
**2,716,183**  
**LAMP REFLECTOR ARRANGEMENT**  
Frederick O. Stebbins, Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application December 5, 1952, Serial No. 324,191  
2 Claims. (Cl. 240—41.35)

1. In a carbon arc lamp, a positive head provided with a carbon that protrudes therefrom, a negative head pro-

vided with a carbon that protrudes therefrom at an angle to the longitudinal axis of the carbon in the positive head to provide a light focus between the spaced inner ends of the carbons from which emanates a tail flame, a short focus reflector having an aperture through which said negative head carbon extends and disposed between the light focus and said negative head thereby minimizing



**2,716,184**  
**GUN-TYPE FLASHLIGHT HOLDER**  
Thomas E. O'Neill, Southern Pines, N. C.  
Application June 3, 1952, Serial No. 291,544  
9 Claims. (Cl. 240—52.5)

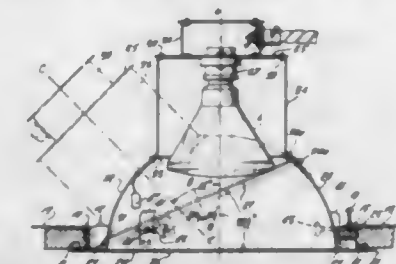


1. A toy gun comprising an electric flashlight including a longitudinally extending barrel carrying an electric control switch provided with a push button operating member, a laterally extending handle disposed below said flashlight and including a longitudinally extending cradle having an open top and engaging said barrel and receiving said push button operating member, a trigger carried by said handle and including a resilient bowed ribbon one end of which is anchored in said handle and the other end of which is disposed in cooperating relation with and adjacent to the end of said push button operating member, and means for detachably securing together said flashlight and said handle, said trigger being manually operable to actuate said push button operating member so as to govern said control switch.

**2,716,185**  
**RECESSED LIGHTING EQUIPMENT**  
David Burluk, Brooklyn, and Edward Rambusch, Harrison, N. Y., assignors to Rambusch Decorating Company, New York, N. Y., a corporation of New York  
Application April 25, 1950, Serial No. 158,026  
11 Claims. (Cl. 240—78)

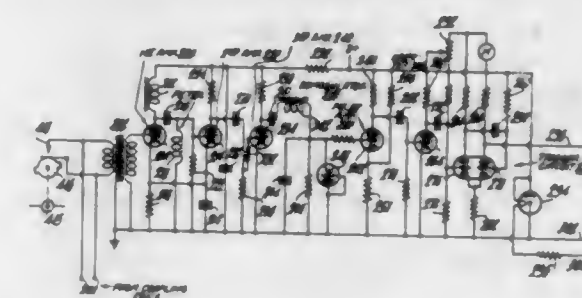
1. A lighting fixture of the recessed type adapted for mounting and servicing entirely from below the ceiling or entirely from above the ceiling, comprising a mounting ring permanently carried in the ceiling and having inwardly extending lugs and a fixture body having two

separable components, one a lower component, the other an upper component, the lower component including an apertured finishing plate for covering the mounting ring and having receivers for the lugs and an upper lamp housing, the upper component including a junction box adapted to be connected to a current supply cable and carrying a cover plate fitting the top of the lamp housing, a downwardly opening lamp socket carried by the cover plate, externally accessible means for secur-



ing the cover plate and housing together, the two components, after connection to the supply cable and when connected together, being movable upwardly to bring the lugs and lug receivers together so that the fixture is supported and the lamp is accessible, the first component, when disconnected from the second being hoistable up to position for securement in place, the second component being attachable and detachable from above to effect relamping.

**2,716,186**  
**SIGNALLING SYSTEM**  
John R. Ford, Narberth, Pa., assignor to Radio Corporation of America, a corporation of Delaware  
Application December 28, 1949, Serial No. 135,347  
15 Claims. (Cl. 246—63)



1. In a signalling system having a receiver with an indicator with at least two indicating conditions, one of danger and one of non-danger, the latter being dependent on the continual reception of signals, said system being subject to failures, the combination comprising means under safe conditions to apply said signals to said receiver, means under safe conditions to interrupt said signals for a time sufficiently long under normal non-failure operation to cause a danger response of said indicator, means to restore said signal reception for a time sufficiently long under normal non-failure operation to cause a non-danger response, and means to continually and cyclically actuate said interrupting means and said restoring means, whereby only under non-danger and non-failure conditions and not otherwise said indicator cyclically assumes each of said two conditions and fail-safe operation may be secured.

**2,716,187**  
**SHIELDED CABLE SYSTEM FOR MICROPHONES AND THE LIKE**  
Paul S. Veneklasen, Monrovia, and William J. Moreland, Jr., Arcadia, Calif., assignors to Altec Lansing Corporation, Los Angeles, Calif., a corporation of Delaware  
Application February 24, 1950, Serial No. 146,132  
4 Claims. (Cl. 250—27)

1. In an electrical system of the type that includes two mutually spaced stations and a multiple conductor cable connecting the two stations; in combination, an



inner conductor positioned centrally in the cable and connected in the system as a signal-carrying conductor having a relatively high impedance to ground and requiring shielding from external alternating current electromagnetic disturbances, shielding means acting to shield the inner conductor from said disturbances and comprising an array of mutually spaced outer conductors angularly distributed about the inner conductor and forming a screen effectively surrounding that conductor, a plurality of the outer conductors being connected in parallel

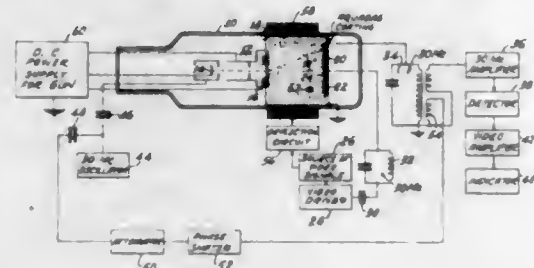


in a circuit that normally carries direct current between the two stations at a direct current potential appreciably different from ground potential, the impedance for direct currents between those outer conductors and ground being relatively high, and a capacitor connected between the said circuit and ground and providing a relatively low impedance path for alternating currents between the parallel-connected conductors and ground, the last said conductors performing substantial shielding action for the inner conductor by virtue of the said capacitor.

2,716,188

## STORAGE TUBE AND CIRCUIT

Louis Pensak, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application October 31, 1950, Serial No. 193,187  
5 Claims. (Cl. 250-27)



1. A circuit for operating a storage tube having a cathode, means to produce an electron beam from said cathode and including beam current control means, a target of insulating material toward which the beam is directed and on which electrical signals are stored, a signal electrode on the side of the target remote from the beam for receiving signals to be stored, a barrier grid interposed between the beam and the target, and a collector electrode; said circuit comprising, means for applying signals of a first predetermined frequency band to said signal electrode, said means including a first trap circuit to trap voltages of a second different and non-overlapping carrier frequency and thereby prevent loss of voltages of said carrier frequency at said electrode, means to apply a voltage of said carrier frequency to said beam current control means to control the beam current, and a second trap circuit connected to said barrier grid to trap signals of said carrier frequency, whereby the barrier grid may be employed as an output electrode.

2,716,189

## FREQUENCY SELECTIVE CIRCUIT

William R. Ayres, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application September 30, 1952, Serial No. 312,325  
9 Claims. (Cl. 250-27)

1. A system for selective response to a sinusoidal signal of a predetermined frequency included in a received signal, comprising two distinct channels to each of which the

received signal is applied, means to phase invert the signal in one channel with respect to that of the other, means in one channel to delay the signal a time equal to a half period at the said predetermined frequency, each channel comprising means to transform the sinusoidal signal into



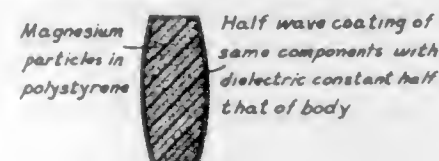
a square wave signal and means to differentiate the said square wave signal, means to add the differentiated pulses of one polarity from both channels, and a threshold circuit responsive to a given amplitude value exceeding the amplitude of a single differentiated pulse.

2,716,190

## DIELECTRIC MATERIAL

Edward B. Baker, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application February 23, 1951, Serial No. 212,365  
6 Claims. (Cl. 250-33.63)



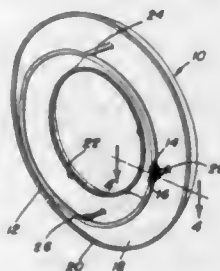
1. A microwave lens composed of a low-density dielectric material consisting essentially of substantially rod-shaped magnesium particles having a length not greater than 0.1 inch and a diameter not greater than 0.01 inch dispersed in a foamed polystyrene matrix.

2,716,191

## ANTENNA

George Bartuska, Jr., and John J. Frick, South Bend, Ind., assignors of one-third to Walter E. Knoop, South Bend, Ind.

Application January 16, 1953, Serial No. 331,706  
5 Claims. (Cl. 250-33.65)



1. An antenna comprising a circular dipole and a reflector constituted from a paraboloid of revolution with said dipole as the focus of said paraboloid of revolution, the axis of said paraboloid of revolution coinciding with the axis of said dipole, the reflector having inner and outer circular peripheral edges with the inner peripheral edge being of a lesser diameter than the diameter of said dipole, and with the outer peripheral edge being of greater diameter than the diameter of the dipole.

2,716,192

## MICROWAVE NOISE SOURCE

Harwick Johnson, Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Army

Application May 12, 1950, Serial No. 161,501  
1 Claim. (Cl. 250-36)

A microwave noise generator comprising a hollow pipe rectangular wave guide including an internal ridge wave guide section joined to said rectangular wave guide by a smooth continuously decreasing ridge portion, an

elongated gas discharge tube having two dielectric envelope portions within said wave guide, one of said portions having its axis parallel to that of said rectangular wave guide, the other portion thereof being inclined from the longitudinal axis of the wave guide at an angle of more than zero but less than 15° and extending out-

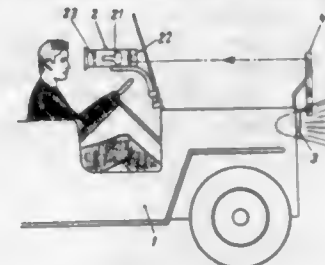


side of said rectangular wave guide, an electrode at each end of said discharge tube for producing the discharge, said rectangular wave guide being closed near the end of the parallel portion of the said discharge tube, and means for shielding the outside portion of said discharge tube.

2,716,193

POOR-VISIBILITY SCOPE FOR ROAD VEHICLES  
Hans Riolo, Zurich, Switzerland, assignor to Albiswerk Zurich A. G., Zurich, Switzerland, a Swiss corporation

Application June 9, 1952, Serial No. 292,454  
Claims priority, application Switzerland June 8, 1951  
10 Claims. (Cl. 250-215)



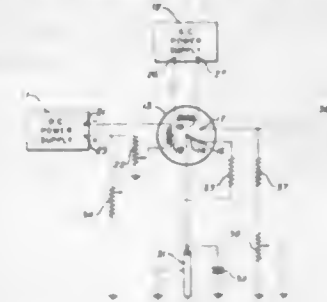
2. Apparatus for visualizing a vehicle position relative to the road at poor visibility, comprising an infrared-responsive picture converting device mounted on a vehicle and having a screen for reproducing a visible image of a road area, and an optical device mounted on the vehicle and having means for issuing a beam of light and being optically directed onto said converting device, said device having on said screen an optical point of incidence corresponding to a simulated reference at a given distance ahead of the vehicle.

2,716,194

## PULSE GENERATOR

Dick A. Mack, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application September 2, 1953, Serial No. 382,502  
4 Claims. (Cl. 307-108)



3. In a square wave pulse generator, the combination comprising a high speed relay having a first and second contact with a common connection, said relay also having a holding coil and an actuating coil, a section of open-ended coaxial cable having the central conductor connected at one end to said common connection and the outer conductor connected to ground, a capacitor connected across the input end of said cable, a source of charging voltage connected through a high value of re-

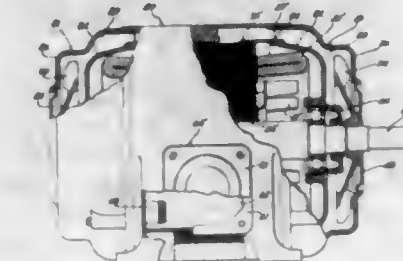
sistance between said first contact and ground, a resistive circuit having a value substantially equal to the characteristic impedance of said cable connected between said second contact and ground, means connected across said holding coil for maintaining a constant value of energization to close said first contact, means connected across said actuating coil for intermittently energizing such coil sufficient to overcome the effect of said holding coil to open said first contact and close said second contact, and an output terminal connected to said second contact.

2,716,195

## VENTILATION OF ELECTRIC MACHINES

Gordon R. Anderson, Freeport, Ill., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application December 26, 1952, Serial No. 328,117  
8 Claims. (Cl. 310-59)



1. In a ventilated electric machine, an open end frame member providing a circumferentially continuous outer wall and frame mounting projections at opposite sides of the frame member, said wall having an air discharge opening in a medial portion thereof between said opposite mounting projections, a hollow boss formed externally on said outer wall and extending adjacently to and between the mounting projections at one side of the frame member, circumferentially continuous inner wall elements relatively spaced apart axially of the frame member, spacer elements mounting said inner wall elements on the outer wall in positions radially inward of the outer wall, a stator member spanning said wall elements and having its peripheral end surfaces seating on the wall elements, said spacer elements cooperating with said outer wall, the inner wall elements and stator member to define air passages extending inwardly from the open ends of the frame to the medial frame region between the outer wall and the circumferential portion of the stator member exposed between said wall elements, said spacer elements further being adapted for establishing in the medial frame region, air flow paths extending oppositely from a frame point remote from said discharge opening, generally circumferentially over the exposed portion of the stator member to the discharge opening, said frame member having passage means communicating with the interior of said hollow boss and extending through said outer wall and opening through at least one of said inner wall elements, end closure means for the open ends of the frame member each having an air inlet opening, and rotor means supported by said end closure means for cooperation with said stator member, said rotor means including air moving for causing air flow from said inlet openings to and through said air passages and along said flow paths to discharge through said discharge opening.

2,716,196

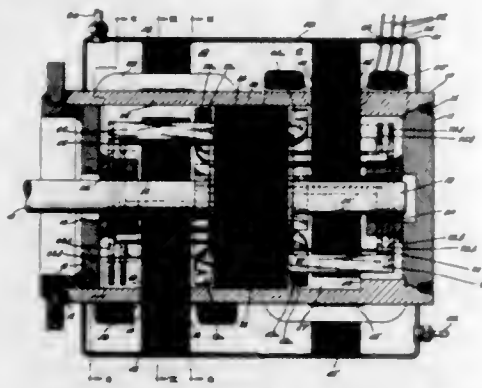
ENCLOSED MOTOR-TRANSFORMER APPARATUS  
Gordon R. Anderson and John W. Hicks, Freeport, Ill., assignors to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application April 8, 1954, Serial No. 422,720  
15 Claims. (Cl. 310-68)

1. Motor apparatus comprising an enclosing housing of non-magnetic material, wall insert means of magnetic



material in the wall of the housing with surface exposure to the exterior and to the interior of the housing, a motor device in the housing provided for translating electrical energy to mechanical motion, said motor device including a magnetic field core element, a transformer output core element in the housing having core legs in magnetic engagement with said insert means at the surface exposure thereof in the housing, electrical conductor means comprising bare conductor elements carried by said field core element and extending to and about said core legs in positions free of contact with the latter, and transformer input means externally on said housing, including an input core element in magnetic engagement with said insert means at the surface exposure thereof externally of the housing.



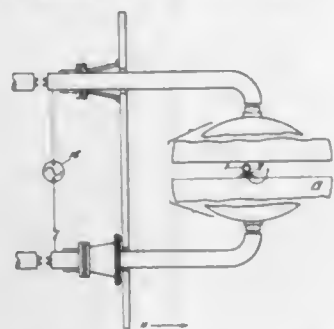
15. In a method of forming a motor device of the character disclosed, the steps of inserting a recessed transformer secondary core in an open-ended casing, inserting in the casing a motor stator providing at least a pair of U-shape conductors having the legs of one thereof projecting from one side of the stator and the legs of the other thereof projecting from the other side of the stator, positioning the motor stator with the legs of one conductor extending through the recesses of the transformer secondary core in positions free of contact with the core, inserting a motor rotor and shaft assembly in the casing to a position therein for operative cooperation of the rotor with the motor stator, inserting a second recessed transformer secondary core in the casing to a position having the legs of the other conductor projecting through the recesses thereof and free of contact with the core, thence applying a conductor segment in spanning relation to the legs of each conductor and electrically joining the segment to the conductor legs, applying end closures having shaft bearings, at the open ends of the casing in positions receiving the motor rotor shaft in the shaft bearings thereof, and thereafter hermetically sealing the end closures to the casing.

2,716,197

## ION SOURCE

Royce J. Jones and Robert E. Wright, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application September 8, 1950, Serial No. 183,854  
3 Claims. (Cl. 313-63)



1. In a cyclotron, a pair of confronting accelerating D electrodes, means for establishing a magnetic field normal to the confronting faces of said electrodes, an ion

source comprising a longitudinally apertured elongated hollow cylinder defining an arc chamber disposed parallel to the direction of the magnetic field and equidistant from the accelerating electrodes of said cyclotron, the longitudinal aperture of said chamber providing an exit slit for ions formed therein, a bell-shaped extension of one end of said cylinder defining a filament chamber, anode and filament electrodes for producing an electric arc through said chambers, said filament being disposed within said filament chamber and said anode being disposed at the distal end of said arc chamber and electrically insulated therefrom, means defining an aperture between said filament chamber and said arc chamber, means for establishing an arc discharge in said cylinder from said filament, said aperture being aligned with and in spaced relation to said filament for collimating the arc through the arc chamber, a gas chamber communicating with said filament chamber and having a port for receiving gas from a source, and an electrode member disposed parallel to said arc chamber and in spaced relation to the ion exit slit of said chamber and defining a second slit for passage of ions emitted through said ion exit slit.

2,716,198

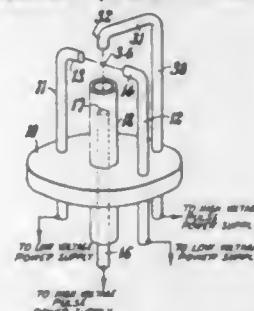
## ELECTRIC SPARK DISCHARGE DEVICE

Donald Murdo McCallum, Hollinwood, Lancs, England, assignor to Ferranti Limited, Hollinwood, England, a British company

Application January 16, 1950, Serial No. 138,925  
Claims priority, application Great Britain

January 18, 1949

8 Claims. (Cl. 313-231)



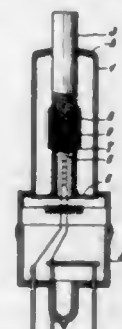
1. An electric spark discharge device of the type stated comprising two main electrodes each provided with electrode tips defining between them a main spark-gap, an auxiliary pilot-spark electrode having an electrode tip lying adjacent to but offset from a point in said main spark gap lying in between said main electrode tips and a tube of insulating material surrounding said auxiliary electrode and extending beyond the electrode tip thereof towards said main spark gap so that its bore, if extended, would pass across said main spark gap.

2,716,199

## ELECTRIC DISCHARGE TUBE FOR SHORT WAVES

Gesinus Diemer and Pieter van Bree, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 21, 1951, Serial No. 262,706  
Claims priority, application Netherlands January 26, 1951  
2 Claims. (Cl. 313-250)



1. An electric discharge tube for very short waves comprising a cathode adapted to be displaceable in a given

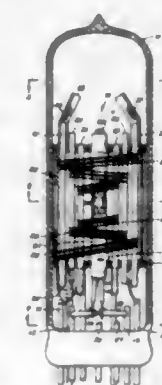
direction and having a planar electron emissive portion, means for heating the cathode to a given operating temperature, an electrode disposed opposite to and aligned with said emissive portion of said cathode and in thermal-radiation relationship therewith, said electrode having dimensions and being constituted by a ferrochromium material having a thermal coefficient of expansion at which a given change in dimension of the electrode in the direction of said cathode is produced by changes in the cathode operating temperature, and a spacer member secured to a portion of said electrode remote from said emissive portion of said cathode and defining a given spacing between said cathode and said electrode, said spacer member being in thermal-conduction relationship with said cathode and having dimensions and being constituted by a ceramic material containing about 91%  $3\text{MgO} \cdot 4\text{SiO}_2$ , about 3%  $\text{BaCO}_3$ , about 5 to 6%  $\text{SiO}_2$ , and the remainder being flux materials and impurities and having a thermal coefficient of expansion at which a change in dimension of said spacer in the direction of said cathode is produced by the changes in the cathode operating temperature, the coefficients of expansion of the spacer and the electrode having values at which the spacing between the cathode and the electrode as a function of the cathode temperature is a maximum at said given operating temperature of the cathode, whereby the spacing between the cathode and the electrode is maintained substantially constant.

2,716,200

## ELECTRON SPACE DISCHARGE DEVICES

Herbert R. Jacobus, Jr., White Plains, N. Y., assignor to Sonotone Corporation, Elmsford, N. Y., a corporation of New York

Application November 20, 1951, Serial No. 257,323  
1 Claim. (Cl. 313-261)



In an electron space discharge device, an electrode assembly including an anode, a cathode and at least one further electrode interposed between said anode and said cathode, all of said electrodes extending generally parallel to each other and each having opposite elongated junction portions, two opposite generally flat resilient spacing structures of insulating material and each having junction openings engaging the opposite junction portions of each of said electrodes passing through said openings for holding said electrodes insulated from each other in laterally spaced operative positions, each of said spacing structures comprising a flat inner plate member and a flat outer plate member positioned in overlapping contact engagement with each other, plate portions of each respective outer plate member which border the cathode junction openings through which the respective cathode junction portion passes constituting at least three stiff restraining tongues which are angularly displaced from each other by at most  $120^\circ$ , said three tongues being elastically displaced from their original position in the respective plate and being held by their elastic restoring forces in wedging restraining engagement with at least three similarly angularly displaced surface portions of the cathode junction portion passing through the respective cathode junction opening, opposite junction por-

tions of each of the other electrodes of said assembly being surrounded on all sides and in engagement with the edges of the junction openings of the respective outer plate member through which they pass.

2,716,201

## ELECTRIC INCANDESCENT LAMPS

Ronald Oliver Nye, Hillingdon, and Clifford Richard Sterling, Cockfosters, England, assignors to Hivac Limited, Harrow-on-the-Hill, England, a British company

Application May 14, 1953, Serial No. 355,032  
1 Claim. (Cl. 313-276)



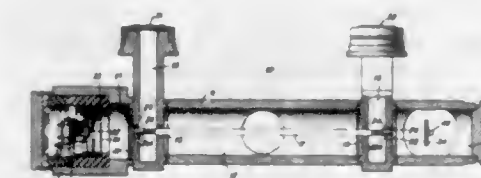
An electric incandescent lamp comprising a substantially cylindrical glass envelope closed at one end by a substantially hemispherical portion, leading-in wires sealed through said envelope at the end remote from the hemispherical end, a glass bead supported on and embracing said leading-in wires, a carbon filament supported by said leading-in wires and having a loop adjacent to said hemispherical end, a post extending substantially axially within said envelope and supported by said bead and an insulating disc of slightly less diameter than the internal diameter of said envelope supported at the extremity of said post substantially at right-angles to the axis of said envelope, said disc being provided with holes through which the legs of said filament pass whereby the movement of the filament is restricted and the possibility of contact between the filament and the envelope is reduced both during manufacture and during use.

2,716,202

## MICROWAVE AMPLIFIER ELECTRON DISCHARGE DEVICE

John B. Little, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

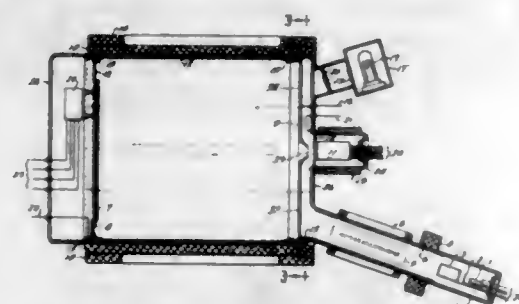
Application June 20, 1950, Serial No. 169,147  
10 Claims. (Cl. 315-3.5)



1. In a traveling-wave tube, means defining an electron path, a helical conductor in said path for setting up electromagnetic waves, means along said path for supplying wave energy for propagation along said conductor, means along said path for withdrawing energy from said conductor, matching sections integral with said helical conductor for coupling the input end of said conductor to the supplying means and the output end to the withdrawing means, each matching section comprising a plurality of end turns of said helix mechanically held in electrical contact with one another around the entire circumference of each turn, and means at one end of the electron path for forming and projecting an electron stream along said electron path in the direction of propagation of said waves.

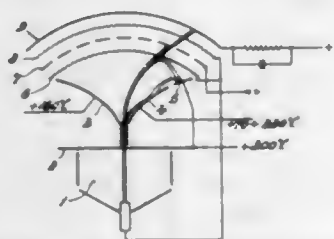


**2,716,203**  
**ELECTRONIC IMAGE STORAGE TUBE AND SYSTEM**  
 William J. Sen, Dayton, and Harry E. Schuster, Fairfield, Ohio  
 Application June 23, 1947, Serial No. 756,534  
 11 Claims. (Cl. 315-11)  
 (Granted under Title 35, U. S. Code (1952), sec. 266)



5. A storage tube for converting optical and electrical input signal into electrical output signal carrying both optical and electrical effects as modulation thereon, comprising an evacuated envelope having a plurality of stems projecting from a first end thereof, an electron beam emitting electron gun disposed in one of the stems projecting from said envelope and including a cathode for emitting the electron beam and a grid on which electrical signal is impressed for modulating the electron beam, a storage mosaic positioned within a second end of said envelope for permitting the electron beam from the electron gun to impact the storage mosaic for imparting grid carried electric signal modulation thereto, a light source of modifiable pattern and intensity for application to said mosaic for modifying electrical characteristics thereof, a dissector focusing coil outwardly of and continuously axially of the envelope between the first end thereof and the mosaic for focusing electron flow from the mosaic to the first end of said envelope, dissector deflection coils outwardly of said dissector focusing coil and extending axially of the envelope between the first end thereof and the mosaic for deflecting electron flow from the mosaic to the first end of said tube, and means at the first end of said envelope for withdrawing electrical signal modulated both optically and electrically from said mosaic.

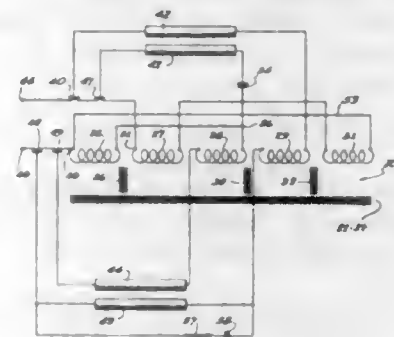
**2,716,204**  
**ELECTRON DISCHARGE DEVICE WITH DEFLECTION ELECTRODE SYSTEM**  
 Klaas Rodenhuis, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee  
 Application November 23, 1951, Serial No. 257,717  
 Claims priority, application Netherlands November 27, 1950  
 3 Claims. (Cl. 315-17)



1. An electron discharge device comprising means at one end to produce and project a flat ribbon-shaped electron beam along a given path, an anode disposed at the other end for receiving said beam, a grid electrode disposed on the side of said anode facing said beam producing means and in the path of said beam, a pair of similar outwardly flaring deflecting plates disposed between the grid electrode and the beam producing means and symmetrically arranged on opposite sides of the path of the electron

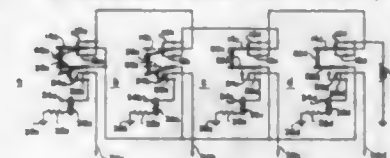
beam, at least one of said deflecting plates comprising at least two electrically-insulated portions spaced apart by a slit-shaped aperture extending in a direction perpendicular to the path of the beam including one portion adjacent the grid electrode and another portion remote from the grid electrode, means to apply a relatively low potential to said grid electrode, means to apply a relatively high potential to said anode, means to apply a beam control potential including a maximum potential to at least said other portion of said one deflecting plate, and means to apply a fixed potential exceeding said maximum potential to said one portion of said deflecting plate, whereby electrons returned by the low potential on the grid are collected by said one portion of said one deflecting plate.

**2,716,205**  
**APPARATUS FOR OPERATING GASEOUS DISCHARGE DEVICES**  
 Albert E. Feinberg and Paul Berger, Chicago, Ill., assignors to Advance Transformer Co., Chicago, Ill., a corporation of Illinois  
 Application April 5, 1950, Serial No. 154,094  
 9 Claims. (Cl. 315-138)



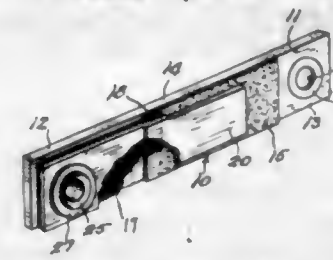
1. Apparatus of the character described for operating a plurality of gaseous discharge devices from a relatively low voltage source of A. C. power comprising, two gaseous discharge devices, an elongate iron core forming a single magnetic circuit having flux threading the same, a plurality of windings disposed along the length of the core, said windings forming a transformer and being connected to said gaseous discharge devices for igniting and operating the same, two windings being connected in series and in voltage additive relationship and together connected across the source to serve as parts of a primary, the primary parts being physically disposed at opposite ends of the said core, a third winding mounted upon said core in close coupled relationship with only one primary part, and connected in auto-transformer relationship with the full primary as a secondary winding thereof, a condenser, one gaseous discharge device being in series with the condenser and together therewith connected across said third winding and said full primary, a fourth winding mounted upon said core in loosely coupled relationship with all of the windings and connected in auto-transformer relationship with the full primary as another secondary winding thereof, the second gaseous discharge device being connected in series with the said fourth winding and across the full primary, the capacitive reactance of said condenser being dominant relative to the inductive reactance of said third winding in the circuit including said first gaseous discharge device whereby a leading current will flow through the third winding during operation of the apparatus, and the inductive reactance of the fourth winding being dominant in the circuit including the second gaseous discharge device whereby a lagging current will flow through the fourth winding during operation of the apparatus, there being magnetic shunts in the core on opposite sides of the fourth winding, the third and fourth windings being disposed upon said core physically between the primary parts.

**2,716,206**  
**ASSIGNMENT CANCELLING CIRCUIT**  
 Octavio M. Salati, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of the Army  
 Application April 16, 1952, Serial No. 282,547  
 1 Claim. (Cl. 317-137)



A circuit arrangement comprising a plurality of magnetic relays each having a two terminal coil, and each having a set of break-before-make leaves comprising first and second fixed leaves and a first movable main leaf between said two fixed leaves, and a set of make-before-break leaves comprising a second movable main leaf, a movable secondary leaf and a third fixed leaf between said second movable main leaf and said secondary leaf, said first fixed leaf being in contact with said first main leaf and said third fixed leaf being in contact with said secondary leaf when said coil is not energized, and said second fixed leaf being in contact with said first main leaf and said secondary leaf being in contact with said second main leaf when said coil is energized, the first and second fixed leaves of each relay being connected together and also connected to the first main leaf of the next succeeding relay of said plurality of relays, the second main leaf of the first of said relays being connected to the first main leaf of said first relay and to the second main leaf of each succeeding relay of said plurality of relays, the secondary leaf of each relay being connected to one terminal of its coil, the other terminal of each coil being grounded, the third fixed leaf of each relay being connected to a separate source of relay energizing potential respectively, and the first and second fixed leaves of the last relay of said plurality of relays being connected to a source of holding voltage.

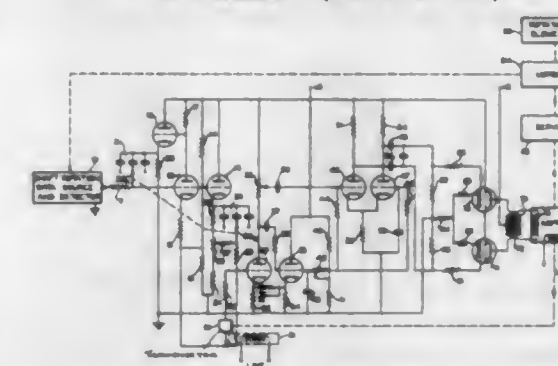
**2,716,207**  
**ELECTRICAL APPARATUS**  
 Rudolph J. Cepon, North Chicago, and Elsie M. Johnson, Waukegan, Ill., assignors to Fansteel Metallurgical Corporation, a corporation of New York  
 Application October 6, 1951, Serial No. 250,088  
 2 Claims. (Cl. 317-234)



1. A dry plate type of rectifier of the type having an asymmetrically conducting barrier layer disposed between carrier and counterelectrodes and where said asymmetrically conducting barrier layer is pressure sensitive, a carrier electrode having end terminal portions and an intermediate electrode portion, a layer of insulating material disposed on one face of said carrier electrode at one terminal portion, a layer of asymmetrically conducting material disposed on said one face of carrier electrode at said intermediate portion thereof and out of contact with said terminal portions of said carrier electrode, and a counterelectrode disposed above said insulating layer and asymmetrically conducting layer, the other terminal portion of said carrier electrode being free of all material and being apertured to render the same available as a terminal for said carrier electrode, the carrier electrode and insulating layer and counterelectrode material being apertured at said one terminal portion and terminal means insulated from said carrier electrode passing through the

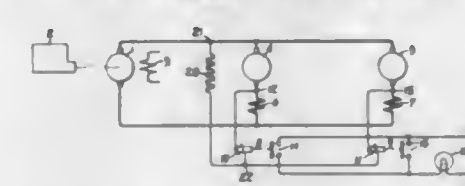
registering apertures at said one terminal portion for providing a connection to said counterelectrode, whereby said terminal portions being free of asymmetrically conducting material are capable of withstanding substantial pressure without affecting the operating characteristics of said device.

**2,716,208**  
**LONG TIME CONSTANT SERVO SYSTEM**  
 Francis P. Coffin, Jr., Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
 Application April 11, 1946, Serial No. 661,207  
 8 Claims. (Cl. 318-19)



1. A long time constant servo system comprising a source of shaft rotation data, a source of alternating voltage, a long time constant input circuit, means for combining a carrier signal and said shaft rotation data voltage, means for filtering said combined shaft rotation data and carrier signal, means for obtaining a push-pull output voltage from said filtered signal, a two phase motor energized by said source of alternating voltage and said push-pull output voltage, means for obtaining feedback from said motor to said shaft rotation data source, and a tachometer feedback circuit mechanically connected to said motor and electrically connected to the input of said filter for smoothing said motor rotation when said shaft rotation data information fades or disappears for short periods of time.

**2,716,209**  
**PLURAL MOTOR DRIVE WITH WHEEL SLIP DETECTION**  
 Valer V. Secarea and Gordon R. McDonald, Erie, Pa., assignors to General Electric Company, a corporation of New York  
 Application April 13, 1951, Serial No. 220,919  
 14 Claims. (Cl. 318-52)



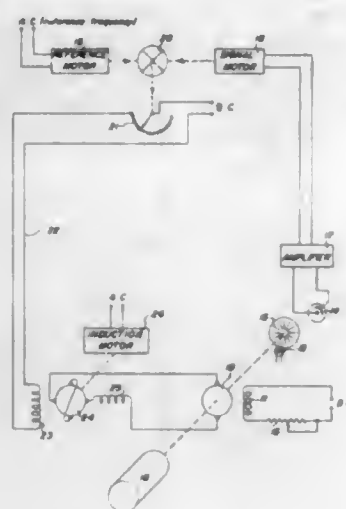
1. In a wheel slip detection system for a vehicle having a plurality of traction motors, wheel slip indicating means including a relay having a coil connected across normally equi-potential points in the circuits of two of said motors, and means arranged to derive a signal proportional to the speed of said vehicle connected to bias said relay responsive to said signal for recalibrating said relay coil.

**2,716,210**  
**ELECTROMECHANICAL SPEED REGULATOR FOR MOTOR**  
 William D. Owens, Minneapolis, Minn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey  
 Application December 4, 1952, Serial No. 324,052  
 7 Claims. (Cl. 318-146)

1. A speed regulator for a drive motor comprising photoelectric means actuated by the rotation of said motor



to generate signals whose frequency is proportional to the speed of said motor, means for amplifying said signals, a reference motor and a signal motor, the reference motor being adapted to be operated on a power line providing a reference frequency and the signal motor being adapted to be operated by said amplified signals, a differential mechanically coupled to the reference and signal motors,



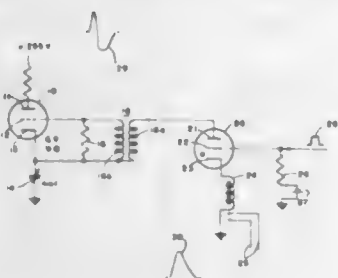
a rheostat mechanically coupled to the output of said differential to be controlled thereby, an amplidyne generator and means to drive the same, said amplidyne generator having a control field connected to said rheostat whereby the field excitation may be varied, and the output of said amplidyne generator being connected to said drive motor.

2,716,211

### THYRATRON TRIGGER CIRCUIT FOR DISCHARGING A CAPACITOR

Eugene A. Aas, Albuquerque, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application April 30, 1953, Serial No. 352,110  
4 Claims. (Cl. 320-1)

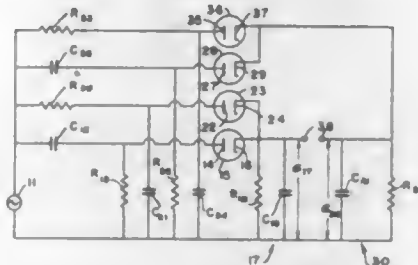


2. Electrical means for charging a variable condenser and thereafter discharging the same through a load circuit comprising normally enabled electrical means for charging the condenser, normally disabled electrical means for discharging the electrical condenser through the load circuit, electrical means for normally maintaining the disablement of the second named means, said maintaining means being adapted to be counteracted by the application of an electrical voltage pulse whereupon the normally disabled means is permitted to discharge the condenser through the load circuit and means interconnecting the charging and the discharging means including a transformer having two windings of which one is in series between the condenser and the discharging means and the other winding is arranged to apply to the charging means a disabling voltage during the discharge of the condenser and ceasing therewith.

2,716,212

### LOGARITHMIC DISCRIMINATOR

Raymond U. Sims, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application August 12, 1952, Serial No. 304,036  
2 Claims. (Cl. 321-27)

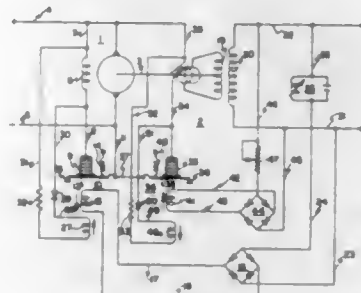


2. A logarithmic discriminator comprising a first branch having a condenser and resistor connected in series, a second branch having a resistor and condenser connected in series, a third branch having a condenser and resistor connected in series, and a fourth branch having a resistor and a condenser connected in series, the resistors and condensers of said branches being connected in the order named, and the branches being connected in parallel and adapted to have applied thereacross an A. C. signal of varying frequency, means for producing a first unidirectional voltage which is substantially equal to the amplitude of the larger A. C. voltage developed across the resistor of said first branch or the condenser of the second branch, and means for producing a second unidirectional voltage which is substantially equal to the amplitude of the larger A. C. voltage developed across the resistor of said third branch or the condenser of the fourth branch, the values of the resistors and condensers in said branches being such that the difference between said first and second unidirectional voltages is substantially a linear function of the logarithm of the frequency of the A. C. signal over a substantially wide range.

2,716,213

### STABILIZING CIRCUIT FOR A. C. REGULATOR

William G. Neild, Fair Haven, N. J., assignor to Bendix Aviation Corporation, Eatontown, N. J., a corporation of Delaware  
Application May 27, 1954, Serial No. 432,698  
4 Claims. (Cl. 322-19)

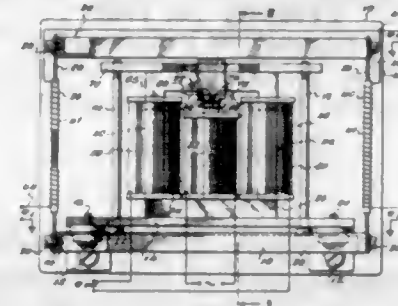


1. In combination, a dynamoelectric machine having and output circuit for producing an electric quantity variable in accordance with an operating condition of said machine, an excitation winding for said machine, a variable resistance element for controlling the excitation of said winding, a main control winding connected across said output circuit for controlling said variable resistance in response to variation in said quantity, a stabilizing winding for said regulator connected across said excitation winding, and a blocking rectifier connected to permit current flow in said stabilizing winding in a direction opposing said main winding.

2,716,214

### THERMAL INTEGRATOR

Willis G. Wing, Roslyn Heights, N. Y., assignor to Sperry Rand Corporation, a corporation of Delaware  
Application October 21, 1952, Serial No. 315,885  
4 Claims. (Cl. 323-52)

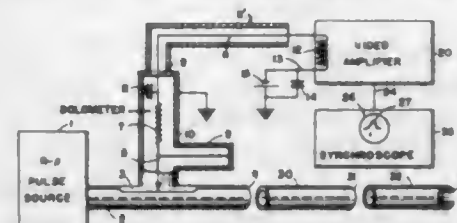


1. A thermal integrator comprising a frame, a pair of spaced parallel reverse welded bimetal elements, each of the bimetal elements being secured at one end thereof to the frame, a spacer bar having a low coefficient of thermal conductivity secured to and between the opposite ends of the bimetal elements, the bimetal elements being mounted to bend in opposite directions with respect to each other; when heated, electrical heating coils extending around each of the bimetal elements and connected in series across a source of potential, the input signal to the integrator being connected to the common junction between the heating coils, an E-transformer supported by the frame and having an air gap in the center leg thereof, and a shorted turn of conductive material supported by the spacer bar and extending through the air gap, the E-transformer producing an output signal in response to changes in position of the shorted turn in the air gap with movement of the spacer bar.

2,716,215

### PULSE WIDTH MEASURING PROCESS

Warren H. Flarity, Arlington, Va.  
Application May 15, 1946, Serial No. 669,768  
5 Claims. (Cl. 324-68)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A method of obtaining a measure of the width of a recurrent pulse of energy of a given frequency with a transmission means having an electrical length over one-half the width of said pulse of energy and terminated so as to reflect said energy comprising the steps of feeding said pulse of energy into said transmission means, locating from among the series of contiguous points along said transmission means over which the time integral of power flowing through said transmission means does not vary the point nearest the terminated end thereof, translating the length of transmission means between said point and the terminated end of said transmission means, into a measurement of the duration of said energy pulse.

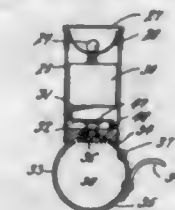
2,716,216

### SHORT-CIRCUIT DETECTORS

Otto K. Schwenzfeier, McCook, Nebr.  
Application August 1, 1952, Serial No. 302,279  
1 Claim. (Cl. 324-133)

A device for determining whether an electrical conductor is electrically energized, comprising: a tubular, metallic housing; a reflector positioned in and electrically grounded to one extremity of said housing; a lamp bulb supported in and electrically grounded to said reflector

and having a tip contact extending into said housing; a battery in said housing with its positive terminal in contact with the tip contact of said bulb; a spring blade mounted in said housing in insulated relation thereto and acting against the negative terminal of said battery to urge the latter toward said bulb; an armature blade resiliently mounted at its one extremity in said housing in insulated relation thereto and in circuit with said spring blade, said armature blade extending transversely of said housing adjacent the other extremity thereof; an insulating plug closing the other extremity of said housing; a fixed, metallic, semi-circular ring section having its upper extremity embedded in and extending through said plug into said housing; a fixed metallic bracket section similarly embedded

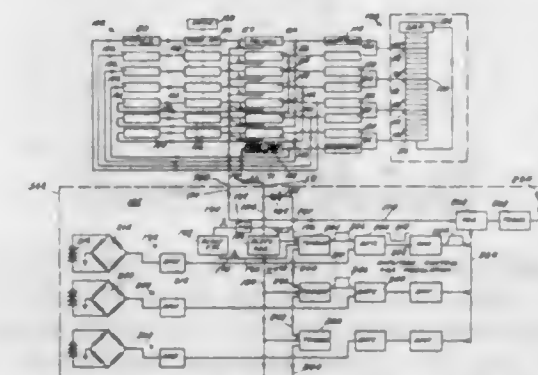


in and extending through said plug in spaced relation to the upper extremity of said ring section; an arcuate, metallic hinge section hinged upon said bracket section and positioned to swing into contact with the lower extremity of said fixed ring section to form a closed ring when desired, the upper extremities of said ring and bracket sections terminating within said housing in spaced relation to said armature blade, so that when magnetism is induced in said closed ring, said armature blade will be attracted toward said extremities and a contact mounted in and grounded to said housing and positioned in the path of said armature blade so that when the latter is attracted, a circuit will be closed through said lamp bulb to illuminate the latter.

2,716,217

### COMMUNICATION SYSTEM

Leonhard Katz, Woburn, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware  
Application July 29, 1950, Serial No. 176,560  
3 Claims. (Cl. 332-9)



1. A radio transmitter comprising: a first means, generating electrical oscillations of relatively high frequency; a second means, generating electrical oscillations of relatively low frequency; a third means, receptive of said last-named electrical oscillations, cyclically deriving therefrom a plurality of signals of different relative phases; a fourth means, receptive of said last-named signals, cyclically deriving from each of said last-named signals a plurality of voltage pulses spaced from each other as a function of the magnitude of externally generated intelligence; a fifth means, synchronized with one of the signals from said third means, cyclically deriving from each of said last-named signals a plurality of modulating pulses each of which has a duration equal to a cycle of said electrical oscillations of relatively low frequency and an amplitude which is a function of additional externally generated intelligence; a sixth means, receptive of said voltage and modulating pulses, successively im-

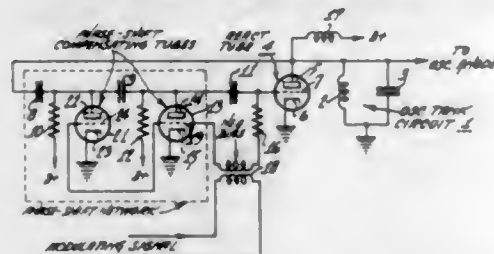


pressing predetermined modulating characteristics, respectively, upon each cycle of said voltage pulses in accordance with said additional externally generated intelligence; and a seventh means, receptive of the output of said sixth means, coupling said output to said first means and thereby plurally modulate the latter.

2,716,218

## FREQUENCY VARIATION CIRCUIT

Alvan Donald Arsem, Liverpool, N. Y., assignor to Radio Corporation of America, a corporation of Delaware  
Application June 6, 1952, Serial No. 292,103  
11 Claims. (Cl. 332-28)

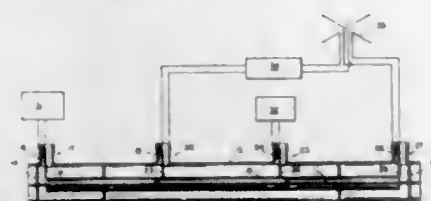


1. In combination, a resonant circuit wherein oscillatory energy appears, an electron discharge device having at least electron-emitting, electron-receiving and control electrodes, means connecting said electron-emitting and electron-receiving electrodes directly across said resonant circuit, a phase shift network including a plurality of impedance elements coupling said control electrode to said resonant circuit to feed phasal shifted oscillatory energy to said control electrode, whereby said device functions as an electronic simulated reactance, and means for varying the impedance of at least one of the impedance elements of said network in response to a variable control signal to thereby vary the amount of phase shift provided by said network.

2,716,219

## MIXER CIRCUIT

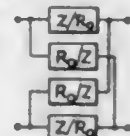
John Milton De Bell, Jr., Passaic, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware  
Application August 31, 1951, Serial No. 244,653  
2 Claims. (Cl. 333-11)



1. An electrical mixer circuit for electrical waves within a band about a predetermined wavelength, said circuit comprising a first conductive member having an effective length substantially three-quarters of said predetermined wavelength; a second tubular conductive member having substantially the same effective length as said first conductive member, said first and second conductive members forming a coaxial transmission line; a third tubular conductive member having substantially the same effective length as said second conductive member and surrounding said second conductive member to form in combination therewith a coaxial transmission line; a conductive connection between said first and third conductive members at both ends thereof; and four coaxial outlets each having the outer conductor thereof electrically connected to said third conductive member and the inner conductor thereof connected to said second conductive member, one of said outlets at substantially each end of said conductive members, the two remaining outlets being substantially equally spaced along said conductive members from each other and from the outlets at said ends.

2,716,220  
DISSIPATION COMPENSATED PHASE SHIFT NETWORK

Wolfa Saraga, Orpington, England, assignor to Telephone Manufacturing Company Limited, a British company  
Application November 27, 1953, Serial No. 394,825  
Claims priority, application Great Britain  
February 16, 1953  
4 Claims. (Cl. 333-29)



1. An elementary phase shift dissipation-compensated network for producing over an extended frequency range a constant loss and a phase shift  $\beta 1$  in radians defined by the relation:

$$\beta 1 = 2 \tan^{-1} \bar{a} x$$

where  $\bar{a}$  is a real and positive constant and  $x$  is the normalized frequency, expressed as the ratio  $x = f/f_0$ , where  $f$  is the frequency and  $f_0$  is an arbitrary reference frequency, said network corresponding to an ideal elementary phase shift network the reactances of which are dissipation-free and which produces a constant loss, which may be zero, and a phase shift  $\beta 2$  defined by the relation

$$\beta 2 = 2 \tan^{-1} \bar{a} x$$

the reactances of the ideal network which are positive having an impedance  $Z_a$  defined by the relations:

$$Z_a = R_0 \tanh \beta / 2 = j R_0 \tan \beta / 2 = j R_0 \bar{a} x$$

where  $R_0$  is an arbitrary and constant value of resistance and the reactances of the ideal network which are negative have the inverse form of the positive reactances and are of value  $R_0^2/Z_a$ , the said dissipation-compensated network comprising in the position of a reactance of the ideal network a substitution impedance having an impedance  $Z_1$  which is defined by the relation

$$Z_1 = R_0 \tanh (\alpha_1 + j \beta_1) / 2$$

where

$$\alpha_1 = (\alpha_1 - \alpha_2)$$

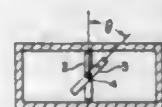
where  $\alpha_1$  is the loss, in nepers, of the dissipation-compensated network and  $\alpha_2$  that of the said corresponding ideal network, said substitution impedance consisting of the parallel combination of a first branch consisting of resistive component of value  $Q R_0 / \bar{a}$ , with a second branch consisting of a reactive component of value  $j R_0 c x$  and a resistive component of value  $C R_0 / Q$  where  $c$  is defined by the relation

$$c = \bar{a} / (1 - \bar{a}^2 / Q^2)$$

and  $Q$  is the ratio of the reactance to resistance of the respective components of the said first branch at the normalized frequency  $x=1$ , and comprising in the position of a reactance of the ideal network which is of the inverse form, an impedance which is of inverse form, with respect to  $R_0$ , of said substitution impedance.

2,716,221  
ROTATABLE DIELECTRIC SLAB PHASE-SHIFTER FOR WAVEGUIDE

Philip J. Allen, Washington, D. C.  
Application September 25, 1950, Serial No. 186,623  
4 Claims. (Cl. 333-31)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



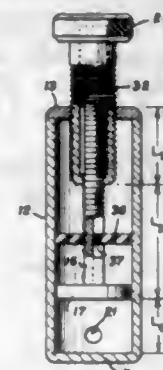
1. A phase shifting device for use in hollow waveguide electromagnetic energy transmission systems comprising

first and second dielectric members rotatably mounted for rotation together within a hollow waveguide about an axis running within and lengthwise of said waveguide, the distance from said axis to the surface of said members varying about said axis, said members being displaced from each other along said axis and lying serially in the path of the electromagnetic energy being propagated in said waveguide, the angular relation between said members being adjustable whereby the amplitude of the phase shift variation may be readily varied.

2,716,222

## TEMPERATURE COMPENSATED CAVITY RESONATOR

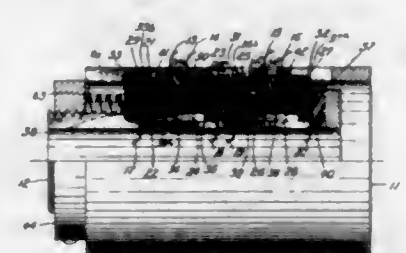
Louis D. Smullin, Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy  
Application July 17, 1951, Serial No. 237,106  
5 Claims. (Cl. 333-83)



2. In a tunable resonant cavity having cylindrical side walls a bottom wall and a piston slidable within said side walls to provide a cavity of a depth determined by the position of said piston, adjustment means interconnecting said piston and said side walls including two elongated coaxial members, one of said members having a coefficient of temperature expansion equal to the coefficient of temperature expansion of said side walls and the other having a coefficient of temperature expansion greater than that of the side walls, one of said members threadedly engaging the other of said members at one thread pitch, support means secured to said sidewalls, said last-mentioned one of said members threadedly engaging said support means at another thread pitch in the same sense as the first thread pitch, the threaded engagements of said last-mentioned one of said members being at axially spaced portions thereof, and means engaging the last-mentioned other of said members and said sidewalls for preventing rotation of the last-mentioned other of said members relative to said sidewalls, the last-mentioned other of said members being secured to said piston.

2,716,223

SEALED MERCURY SLIP RING ASSEMBLY  
Richard A. Griefen, Arlington Heights, Ill., assignor to Raytheon Manufacturing Company, a corporation of Illinois  
Application December 4, 1952, Serial No. 323,994  
6 Claims. (Cl. 339-5)



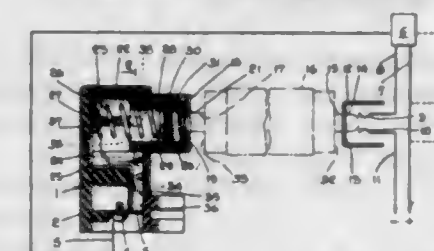
1. In an electrical assembly, in combination with a rotor and a stator, a pair of plastic rings secured to said rotor and stator, respectively, said rings having laterally matching recesses forming an annular chamber whose

boundaries are intermediate the inner and outer peripheries of said plastic rings, a pair of metallic rings disposed within said chamber, said metallic rings being spaced to provide an annular sub-chamber bounded peripherally by said metallic rings and laterally by said plastic rings, and a current-conducting fluid occupying said sub-chamber and serving as an electrical connection between said metallic rings.

2,716,224

## LAMP SOCKETS FOR SINGLE PIN FLUORESCENT LAMPS

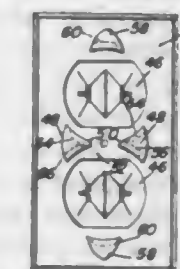
Michael Henry Kruger, Malden, Mass., assignor to A. L. Smith Iron Company, Chelsea, Mass., a corporation of Massachusetts  
Application April 9, 1952, Serial No. 281,315  
5 Claims. (Cl. 339-55)



1. A socket having a yieldable seat for cooperating with a socket having a fixed seat to support between the two a fluorescent lamp having a single pin terminal at each end, characterized by a chambered housing composed of insulating material, having an opening and having an internal abutment, a disk composed of insulating material having a narrow pin opening therein, said disk constituting a seat and being slidable relative to said abutment, a single contact, a first spiral spring for normally spacing said contact from said disk a predetermined distance when expanded and the coils of which spring in a radial direction when contracted effectively clearing said narrow pin opening and spacing said contact from said disk a shorter predetermined distance, a second spiral spring in engagement with the said contact disposed in said housing and tensed between said abutment and said contact, said housing and disk cooperating to enclose said springs and contact, the second spring being less sensitive than said first spring so that compression on the seat by the lamp will initially be mainly taken up by said first spring until positive contact has been established whereupon any further compression necessary to accommodate the lamp between the socket fixtures will be absorbed by said second spring.

2,716,225

COVER PLATE AND SAFETY-ATTACHED PLUG  
Glenn O. McCubbin, Pawnee, Okla.  
Application June 19, 1953, Serial No. 362,799  
1 Claim. (Cl. 339-75)



As a new article of manufacture, an outlet box special purpose cover plate to take the place of the usual cover plate and having two plug accommodating and seating areas in spaced parallelism, a pair of V-shaped bosses aligned with each other in the space between said areas and having their apices directed toward each other and in alignment, the converging edge portion of said lugs having grooves defining keeper seats for complementary keeper lugs, and a second pair of similar bosses on said plate



situated outwardly of the respective marginal portions of said plug seating areas and opposed to each other circumferentially spaced at equidistant points and having keeper grooves, whereby four bosses thus arranged provide six keeper grooves in all, specifically, two sets of three grooves each with said respective sets of three grooves at 120 degrees apart.

2,716,226

**ELECTRICAL SOLDERLESS CONNECTOR**

Walter Monroe Jonas, North Bergen, N. J., assignor to Relner Electronics Co., Inc., a corporation of New York

Application June 22, 1951, Serial No. 233,064  
1 Claim. (Cl. 339-268)



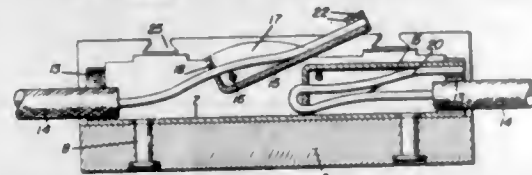
An electrical connection easily connected and disconnected without damage to the wire comprising a wire, a body member having a threaded recessed portion with uniform diameter larger than the diameter of the wire, and a threaded securing member positioned in said recessed portion and having a uniform diameter smaller than the threaded recessed portion of the body member, and engaging one side of said threaded recessed portion, said wire having a cross-sectional area less than the difference between the cross-sectional area of the threaded recessed portion and the cross-sectional area of the threaded securing member and being compressed between the body member and the threaded securing member and containing two sets of threads, one which engages and matches the threads of the recessed portion of the body member, and the other which engages and matches the threads of the securing member, the threads of the recessed portion and securing member having the same pitch, and means to enable one member to be easily rotated with respect to the other member.

2,716,227

**ELECTRICAL CONNECTOR FOR ATTACHMENT PLUGS HAVING MEANS TO ATTACH CONDUCTORS THERETO**

John P. Cook, Colquitt, Ga.

Application September 1, 1953, Serial No. 381,203  
6 Claims. (Cl. 339-274)



1. An electrical connector comprising a casing of insulation material, and having openings therein adapted to receive the prongs of an electric plug, a pair of channel members of conductive material in the casing, resilient contacts carried by the channel members in the path of the prongs when inserted in said openings, said channel members being adapted to receive circuit wires longitudinally in at least one end thereof, and longitudinally swingable terminal members pivoted in the channel members and to which the wires are attached for bending the wires upon themselves in clamping engagement in said channel members.

2,716,228

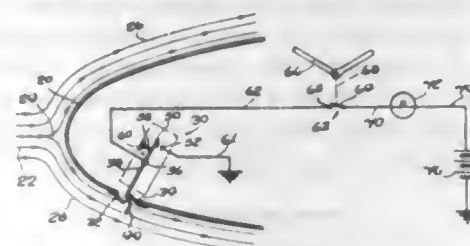
**AIRPLANE STALL WARNING DEVICES**

Leonard M. Greene, Scarsdale, N. Y.

Application April 28, 1951, Serial No. 223,596  
10 Claims. (Cl. 340-27)

9. In combination, an airfoil having a separation point which shifts over the nose thereof with respect to a limit

as the angle of attack varies, the approach to such limit substantially coinciding to the approach to stall conditions, a vane, means to mount said vane for fore and aft movement, fore and aft stops for limiting the movement of said



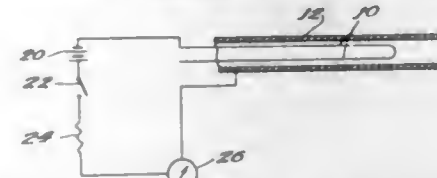
vane, means to bias said vane against the fore stop, said vane being disposed slightly aft the location of the separation point as said point approaches said limit and an indicating means actuated by said vane.

2,716,229

**LEAK DETECTOR**

Ralph F. Wehrmann, Dayton, Ohio, and Elmer W. Rebol, Richland, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application June 14, 1946, Serial No. 676,602  
2 Claims. (Cl. 340-242)



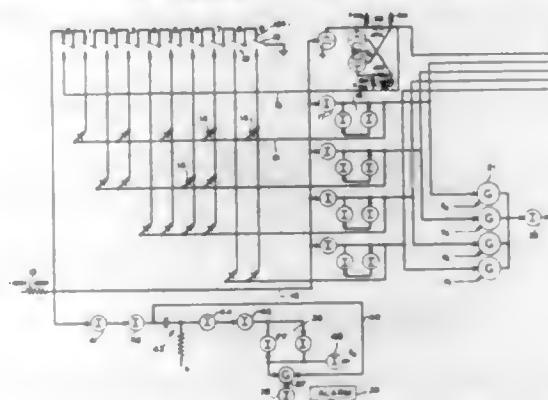
1. A device for detecting leaks in the jacket of a jacketed uranium body comprising, in combination, an electrically conducting sleeve adapted to tightly contain the jacketed uranium body, water disposed within the sleeve adapted to surround the jacket of the uranium body, an aluminum wire disposed adjacent to one of the surfaces of the electrically conducting sleeve, in contactual relationship with the sleeve, said wire having a coating of aluminum oxide insulating the wire from adjacent materials, and means to detect breakdowns in the electrical insulation between the wire and the sleeve, whereby leakage of water through the jacket of the jacketed uranium body produces a chemical reaction between the water and uranium producing a solid product of larger volume than the uranium and crushes the aluminum oxide coating on the aluminum wire to break down the electrical insulation between the aluminum wire and the electrically conducting sleeve.

2,716,230

**KEYBOARD CHECKING ALARM**

Walter S. Oliwa, Summit, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application November 8, 1952, Serial No. 319,555  
6 Claims. (Cl. 340-345)



1. The combination of a plurality of code forming means, means for conditioning said code forming means

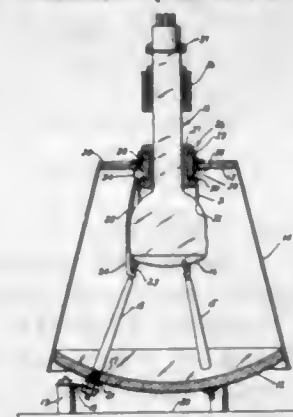
for operation, switch operated means for actuating said conditioning means and operating selected ones of the code forming means, a control device set to one state by said switch operated means and reset to the opposite state by said conditioning means on actuation thereof, a coincidence detector controlled jointly by said device and said switch operated means, and an alarm actuated under control of said coincidence detector when said device is in said one state and the switch operated means is in inoperated condition.

2,716,231

**MIRROR POSITIONING DEVICE FOR CATHODE RAY TUBE**

James Leonard Blayney, Lansdale, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application October 10, 1951, Serial No. 250,761  
11 Claims. (Cl. 340-370)



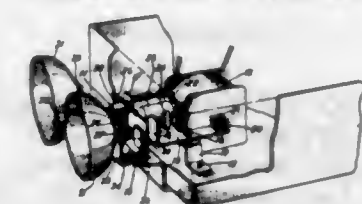
1. In a projection optical system for television apparatus of the type including a cathode ray tube having an image screen at the face thereof and a concave mirror member operable to project images appearing on the raster area of said screen, mechanism for rigidly positioning the cathode ray tube in predetermined spaced relation with respect to the concave mirror to insure proper focus in the system, said mechanism comprising a plurality of strut elements secured to surface portions of said mirror member and extending toward said tube face, said strut elements bearing against the tube face at spaced regions adjacent said raster area and the longitudinal axis of each of said strut elements being substantially perpendicular to the said surface portions of both said tube face and said mirror member, whereby the stresses to which said strut elements are subjected are substantially entirely compressional in nature, and means reacting between said tube and said strut elements and providing a force effective to maintain the bearing relation.

2,716,232

**FLUX MODULATED RINGER**

James R. Power, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 25, 1950, Serial No. 191,977  
5 Claims. (Cl. 340-387)



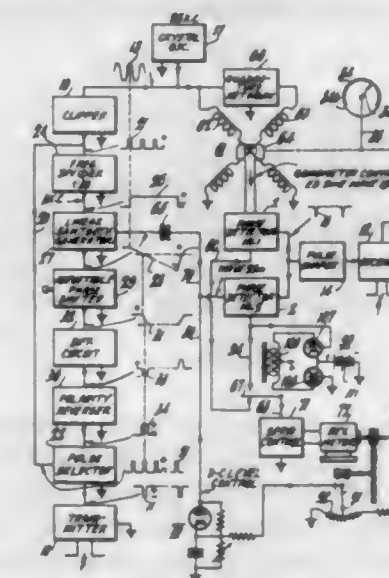
1. A magnetic circuit comprising a coil, a core having one section on which said coil is mounted and provided at each end with a polar extension of magnetic material projecting at right angles to the coil-mounting section of said core, an armature pivotally mounted at its center with each of its ends disposed in spaced relation to a different one of the polar extensions of said core, a shunt of magnetic material coupling said polar extensions, and

a bar-type permanent magnet contiguously associated with said magnetic shunt and disposed in spaced relation to said armature midway of the ends thereof and with its polar axis at right angles to the longitudinal axis of said armature.

2,716,233

**PULSE-ECHO DISTANCE MEASURING SYSTEM**

David H. Westwood, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application November 25, 1950, Serial No. 197,536  
9 Claims. (Cl. 343-7)



1. A pulse-echo distance measuring system comprising means for transmitting pulses of energy and receiving them after reflection from an object as pulse signals, said system comprising a first phase detector, means for producing a phase comparison signal having a definite time relation to said transmitted pulses and having a repetition rate that is high compared with that of said transmitted pulses, means for applying said comparison signal and said pulse signals to the first phase detector for obtaining an output that is a function of the phase relation of the applied signals, a servo means that is normally connected to be controlled by the output of the first phase detector only, means connected to the output of said servo for effectively shifting the phase of said comparison signal for driving the system to a condition of balance, and means for avoiding ambiguity due to lock-in on the wrong cycle of said phase comparison signal, said last means comprising means for producing a second phase comparison signal having a frequency that is a sub-multiple of the frequency of the first phase comparison signal, a second phase detector, means for applying said second phase comparison signal and said pulse signals to the second phase detector for obtaining an output that is a function of the phase relation of the signals applied to the second phase detector, means connected to the output of said servo for effectively shifting the phase of the second phase comparison signal for driving the system to at least approximately a condition of balance, and means for causing the output of the second phase detector only to assume control of the servo system in response to the output of the second phase detector falling outside of predetermined amplitude limits and to relinquish control in response to said last-mentioned output falling within said limits.

2,716,234

**RADAR BOMBING INDICATOR APPARATUS**

John M. Lester, Hempstead, and Richard L. Hinchey, Great Neck, N. Y., assignors to Sperry Rand Corporation, a corporation of Delaware

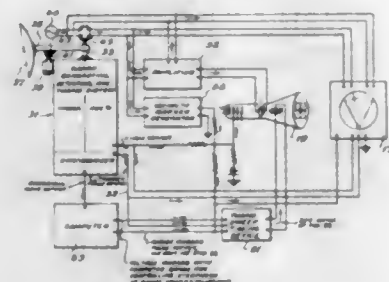
Application June 2, 1948, Serial No. 30,611

18 Claims. (Cl. 343-11)

1. A bombing indicator for use in an aircraft radar bombing system including radar pulse timing, transmit-

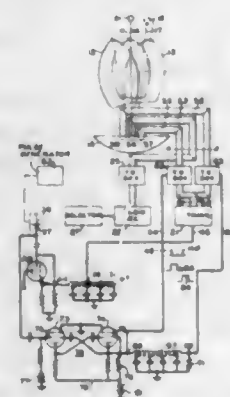


ting, receiving and directive scanning apparatus and a computer providing continuously computed data on relative position of the target, the bombing indicator comprising: a cathode ray oscilloscope including electron beam generating and intensity control means and beam deflection means, means coupled to said radar apparatus and to said computer for supplying to said oscilloscope intensity control means range marker pulses timed after the transmitted radar pulses by a time delay interval decreasing as the target is approached according to the computed variation of target range, means including a timing multivibrator for producing a relatively short-duration range sweep voltage excursion following each



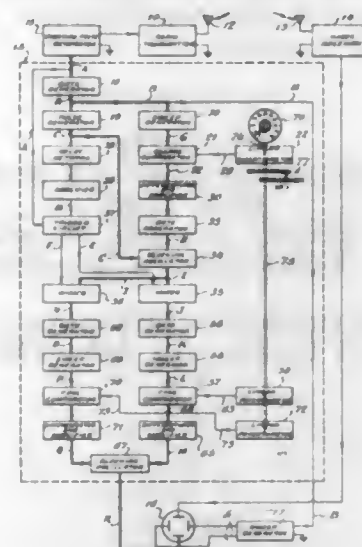
transmitted radar pulse by an interval dependent upon the operating voltage of said multivibrator, means coupled to said computer and to said sweep voltage excursion producing means for varying the sweep voltage excursion duration according to computed variations of target range, means including a phase comparator means coupled to said range marker pulse supplying means for producing an output voltage varying in magnitude and sense with variations of relative phase of the range marker pulses and said range sweep voltage excursions, and means supplying said output voltage to said multivibrator for controlling the length of the intervals between radar pulse transmissions and the range sweep voltage excursions.

**2,716,235**  
**OBJECT DETECTING AND LOCATING SYSTEMS**  
Eric J. Isbister, Garden City, N. Y., assignor to Sperry Rand Corporation, a corporation of Delaware  
Application November 5, 1943, Serial No. 509,061  
32 Claims. (Cl. 343—11)



1. In an object-detecting system, means for emitting radiant energy in two beams at an angle to each other, means for receiving radiant energy in a single beam, a transmitter with two output lines, one for transmitting in one beam and the other for transmitting in the other beam, means for double-pulsing the transmitter with paired pulses each of substantially equal duration and alternately closing one transmitter output line or the other so that each transmitted pulse is radiated over only one of the two available radiation beams, a radio receiver responsive to the receiving means, and a selector responsive to the radio receiver for comparing the first received signal with a delayed signal.

**2,716,236**  
**APPARATUS FOR PRECISION TIME INTERVAL MEASUREMENT**  
Gloria Brooks Reinish, Brooklyn, and Charles E. O'Toole, Flushing, N. Y., assignors to Sperry Rand Corporation, a corporation of Delaware  
Application February 24, 1949, Serial No. 78,082  
26 Claims. (Cl. 343—13)



15. In combination, a generator for producing a series of starting pulses, a transmitter adapted to radiate a pulse of electromagnetic energy in response to each of said starting pulses, a receiver adapted to receive reflected portions of said pulses of electromagnetic energy, an adjustable control device coupled to said generator for producing a gate pulse at an adjustable delayed time after each of said starting pulses, means for producing a train of equally spaced pulses, said pulse train having a predetermined time relation to said starting pulses and the period between the pulses in said pulse train being shorter than said gate pulses but more than half as long, first and second adjustable sources of potential, movable means adapted to successively and repeatedly change the potential produced by each of said adjustable sources of potential from a first to a second level in a gradual manner as said movable means is displaced, first means coupled to said first adjustable source of potential and said control device and responsive to any even pulse of said pulse train which occurs during said gate pulses for producing a reference pulse after a time interval subsequent to said even pulse proportional to the potential produced by said first adjustable source of potential, second means coupled to said second adjustable source of potential and said control device and responsive to any odd pulse of said pulse train which occurs during said gate pulses for producing a reference pulse after a time interval subsequent to said odd pulse proportional to the potential produced by said second adjustable source of potential, means for combining the output of said first and second means, and means for comparing the time at which said reference pulses occur with the time at which reflected portions of said pulses of electromagnetic energy are received by said receiver.

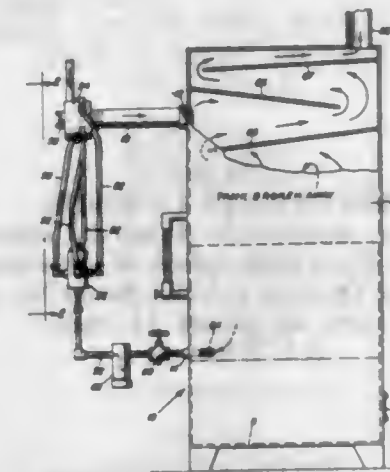
**2,716,237**  
**PRODUCTION OF ENDO-DEXTRANASE BY ASPERGILLUS WENTII**  
Virginia Whiteside-Carlson and Warner W. Carlson, Birmingham, Ala., assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio  
No Drawing. Application January 28, 1953, Serial No. 333,844  
7 Claims. (Cl. 195—31)

1. The method of producing a dextran-acclimated endo-dextranase having the capacity to split the glucosidic linkages of dextran of relatively high molecular weight initially preferentially at the linkages removed from the ends of the chains and without any sub-

stantial cleavage of depending groups which comprises growing *Aspergillus wentii* in a nutrient medium consisting essentially of an aqueous composition of matter having a controlled pH between 7.0 and 7.5 and containing dissolved metallic salts and, per liter of water, from about 2.0 gms. to about 6.0 gms. of a substance selected from the group consisting of amino acids and protein sources of amino acids, and from about 5.0 gms. to about 50.0 gms. of dextran, and isolating the endo-dextranase from the nutrient medium.

**2,716,238**  
**FILTER CLEANING AND DRYING APPARATUS**  
Darrell M. Hall, Sr., White Oak, Ky.  
Application April 3, 1953, Serial No. 346,637  
6 Claims. (Cl. 134—102)

1. An apparatus for cleaning and drying filters, said apparatus comprising a liquid containing tank having a lower outlet opening and upper inlet opening, a filter holding tube secured in said inlet, a housing member secured on said tube and having a partition therein dividing the housing member into a cleaning solution chamber and an air chamber, conduit means communicating



said tank, an air pressure line connected to the air chamber, and valve means carried by the member for controlling the flow of air under pressure entering said filter holding tube.



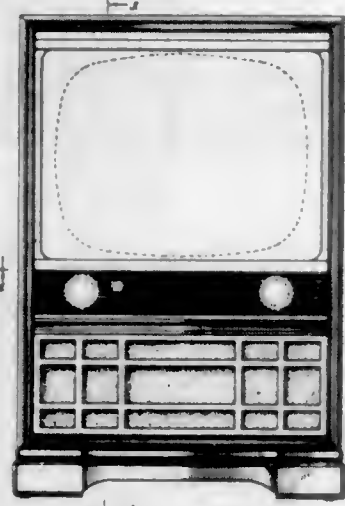
# DESIGNS

AUGUST 23, 1955

175,382

## TELEVISION CABINET

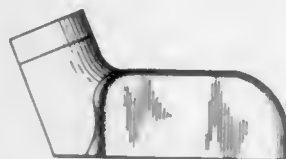
Samuel E. Adler, assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware  
Application October 2, 1953, Serial No. 27,055  
Term of patent 14 years  
(Cl. D56-4)



175,383

## INK BOTTLE

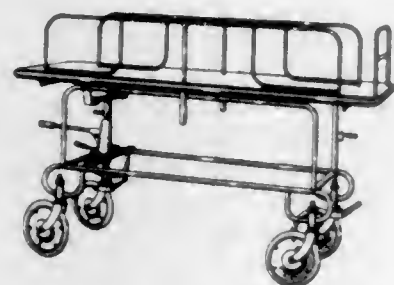
Werner Bamberger, New York, N. Y.  
Application July 30, 1954, Serial No. 31,678  
Term of patent 14 years  
(Cl. D58-6)



175,384

## AMBULATORY STRETCHER

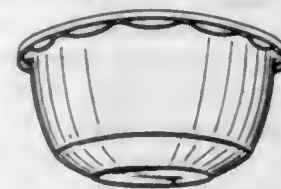
Lester L. Bauer, Toledo, Ohio, assignor to Gendron Wheel Company, Perrysburg, Ohio, a corporation of Ohio  
Application January 12, 1955, Serial No. 33,931  
Term of patent 3½ years  
(Cl. D83-1)



175,385

## CULINARY MIXING BOWL OR SIMILAR ARTICLE

Charles O. Bliss, Los Angeles, Calif.  
Application April 21, 1954, Serial No. 30,110  
Term of patent 14 years  
(Cl. D44-1)



175,386

## ELECTRIC LAMP BASE

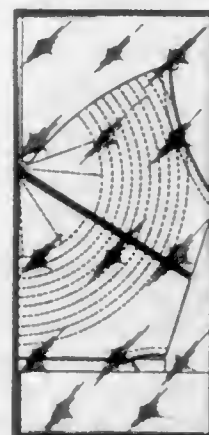
David Borowitz, Chicago, Ill.  
Application January 19, 1955, Serial No. 34,060  
Term of patent 3½ years  
(Cl. D48-20)



175,387

## BRASSIERE DISPLAY PACKAGE

Carl Braun, Riverside, Conn., assignor to Maiden Form Brassiere Co., Inc., New York, N. Y., a corporation of New York  
Application October 30, 1953, Serial No. 27,393  
Term of patent 7 years  
(Cl. D80-5)



AUGUST 23, 1955

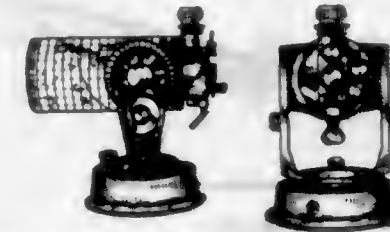
U. S. PATENT OFFICE

545

175,388

## TELESCOPE

Lawrence E. Braymer, New Hope, Pa.  
Application September 20, 1954, Serial No. 32,345  
Term of patent 14 years  
(Cl. D57-5)



175,389

## PORTFOLIO

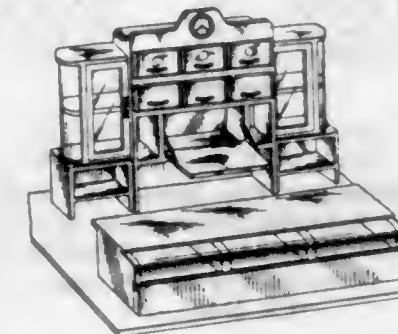
Sam W. Brunner, Flushing, N. Y.  
Application November 4, 1954, Serial No. 32,959  
Term of patent 14 years  
(Cl. D87-3)



175,390

## EDUCATIONAL TOY STORE OR SIMILAR ARTICLE

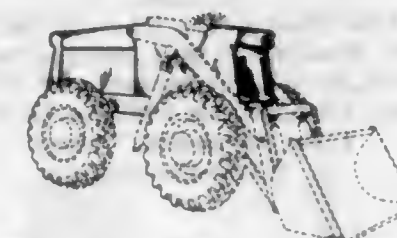
Rita Buechner, Bronx, N. Y.  
Application November 8, 1954, Serial No. 33,003  
Term of patent 3½ years  
(Cl. D25-1)



175,391

## EARTH MOVING VEHICLE

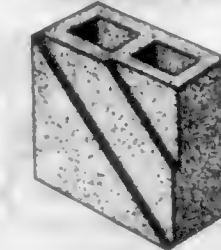
Robert E. Burrus, Buchanan, Frederick Gordon Mackay, Detroit, and William H. Armstrong, Royal Oak, Mich., assignors to Clark Equipment Company, a corporation of Michigan  
Application December 22, 1953, Serial No. 28,166  
Term of patent 14 years  
(Cl. D14-3)



175,392

## BUILDING BLOCK

Hollis L. Clanton, Sun Valley, Calif., assignor to North Hollywood Concrete Tile Co., North Hollywood, Calif., a copartnership  
Application April 25, 1955, Serial No. 35,650  
Term of patent 14 years  
(Cl. D18-2)



175,393

## LIGHTING POLE

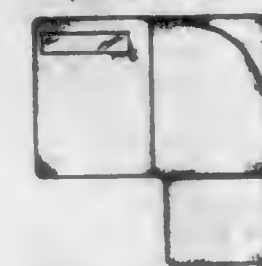
Clyde H. Clement, Phoenix, Ariz.  
Application January 3, 1955, Serial No. 33,823  
Term of patent 14 years  
(Cl. D48-32)



175,394

## WALLET

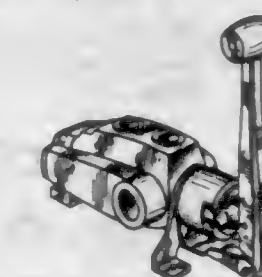
Edward H. Copen, New York, N. Y.  
Application April 26, 1955, Serial No. 35,686  
Term of patent 14 years  
(Cl. D87-3)



175,395

## HYDRAULIC VALVE

Harold W. Darr, Minneapolis, Minn., assignor to Char-Lynn Co., Minneapolis, Minn., a corporation of Minnesota  
Application December 31, 1954, Serial No. 33,774  
Term of patent 14 years  
(Cl. D78-1)



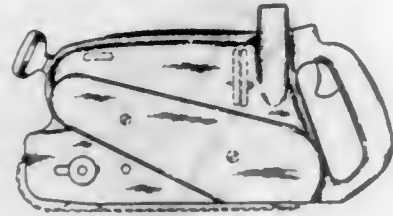


175,396

**PORTABLE HAND SANDING TOOL**

Francis D. Dolan, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio

Application August 5, 1954, Serial No. 31,749  
Term of patent 3½ years  
(Cl. D37—1)

175,397  
**AIRPLANE**

Ivan H. Driggs, Montgomery County, Md., Abraham Hyatt, Washington, D. C., and Frampton E. Ellis, Jr., Montgomery County, Md.

Application July 10, 1952, Serial No. 20,558  
Term of patent 14 years  
(Cl. D71—1)

(Granted under Title 35, U. S. Code (1952), sec. 266)

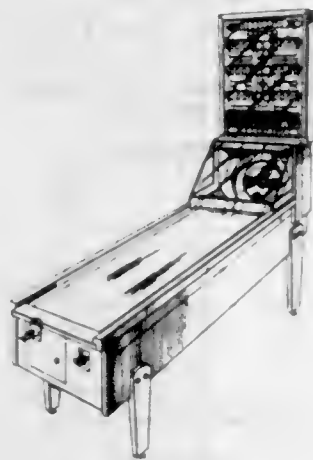


175,398

**AMUSEMENT GAME APPARATUS**

Lyndon A. Durant, Chicago, Ill., assignor to General Patent Corporation, Chicago, Ill., a corporation of Illinois

Application May 12, 1954, Serial No. 30,422  
Term of patent 7 years  
(Cl. D34—5)

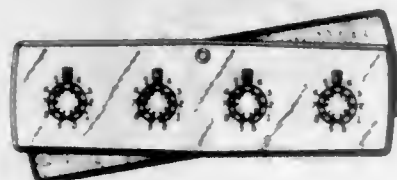


175,399

**COMBINED ADDING MACHINE AND PENCIL BOX**

Jack Fairchild Fleming, Summit, N. J., assignor to Sterling Plastics Company, Union, N. J., a corporation of New Jersey

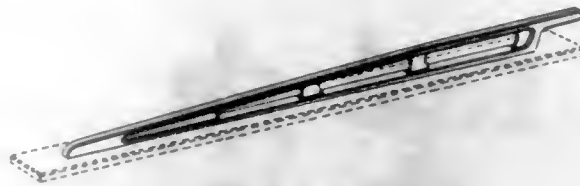
Application February 5, 1954, Serial No. 28,883  
Term of patent 14 years  
(Cl. D74—21)



175,400

**DARBY FLOAT**

Horace G. Fletcher, Dallas, Tex.  
Application March 3, 1955, Serial No. 34,858  
Term of patent 14 years  
(Cl. D51—1)

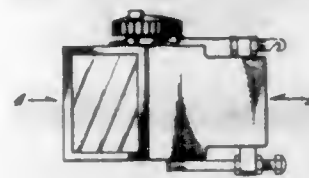


175,401

**HOUSING FOR AN ANAMORPHOSER**

Robert E. Gottschalk and John R. Moore, Los Angeles, Calif., assignors to Panavision, Inc., a corporation of California

Application July 9, 1954, Serial No. 31,354  
Term of patent 14 years  
(Cl. D57—7)

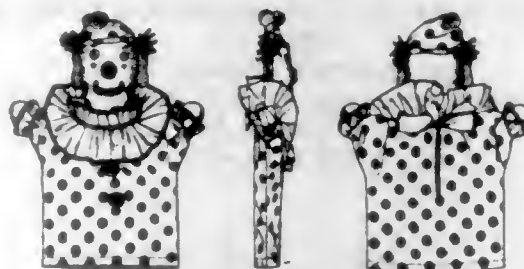


175,402

**PUPPET**

Helen Handley, Irvington-on-Hudson, N. Y., assignor to William J. Fewkes, Rutherford, N. J.

Application November 5, 1954, Serial No. 32,975  
Term of patent 3½ years  
(Cl. D34—4)



175,403

**LAMP**

Richard M. Hanellin, Far Rockway, and Beatrice H. Baldwin, Merrick, N. Y.

Application April 20, 1954, Serial No. 30,097  
Term of patent 14 years  
(Cl. D48—20)



175,404

**LINK CHAIN FOR A NECKLACE OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,464  
Term of patent 7 years  
(Cl. D45—16)



175,405

**LINK CHAIN FOR A BRACELET OR THE LIKE**

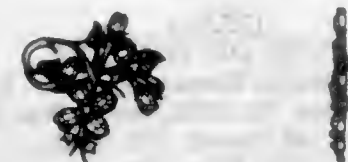
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,472  
Term of patent 7 years  
(Cl. D45—16)



175,406

**BROOCH OR THE LIKE**

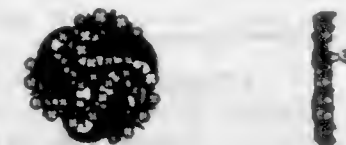
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 10, 1955, Serial No. 34,473  
Term of patent 7 years  
(Cl. D45—19)



175,407

**BROOCH OR THE LIKE**

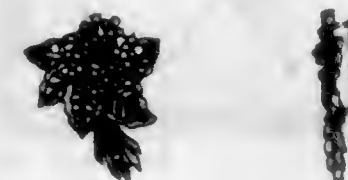
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,696  
Term of patent 7 years  
(Cl. D45—19)



175,408

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,697  
Term of patent 7 years  
(Cl. D45—19)



175,409

**EARRING OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,698  
Term of patent 7 years  
(Cl. D45—9)



175,410

**BROOCH OR THE LIKE**

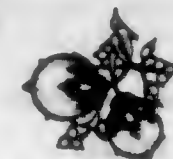
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,701  
Term of patent 7 years  
(Cl. D45—19)



175,411

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,702  
Term of patent 7 years  
(Cl. D45—19)



175,412

**EARRING OR THE LIKE**

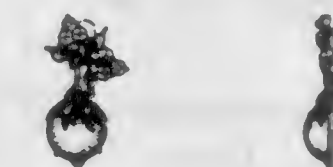
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,703  
Term of patent 7 years  
(Cl. D45—9)



175,413

**EARRING OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,704  
Term of patent 7 years  
(Cl. D45—9)



175,414

**BROOCH OR THE LIKE**

Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,705  
Term of patent 7 years  
(Cl. D45—19)





175,415

## BROOCH OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,706  
Term of patent 7 years  
(Cl. D45-19)



175,416

## EARRING OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application February 25, 1955, Serial No. 34,716  
Term of patent 7 years  
(Cl. D45-9)



175,417

## EARRING OR THE LIKE

Adolph Katz, Providence, R. I., assignor to Coro, Inc.,  
New York, N. Y., a corporation of New York  
Application March 8, 1955, Serial No. 34,934  
Term of patent 7 years  
(Cl. D45-9)



175,418

SET OF TICKTACKTOE GAME PEGS OR  
SIMILAR ARTICLE

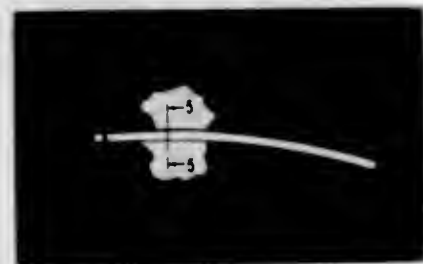
Gordon E. Kaye and Herbert Jacobel,  
Westchester County, N. Y.  
Application October 12, 1953, Serial No. 27,142  
Term of patent 7 years  
(Cl. D34-5)



175,419

## PRACTICE GOLF MAT

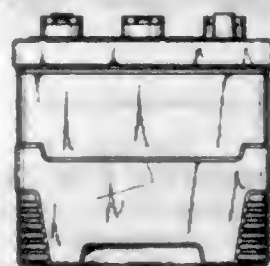
John H. Kent, Arlington, Mass.  
Application December 9, 1954, Serial No. 33,460  
Term of patent 14 years  
(Cl. D34-5)



175,420

## BATTERY

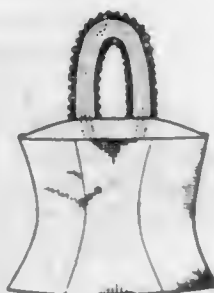
Edward C. Klotz, Jr., Milwaukee, Wis., assignor to Globe-  
Union Inc., Milwaukee, Wis., a corporation of Dela-  
ware  
Application January 19, 1955, Serial No. 34,071  
Term of patent 14 years  
(Cl. D26-6)



175,421

## BLOUSE OR THE LIKE

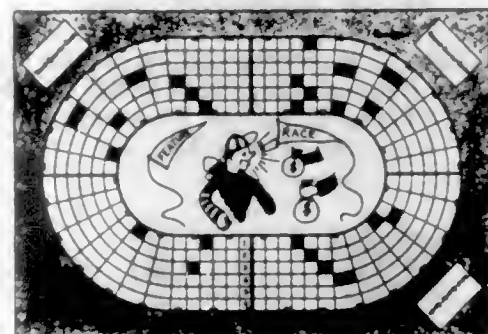
Phyllis Knight, Bound Brook, N. J.  
Application May 21, 1954, Serial No. 30,603  
Term of patent 3 1/2 years  
(Cl. D3-25)



175,422

## GAME BOARD

Berry F. Laws, Jr., Kansas City, Kans.  
Application February 15, 1954, Serial No. 29,027  
Term of patent 3 1/2 years  
(Cl. D34-5)



175,423

## TELEVISION ANTENNA

Ralph N. Leonard, Crystal Lake, and Elmer G. Hills,  
Des Plaines, Ill., assignors to Radion Corporation, Chi-  
cago, Ill., a corporation of Illinois  
Application March 3, 1955, Serial No. 34,847  
Term of patent 14 years  
(Cl. D26-14)



175,424

## SAILBOAT

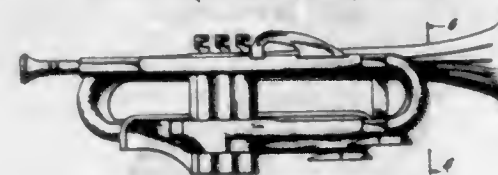
Joseph Lyman, Huntington, N. Y., assignor to Aero-  
Nautical Boat Shop, Inc., Halesite, N. Y., a corpora-  
tion of New York  
Application October 26, 1954, Serial No. 32,825  
Term of patent 14 years  
(Cl. D71-1)



175,425

## TRUMPET

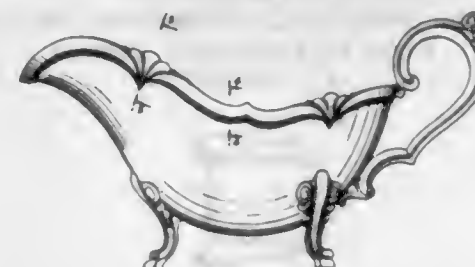
John G. Maher, New York, N. Y.  
Application July 23, 1954, Serial No. 31,554  
Term of patent 14 years  
(Cl. D56-1)



175,426

## GRAVY BOAT OR SIMILAR ARTICLE

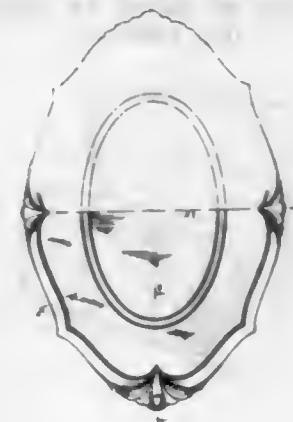
Oscar W. Martha, Wallingford, Conn., assignor to R. Wal-  
lace & Sons Manufacturing Company, Wallingford,  
Conn., a corporation of Connecticut  
Application April 4, 1955, Serial No. 35,341  
Term of patent 14 years  
(Cl. D44-10)



175,427

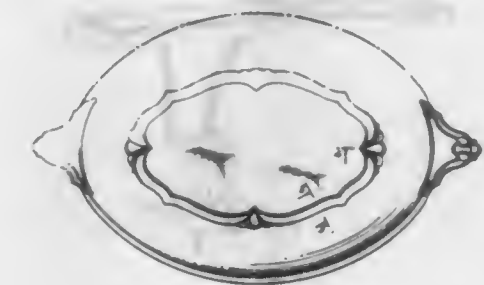
## TRAY OR SIMILAR ARTICLE

Oscar W. Martha, Wallingford, Conn., assignor to R. Wal-  
lace & Sons Manufacturing Company, Wallingford,  
Conn., a corporation of Connecticut  
Application April 4, 1955, Serial No. 35,342  
Term of patent 14 years  
(Cl. D44-10)



175,428

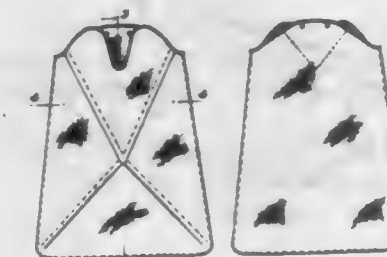
VEGETABLE DISH COVER OR SIMILAR ARTICLE  
Oscar W. Martha, Wallingford, Conn., assignor to R. Wal-  
lace & Sons Manufacturing Company, Wallingford,  
Conn., a corporation of Connecticut  
Application April 15, 1955, Serial No. 35,528  
Term of patent 14 years  
(Cl. D44-15)



175,429

## CHILD'S SLEEPING BAG

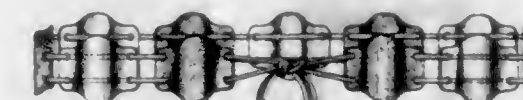
Elizabeth D. Mathews, San Francisco, Calif.  
Application July 26, 1954, Serial No. 31,605  
Term of patent 14 years  
(Cl. D92-2)



175,430

## BELT

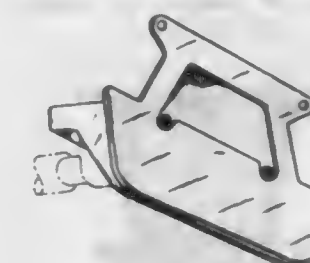
James L. McNickle, Denver, Colo.  
Application March 25, 1955, Serial No. 35,202  
Term of patent 7 years  
(Cl. D3-10)



175,431

## LAMP SOCKET MOUNTING FIXTURE

Carl X. Meyer, St. Louis County, and Leo G. Stahlhut,  
Kirkwood, Mo., assignors to Day-Brite Lighting, In-  
corporated, St. Louis, Mo., a corporation of Missouri  
Application February 4, 1955, Serial No. 34,358  
Term of patent 14 years  
(Cl. D48-23)

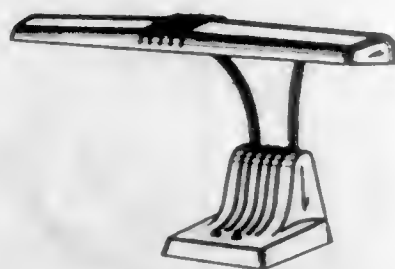




175,432

**DESK LAMP**

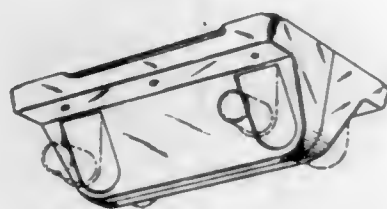
Jacob A. Mehr, Kirkwood, Mo., assignor to Dazor Manufacturing Corp., St. Louis, Mo., a corporation of Delaware  
Application September 16, 1954, Serial No. 32,311  
Term of patent 14 years  
(Cl. D48—20)



175,433

**MOUNTING FIXTURE FOR LAMP SOCKETS**

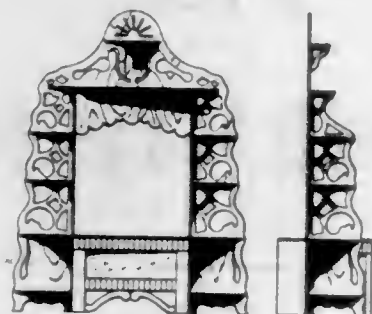
Carl X. Meyer, St. Louis County, and Leo G. Stahlhut, Kirkwood, Mo., assignors to Day-Brite Lighting, Incorporated, St. Louis, Mo., a corporation of Missouri  
Application February 4, 1955, Serial No. 34,359  
Term of patent 14 years  
(Cl. D48—23)



175,434

**COMBINED WHATNOT AND STAND FOR A TELEVISION OR THE LIKE**

Adam G. Miller, Williamsport, Pa.  
Application February 24, 1955, Serial No. 34,649  
Term of patent 14 years  
(Cl. D33—3)



175,435

**FLOWER POT**

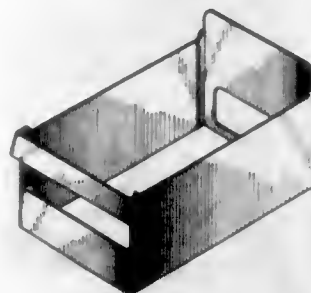
Gladys L. Moffat, San Francisco, Calif.  
Application March 29, 1954, Serial No. 29,739  
Term of patent 14 years  
(Cl. D35—3)



175,436

**DIVIDING UNIT FOR AN OPEN TOP REFRIGERATED DISPLAY CASE**

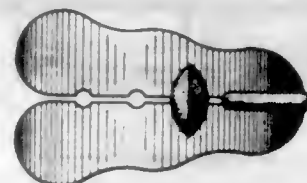
Carson J. Morris, Austin, Minn., assignor to Geo. A. Hormel & Company, Austin, Minn., a corporation of Delaware  
Application December 8, 1953, Serial No. 27,979  
Term of patent 14 years  
(Cl. D80—1)



175,437

**WEDGE TYPE APPAREL CLOSURE CLASP**

Henning af Odencrants, Sharon, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut  
Application October 4, 1954, Serial No. 32,533  
Term of patent 3½ years  
(Cl. D17—9)



175,438

**BUCKLE**

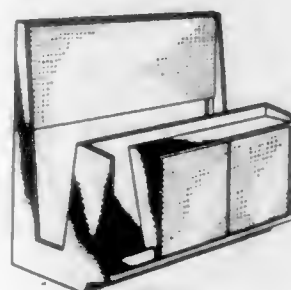
Henning af Odencrants, Sharon, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut  
Application December 24, 1954, Serial No. 33,671  
Term of patent 3½ years  
(Cl. D17—1)



175,439

**DISPLAY STAND**

Joseph Palma, Jr., Berwyn, and James G. Knapp, Lombard, Ill., assignors, by mesne assignments, to American-Marietta Company, Chicago, Ill., a corporation of Illinois  
Application January 19, 1955, Serial No. 34,066  
Term of patent 14 years  
(Cl. D80—9)



175,440

**MICROPHONE CASING**

Maurice M. Palo, Conneaut, Ohio, assignor to The As-tatic Corporation, Conneaut, Ohio, a corporation of Ohio  
Application April 1, 1954, Serial No. 29,809  
Term of patent 7 years  
(Cl. D26—14)



175,441

**COMBINED MAGNETIC RECORDER AND REPRODUCER**

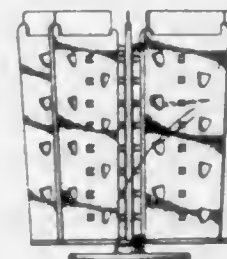
Sheldon Lee Pastor, Chicago, and Eugene R. Russell, Barrington, Ill., assignors to Revere Camera Company, Chicago, Ill., a corporation of Delaware  
Application January 14, 1955, Serial No. 33,990  
Term of patent 14 years  
(Cl. D26—14)



175,442

**PIPE RACK**

Domenico Patriarca, Providence, R. I.  
Application January 3, 1955, Serial No. 33,792  
Term of patent 14 years  
(Cl. D80—9)



175,443

**HOLDER FOR COCKTAIL MIXERS**

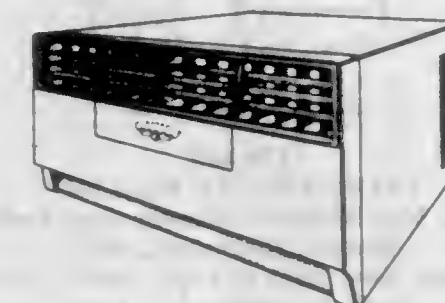
Richard I. Sanger, New York, N. Y.  
Application April 5, 1954, Serial No. 29,870  
Term of patent 7 years  
(Cl. D2—3)



175,444

**AIR CONDITIONING UNIT**

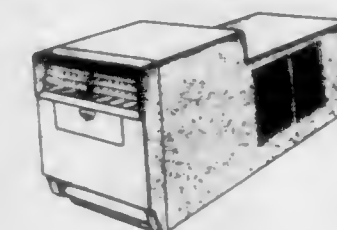
James L. Schucker, Royal Oak, Mich., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware  
Application October 1, 1954, Serial No. 32,507  
Term of patent 7 years  
(Cl. D62—4)



175,445

**AIR CONDITIONING UNIT**

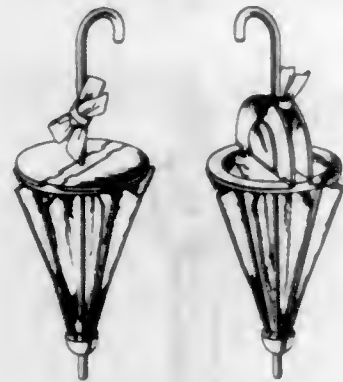
James L. Schucker, Royal Oak, Mich., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware  
Application October 1, 1954, Serial No. 32,508  
Term of patent 7 years  
(Cl. D62—4)





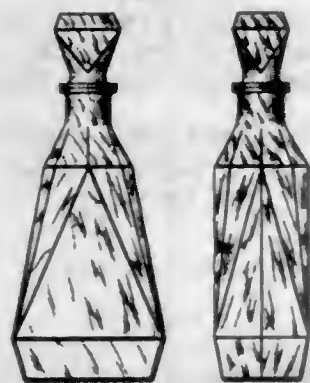
175,446  
HANDBAG

Muriel E. Tenber and Sue B. Miller, Miami, Fla.  
Application January 17, 1955, Serial No. 34,009  
Term of patent 3½ years  
(Cl. D87—3)



175,447  
DECANTER

Paul W. Tucker, Elmira, N. Y., assignor to Thatcher Glass Manufacturing Company, Inc., Elmira, N. Y., a corporation of New York  
Application December 7, 1954, Serial No. 33,433  
Term of patent 14 years  
(Cl. D58—6)



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CITRUS FRUIT PEELER

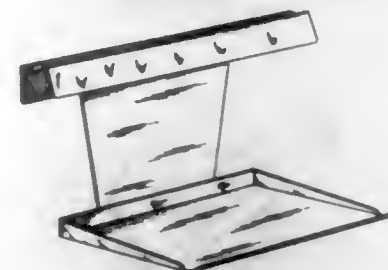
Richard K. Van Buskirk, Munster, and Anthony M. Strumil, Hammond, Ind.  
Application November 5, 1954, Serial No. 32,967  
Term of patent 3½ years  
(Cl. D22—3)



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MEMORANDUM HOLDER

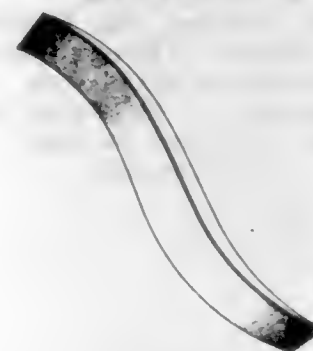
James V. Vevirit, Kenmore, N. Y., assignor to McDonald Products Corporation, Buffalo, N. Y., a corporation of New York  
Application October 26, 1954, Serial No. 32,831  
Term of patent 14 years  
(Cl. D74—9)



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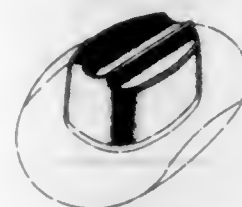
SCRAPER OR LIKE ARTICLE

Alexander C. H. Weiss, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army  
Application November 6, 1953, Serial No. 27,486  
Term of patent 14 years  
(Cl. D9—6)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



175,451  
HAT

Philip E. Young, Arcadia, Calif., assignor to George S. Bailey Hat Company, Los Angeles, Calif., a corporation of California  
Application May 19, 1954, Serial No. 30,555  
Term of patent 14 years  
(Cl. D3—13)



## LIST OF REISSUE PATENTEEES

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PATENTS WERE ISSUED ON THE 23RD DAY OF AUGUST, 1955

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Duncan, Angus W., to The Mining Engineering Co. Ltd. Re. 24,052, Cl. 198—204.  
Mining Engineering Co. Ltd., The: See—  
Duncan, Angus W. Re. 24,052.  
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Brunner, Sam W. 175,389, Cl. D87—3.  
Buechner, Rita. 175,390, Cl. D25—1.  
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Ellis, Frampton E., Jr.: See—  
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Katz, Adolph, to Coro, Inc. 175,408, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,409, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,410, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,411, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,412, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,413, Cl. D45—19.  
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Katz, Adolph, to Coro, Inc. 175,415, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,416, Cl. D45—19.  
Katz, Adolph, to Coro, Inc. 175,417, Cl. D45—19.  
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Meyer, Carl X., and L. G. Stahlhut, to Day-Brite Lighting, Inc. 175,433, Cl. D48—23.  
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 North and Judd Mfg. Co.: *See*—  
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 Palo, Maurice M., to The Astatic Corp. 175,440, Cl. D26—14.  
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 Schucker, James L., to General Motors Corp. 175,445, Cl. D62—4.  
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 Meyer, Carl X., and Stahlhut. 175,433.  
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 Fleming, Jack F. 175,399.  
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 Van Buskirk, Richard K., and Strumil. 175,448.  
 Tenber, Muriel E., and S. B. Miller. 175,446, Cl. D87—3.  
 Thatcher Glass Mfg. Co., Inc.: *See*—  
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 Tucker, Paul W., to Thatcher Glass Mfg. Co., Inc. 175,447, Cl. D58—6.  
 Van Buskirk, Richard K., and A. M. Strumil. 175,448, Cl. D22—3.  
 Vevrit, James V., to McDonald Products Corp. 175,449, Cl. D74—9.  
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 Martha, Oscar W. 175,428.  
 Martha, Oscar W. 175,427.  
 Martha, Oscar W. 175,428.  
 Weiss, Alexander C. H., to the United States of America as represented by the Secretary of the Army. 175,450, Cl. D0—6.  
 Young, Philip E., to George S. Bailey Hat Co. 175,451, Cl. D3—13.

## LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 23RD DAY OF AUGUST, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

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 Abington Textile Machinery Works: *See*—  
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187: 2,715,731	261: 2,715,806	120: 2,716,070	178-5.2: 2,716,151	233-15: 2,715,994	2,716,126
2-30: 2,715,732	52-13: 2,716,056	182: 2,716,071	6: 2,716,152	235-61: 2,715,995	461: 2,716,130
42: 2,715,733	53-26: 2,715,807	186: 2,716,072	7.1: 2,716,153	2,715,996	465.4: 2,716,131
42: 2,715,734	56-26: 2,715,808	243: 2,716,073	7.4: 2,716,154	2,715,997	509: 2,716,132
4-10: 2,715,735	28: 2,715,809	1: 2,715,879	17: 2,716,155	117: 2,715,998	537: 2,716,133
177: 2,715,736	249: 2,715,810	12: 2,715,879	26: 2,716,156	137: 2,715,999	570.5: 2,716,134
5-82: 2,715,737	57-58.84: 2,715,811	18: 2,715,880	42: 2,716,157	236-80: 2,716,000	580: 2,716,135
12-10.7: 2,715,738	58-7: 2,715,812	110-18: 2,715,881	50: 2,716,158	237-12.3: 2,716,001	584: 2,716,136
24.5: 2,715,739	60-35.6: 2,715,813	111-3: 2,715,882	171: 2,716,161	240-10.66: 2,716,182	615: 2,716,137
108: 2,715,740	39.16: 2,715,814	112-248: 2,715,883	90: 2,716,160	41.35: 2,716,183	621: 2,716,138
13-16: 2,716,145	39.28: 2,715,815	113-29: 2,715,884	171: 2,716,161	52.5: 2,716,184	623: 2,716,139
15-74: 2,715,741	39.65: 2,715,816	116-115: 2,715,885	27: 2,716,162	78: 2,716,185	648: 2,716,140
105: 2,715,742	116: 2,715,817	120: 2,715,886	183-7: 2,715,944	241-43: 2,716,002	653: 2,716,141
119: 2,715,743	119.5: 2,715,818	117-65: 2,716,074	32: 2,715,945	100: 2,716,003	674: 2,716,142
2,715,744	2,715,819	72: 2,716,075	37: 2,715,946	242-37: 2,716,004	674: 2,716,143
121: 2,715,745	175.5: 2,715,820	112: 2,716,076	115: 2,715,947	55: 2,716,005	674: 2,716,144
302: Re.24,054	63-14: 2,715,821	118: 2,716,077	120: 2,715,948	62: 2,716,006	674: 2,716,144
85: 2,715,746	64-11: 2,715,822	119-52: 2,715,887	184-91: 2,715,949	78: 2,716,007	674: 2,716,144
198: 2,715,747	66: 2,715,823	120-42.03: 2,715,888	186-1: 2,715,950	159: 2,716,008	674: 2,716,144
17-11.3: 2,715,748	66: 2,715,824	121-34: 2,715,889	188-1: 2,715,951	244-81: 2,716,009	674: 2,716,144
45: 2,715,749	67-98: 2,715,825	42: 2,715,890	129: 2,715,952	150: 2,716,010	674: 2,716,144
18-3.5: 2,715,750	68-23: 2,715,826	2,715,891	189-1: 2,715,953	246-63: 2,716,186	674: 2,716,144
5: 2,715,751	263: 2,715,827	2,715,892	14: 2,715,954	248-24: 2,716,011	674: 2,716,144
5.3: 2,715,752	25: 2,715,828	122-1: 2,715,893	192-43.1: 2,715,955	125: 2,716,012	674: 2,716,144
8: 2,715,753	44: 2,715,829	123-25: 2,715,894	195-31: 2,716,237	250-27: 2,716,187	674: 2,716,144
54: 2,716,049	1: 2,715,830	124-20: 2,715,895	66: 2,716,064	27: 2,716,188	674: 2,716,144
130: 2,715,754	32: 2,715,831	125-11: 2,715,896	149: 2,716,065	278-8: 2,716,034	674: 2,716,144
156: 2,715,755	35: 2,715,832	126-29: 2,715,897	196-33: 2,715,956	288-13: 2,716,035	674: 2,716,144
1: 2,715,756	78: 2,715,833	273: 2,715,898	32: 2,715,957	33.63: 2,716,191	674: 2,716,144
1.6: 2,715,757	136: 2,715,834	2: 2,715,899	131: 2,715,958	33.65: 2,716,191	674: 2,716,144
22-42: 2,715,758	328: 2,715,835	33: 2,715,900	204: Re.24,052	36: Re.24,053	674: 2,716,144
23-1: 2,716,050	335: 2,715,836	2,715,901	300-6: 2,716,163	62: 2,716,036	674: 2,716,144
7: 2,716,051	74-7: 2,715,837	132: 2,715,902	27: 2,716,164	251-4: 2,716,193	674: 2,716,144
117: 2,716,052	22: 2,715,838	157: 2,715,903	61.05: 2,716,165	64: 2,716,014	674: 2,716,144
209.5: 2,716,053	90: 2,715,839	198: 2,715,904	61.25: 2,716,167	66: 2,716,015	674: 2,716,144
288: 2,716,054	128: 2,715,840	214: 2,715,905	61.45: 2,716,168	163: 2,716,016	674: 2,716,144
201: 2,715,759	191: 2,715,841	129-24: 2,715,906	61.47: 2,716,169	331: 2,716,017	674: 2,716,144
23-131: 2,715,760	230.17: 2,715,842	132-41: 2,715,907	61.5: 2,716,166	18: 2,716,018	674: 2,716,144
26-54: 2,715,761	417: 2,715,843	134-102: 2,716,238	61.63: 2,716,170	33: 2,716,019	674: 2,716,144
28-76: 2,715,762	5: 2,715,844	136-36: 2,716,146	97: 2,716,171	33.6: 2,716,089	674: 2,716,144
82: 2,715,763	77-5: 2,715,845	137: 2,716,147	137: 2,716,172	42.7: 2,716,090	674: 2,716,144
29-155.55: 2,715,764	78-36: 2,715,845	177: 2,716,147	138: 2,716,173	418: 2,716,091	674: 2,716,144
424: 2,715,765	80-60: 2,715,846	248: 2,715,909	248: 2,716,173	255-24: 2,716,018	674: 2,716,144
441: 2,715,766	81-53: 2,715,847	527.8: 2,715,911	599: 2,715,912	50: 2,716,019	674: 2,716,144
41: 2,715,767	82-12: 2,715,848	622: 2,715,913	622: 2,715,913	73: 2,716,020	674: 2,716,144
60.5: 2,715,768	24: 2,715,849	622: 2,715,914	138-56: 2,715,914	257-1: 2,716,021	674: 2,716,144
124: 2,715,769	84-236: 2,715,850	599: 2,715,912	139-13: 2,715,915	259-3: 2,716,022	674: 2,716,144
330: 2,715,770	88-14: 2,715,851	622: 2,715,913	139-13: 2,715,915	6: 2,716,023	674: 2,716,144
3: 2,715,771	20: 2,715,852	622: 2,715,914	139-13: 2,715,915	23: 2,716,022	674: 2,716,144
48: 2,715,772	29: 2,715,853	622: 2,715,915	139-13: 2,715,915	29.6: 2,716,093	674: 2,716,144
60: 2,715,773	57: 2,715,854	622: 2,715,916	139-13: 2,715,915	41: 2,716,094	674: 2,716,144
1: 2,715,774	1: 2,715,855	622: 2,715,917	139-13: 2,715,915	45.95: 2,716,095	674: 2,716,144
9: 2,715,775	43: 2,715,856	622: 2,715,918	139-13: 2,715,915	47: 2,716,097	674: 2,716,144
49: 2,715,776	181: 2,715,857	622: 2,715,919	116.6: 2,715,919	49: 2,716,098	674: 2,716,144
85: 2,715,777	193: 2,715,858	622: 2,715,920	336: 2,715,920	59: 2,716,099	674: 2,716,144
97: 2,715,778	13.1: 2,715,859	622: 2,715,921	408: 2,715,921	61: 2,716,100	674: 2,716,144
178: 2,715,779	13: 2,715,860	622: 2,715,922	448: 2,715,922	27: 2,716,101	674: 2,716,144
188: 2,715,780	28: 2,715,861	622: 2,715,923	205: 2,715,924	64: 2,716,102	674: 2,716,144
34-174: 2,715,781	93-1: 2,715,861	622: 2,715,924	305: 2,715,925	78.5: 2,716,103	674: 2,716,144
35-10.2: 2,715,782	95-4.5: 2,715,862	622: 2,715,925	145-66: 2,715,926	133: 2,716,104	674: 2,716,144
11: 2,715,783	6: 2,716,069	622: 2,715,926	146-217: 2,715,927	133: 2,716,105	674: 2,716,144
22: 2,715,784	7: 2,716,070	622: 2,715,927	148-10: 2,716,079	216-28: 2,715,975	674: 2,716,144
36-7.8: 2,715,785	2,716,061	622: 2,715,928	12: 2,716,080	219-4: 2,716,177	674: 2,716,144
37-53: 2,715,786	2,716,062	622: 2,715,929	37: 2,715,929	17: 2,716,178	674: 2,716,144
188: 2,715,787	46.07: 2,715,863	622: 2,715,930	151-37: 2,715,930	19: 2,716,179	674: 2,716,144
83: 2,715,788	46.35: 2,715,864	622: 2,715,931	152-6: 2,715,931	216-28: 2,715,975	674: 2,716,144
42-50: 2,715,789	56: 2,715,865	622: 2,715,932	154-9: 2,715,932	219-4: 2,716,177	674: 2,716,144
42-42.09: 2,715,790	40: 2,715,866	622: 2,715,933	42: 2,715,934	20.5: 2,715,976	674: 2,716,144
42.48: 2,715,791	2: 2,716,063	622: 2,715,934	42: 2,715,934	221-160: 2,715,977	674: 2,716,144
147: 2,715,792	11: 2,716,064	622: 2,715,935	42: 2,715,935	222-183: 2,715,979	674: 2,716,144
45: 2,715,793	11: 2,716,064	622: 2,715,936	42: 2,715,936	209: 2,715,981	674: 2,716,144
47-19: 2,716,794	192: 2,716,065	622: 2,715,937	42: 2,715,937	541: 2,715,982	674: 2,716,144
58: 2,715,795	234: 2,716,066	622: 2,715,938	42: 2,715,938	223-42: 2,715,983	674: 2,716,144
61: P.P.1, 412	302: 2,715,868	622: 2,715,939	42: 2,715,939	73: 2,715,985	674: 2,716,144
62: P.P.1, 411	404: 2,715,869	622: 2,715,940	42: 2,715,940	2,715,986	674: 2,716,144
48-206: 2,716,055	421: 2,715,870	622: 2,715,941	42: 2,715,941	74: 2,715,987	674: 2,716,144
51-38: 2,715,796	131: 2,715,871	622: 2,715,942	42: 2,715,942	92: 2,715,988	674: 2,716,144
33: 2,715,797	13: 2,715,872	622: 2,715,943	42: 2,715,943	1: 2,715,989	674: 2,716,144
73: 2,715,798	71: 2,715,873	622: 2,715,944	42: 2,715,944	28: 2,715,990	674: 2,716,144
96: 2,716,799	93: 2,715,874	622: 2,715,945	42: 2,715,945	96: 2,715,991	674: 2,716,144
118: 2,715,800	173: 2,715,875	622: 2,715,946	42: 2,715,946	31: 2,715,992	674: 2,716,144
122: 2,715,801	62: 2,715,876	622: 2,715,947	42: 2,715,947	220-31: 2,715,992	674: 2,716,144
124: 2,715,802	197: 2,715,877	622: 2,715,948	42: 2,715,948	221-180: 2,715,978	674: 2,716,144
2,715,803	13: 2,716,067	622: 2,715,949	42: 2,715,949	101: 2,715,979	674: 2,716,144
170: 2,715,804	106-13: 2,716,068	622: 2,715,950	42: 2,715,950	183: 2,715,980	674: 2,716,144
		622: 2,715,951	42: 2,715,951	209: 2,715,981	674: 2,716,144
		622: 2,715,952	42: 2,715,952	541: 2,715,982	674: 2,716,144
		622: 2,715,953	42: 2,715,953	42: 2,715,983	674: 2,716,144
		622: 2,715,954	42: 2,715,954	49: 2,715,984	674: 2,716,144
		622: 2,715,955	42: 2,715,955	73: 2,715,985	674: 2,716,144
		622: 2,715,956	42: 2,715,956	2,715,986	674: 2,716,144
		622: 2,715,957	42: 2,715,957	74: 2,715,987	674: 2,716,144
		622: 2,715,958	42: 2,715,958	92: 2,715,988	674: 2,716,144
		622: 2,715,959	42: 2,715,959	1: 2,715,989	674: 2,716,144
		622: 2,715,960	42: 2,715,960	28: 2,715,990	674: 2,716,144
		622: 2,715,961	42: 2,715,961	96: 2,715,991	674: 2,716,144
		622: 2,715,962	42: 2,715,962	31: 2,715,992	674: 2,716,144
		622: 2,715,963	42: 2,715,963	220-31: 2,715,992	674: 2,716,144
		622: 2,715,964	42: 2,715,964	221-180: 2,715,978	674: 2,716,144
		622: 2,715,965	42: 2,715,965	101: 2,715,979	674: 2,716,144
		622: 2,715,966	42: 2,715,966	183: 2,715,980	674: 2,716,144
		622: 2,715,967	42: 2,715,967	209: 2,715,981	674: 2,716,144
		622: 2,715,968	42: 2,715,968	541: 2,715,982	674: 2,716,144
		622: 2,715,969	42: 2,715,969	42: 2,715,983	674: 2,716,144
		622: 2,715,970	42: 2,715,970	49: 2,715,984	674: 2,716,144
		622: 2,715,971	42: 2,715,971	73: 2,715,985	674: 2,716,144
		622: 2,715,972	42: 2,715,972	2,715,986	674: 2,716,144
		622: 2,715,973	42: 2,715,973	74: 2,715,987	674: 2,716,144
		622: 2,715,974	42: 2,715,974	92: 2,715,988	674: 2,716,1



TRADEMARKS  
NOTICES

International Convention for the Protection of  
Industrial Property

Adherence of Mexico to the London 1934 Revision

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective July 14, 1955, of Mexico to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ROBERT C. WATSON,  
Commissioner of Patents.

July 28, 1955.

Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946  
TM 47,094 (Winchester), Olin Industries, Inc., Shot-shells and cartridges; TM 53,994, same, Shotguns and rifles, filed May 18, 1955, D. C., S. D. N. Y., Doc. 100/359, *Olin Mathieson Chemical Corp. v. Ideal Toy Corp.* Stipulation and order of dismissal June 21, 1955.

TM 53,994. (See TM 47,094.)

TM 338,539 (Plexiglas), Rohm & Haas Co., Sheets of solid transparent, resinous material to be used as a glass substitute; TM 367,998, same, Synthetic resinous materials in the form of sheets, rods or tubes, filed May 8, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14114-T, *Rohm & Haas Co. v. Plexolite Corp. of Calif. et al.* Trademark registrations held valid and infringed; defendants restrained from use of words "Plexolite" and "Plexiglas" (notice June 21, 1955).

TM 346,748 (Ski), Antoine de Paris, Inc., Skin cream, lipstick, and lipstick refills, filed June 21, 1955, D. C., S. D. N. Y., Doc. 101/272, *Antoine de Paris, Inc. v. Rolley, Inc. et al.*

TM 355,174 (Vita-Kaps), Abbott Laboratories, Capsules containing fish liver oil fortified with natural vitamin D, etc., filed June 1, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15586, *Abbott Laboratories v. Samuel Fox et al.* Consent Judgment June 22, 1955.

TM 367,998. (See TM 338,539.)

TM 431,095 (Mike-ing History), Moo-Vie Auction Sales, Inc., Physically grooved transcription records, filed June 22, 1955, D. C., W. D. Pa. (Pittsburgh), Doc. 13538, *Packaged Programs, Inc. v. Columbia Broadcasting System, Inc.*

TM 508,653 (Pabalate), A. H. Robins Co., Inc., Antirheumatic preparation in tablet form, filed Dec. 20, 1954, D. C., S. D. Calif. (Los Angeles), Doc. 17632-Y, *A. H. Robins Co., Inc. v. Fern Laboratories.* Trademark registration held infringed; defendant restrained from use of word "Pabalate" (notice June 21, 1955).

Service by Publication

A petition to cancel each of the registrations identified below having been filed, and the notice of such proceedings sent by registered mail to each registrant at the last known address having been returned by the post office as undeliverable, notice is hereby given that unless the registrants listed herein, their assigns or legal representatives, shall enter an appearance within thirty days from the date of this publication, the cancellation will be proceeded with as in the case of default.

Claude H. Daniels, Stamford, Conn., Reg. No. 416,229, Canc. 6487.

Tex Toy Manufacturing Co., Houston, Tex., Reg. No. 406,980, Canc. 6498.

Guardswell Paint Mfg. Co., Des Moines, Iowa, Reg. No. 389,758, Canc. 6516.

Ivor Rich, New York, N. Y., Reg. No. 406,886, Canc. 6513.

Oregon Washington Pear Bureau, Seattle, Wash., Reg. No. 344,773, Canc. 6529.

Montreal Orange Bottling Company, Limited, Montreal, Quebec, Canada, Reg. No. 359,609, Canc. 6533.

Harvey Rosen, Brooklyn, N. Y., Reg. No. 365,427, Canc. 6534.

DAPHNE LEEDS,  
Assistant Commissioner of Patents.

CONDITION OF TRADEMARK APPLICATIONS AS OF JULY 29, 1955

Total number of applications awaiting action (excluding renewals and republications)..... 10,963  
Date of oldest new application..... Feb. 1, 1955  
Date of oldest amended application..... Feb. 4, 1955

TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION	Oldest Application	
	New	Amended
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....	2-1-55	3-7-55
II. SHRYOCK, R. F. (Acting), Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....	2-1-55	2-4-55
III. WENDT, C. M. (Acting), Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.....	2-1-55	3-17-55
Renewals (All Classes).....	6-15-55	6-27-55
Republications (All Classes).....	5-28-55	6-20-55

Applications Filed During Week Ended July 29, 1955—379

Registrations Issued..... 380—No. 610,863 to No. 611,242  
Renewals Issued..... 50



## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.6.  
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

SN 664,426. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Apr. 13, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 583,193.  
For Elemental Silicon for Use as a Raw Material for Transistors.  
Use since Sept. 16, 1953.

SN 671,483. Lawrence Bloemendaal, d. b. a. Bloemendaal Hatcheries, Alton, Iowa. Filed Aug. 11, 1954.



Applicant disclaims the word "Leghorns" apart from the mark as shown.  
For Strain of Baby Chicks.  
Use since Jan. 4, 1954.

SN 671,647. Victor J. Judson, d. b. a. Judson Nurseries, Bristol, Ind. Filed Aug. 13, 1954.

## Redi-Plant

For Plants for Fruit, Vegetable, and Flower Gardening.  
Use since Oct. 5, 1953.

SN 671,860. Pre-Vest, Inc., Cleveland, Ohio. Filed Aug. 17, 1954.

## VESTONE

For Dental Stone.  
Use since on or about May 25, 1954.

SN 672,843. Societe de la Viscose Suisse, Emmenbrucke, Lucerne, Switzerland. Filed Sept. 7, 1954.

## Armon

Applicant claims ownership of Swiss Reg. No. 134,114, dated June 16, 1950.  
For Staple Fibers and Tows.

TM 136

SN 677,018. Western Ventures, Inc., Spokane, Wash. Filed Nov. 19, 1954.

## DIACRON

For Finely Divided Diatomaceous Earth.  
Use since Nov. 12, 1954.

SN 679,183. Seton Leather Company, Newark, N. J. Filed Dec. 30, 1954.

## VERONA

For Leather.  
Use since Dec. 23, 1949.

SN 679,309. Modglin Company, Inc., Los Angeles, Calif. Filed Jan. 3, 1955.

## MODGLENE

For Plastic Molding Compounds for Injection or Compression Molding.  
Use since Oct. 18, 1954.

SN 679,893. Continental Ore Corporation, New York, N. Y. Filed Jan. 14, 1955.

## CONTIFLUX

For Mineral—Namely, Fluorspar.  
Use since on or about July 15, 1954.

SN 680,150. International Minerals and Chemical Corporation, Chicago, Ill. Filed Jan. 19, 1955. Sec. 2(f).

## BLACK HILLS

Applicant claims ownership of Reg. No. 398,560.  
For Bentonite.  
Use since June 20, 1941.

SN 680,197. Kimber Farms, Inc., Niles, Calif. Filed Jan. 20, 1955.

## KIMBERCHIKS

For Live Baby Chicks.  
Use since on or about December 1938.

AUGUST 23, 1955

U. S. PATENT OFFICE

TM 137

SN 680,218. Olga Coal Company, Youngstown, Ohio. Filed Jan. 20, 1955. SN 674,635. Sutherland Paper Company, Kalamazoo, Mich. Filed Oct. 11, 1954.

## THELMA

For Coal.  
Use since July 28, 1933.

SN 680,219. Olga Coal Company, Youngstown, Ohio. Filed Jan. 20, 1955. SN 680,752. General Box Company, Des Plaines, Ill. Filed Jan. 31, 1955.

## DURA-SHEEN

For Collapsible Cartons Made of Fibre Boxboard, or Container Board.  
Use since on or about May 15, 1949.

## CARETTA

For Coal.  
Use since July 28, 1933.

SN 680,296. Ortner Poultry Farms, Clinton, Mo. Filed Jan. 21, 1955.

## Generalift

Applicant claims ownership of Reg. No. 505,914.  
For Pallet Boxes.  
Use since Sept. 28, 1945.

SN 682,310. Waterloo Corrugated Box Co., Waterloo, Iowa. Filed Feb. 24, 1955.



For Baby Chicks and Pullets.  
Use since Dec. 16, 1954.

### CLASS 2

SN 619,256. Per-Cup Coffee Corp., Boston, Mass., to Modern Coffees, Inc., Boston, Mass. Filed Sept. 26, 1951.

## STEEPOLATOR

For Water Infusible Bags Adapted To Contain Coffee for Steeping.  
Use since 1940.

SN 627,654. James P. Thon, Owatonna, Minn. Filed Apr. 5, 1952.

## THON'S Faced Two TOTERS

The applicant hereby disclaims the word "Thon's" apart from the mark as shown.  
For Compartmented Boxes.  
Use since Jan. 25, 1952.

SN 664,642. American Dairies, Incorporated, Kansas City, Mo. Filed Apr. 16, 1954.

## Taste-a SODA

For Drinking Cups Made of Waxed Paper.  
Use since Apr. 1, 1954.



For Corrugated Paper Boxes.  
Use since April 1954.

SN 683,456. Unette Corporation, Burbank, Calif. Filed Mar. 14, 1955.

## UNETTE

For Individual Disposable Plastic Tubes To Hold Liquids and Semi-Solids.  
Use since Feb. 3, 1955.

### CLASS 4

SN 668,890. Candy & Company, Inc., Chicago, Ill. Filed June 25, 1954.

## Bright Beauty

For Paste Wax; Liquid Prepared Wax; Self-Polishing Wax; and Furniture Polish, Glass Cleaner and Polish; Silver Polish.  
Use since Mar. 29, 1929.  
Subj. to Intf. with Reg. No. 585,430.



SN 678,082. Artmark Associates, Inc., New York, N. Y. Filed Dec. 10, 1954. SN 665,644. Royal Typewriter Company, Inc., New York, N. Y., now by merger Royal McBee Corporation. Filed May 3, 1954.



The drawing is lined for red, but no claim is made as to color.

For Furniture Polish, Metal Polish, Floor Wax, and Automobile Wax.

Use since Nov. 1, 1953.

## CLASS 5

SN 679,134. Arvey Corporation, Chicago, Ill. Filed Dec. 30, 1954.

## SHADOW SEAL

For Seal Flap Adhesive.

Use since Nov. 12, 1954.

## CLASS 6

SN 656,963. John A. Meyer, d. b. a. Mid-West Products Company, Kansas City, Kans. Filed Nov. 25, 1953.

## UNI-SAN

For Preparation Used To Disinfect and Deodorize Floors, Toilets, Sinks, and Locker Rooms.

Use since Oct. 21, 1953.

SN 661,975. Balcom Industries, Inc., Greeley, Colo. Filed Mar. 4, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 502,593. For Agricultural Chemicals, Insecticides, and Fungicides. Use since Dec. 1, 1944.

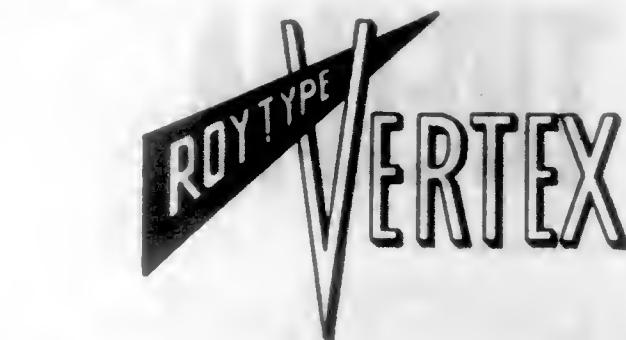
SN 665,545. American Potash & Chemical Corporation, Los Angeles, Calif. Filed May 3, 1954.

## ESTONMITE

Applicant claims ownership of Reg. Nos. 528,963, 562,006, and others.

For Miticides.

Use since Feb. 28, 1954.



Applicant claims ownership of Reg. Nos. 214,474, 392,541, and others.

For Correction Fluid.

Use since March 1953.

SN 669,544. Guardian Chemical Corporation, Long Island City, N. Y. Filed July 7, 1954.

## DYNACTOL

For Oxidizing Agents, Bleaches, and Disinfectants.

Use since Feb. 18, 1953.

SN 669,546. Guardian Chemical Corporation, Long Island City, N. Y. Filed July 7, 1954.

## SHIELD

For Chlorinating Agent.

Use since May 28, 1952.

SN 670,417. Detrex Corporation, Detroit, Mich. Filed July 22, 1954.



The drawing is lined for red and gold. The words "Quality Feature" are disclaimed apart from the mark as shown. Applicant claims ownership of Reg. No. 512,841.

For Phosphate Compounds Which When Applied to Metal Surfaces React Chemically Therewith To Form a Rust Inhibitor and a Paint Bonding Surface.

Use since June 15, 1954.

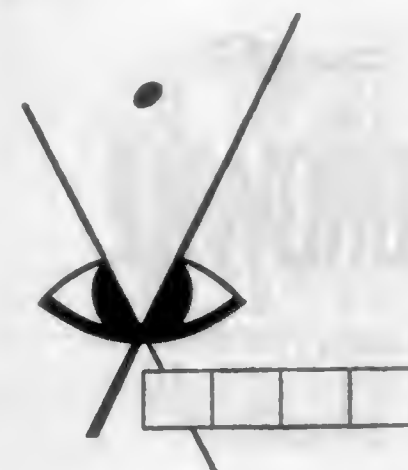
SN 670,813. Werner G. Smith, Inc., Cleveland, Ohio. Filed July 29, 1954.

## MOBY DICK

For Whale Oil Products—Namely, Oils, Waxes, and Fatty Alcohols.

Use since Sept. 29, 1953.

SN 675,618. Auto-Photo Company, Los Angeles, Calif. Filed Oct. 28, 1954. SN 677,336. Metropolitan Refining Company, Inc., Long Island City, N. Y. Filed Nov. 26, 1954.



For Photographic Chemicals—Namely, Fixing and Developing Agents.

Use since Feb. 22, 1954.

SN 676,466. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Nov. 12, 1954.

## SELECT-O-SPRAY

For Insecticides, Moth Proofing Compositions, Plastic Spraying Compositions, Deodorants.

Use since October 1948.

SN 676,959. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for the colors orange and blue. Applicant claims ownership of Reg. No. 344,601.

For Aerosol Deodorizer.

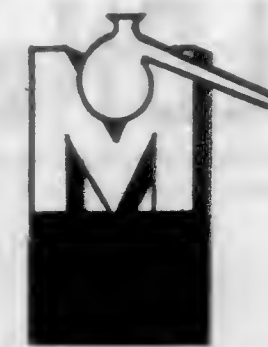
Use since on or about Dec. 29, 1952.

SN 677,169. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Nov. 23, 1954.

## AS-15

For Antibiotic Preparation for Agricultural Use for Controlling Plant Diseases.

Use since Oct. 25, 1954.



For Chemical Compounds for the Prevention of Corrosion and Scale in Boilers, Pipes, and Engine Cooling Equipment, for Inhibiting Rust in Water Supply, for Removing Soot, for Preventing Fungus in Condensers, and Cooling Towers of Air Conditioners, and in Brine Utilizing Equipment.

Use since October 1954.

## CLASS 7

SN 679,220. Howard Ditzend, d. b. a. Atlas Cordage Company, Chicago, Ill. Filed Dec. 31, 1954.



For Baler Twine and Binder Twine.

Use since November 1951.

SN 680,360. Burlington Mills Corporation, Greensboro, N. C. Filed Jan. 24, 1955.

## TYMATIC

For Ribbons for Use in Tying and Ornamenting Packages, Boxes, Etc.

Use since May 21, 1954.

## CLASS 9

SN 663,508. Remington Arms Company, Inc., Bridgeport, Conn. Filed Mar. 29, 1954. Sec. 2(f).

## KRUMBLE BALL

Applicant claims ownership of Reg. No. 313,547.

For Ammunition.

Use since on or about Apr. 14, 1933.

## CLASS 10

SN 679,779. Hydroponic Chemical Company, Inc., Copley, Ohio. Filed Jan. 12, 1955.

## CARONEX

For Plant Growth Aid.

Use since Dec. 20, 1954.



SN 679,780. Hydroponic Chemical Company, Inc., Copley, Ohio. Filed Jan. 12, 1955. SN 686,590. Universal Corporation, Dallas, Tex. Filed Apr. 29, 1955. Sec. 2(f).

# PELONEX

For Pelletized Volcanic Rock Plant Propagator.  
Use since Dec. 23, 1954.

SN 679,983. Crown Zellerbach Corporation, San Francisco, Calif. Filed Jan. 17, 1955.



Applicant claims ownership of Reg. Nos. 247,311, 599,339, and others.

For Agricultural Mulch Paper Used as an Aid in the Growth of Plants.

Use since in or about December 1953.

SN 680,308. Solitone Fertilizer Co., Inc., Omaha, Nebr. Filed Jan. 21, 1955.

# Solitone

Applicant claims ownership of Reg. No. 549,335.  
For Organic Fertilizers.  
Use since Mar. 1, 1947.

## CLASS 12

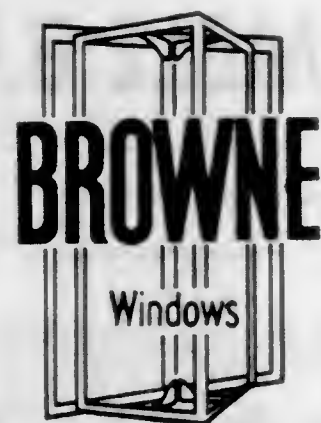
SN 674,811. Fulton Asphalt Company, Chicago, Ill. Filed Oct. 14, 1954.

# FULTON 1870

For Asphalt Mastic in the Form of Cakes and Blocks, Acid-proof Mastic, Asphalts, Asphalt Composition Flooring Material, Joint Sealing Compounds, Expansion Joint Cement, Asphaltic Cements, and Fluxes.

Use since 1870.

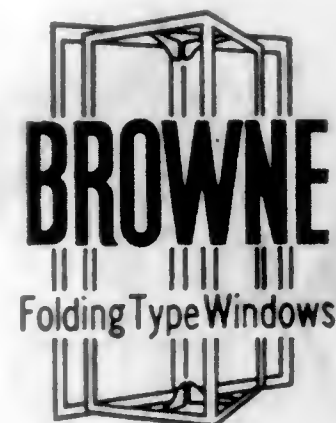
SN 686,589. Universal Corporation, Dallas, Tex. Filed Apr. 29, 1955. Sec. 2(f).



The word "Windows" is disclaimed apart from the mark as shown.

For Transparent Openings, Including Windows of Various Types, Facades, and Appurtenances Thereto.

Use since May 1915.



The words "Folding Type Windows" are disclaimed apart from the mark as shown.

For Transparent Openings, Including Windows of Various Types, Facades, and Appurtenances Thereto.

Use since May 1915.

SN 686,591. Universal Corporation, Dallas, Tex. Filed Apr. 29, 1955. Sec. 2(f).



The words "Folding Flue Windows" are disclaimed apart from the mark as shown.

For Transparent Openings, Including Windows of Various Types, Facades, and Appurtenances Thereto.

Use since May 1915.

SN 686,592. Universal Corporation, Dallas, Tex. Filed Apr. 29, 1955. Sec. 2(f).



The words "Bi-Folding Facades" are disclaimed apart from the mark as shown.

For Transparent Openings, Including Windows of Various Types, Facades, and Appurtenances Thereto.

Use since May 1915.

## CLASS 14

SN 681,659. The United Welding Company, Middletown, Ohio. Filed Feb. 14, 1955.



For Metal Structures Fabricated by Welding Known as "Weldments."

Use since on or about Feb. 1, 1934.

SN 682,105. American Brake Shoe Company, New York, N. Y. Filed Feb. 23, 1955.

# ABSCO

For Ferrous Castings.  
Use since Jan. 21, 1955.

## CLASS 15

SN 676,763. The Southland Company, Yazoo City, Miss. Filed Nov. 16, 1954.



The number "100" is disclaimed apart from the mark as shown.

For Gasoline.

Use since on or about June 7, 1954.

SN 680,138. The Farm-Oyl Company, St. Paul, Minn. Filed Jan. 19, 1955. Sec. 2(f).

# FARM-OYL

Applicant claims ownership of Reg. No. 527,401.  
For Lubricating Oils and Greases.  
Use since on or about July 1, 1928.

SN 680,246. Basilus Kucinskas, d. b. a. Religious Candles Mfg. Co., Brooklyn, N. Y. Filed Jan. 21, 1955.



For Candles of Various Sizes and Shapes Including Candles for Religious Use.

Use since Apr. 8, 1954.

SN 680,342. Arthur C. Withrow, d. b. a. Arthur C. Withrow Company, Los Angeles, Calif. Filed Jan. 21, 1955.

# MOLY-DEE

For Lubricants Containing Molybdenum Disulfide, Particularly Greases, Oils, Powders, and Dispersions in Oils and Solvents.

Use since Dec. 21, 1954.

SN 680,475. Chas. F. Kellom & Co., Inc., Philadelphia, Pa. Filed Jan. 25, 1955.

# ALL-TEMP

For Lubricating Oil.  
Use since Oct. 12, 1954.

SN 680,524. Daubert Chemical Company, Chicago, Ill. Filed Jan. 26, 1955.

# NUCLE OIL

The word "Oil" is disclaimed apart from the mark as shown.  
For Oil Compositions Containing Corrosion Inhibitors for Use in Conjunction With Metal Surfaces.  
Use since Dec. 23, 1954.

## CLASS 16

SN 655,258. Marabuwerte A. G., Tamm, Wurtemberg, Germany. Filed Oct. 23, 1953.



Applicant claims ownership of German Reg. No. 618,123, dated Jan. 24, 1952.

For Filled Paint Boxes and Paints and Colors in Tubes and Jars.

Use since in 1920.

SN 672,514. International Chemical Co., Chicago, Ill. Filed Aug. 31, 1954.

# Dura-Top

For Protective and Decorative Coating for Imparting Finish to Furniture, Woodwork, and Other Sealed Surfaces and Having Incidental Cleaning Properties.

Use since on or about June 23, 1954.



SN 673,222. Artloom Carpet Company, Inc., Philadelphia, Pa. Filed Sept. 15, 1954.

**dellay**

For Liquid Preparations Adapted To Be Sprayed on Rugs and Carpets To Form Dirt and Soil Resistant Coatings Thereon.

Use since July 13, 1954.

SN 683,381. Finch Paint & Chemical Co. Division of Desmond Bros. Paint Co., Torrance, Calif. Filed Mar. 14, 1955.

**Cat-a-lac**

For Catalyst Type Resistant Coatings.

Use since Jan. 12, 1953.

SN 683,606. The Martin-Senour Company, Chicago, Ill. Filed Mar. 16, 1955.

**SURFACE-SOLV**

For Lacquer Primer-Surfacer.

Use since Feb. 7, 1955.

SN 683,649. American-Marletta Company, d. b. a. Charles R. Long, Jr. Company, Chicago, Ill. Filed Mar. 17, 1955.

**DURASYN**

For Paint.

Use since on or about Sept. 7, 1932.

SN 683,674. Gilman Paint and Varnish Company, Chattanooga, Tenn. Filed Mar. 17, 1955.

**GIL-KOTE**

For House Paint Primer and Exterior House Paint.

Use since August 1954.

SN 683,675. Gilman Paint and Varnish Company, Chattanooga, Tenn. Filed Mar. 17, 1955.

**GILPON**

For Chemical Resistant Coating, Undercoat, Chromate Primer, Red Lead Primer, Penetrating Floor Sealer, and Floor Finish.

Use since June 1953.

SN 683,676. Gilman Paint and Varnish Co., Chattanooga, Tenn. Filed Mar. 17, 1955. Sec. 2(f).

**LUSTRE-GLO**

For Enamel.

Use since about September 1946.

SN 683,964. Central Paint & Varnish Works, Inc., Brooklyn, N. Y. Filed Mar. 22, 1955.

**confetti!**

For Paints.

Use since Mar. 1, 1954.

SN 684,024. Burgess Vibrocrafters, Inc., Chicago, Ill. Filed Mar. 23, 1955.

**THIXO**

For Paint.

Use since Feb. 28, 1955.

SN 684,255. William Zinsser & Co. Incorporated, New York, N. Y. Filed Mar. 25, 1955.

**Trimlac**

For Spirit Varnishes for All Natural Wood Trim, Wood Paneling, Cabinets, Woodwork, and Furniture.

Use since Mar. 1, 1955.

SN 684,362. Tandy Leather Company, Fort Worth, Tex. Filed Mar. 28, 1955.

**NEAT-LAC**

For Protective Finisher and Dressing for Leather.

Use since July 1, 1947.

SN 684,587. The Patterson-Sargent Company, Cleveland, Ohio. Filed Mar. 30, 1955.

**RUB-R-FLAT**

For Ready Mixed Paints.

Use since during January 1955.

SN 684,588. The Patterson-Sargent Company, Cleveland, Ohio. Filed Mar. 30, 1955.

**RUB-R-FLO**

For Ready Mixed Paints.

Use since during January 1955.

#### CLASS 18

SN 660,352. Sioux Industries, Inc., Sioux City, Iowa. Filed Jan. 29, 1954.

**nutri-X**

For Combination of Vitamins and Antibiotics for Use as a Supplement to Poultry and Stock Feeds.

Use since Oct. 1, 1953.

SN 665,423. Lepetit S. P. A., Milan, Italy. Filed Apr. 29, 1954.

SN 675,094. Fred W. Pease, d. b. a. Fred W. Pease & Co., Bastrop, Tex. Filed Oct. 19, 1954.

**TEMPOCILLINE**

Applicant claims ownership of Italian Reg. No. 115,531, dated Jan. 30, 1954.

For Delayed-Action Antibiotic Preparations.

SN 667,891. N. V. Maatschappij tot Exploitatie der Zaken Gedreven Onder den Naam van Klasolem, Amsterdam, Netherlands. Filed June 8, 1954.



Applicant claims ownership of Dutch Reg. No. 105,677, dated July 25, 1950.

For Haarlem Oil for Medicinal or Therapeutic Purposes.

SN 668,879. The Wander Company, d. b. a. Smith-Dorsey, Chicago, Ill. Filed June 24, 1954.

**Crystoserpine**

For Product for the Treatment of Hypertension.

Use since Apr. 7, 1954.

SN 669,080. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany. Filed June 29, 1954.

**LACALUT**

Applicant claims ownership of German Reg. No. 181,964, dated Oct. 9, 1913.

For Medicated Powder for the Mouth and Teeth.

SN 671,267. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Aug. 6, 1954.

**TERRA-CORTRIL**

Applicant claims ownership of Reg. Nos. 595,102 and 595,445.

For Antibiotic-Hormone Preparation.

Use since July 30, 1954.

SN 671,418. Drug Enterprises, Inc., Winston-Salem, N. C. Filed Aug. 10, 1954.

**VITALÖSE**

For Weight Reducing Dietary Supplement Tablets.

Use since July 27, 1954.

TM 697 O. G.—14



For Preparations Used on Domesticated Animals for the Treatment of Ear Canker.

Use since Mar. 1, 1945.

SN 675,174. Smith Kline & French Laboratories, Philadelphia, Pa. Filed Oct. 20, 1954.

**TRISOCORT**

Applicant claims ownership of Reg. No. 411,429. For Medicinal Preparation for Use in the Treatment of Respiratory Tract Conditions.

Use since Sept. 2, 1954.

SN 682,755. A. H. Robins Company, Inc., Richmond, Va. Filed Mar. 3, 1955.

**DONNA  
EXTENTABS**

Applicant claims ownership of Reg. Nos. 338,733, 592,680, and 604,409.

For Extended Action Antispasmodic Medicinal Preparation Providing for the Gradual Release of the Medicament in the Gastro-Intestinal Tract.

Use since Dec. 18, 1954.

#### CLASS 19

SN 661,487. O & S Bearing & Mfg. Co., Whitmore Lake, Mich. Filed Feb. 23, 1954. Sec. 2(f) as to "NeverOil."



Applicant claims ownership of Reg. No. 541,554. For Vehicle Parts—Namely, Lubricant Impregnated Fabric Ball Stud Assemblies for Use in the Steering Assemblies of Vehicles, Lubricant Impregnated Fabric Spring Inter-Liners and Shackle Bearings, Lubricant Impregnated Assemblies for Steering Knuckles and Shock Absorber Links.

Use since Feb. 10, 1953; and since 1913 as to "NeverOil."



SN 665,297. Packard Motor Car Company, Detroit, Mich., now by change of name Studebaker-Packard Corporation. Filed Apr. 27, 1954.

SN 668,336. The Master Electric Company, Dayton, Ohio. Filed June 16, 1954.

*Barther Daytona*

For Passenger Automobiles.  
Use since Feb. 6, 1954.

SN 674,195. Spincraft, Inc., Milwaukee, Wis. Filed Oct. 1, 1954.

**Spincraft**

For Boats, Mooring Buoys and Parts Thereof.  
Use since Feb. 10, 1952.

## CLASS 20

SN 679,369. Congoleum-Nairn Inc., Kearny, N. J. Filed Jan. 4, 1955.

**GOLD CHIP**

For Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition Surfaces.  
Use since Oct. 26, 1954.

## CLASS 21

SN 656,420. Jensen Manufacturing Company, Chicago, Ill. Filed Nov. 16, 1953. Sec. 2(f).

**TRIAXIAL**

For Loud Speaker Reproducer Units.  
Use since during May 1949.

SN 668,333. The Master Electric Company, Dayton, Ohio. Filed June 16, 1954.

**MASTER**

Applicant claims ownership of Reg. Nos. 156,704, 441,294, and others.

For Electric Motors and Parts Thereof, Electric Generators and Parts Thereof, Control and Instrument Panels and Parts Thereof, Electric Switches, and Electrically Operated Variable Speed Power Transmission Units and Parts Thereof.  
Use since on or about Jan. 1, 1944, on electric motors and electric generators.

SN 668,334. The Master Electric Company, Dayton, Ohio. Filed June 16, 1954.

**SPEEDRANGER**

Applicant claims ownership of Reg. No. 403,724.

For Electric Motors and Parts Thereof, Electric Generators and Parts Thereof, Electric Switches, and Electrically Operated Variable Speed Power Transmission Units and Parts Thereof.

Use since June 17, 1953.



Applicant claims ownership of Reg. Nos. 156,704, 441,294, and others.

For Electrically Controlled Variable Speed Power Transmission Units.

Use since June 17, 1953.

SN 669,471. R. E. Phelon Company, Inc., East Longmeadow, Mass. Filed July 6, 1954.



For Magnetos and Parts Thereof.  
Use since on or about May 1, 1950.

SN 673,649. Norman W. Cragun, Ogden, Utah. Filed Sept. 23, 1954.

**Ultrasound**

For High Fidelity Sound Equipment—To Wit, Amplifiers and Conversion Kits for Adapting Amplifiers, and Related Apparatus.

Use since Sept. 9, 1954.

SN 674,028. Beam Distributing, Inc., Chicago, Ill. Filed Aug. 24, 1954.



For Electric Phonographs, Tape Recorders, Radio-Phono Combinations, and Record Changers.

Use since January 1953 on electric phonographs.

SN 678,787. Kamkap, Inc., New York, N. Y. Filed Dec. 22, 1954.

**FIRE-O-MATIC**

For Electrical Heaters for Starting Charcoal Fires.  
Use since Dec. 17, 1954.

## CLASS 23

SN 661,403. Borg-Warner Corporation, Chicago, Ill. Filed Feb. 23, 1954.

**CARTRIDGE**

For Pumps and Parts Thereof for Replacement and Repair.  
Use since during January 1953.

SN 663,232. Turchan Follower Machine Company, Detroit, Mich. Filed Mar. 24, 1954.

SN 666,510. Richard L. Olson, Chicago, Ill. Filed May 17, 1954.

**TURCHAN**  
**HYDRO - ROUTER**

For Tracer Controlled Reproducing Machines.  
Use since Oct. 16, 1953.

SN 663,880. Clevite Corporation, Cleveland, Ohio. Filed Apr. 5, 1954.

**CLETEX**

For Composite Plastic Impregnated Fiber-Lined Steel Bearing Surface Materials.  
Use since Mar. 10, 1954.

SN 664,296. Dorothy Dahl, Inc., Chicago, Ill. Filed Apr. 12, 1954.

**GEM SET**

For Hand Operated Tool for Inserting Ornamental Flatback Stones (Such as Rhinestones, Pearls, Opals, Etc.) on a Flexible Backing Material.

Use since on or about Jan. 5, 1954.

SN 664,297. Dorothy Dahl, Inc., Chicago, Ill. Filed Apr. 12, 1954.



Applicant claims the exclusive right to the use of the representation of a tool for inserting ornamental flatback stones as a part of its trademark, but not otherwise.

For Hand Operated Tool for Inserting Ornamental Flatback Stones (Such as Rhinestones, Pearls, Opals, Etc.) on a Flexible Backing Material.

Use since on or about Jan. 5, 1954.

SN 665,522. Saladmaster Sales, Inc., Dallas, Tex. Filed Apr. 30, 1954.

**Estate**

For Stainless Steel Flatware—Namely, Knives, Forks, Spoons, Ladles, Servers, Sugar Shells, and Butter Spreaders.  
Use since on or about Feb. 1, 1954.

*Dike-O-Seal*

For Cavity Mold Assemblies Subject to Internal Pressures in Use, Such as Sand Core Boxes, Tire Molds and the Like, Equipped With a Barrier Structure Between Separable Faces of Joints Thereof To Prevent Blow-By of Material From Within the Assemblies Through Such Joints.  
Use since Feb. 16, 1954.

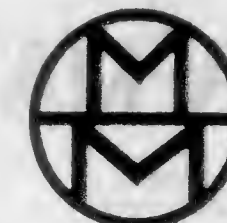
SN 673,213. West Bend Aluminum Co., West Bend, Wis. Filed Sept. 14, 1954. Sec. 2(f).

**WEST BEND**

Applicant claims ownership of Reg. Nos. 559,607 and 567,784.

For Outboard Motors and Industrial Engines.  
Use since Aug. 25, 1947, on outboard motors.

SN 673,672. Maschinenfabrik Meer Aktiengesellschaft, Munchen-Gladbach, Germany. Filed Sept. 23, 1954.



Applicant claims ownership of German Reg. Nos. 413,000, dated Jan. 10, 1930, and 649,967, dated Dec. 14, 1953.

For Mill Machinery for Hot and Cold Rolling and Shaping of Ferrous and Non-Ferrous Metals, Particularly Seamless Tube Mill and Allied Machinery, Track-Packing Machines, Road-Metal Removing Machines, and Road-Metal Cleaning Machines.

SN 677,904. The Sheffield Corporation, Dayton, Ohio. Filed Dec. 7, 1954.

**PRECISION-ROL**

No registration rights are claimed for the word "Precision" apart from the mark as shown. Applicant claims ownership of Reg. No. 603,580.

For Machine Tools—Namely, Thread or Form Rolling Devices.

Use since Jan. 5, 1954.

SN 678,758. Bissell Carpet Sweeper Company, Grand Rapids, Mich. Filed Dec. 22, 1954.

*Breeze*

Applicant claims ownership of Reg. No. 87,595.  
For Carpet Sweepers.  
Use since Nov. 29, 1954.

SN 679,333. Railroad Friction Products Corporation, Wilmerding, Pa. Filed Jan. 3, 1955.

**COBRA**

For Brake Shoes for Vehicles—Namely, Railroad Locomotives.

Use since December 1954.



## CLASS 24

SN 681,320. World Continental Enterprises, Inc., Los Angeles, Calif. Filed Feb. 8, 1955.

**IRON-MAID**

For Metal Rack To Be Placed on an Ironing Board To Hold an Iron.  
Use since Aug. 3, 1954.

SN 682,203. Spotless Plastics Corporation, Rochester, N. Y. Filed Feb. 23, 1955.

**SPOTLESS**

For Clothes Pins and Clothesline.  
Use since in or about May 1950 on clothesline.

SN 682,881. Easy Washing Machine Corporation, Syracuse, N. Y. Filed Mar. 7, 1955.

**DRIA-MATIC**

For Domestic Laundry Driers.  
Use since Jan. 12, 1955.

SN 684,618. American Machine and Metals, Inc., East Moline, Ill. Filed Mar. 31, 1955.

**Speedline**

For Ironing Machines.  
Use since Feb. 21, 1955.

SN 684,791. The American Laundry Machinery Company, Cincinnati, Ohio. Filed Apr. 4, 1955.

**Truclor**

For Dry Cleaning Machines in Which Work Is Both Washed and Extracted.  
Use since Nov. 7, 1954.

## CLASS 25

SN 667,406. Kwikset Locks, Inc., Anaheim, Calif. Filed June 1, 1954.

**600**

For Latches, Lock Sets, and Component Parts Thereof.  
Use since Sept. 18, 1950.

## CLASS 26

SN 645,937. Victory Engineering Corporation, Union, N. J. Filed Apr. 24, 1953.



For Thermistors Used in Electronic and Thermal Control Instruments.  
Use since Mar. 1, 1952.

SN 659,439. United Device Corporation, Great Neck, N. Y. Filed Jan. 13, 1954.

**RED T' APPLE**

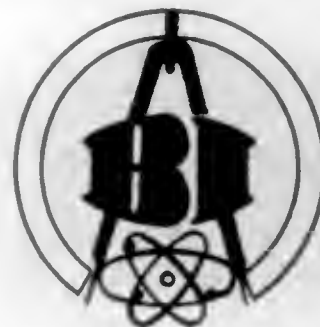
For Tape Measure and Novel Container Therefor Sold as a Unitary Article.  
Use since Dec. 15, 1953.

SN 660,944. Hauman Instruments Company, Watertown, Mass. Filed Feb. 11, 1954.

**HICO-LITE**

For Photo-Flash Lamp Heads, Photo-Flash Power Supplies, Batteries and A. C. Converters for Photo-Flash Power Supplies, Combinations of Photo-Flash Lamp Heads and Power Supplies, and Photo-Electric Devices for Controlling the Actuation of Photo-Flash Lamp Heads.  
Use since Jan. 8, 1954.

SN 673,500. Bruno-New York Industries Corporation, New York, N. Y. Filed Sept. 21, 1954.



For Electronic Equipment—Namely, Power Measuring Equipment, Multi-Meters, Precision D. C. Volt Meters, and Replacement Parts Therefor.  
Use since Sept. 3, 1954.

SN 676,523. Paulson Manufacturing Corporation, Fallbrook, Calif. Filed Nov. 12, 1954.

**FROG-EYE**

For Goggles.  
Use since July 24, 1953.

SN 677,125. Agfa Camera-Werk Aktiengesellschaft, Munich, Germany. Filed Nov. 23, 1954.

**CLACK**

Applicant claims ownership of German Reg. No. 42,539, dated Mar. 1, 1900.  
For Photographic Cameras.

SN 677,379. B & H Instrument Company, Incorporated, Fort Worth, Tex. Filed Nov. 29, 1954.



For Devices for Testing Heat Sensing Units.  
Use since Aug. 27, 1954; and June 1952 as to "Jetcal."

SN 677,380. B & H Instrument Company, Incorporated, Fort Worth, Tex. Filed Nov. 29, 1954.



For Devices for Testing Heat Sensing Units.  
Use since June 30, 1952.

SN 678,859. General Aniline & Film Corporation, New York, N. Y. Filed Dec. 23, 1954.

**ANSCOCHROME**

For Light-Sensitive Photographic Materials—Namely, Film and Paper.  
Use since Nov. 26, 1954.

SN 679,073. The Balance Engineering Company, Chicago, Ill. Filed Dec. 29, 1954.



For Dynamic and Static Balancing Machines and Component Parts Therefor.  
Use since Oct. 21, 1954.

SN 679,157. Gulton Mfg. Corp., Metuchen, N. J. Filed Dec. 30, 1954.

**CERAMISTOR**

For Temperature Sensitive Electrical Components Comprising, in Particular, Ceramic Temperature Sensitive Capacitors, Ceramic Temperature Sensitive Memory Unit Elements, and Ceramic Temperature Sensitive Piezoelectric Elements.  
Use since Dec. 23, 1954.

SN 679,371. Edward C. Dale, Jr., d. b. a. Caribbean Plastics Company, Christiansted, St. Croix, Virgin Islands. Filed Jan. 4, 1955.

**SEE-SHELLS**

For Eye Shades.  
Use since Nov. 12, 1954.

SN 682,274. Logistics Research Inc., Redondo Beach, Calif. Filed Feb. 24, 1955.

**ALWAC**

For Digital Computers and Parts Therefor.  
Use since Feb. 27, 1954.

SN 683,863. Eastman Kodak Company, Rochester, N. Y. Filed Mar. 21, 1955.

**DUAFLUX**

For Photographic Cameras, Photographic Electric Flash Lighting Apparatus, and Photographic Outfits Comprising a Camera and Electric Flash Lighting Apparatus.  
Use since December 1947.

## CLASS 28

SN 675,973. Dolan & Bullock Co., Providence, R. I. Filed Nov. 3, 1954.



For Men's Jewelry.  
Use since Oct. 27, 1954.

SN 679,456. Coro, Inc., New York, N. Y. Filed Jan. 5, 1955.

**Memories of Life**

For Charm Bracelets.  
Use since Dec. 23, 1954.

## CLASS 29

SN 669,070. Southern Missionary College, Collegedale, Tenn. Filed May 25, 1954.



For Brooms Bound in Plastic.  
Use since Dec. 23, 1953.

SN 679,320. Peacock Broom Company, San Francisco, Calif. Filed Jan. 3, 1955.

**PEACOCK**

For Brooms.  
Use since Aug. 6, 1951.



SN 679,721. Espanola Equipment Limited, Espanola, Ontario, Canada. Filed Jan. 11, 1955.

**PAINT-O-MATIC**

Applicant claims ownership of Canadian Reg. No. N. S. 193-49,171, dated June 26, 1954.  
For Paint Roller Applicators, Stipplers, and Surface Coating Applicators.

SN 680,158. Old Tappan Products, Inc., Old Tappan, N. J. Filed Jan. 19, 1955.

**Pet-a-groom**

For Brushes for Pets.  
Use since Dec. 15, 1954.

## CLASS 30

SN 630,898. Malinite Corporation, Los Angeles, Calif. Filed June 7, 1952.

**MALINITE**

Applicant claims ownership of Reg. No. 303,707.  
For Molded Ceramic Bodies—Namely, Dinnerware.  
Use since June 13, 1932.

SN 664,258. Rosenthal Porzellan Aktiengesellschaft, Selb, Germany. Filed Apr. 9, 1954.



The geographical term "Germany" is disclaimed apart from the mark as shown. Applicant claims ownership of German Reg. No. 651,967, dated Mar. 10, 1953.

For Articles Made of Porcelain—Namely, Dinner Sets, Coffee Sets, Tea Sets, Mokka Sets, Chocolate Sets, Bowls and Vases; Articles Made of Glazed Earthenware—Namely, Dinner Sets, Coffee Sets, Tea Sets, Mokka Sets, Chocolate Sets, Bowls and Vases.

SN 678,087. Michael M. Carmichael, Tyler, Tex. Filed Dec. 10, 1954.



For Porcelain Objects for the Aquarium.  
Use since May 30, 1950.

## CLASS 31

SN 668,067. A. R. F. Products, Inc., River Forest, Ill. Filed June 11, 1954.

**ARE**

For Ultraviolet Light Water Purifiers.  
Use since June 1, 1953.

SN 680,465. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Jan. 25, 1955.

**fmc**

Applicant claims ownership of Reg. Nos. 292,076, 658,384, and others.  
For Cooling Tanks and Spray Coolers.  
Use since February 1948.

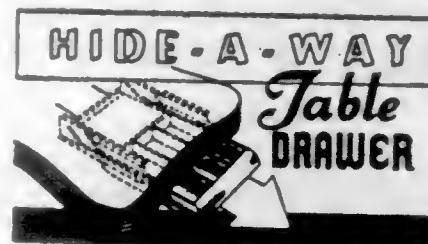
SN 680,466. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Jan. 25, 1955.



Applicant claims ownership of Reg. Nos. 292,076, 658,385, and others.  
For Cooling Tanks and Spray Coolers.  
Use since February 1948.

## CLASS 32

SN 644,634. Phoenix Metal Products, Brooklyn, N. Y. Filed Apr. 2, 1953.



The words "Table Drawer" and the representation of the goods are disclaimed apart from the trademark.  
For Table Drawer.  
Use since Sept. 1, 1949.

SN 658,415. Seaboard Metal Products Co., Newark, N. J. Filed Dec. 22, 1953.



Applicant disclaims any exclusive use of the words "Metal Products Co." except in the association shown.  
For Display Stands.  
Use since Dec. 14, 1953.

SN 671,652. The Lupfer Company, Columbus, Ohio. Filed Aug. 13, 1954.

**Cushion-flex**

For Mattresses, Box Springs, Day Beds, and Studio Couches.  
Use since June 26, 1953.

SN 679,335. L. B. Ramadell Company, Gardner, Mass. Filed Jan. 3, 1955.

**FEED 'N FUN**

For Combination Chair and Table Assemblies.  
Use since Oct. 24, 1954.

SN 679,777. The Hettick Manufacturing Company, Toledo, Ohio. Filed Jan. 12, 1955.

**RECLIN-O-MATIC**

For Chaise Lounges.  
Use since Dec. 14, 1954.

SN 679,840. The B. F. Goodrich Company, New York, N. Y. Filed Jan. 13, 1955.

**Venti-Lite**

For Pillows.  
Use since Dec. 2, 1953.

SN 679,895. Cowan Products Company, Inc., Sacramento, Calif. Filed Jan. 14, 1955.

**STUR-D-STAC**

For Chairs.  
Use since Feb. 20, 1950.

SN 680,507. Barclay Home Products, Inc., New York, N. Y. Filed Jan. 26, 1955.

**DACROPUFF**

For Pillows.  
Use since Dec. 22, 1954.

**SLIDE-O-MATIC**

For Bathroom Medicine Cabinets.  
Use since Dec. 15, 1954.

## CLASS 34

SN 643,448. Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Filed Mar. 10, 1953. Sec. 2(f).

**SULZER**

Applicant claims ownership of Reg. Nos. 528,521 and 528,885.

For Blowers and Fans; Axial and Centrifugal Ventilators; Ventilating and Air Cooling Installations, Air Humidifying Installations, Drying Installations, Vapour Dispersal Installations; Evaporative Air Coolers; Central Heating Installations Using Hot Water, High-Temperature Water or Steam, District Heating Installations, Panel Warming Installations, Oil Firing Furnaces, Steam Generators, Water-Tube Boilers, Radiation Boilers, Boilers With Forced Circulation, Corrugated Flue Tube Boilers, Return Tube and Smoke Tube Boilers, Exhaust Gas and Waste Heat Boilers, Electric Boilers; Vapor Condensers; Steam and High-Temperature Water Accumulators; Feed Water Preheaters, Steam Superheaters, Air Preheaters; Evaporating Units, Distilling Units, Concentrating Installations and Extracting Installations.  
Use since 1934.

SN 652,492. Atmos Corporation, Chicago, Ill. Filed Aug. 31, 1953.

**ATMOS**

For Cabinets and Apparatus To Dry and Smoke Foods Consisting of Smoke Generators, Fans, Gas Burners and/or Steam Coils, Temperature and Humidity Controls, Alternating Dampers and Intercommunicating Ducts.  
Use since Oct. 31, 1932.

SN 671,653. Marshall-Wells Company, Duluth, Minn. Filed Aug. 13, 1954.

**ZENITH**

Applicant claims ownership of Reg. Nos. 72,875, 424,507, and others.

For Electrically Operated Air Conditioners and Electrically Operated Dehumidifiers.  
Use since Dec. 8, 1938, on electrically operated air conditioners.

SN 673,103. Imperial Chemical Industries Limited, London, England. Filed Sept. 13, 1954.

**KUNIFER**

Applicant claims ownership of British Reg. No. 664,126, dated Nov. 17, 1947.  
For Boiler Tubes and Condenser Tubes.



SN 674,042. American Air Filter Company, Inc., Louisville, Ky. Filed Sept. 30, 1954.

**Amerivent**

For Forced Draft Cooling, Heating and Ventilating Unit of the Cabinet Type.  
Use since Sept. 4, 1954.

SN 674,922. Viking Superior Corporation, Brooklyn, N. Y. Filed Oct. 14, 1954.



For Water Heating Units.  
Use since Oct. 9, 1950.

SN 677,167. Palmer Manufacturing Corporation, Phoenix, Ariz. Filed Nov. 23, 1954.

**PALMAIRE**

Applicant claims ownership of Reg. No. 431,691.  
For Evaporative Coolers, Humidifiers, and Gas Fired Furnaces.  
Use since Jan. 22, 1953.

SN 679,476. Mueller Climatrol Division of Worthington Corporation, Milwaukee, Wis. Filed Jan. 5, 1955.

**SUBURIBANAIRE**

For Warm Air Furnaces.  
Use since Dec. 1, 1954.

SN 679,859. The Frederick Page Contracting Company, New York, N. Y. Filed Jan. 13, 1955. Sec. 2(f).

**PAGE  
INCINERATORS**

No registration rights are claimed for the word "Incinerators" apart from the mark shown in the drawing. Applicant claims ownership of Reg. No. 604,633.  
For Incinerators.  
Use since on or about Jan. 21, 1909.

SN 680,492. Stewart Manufacturing Company, Inc., Cedar Grove, N. J. Filed Jan. 25, 1955.

**"THERMAJET"**

For Registers and Grills.  
Use since Nov. 29, 1954.

## CLASS 36

SN 664,620. Radio Corporation of America, New York, N. Y. Filed Apr. 15, 1954.

**GROOVE**

For Grooved Phonograph Records.  
Use since Jan. 21, 1954.

SN 680,478. The Mapes Piano String Co., New York, N. Y. Filed Jan. 25, 1955.

**microlloy**

For Guitar Strings.  
Use since Jan. 14, 1955.

## CLASS 37

SN 648,553. Merrimade, Inc., Lawrence, Mass. Filed June 10, 1953.

**MERRIMADE**

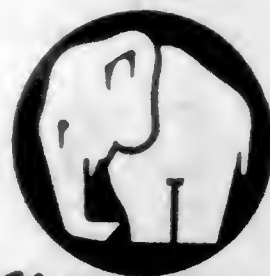
For Personalized Accessories of Paper—Namely, Letter Paper, Letter Envelopes, Writing Pads, Place Mats, Place Cards, Paper Towels, Paper Napkins, Blotters, Household Lists, Bridge Scoring Pads, Coasters, Match Book Covers, and Blank, or Partially Printed Tags, Labels, Calling Cards and Post Cards, All of Said Accessories Being Imprinted With the Names, Nicknames, Monograms, or Initials of Individuals.  
Use since about December 1921.

SN 648,895. J. W. Zanders Feinpapierfabrik Gesellschaft mit beschränkter Haftung, Gohrsmühlenweg, Bergisch, Gladbach, Germany. Filed June 16, 1953.

**Elefantenhaut**

The word "Elefantenhaut" which constitutes the mark meaning "Elephant Hide" in English. Applicant claims ownership of German Reg. No. 618,572, dated Apr. 4, 1952.  
For Parchmentlike Paper and Paperboard for Book-Binding Purposes.

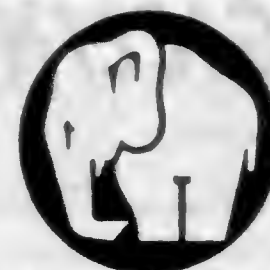
SN 648,896. J. W. Zanders Feinpapierfabrik Gesellschaft mit beschränkter Haftung, Gohrsmühlenweg, Bergisch, Gladbach, Germany. Filed June 16, 1953.



**Elefantenhaut**

The word "Elefantenhaut" in the mark means "Elephant Hide" in English. Applicant claims ownership of German Reg. No. 621,458, dated June 4, 1952.  
For Parchmentlike Paper and Paperboards for Book-Binding Purposes.

SN 649,858. J. W. Zanders Feinpapierfabrik Gesellschaft mit beschränkter Haftung, Gohrsmühlenweg, Bergisch, Gladbach, Germany. Filed July 3, 1953.



**Elephant Hide**

Applicant claims ownership of German Reg. No. 635,794, dated Mar. 14, 1953.

For Parchmentlike Paper and Paperboards for Book-Binding Purposes.

SN 665,044. Charles R. Hadley Company, Los Angeles, Calif. Filed Apr. 22, 1954.

**WRITE IT ONCE**

For Business Forms, Ledger Sheets, Checks, Statements, Journals, Binders, and Accounting Boards.  
Use since January 1951.

SN 671,764. Marathon Corporation, Menasha, Wis. Filed Aug. 16, 1954. Sec. 2(f) as to "Compact."



Disclaimer is made of the word "Napkins" apart from the mark as shown. Applicant claims ownership of Reg. Nos. 334,240 and 416,495.  
For Paper Napkins.  
Use since Dec. 24, 1952.

SN 672,451. F. Soennecken, Bonn, Germany. Filed Aug. 30, 1954. Sec. 2(f).

**SOENNECKEN**

Applicant claims ownership of trademark embodied in U. S. Reg. No. 87,673.

For Paper and Pasteboard Letter-Files, Blotters, Pencils, Pencil-Holders, Paper-Weights, Letter-Paper, Letter-Holders, Letter-Openers, Letter-Racks, Colored Pencils, Envelopes, Crayons, Penholders, Pen-Racks, Pen-Wipers, Slate-Pencils, Pens, Fountain-Pens, Account-Books, Press-Copying Paper in Sheets and in Rolls, Blotting-Paper, Rubber-Filled Cloth for Facilitating Press-Copying, Portfolios for Receiving Copying-Sheets, Letter-Books, Waterproof Sheets of Cardboard, Copying-Board of Cardboard Covered With Waterproof Material, Pliable Erasers, Inkstands, and Drawing-Paper.  
Use since July 5, 1876.

SN 673,000. Clasp Envelope Co., Inc., New York, N. Y. Filed Sept. 10, 1954.

**PERMA-BUTTON**

For Envelopes.  
Use since Aug. 20, 1954.

**GLAMAKOTE**

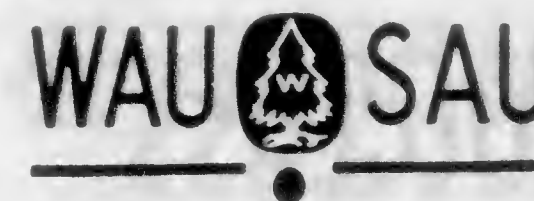
For Waxed Paper.  
Use since Aug. 9, 1954.

SN 673,408. Wausau Paper Mills Company, Brokaw, Wis. Filed Sept. 17, 1954.

**EXACT**

For Ledger, Duplicator, Mimeographing, Bond, and Offset Paper.  
Use since Apr. 15, 1946.

SN 673,409. Wausau Paper Mills Company, Brokaw, Wis. Filed Sept. 17, 1954.



Applicant claims ownership of Reg. Nos. 547,013 and 440,488.

For Bond and Duplicator Paper Including Ledger Paper, Duplicator Paper, Mimeographing Bond Paper, and Offset Paper.  
Use since May 29, 1952.

SN 673,467. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed Sept. 20, 1954.

**MANDOTEX**

Applicant claims ownership of Reg. No. 526,996.  
For Printing and Converting Papers.  
Use since Aug. 21, 1954.

SN 673,989. Hoffmaster Company, Inc., Oshkosh, Wis. Filed Sept. 29, 1954.

**Table Grace**

For Paper Napkins.  
Use since Apr. 22, 1954.

SN 673,990. Hoffmaster Company, Inc., Oshkosh, Wis. Filed Sept. 29, 1954.

**"Fibernit"**

For Paper Napkins.  
Use since Apr. 22, 1954.

SN 674,234. Ralph A. Eastman, d. b. a. Patman Printing Company, Burbank, Calif. Filed Oct. 4, 1954.

**Carb-in-Redy**

For Printed Business Forms Interleaved With Carbon Paper.  
Use since Apr. 29, 1948.



SN 679,865. T. J. & J. Smith Limited, London, England. Filed Jan. 13, 1955.

## CALENDIARY

Applicant claims ownership of British Reg. No. B. 728,880, dated Apr. 6, 1954.

For Calendars, Diaries, Combined Calendars and Diaries, Address Books, Guest Books, Memo Pads, Note Pads, Telephone Books, Engagement Books, and Desk Blotters.

SN 689,253. The Glassine & Greaseproof Manufacturers Association, New York, N. Y. Filed June 23, 1955.

## BAGLASS

For Semi-Greaseproof Glassine Paper of Medium Transparency.

Use since June 23, 1938.

SN 689,254. The Glassine & Greaseproof Manufacturers Association, New York, N. Y. Filed June 23, 1955.

## SULGLASS

For Non-Greaseproof Glassine Paper of Low Transparency.

Use since Nov. 13, 1935.

### CLASS 38

SN 673,970. Dow Jones & Company, Inc., New York, N. Y. Filed Sept. 29, 1954. Sec. 2(f).

## The Dow-Jones Averages

Applicant claims ownership of Reg. Nos. 325,446 and 379,956.

For Section of a Newspaper.

Use since Apr. 28, 1939.

SN 676,712. City Stores Company, Philadelphia, Pa. Filed Nov. 16, 1954.

## GOLD SQUARE

For Trading Stamps.

Use since Sept. 18, 1954.

SN 679,407. Presbyterian Life, Inc., Philadelphia, Pa. Filed Jan. 4, 1955. Sec. 2(f).

## PRESBYTERIAN LIFE

For Periodical Publication.

Use since Feb. 13, 1948.

SN 679,798. The Picture Detective Publishing Company, Derby, Conn. Filed Jan. 12, 1955.

## TOP SECRET

For Mystery Magazine.

Use since September 1953.

SN 679,827. Davis & Geck, Inc., Danbury, Conn. Filed Jan. 13, 1955.

## SURGICLINIC

For Leaflet Issued Periodically.

Use since Nov. 3, 1954.

SN 680,473. The International Association of Lions Clubs, Chicago, Ill. Filed Jan. 23, 1955.

## THE Lion

Applicant claims ownership of Reg. No. 559,838.

For Periodicals.

Use since April 1926.

### CLASS 39

SN 662,196. California Hosiery Company, Anaheim, Calif. Filed Mar. 8, 1954.

## Miss California

For Ladies' Hosiery.

Use since Aug. 7, 1951.

SN 663,466. Stuart B. Gordon, d. b. a. Trend Enterprises, Minneapolis, Minn. Filed Mar. 29, 1954.

## Dispos-a-bibs

Applicant disclaims the term "Bibs" as a part of the name.

For Disposable Baby Bibs.

Use since Apr. 12, 1953.

SN 671,757. Herbert Levine, Inc., New York, N. Y. Filed Aug. 16, 1954.

## Jordan heel

Applicant claims ownership of Reg. No. 587,741.

For Heels for Women's and Misses' Shoes.

Use since Sept. 1, 1952.

SN 672,041. Askin Brothers Company, Inc., Baltimore, Md. Filed Aug. 23, 1954.

## FIT-A-MATIC

For Hosiery and Underwear for Men, Boys, Girls, and Women and Women's and Children's Gloves.

Use since Aug. 2, 1954.

SN 672,219. Certified Creations, Inc., New York, N. Y. Filed Aug. 25, 1954. SN 679,497. Edward Shull, Miami, Fla. Filed Jan. 5, 1955.

## Feather Step

For Scuffs.

Use since June 1, 1954.

SN 672,567. Chadbourn Hosiery Mills, Incorporated, Charlotte, N. C. Filed Sept. 1, 1954.

## sheer surprise

For Ladies' Hosiery.

Use since July 1954.

SN 678,052. Stacy Adams Company, Brockton, Mass. Filed Dec. 9, 1954. Sec. 2(f) as to "Stacy-Adams."



All wording except "Stacy-Adams" is disclaimed apart from the mark as shown. Applicant claims ownership of Reg. Nos. 150,119 and 380,669.

For Men's Shoes.

Use since June 6, 1952.

SN 678,234. S. H. Kress and Company, New York, N. Y. Filed Dec. 13, 1954.

## Dolly Varden

Applicant claims ownership of Reg. No. 103,463.

For Hosiery.

Use since Dec. 12, 1914.

SN 679,044. Henry B. Harrison, Brooklyn, N. Y. Filed Dec. 28, 1954.

## STAND<sub>mold</sub>

For Shoes for Men, Women, and Children.

Use since Nov. 15, 1954.

SN 679,494. Hart Schaffner & Marx, Chicago, Ill. Filed Jan. 5, 1955.

## REVAIRE

For Men's Suits, Young Men's Suits, Topcoats, and Slacks.

Use since Dec. 3, 1954.

## Fabulous Florida

For Ladies' and Misses' Petticoats.

Use since Nov. 19, 1954.

SN 679,724. Morris Fishkin, Bradford, Pa. Filed Jan. 11, 1955.

## Skywatcher

For Caps of Overseas Military Type.

Use since Sept. 25, 1954.

SN 679,769. Willie Glassberg & Sons Limited, Cheetham, Manchester, England. Filed Jan. 12, 1955.

## drylander

Applicant claims ownership of British Reg. No. B724,453, dated Dec. 1, 1953.

For Waterproof, Rainproof, and Showerproof Coats.

SN 679,797. Prim Hosiery, Incorporated, Chester, Ill. Filed Jan. 12, 1955.

## precious prims

For Ladies' Hosiery.

Use since Dec. 28, 1954.

SN 679,887. G. H. Bass & Co., Wilton, Maine. Filed Jan. 14, 1955.

## TRAILMASTER

For Moccasin Hunting Boots or Shoes Made of Leather.

Use since on or about Oct. 6, 1954.

SN 680,002. Lang-Kohn, Inc., St. Louis, Mo. Filed Jan. 17, 1955.

## Ann Forsythe

DESIGN

The word "Design" is disclaimed apart from the mark as shown and used. Applicant claims ownership of Reg. No. 340,536.

For Women's, Misses', and Girls' Dresses.

Use since Sept. 1, 1935.



SN 680,032. Rawls Distributing Co., Chicago, Ill. Filed Jan. 17, 1955.

*Lilli-Dell*

For Ladies' Hosiery.  
Use since Nov. 19, 1954.

SN 680,038. Sbleca of California, Los Angeles, Calif. Filed Jan. 17, 1955.

*Capistranos*

For Women's Shoes.  
Use since Oct. 26, 1953.

SN 680,042. The Stetson Shoe Company, Incorporated, South Weymouth, Mass. Filed Jan. 17, 1955. Sec. 2(f).

**ARNOLD  
Townstyle**

Applicant claims ownership of Reg. Nos. 338,407, 338,651, and 422,130.  
For Women's Shoes.  
Use since July 1936.

SN 680,043. The Stetson Shoe Company, Incorporated, South Weymouth, Mass. Filed Jan. 17, 1955. Sec. 2(f).

**ARNOLD**

Applicant claims ownership of Reg. Nos. 338,407, 338,651, and 422,130.  
For Men's and Women's Shoes.  
Use since 1910.

SN 680,082. The A. S. Kreider & Son Co., Palmyra, Pa. Filed Jan. 18, 1955.

**REG-E-STURD**

For Shoes.  
Use since Nov. 22, 1954.

SN 680,096. Prima Footwear, Inc., Columbus, Ohio. Filed Jan. 18, 1955.

*SPORTSCAR*

For Women's and Misses' Shoes.  
Use since Jan. 10, 1955.

SN 680,164. John B. Stetson Company, Philadelphia, Pa. Filed Jan. 19, 1955.

**SANDHILLER**

For Hats and Caps for Men, Women, and Children.  
Use since Sept. 11, 1953.

SN 680,201. Lane Bryant, Inc., New York, N. Y. Filed Jan. 20, 1955.

*Lane-Aires*

For Women's Shoes.  
Use since Jan. 6, 1953.

SN 680,256. Claussner Hosiery Company, Paducah, Ky. Filed Jan. 21, 1955.

*Sheerlastic*

For Hosiery.  
Use since Jan. 5, 1955.

SN 680,262. Dieterich Field, Inc., Lincoln, Nebr. Filed Jan. 21, 1955.

*Richfield*

For Hosiery.  
Use since Feb. 17, 1954.

SN 680,276. International Shoe Company, St. Louis, Mo. Filed Jan. 21, 1955.

**HY-CLIMBER**

For Men's Boots and Shoes.  
Use since Dec. 27, 1954.

SN 680,474. Jay Ann Company, Inc., San Antonio, Tex. Filed Jan. 25, 1955.

*Topsees*

The drawing is lined for blue and yellow.  
For Infant Clothing—Namely, Dresses; Jackets; Bibs; and Panties, Shorts, and Slacks With Plastic Lining.  
Use since June 1953.

SN 680,495. Virginia Maid Hosiery Mills, Inc., Pulaski, Va. Filed Jan. 25, 1955.

**Pretty Coordinates**

For Women's Hosiery.  
Use since Jan. 14, 1955.

SN 680,535. Johnson Hosiery Mill, Hickory, N. C. Filed Jan. 26, 1955.

**NOMINEE**

For Hosiery.  
Use since Nov. 20, 1954.

SN 680,537. Laughlin F. F. Hosiery Mills, Inc., Randleman, N. C. Filed Jan. 26, 1955.

*Secret Beauty*

For Ladies' Hosiery.  
Use since June 29, 1954.

#### CLASS 40

SN 674,013. Charles F. Schwerzler, Hudson Heights, N. J. Filed Sept. 29, 1954.

**VARILACE**

Applicant claims ownership of Reg. No. 599,724.  
For Lace Trimmings—Namely, Insertions and Edgings.  
Use since Jan. 3, 1954.

#### CLASS 42

SN 670,272. Avondale Mills, Sylacauga, Ala. Filed July 20, 1954.

**CAPE CORD**

For Cotton Cord Piece Goods.  
Use since June 4, 1954.

SN 672,900. Louisville Bedding Company, Inc., Louisville, Ky. Filed Sept. 8, 1954.

*Olde Kentucky*

For Quilts.  
Use since Feb. 15, 1927.

SN 672,901. Louisville Bedding Company, Inc., Louisville, Ky. Filed Sept. 8, 1954.

*Olde Kentucky*

While the drawing is lined for the color red, the color is not claimed as a feature of the mark.  
For Quilts.  
Use since Feb. 15, 1927.

SN 675,844. S. Stroock & Co., Inc., New York, N. Y. Filed Nov. 1, 1954.

*Kashmircrest*

For Piece Goods Woven of Woolen and Worsted Fibers.  
Use since Aug. 17, 1954.

SN 678,456. Ile de France Fabrics, Inc., New York, N. Y. Filed Dec. 16, 1954.

*Ile de France*

For Fabrics in the Piece Consisting of Cotton, Wool, Silk, and Synthetic Fibres and Mixtures Thereof.  
Use since Sept. 16, 1953.

SN 679,702. The Abney Mills, Greenwood, S. C. Filed Jan. 11, 1955.

**SUNTUB FABRICS**

Without waiving its common law rights and for purposes of this registration only applicant makes no claim herein to the word "Fabrics" apart from the mark as shown. Applicant claims ownership of Reg. No. 413,125.  
For Cotton Piece Goods.  
Use since Feb. 1, 1922.

SN 679,906. Archibald Holmes & Son, Philadelphia, Pa. Filed Jan. 14, 1955.

**BROAD-TUFT**

For Carpets and Rugs Including Pile Ones, of Cotton, Wool, and Synthetic Fibres.  
Use since Dec. 8, 1954.

SN 680,508. Barclay Home Products, Inc., New York, N. Y. Filed Jan. 26, 1955.

**DACROPUFF**

For Comforters.  
Use since Dec. 22, 1954.

SN 680,553. Everett E. Sherwin, New York, N. Y. Filed Jan. 26, 1955.

**HEAVENLY**

For Tablecloths, Napkins, Table Mats, Table and Dresser Scarves, Kitchen Towels, Bath Towels, Hand Towels, Bed Sheets, and Pillow Cases.  
Use since Nov. 3, 1954.



SN 680,554. Shirley Fabrics Corp., New York, N. Y. Filed Jan. 26, 1955. SN 680,163. Piedmont Throwsters, Inc., Charlotte, N. C. Filed Jan. 19, 1955.

# CRESSIDA

For Textile Fabrics in the Piece of Cotton, Rayon, Wool, and Combinations Thereof.  
Use since Feb. 15, 1954.

## CLASS 43

SN 667,893. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-NYL

For Thread and Yarn.  
Use since May 10, 1954.

SN 667,894. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-COT

For Thread and Yarn.  
Use since May 10, 1954.

SN 667,895. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-DAC

For Thread and Yarn.  
Use since May 10, 1954.

SN 667,896. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-RAY

For Thread and Yarn.  
Use since May 10, 1954.

SN 667,897. Penn Associates, Inc., Philadelphia, Pa. Filed June 8, 1954.

# PENN-C.F.S.

For Thread and Yarn.  
Use since May 10, 1954.

SN 679,398. Rubin Levine & Co. Inc., New York, N. Y. Filed Jan. 4, 1955.

# CULTURED

Applicant claims ownership of Reg. No. 604,522.  
For Yarn of Cotton, Silk, and Wool.  
Use since Sept. 10, 1953.

# P.T.

For Yarn.  
Use since Nov. 1, 1954.

SN 680,341. Penrhyn Wilson, d. b. a. Pen Wilson Company, Charlotte, N. C. Filed Jan. 21, 1955.

# Flexcel

For Yarns.  
Use since Nov. 8, 1954.

## CLASS 44

SN 664,796. Raytheon Manufacturing Company, Waltham, Mass. Filed Apr. 19, 1954.

# MICRONAIRE

For Electrostatic Air Cleaners for Removing Allergens From the Air so as to Relieve Symptoms of Hay Fever, Asthma, and Other Pollen Induced Allments, and Parts and Components Thereof.  
Use since March 1954.

SN 666,013. William Freeman & Company Limited, Barnsley, England. Filed May 10, 1954.



Applicant claims ownership of British Reg. No. 712,526, dated Nov. 24, 1952, and U. S. Reg. No. 433,779.  
For Hot Water Bottles.

SN 667,487. Aktiebolaget Astra, Apotekarnes Kemiska Fabrik, Sodertalje, Sweden, to Astra Pharmaceutical Products, Inc., Worcester, Mass. Filed June 28, 1954.

# MONOPLAST

For Surgical Dressings.  
Use since Oct. 20, 1944.

SN 668,410. Orthopedic Equipment Company, Bourbon, Ind. Filed June 17, 1954.



For Litters and Surgical Instruments and Fracture Appliances Such as Splints, Traction Devices, Rib Belts, Arm Slings, Head Halters, and Similar Products.  
Use since Apr. 1, 1947.

SN 668,487. Arthur H. Thomas Company, Philadelphia, Pa. Filed June 18, 1954.

# Magne-Matic

For Manometric Blood Gas Apparatus.  
Use since May 7, 1954.

SN 674,169. Ruth M. McKeen and Harold E. McKeen, Vancouver, British Columbia, Canada. Filed Oct. 1, 1954.

# KEEN-KORK

Applicant claims ownership of Canadian Reg. No. 49,120, dated June 24, 1954.  
For Hot Water Bottle Stoppers.

SN 680,469. The Heltron Co., Chicago, Ill. Filed Jan. 25, 1955.

# HELTRON

For Shoe Insoles for Relief of Discomfort From Foot Ailments.  
Use since Dec. 1, 1953.

SN 680,837. Zenith Radio Corporation, Chicago, Ill. Filed Jan. 31, 1955.

# "75-X"

For Electrical Hearing Aids and Parts Thereof.  
Use since Dec. 2, 1954.

## CLASS 45

SN 676,388. The Miller-Becker Company, d. b. a. Cotton Club Bottling Co., Cleveland, Ohio. Filed Nov. 10, 1954.



The mark depicts the outline of an orchestra scene within a circular design.  
For Maltless Soft Drinks and Carbonated Waters.  
Use since Dec. 1, 1929.

SN 679,824. The Coca-Cola Export Corporation, New York, N. Y. Filed Jan. 13, 1955.

# FANTA

Applicant claims ownership of Reg. No. 513,565.  
For Carbonated Soft Drink and Syrup Concentrate for Making the Same.  
Use since at least as early as July 29, 1954.

## CLASS 46

SN 644,135. Oconomowoc Canning Company, Oconomowoc, Wis. Filed Mar. 24, 1953.



The drawing is lined for red.  
For Canned Vegetables.  
Use since 1939.

SN 652,743. Tropi Distributors, Newark, N. J. Filed Sept. 3, 1953.



For Food Drink Containing Milk Solids, Sugar, and Solubilized Coconut.  
Use since Mar. 19, 1953.

SN 662,147. Rousos Brothers, Rochester, N. Y. Filed Mar. 5, 1954.

# LUCIA

Applicant claims ownership of the mark shown in Reg. No. 178,807, expired.  
For Compounded or Blended Oil for Food Purposes, and Grated Italian Cheese.  
Use since Apr. 5, 1923, on compounded or blended oil.

SN 665,198. Haelan Laboratories, Inc., Philadelphia, Pa., now by change of name Connelly Containers, Inc. Filed Apr. 26, 1954.

# RADIO and TV stars

For Chewing Gum.  
Use since Sept. 8, 1953.

SN 666,486. H. Kohnstamm & Co., Inc., New York, N. Y. Filed May 17, 1954.

# TURQUINE

For Food Colors.  
Use since as early as January 1907.



SN 667,230. Flavo-Rite Foods, Inc., New York, N. Y. Filed May 27, 1954. SN 672,751. Pacific Seven, Inc., Seattle, Wash. Filed Sept. 3, 1954.



For Chinese Egg Roll and Shrimp Rolls.  
Use since July 1, 1952.

SN 670,137. John Wagner & Sons, Inc., Philadelphia, Pa. Filed July 16, 1954. Sec. 2(f).

# WAGNER

For Spices, Seasoning—Namely, Onion, Celery, Garlic, Marjoram, Charcoal, Rosemary, and Vinegar.  
Use since in the year 1920.

SN 670,258. Tri-County Producers Cooperative Association, Worcester, Pa. Filed July 19, 1954.

# DAWNKIST

For Fresh Eggs.  
Use since May 24, 1954.

SN 670,295. Mario's Food Products Company, Detroit, Mich. Filed July 20, 1954.

# Mario's

Applicant claims ownership of Reg. No. 350,669.  
For Olives and Olive Oil.  
Use since during the year 1932.

SN 670,947. Mario's Food Products Company, Detroit, Mich. Filed Aug. 2, 1954.



Applicant claims ownership of Reg. No. 350,669.  
For Olives and Olive Oil.  
Use since Jan. 1, 1954.

# PACIFIC

For Quick Frozen Fruits and Vegetables.  
Use since July 15, 1954.

SN 672,752. Pacific Seven, Inc., Seattle, Wash. Filed Sept. 3, 1954.

# Wesglo

For Quick Frozen Vegetables.  
Use since July 19, 1954.

SN 673,466. McLaughlin Gormley King Company, Minneapolis, Minn. Filed Sept. 20, 1954.

# SPICE OF LIFE

For Spices.  
Use since Aug. 30, 1954.

SN 675,276. Green Giant Company, Le Sueur, Minn. Filed Oct. 22, 1954.

# BONTÉ

The French word "Bonte" may be translated in English to mean "benignity" or "kindliness."  
For Canned Vegetables.  
Use since Aug. 25, 1954.

SN 675,277. Green Giant Company, Le Sueur, Minn. Filed Oct. 22, 1954.

# Delicate

For Canned Vegetables.  
Use since Aug. 30, 1954.

SN 675,413. Louis Milani Foods, Inc., Los Angeles, Calif. Filed Oct. 25, 1954.

# Buckaroo

For Canned Beef in Barbecue Sauce.  
Use since during March 1953.

SN 675,455. Weston Biscuit Company Inc., Passaic, N. J. Filed Oct. 25, 1954. SN 679,268. California Growers Wineries, d. b. a. Cutler Vineyard Wine Company, Cutler, Calif. Filed Jan. 3, 1955.

# Starlet

Applicant claims ownership of Reg. No. 442,503.  
For Bread.  
Use since Oct. 18, 1952.

SN 675,965. Central Feed & Grain Co., Kansas City, Mo. Filed Nov. 3, 1954.



Applicant claims ownership of Reg. No. 604,014.  
For Livestock Food Containing Molasses.  
Use since Oct. 28, 1954.

SN 678,953. Bud Antle Co., Salinas, Calif. Filed Dec. 27, 1954. Sec. 2(f).

# GOOD EARTH

Applicant claims ownership of Reg. No. 430,536.  
For Fresh Vegetables.  
Use since Aug. 9, 1945.

## CLASS 47

SN 632,232. United Vintners, Inc., d. b. a. Petri Wine Company, San Francisco, Calif. Filed July 7, 1952. Sec. 2(f).

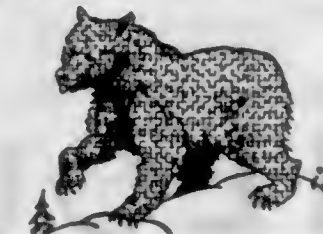
# MARCA PETRI

## PASTOSO

No claim is made to the word "Marca" apart from the mark as shown. The Italian word "Marca" may be translated to mean "mark" and the word "Pastoso" to mean "soft, doughy or mellow." Applicant claims ownership of Reg. Nos. 104,153, 556,683, and others.  
For Wines.

Use since Aug. 1, 1942; and since 1891 as to "Petri."

# Golden Bear



The drawing is lined for gold and red. Applicant claims ownership of Reg. No. 315,902.  
For Wines.  
Use since Dec. 27, 1933.

## CLASS 49

SN 602,194. Robert Gould Company, Cincinnati, Ohio. Filed Aug. 15, 1950.

# WILLOW SPRINGS

Applicant claims ownership of Reg. No. 311,998.  
For Whiskey.  
Use since July 10, 1950.

## CLASS 50

SN 679,645. Consoweld Corporation, Wisconsin Rapids, Wis. Filed Jan. 10, 1955.

# TWIN - TRIM

For Matched Moldings for Use With Decorative Plastic Laminates.  
Use since Dec. 15, 1954.

SN 679,743. Standard Packaging Corporation, Chicago, Ill. Filed Jan. 11, 1955.

# 45 Super Hood

No claim is made to the words "Super Hood" apart from the composite mark as shown. Applicant claims ownership of Reg. No. 599,759.

For Laminated Paper and Foil Bottle Closures Used Upon Milk Bottles.  
Use since Jan. 3, 1955.

## CLASS 51

SN 646,335. Underwood Corporation, New York, N. Y. Filed May 1, 1953. Sec. 2(f).

# UNDERWOOD

Applicant claims ownership of Reg. Nos. 131,645, 512,722, and others.  
For Hand Cream.  
Use since May 1949.



SN 662,346. The Zell Products Corporation, d. b. a. Zell Products Corp., Norwalk, Conn. Filed Feb. 8, 1954.

**SOFIA**  
OF Zell

For Pressed Powder Cake, and for Metal, Plastic, and Leather Compacts Sold Filled With Pressed Powder Cake.  
Use since Dec. 3, 1953.

SN 662,848. Charmis, Paris, France. Filed Mar. 18, 1954.

**FILOU**

Applicant claims ownership of French Reg. No. 434,781, dated Oct. 30, 1953.

For Perfumes, Toilet Water, Toilet Powder, Eau de Cologne, Rouge, Lipstick, Essential Oils, Hair Lotions, and Dentifrices.

SN 671,308. Coty, Inc., New York, N. Y. Filed Aug. 9, 1954.

**DISQUE D'OR**

The English translation of the French words "Disque D'Or" is "Disc of Gold."

For Vanity Case Filled With Face Powder.  
Use since Aug. 2, 1954.

SN 673,647. Clairol Incorporated, New York, N. Y. Filed Sept. 23, 1954.

**Lightening  
BOOSTER**

For Hair Tints, Hair Dyes, and Hair Bleaches.  
Use since December 1951.

SN 676,290. Mark Allen Co., Detroit, Mich. Filed Nov. 9, 1954.

**Allen's  
2  
DROP**

Applicant claims ownership of Reg. No. 322,197.  
For Liquid Cream Hand Protector.  
Use since Sept. 15, 1954.

SN 678,902. Associated Brands, Inc., Brooklyn, N. Y. Filed Dec. 24, 1954. Sec. 2(f).

**ANNAPOLIS**

Applicant claims ownership of Reg. No. 329,735.  
For Hair Tonic, Pomade, Brilliantine, and Brushless Shaving Cream.  
Use since Jan. 1, 1933.

## CLASS 52

SN 626,382. Klenzade Products, Incorporated, Beloit, Wis. Filed Mar. 13, 1952. Sec. 2(f).

**KLENZADE**

Applicant claims ownership of Reg. Nos. 333,594 and 392,154.

For Cleaners, Both Liquid and Powder, Detergents, Both Liquid and Powder, and Sanitizing Detergents, Both Liquid and Powder for Industrial, Dairy, and Food Plant Equipment Cleaning and Sanitation.

Use since in or about January 1933.

SN 626,383. Klenzade Products, Incorporated, Beloit, Wis. Filed Mar. 13, 1952. Sec. 2(f).

**KLENZADE**

Applicant claims ownership of Reg. Nos. 333,594 and 392,154.

For Cleaners, Both Liquid and Powder, Detergents, Both Liquid and Powder, Sanitizing Detergents, Both Liquid and Powder for Industrial, Dairy, and Food Plant Equipment Cleaning and Sanitation.

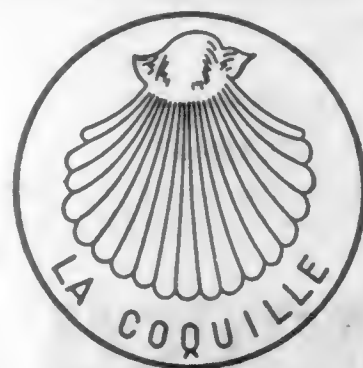
Use since on or about Jan. 1, 1945.

SN 669,975. Deb Chemical Proprietaries Limited, Belper, Derbyshire, England. Filed July 14, 1954.

**SWARFECA**

The mark is "Swarfega." Applicant claims ownership of British Reg. No. 621,683, dated Jan. 13, 1943.  
For Cleaning Preparation.

SN 670,987. Societe Nouvelle de Savonnerie, Marseille, France. Filed Aug. 2, 1954.



"La Coquille" means "shell." Applicant claims ownership of French Reg. No. 35,907, dated June 6, 1946, and U. S. Reg. No. 99,807.  
For Soap.

SN 676,767. Swift & Company, Chicago, Ill. Filed Nov. 16, 1954.

**GOLD MEDAL**

Applicant claims ownership of Reg. No. 319,408, expired.  
For Industrial Soap Flakes and Industrial Soap Powder.  
Use since about Apr. 1, 1931.

SN 676,952. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.

**GULF**

Applicant claims ownership of Reg. Nos. 344,601, 345,744, and 374,936.

For Motor Flush—Namely, a Chemical Composition for Removing Deposits Formed in the Operation of Internal Combustion Engines.

Use since on or about July 17, 1947.

SN 676,953. Gulf Oil Corporation, Pittsburgh, Pa. Filed Nov. 19, 1954.



The drawing is lined for orange and blue. Applicant claims ownership of Reg. Nos. 344,601, 345,744, and 374,936.

For Motor Flush—Namely, a Chemical Composition for Removing Deposits Formed in the Operation of Internal Combustion Engines.

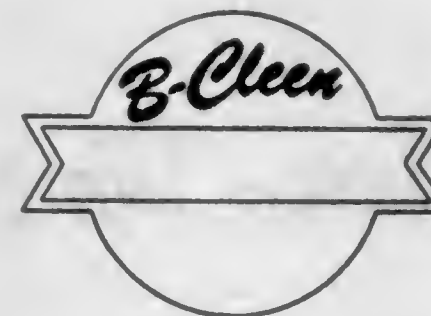
Use since on or about July 17, 1947.

SN 677,973. Morny Limited, London, England. Filed Dec. 8, 1954. Sec. 2(f).



No claim is made to the exclusive use of the words "London" and "Regent Street" apart from the mark shown.  
For Toilet Soap.  
Use since July 31, 1934.

SN 679,077. Wilferd W. Beaty, d. b. a. Beaty Products Company, Keokuk, Iowa. Filed Dec. 29, 1954.



Applicant claims ownership of Reg. No. 362,226.  
For Hand Soaps.  
Use since Mar. 1, 1949.

**BEATY'S**

For Window Cleaners, Hand Cleaners, Car Washes, White Wall Tire Cleaners, Closet Bowl Cleaners.

Use since Sept. 26, 1941, on hand cleaners.

SN 679,293. K & K Products Co., Alexandria, Va. Filed Jan. 3, 1955.

**GRIME-GO**

For Waterless Hand Cleaner for Removal of Grease, Oil, Paint, Printer's Ink, Carbon, and Stains and for Softening the Skin.

Use since July 10, 1954.

SN 679,426. The Tanatex Chemical Corporation, Kearny, N. J. Filed Jan. 4, 1955.

**TANATERGE**

Applicant claims ownership of Reg. Nos. 576,799 and 603,173.

For Detergents and Washing Compounds for General Use and for Use in the Textile Industry.  
Use since Oct. 27, 1949.

SN 679,918. Charles S. McCarthy, d. b. a. All-Distributing Co., Chicago, Ill. Filed Jan. 14, 1955.

**cle-mac**

For Detergents for Use in Laundry Machines.  
Use since Dec. 28, 1954.

SN 681,979. B. T. Babbitt, Inc., Albany, N. Y. Filed Feb. 21, 1955.

**Glim**

Applicant claims ownership of Reg. No. 433,431.  
For Synthetic Chemical Liquid Detergent.  
Use since Apr. 2, 1946.



## SERVICE MARKS

### CLASS 100

SN 653,730. Trans-American Traveler, Inc., Daytona Beach, Fla. Filed Sept. 24, 1953.

**THE  
TRANS-AMERICAN  
TRAVELERS**

For Making Available to Members of the Organization Selected From the General Public, Specified Discounts at Selected Business Establishments Affiliated With the Organization.

Use since Jan. 15, 1953.

SN 660,311. Animal Industry Development Company, Sunland, Calif. Filed Jan. 29, 1954.



For Artificial Breeding of Chinchillas and Other Animals and Furnishing Technical Advice and Information Relating to the Care and Breeding of Animals and to the Pelting and Marketing of the Pelts of Chinchillas and Other Fur Bearing Animals.

Use since October 1952.

SN 662,269. United Geophysical Company, Inc., Pasadena, Calif., to United Geophysical Corporation, Pasadena, Calif. Filed Mar. 8, 1954.

**MoMAG**

For Geophysical Exploration Services Employing Mobile Magnetometers.

Use since Sept. 1, 1952.

SN 669,411. Diketan Laboratories, Inc., Culver City, Calif. Filed July 6, 1954.



For Manufacturing Chemists Services in Making Private Formulae Vitamin, Pharmaceutical, and Biological Preparations.

Use since Oct. 12, 1948.

TM 162

SN 670,839. Arthur Kraft, New York, N. Y. Filed July 30, 1954.

**THE SYMPATHETIC EAR**

For Professional Advice Relating to Personal Problems. Use since July 12, 1954.

SN 674,425. John R. Thompson Co., d. b. a. Holloway House Cafeterias, Chicago, Ill. Filed Oct. 6, 1954.

**Holloway House**

For Restaurant Services. Use since Nov. 23, 1953.

SN 680,153. The Kiwi Club, Dallas, Tex. Filed Jan. 19, 1955. COLLECTIVE MARK.



For Organizing of Chapters in a National Fraternity and Maintaining Membership Therein. Use since May 17, 1952.

### CLASS 101

SN 644,250. Package Products Company, Charlotte, N. C. Filed Mar. 26, 1953.

**ROTOCHROME**

For Printing to Particular Specifications of Decorative Material on Merchandise Wraps, Bags, Envelopes, and the Like. Use since Sept. 6, 1948.

SN 662,169. Edythe Fern Melrose Webster, d. b. a. House O'Charm, Detroit, Mich. Filed Mar. 5, 1954.

**Charm Time**

For Advertising the Goods and Services of Others Through the Medium of Radio and Television Programs Consisting of Demonstrations and Discussions in Connection With Products, Recipes and Menus, Homemaking, Gardening, Etiquette, Beauty Advice, Fashions, Etc., Such Services Emanating From an Imaginative as Well as Factual "House O' Charm." Use since Jan. 1, 1935.

AUGUST 23, 1955

U. S. PATENT OFFICE

TM 163

SN 662,170. Edythe Fern Melrose Webster, d. b. a. House O'Charm, Detroit, Mich. Filed Mar. 5, 1954.

SN 672,633. Central Ironite Waterproofing Company, Maywood, Ill. Filed Sept. 2, 1954.

**Charm Kitchen**

For Advertising the Goods and Services of Others Through the Medium of Radio and Television Programs Consisting of Discussions and Demonstrations in Connection With Food, Recipes, and Menus, Kitchen Planning and Serving Etiquette, With Such Services Emanating From an Imaginative as Well as Factual "House O' Charm." Use since Jan. 1, 1935.

SN 662,171. Edythe Fern Melrose Webster, d. b. a. House O'Charm, Detroit, Mich. Filed Mar. 5, 1954.

**Time For Charm**

For Advertising the Goods and Services of Others Through the Medium of Radio and Television Programs Consisting of Demonstrations and Discussions in Connection With Products, Recipes and Menus, Homemaking, Gardening, Etiquette, Beauty Advice, Fashions, Etc., Such Services Emanating From an Imaginative as Well as Factual "House O' Charm." Use since Jan. 1, 1935.

SN 664,535. Kalif Management Corporation, Sheridan, Wyo. Filed Apr. 14, 1954.

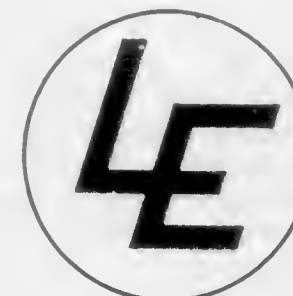
**MISS (INDIAN) AMERICA**

For Sales Promotion of Goods of American Indians Through the Medium of Regional and National Contests Based on Beauty and Talent in Which American Indian Women Are the Participants.

Use since on or about Feb. 1, 1953.

### CLASS 103

SN 658,010. Lloyd Engineering Company, Belleville, N. J. Filed Dec. 15, 1953.



For Fabrication, To Meet the Individual Requirements of Customers, of Special Machinery and Machinery Structure, Such as Exhaust Hoods for Chemical Laboratory, Peg Rack Trucks for Small Parts, Trucks for Holding Metal Castings, Sheet Metal Housings, Sheet Metal Cabinets, Carriers for Overhead Mono-Rail Conveyors, Hoppers, Hoods, Tanks, Ducts and Fittings, Angle Iron Frames, Racks, Machine Guards, Chutes, and Benches. Use since 1950.

**CENTITE**

For Waterproofing and Rehabilitating Masonry Structures. Use since July 9, 1954.

### CLASS 104

SN 679,689. Tri-City Broadcasting Company, Wheeling, W. Va. Filed Jan. 10, 1955.

**"The  
Skyline  
Station"**

For Television Program Broadcasting Services. Use since Oct. 24, 1953.

### CLASS 105

SN 672,646. The Robert Dollar Co., San Francisco, Calif. Filed Sept. 2, 1954.



The drawing is lined for red. Applicant claims ownership of Reg. Nos. 500,688 and 500,687. For Air Transportation of Passengers and Freight. Use since on or about June 1, 1953.

### CLASS 106

SN 671,179. Moduwall, Inc., New York, N. Y. Filed Aug. 5, 1954.



For Services of Custom Fabrication of Interior Wall Structures for School and Institutional Rooms and Other Room Areas Where It is Desired To Provide a Flexible Method of Suspending Materials and Equipment on the Wall. Use since Feb. 8, 1954.



## CLASS 107

SN 657,439. Abraham R. Kamm, also known as Abraham R. Kamm Kaminsky, White Sulphur Springs, W. Va. Filed Dec. 4, 1953.

**WRITE YOU ARE**

For Entertainment Service Rendered Through the Medium of a Radio and Television Broadcast Program Dealing With Handwriting Analysis.  
Use since Mar. 26, 1951.

SN 668,108. McCafferty and Hunt, Hollywood, Calif. Filed June 11, 1954.

STARS OVER ICE

For Entertainment Services in the Nature of Ice Skating Exhibitions.  
Use since Oct. 1, 1953.

SN 678,652. McClatchy Broadcasting Company, Sacramento, Calif. Filed Dec. 20, 1954.

**JAY HOLIDAY**

For Entertainment Service Rendered Through the Medium of a Radio Broadcast Program Consisting of Topics of Miscellaneous and Varied Interest to General Audiences.  
Use since June 27, 1953.

SN 678,653. McClatchy Broadcasting Company, Sacramento, Calif. Filed Dec. 20, 1954.

**KELLY BARTON**

For Entertainment Service Rendered Through the Medium of a Radio Broadcast Program Consisting of Topics of Miscellaneous and Varied Interest to General Audiences.  
Use since Oct. 30, 1950.

SN 678,654. McClatchy Broadcasting Company, Sacramento, Calif. Filed Dec. 20, 1954.

**VALLEY FARMER**

For Entertainment Service Rendered Through the Medium of a Radio Broadcast Program Consisting of Topics of Interest to Farmers.  
Use since Oct. 20, 1945.

SN 679,790. The Moody Bible Institute of Chicago, Chicago, Ill. Filed Jan. 12, 1955.

KYB Club

For Providing Religious Educational Services in the Nature of a Radio Program for Children.  
Use since September 1926.

## TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

## CLASS 1

- 610,863. POWER-PAK. Michael-Leonard Company. SN 649,096. Pub. 5-24-55. Filed 6-19-53.  
610,864. SAMPSON'S CROWN CHINCHILLAS AND DESIGN. Arthur Sampson. SN 654,921. Pub. 5-24-55. Filed 10-16-53.  
610,865. KORFIL. The Osborn Manufacturing Company. SN 661,723. Pub. 5-24-55. Filed 2-26-54.  
610,866. CERTIFIED PREMIER PEAT MOSS AND DESIGN. Premier Peat Moss Corporation. SN 664,698. Pub. 5-24-55. Filed 4-16-54.  
610,867. ADIPRENE. E. I. du Pont de Nemours and Company. SN 665,702. Pub. 5-24-55. Filed 5-5-54.  
610,868. CRYLOR. Societe Rhodiaceta. SN 668,790. Pub. 5-24-55. Filed 6-23-54.  
610,869. KANGAROO AND DESIGN. Jerclaydon, Inc. SN 672,082. Pub. 5-24-55. Filed 8-23-54.

## CLASS 6

- 610,870. ESTANE. The B. F. Goodrich Company, d. b. a. B. F. Goodrich Chemical Company. SN 656,944. Pub. 5-31-55. Filed 11-25-53.  
610,871. UBRYCO. The Udyllite Corporation. SN 658,357. Pub. 5-31-55. Filed 12-21-53.  
610,872. REPRESENTATION OF A CAT. Hoffmann's Starkefabriken Aktiengesellschaft. SN 659,623. Pub. 5-24-55. Filed 1-18-54.  
610,873. LITE-PRO. Demert & Dougherty, Inc. SN 663,772. Pub. 5-31-55. Filed 4-2-54.  
610,874. SURFCO. The Surface Protection Co., Incorporated. CONSOLIDATED CERTIFICATE. SN 663,841, pub. 10-12-54, filed 4-2-54, Cl. 6; SN 663,842, pub. 11-2-54, filed 4-2-54, Cl. 16.  
610,875. CHEMIRAD. Chemirad Corporation. SN 667,662. Pub. 5-31-55. Filed 7-12-54.  
610,876. VELVA-SOFT. Armour and Company. SN 671,408. Pub. 5-31-55. Filed 8-10-54.  
610,877. GRAPHOJEL. Louis I. Weiner, d. b. a. Tablax Company. SN 672,361. Pub. 5-31-55. Filed 8-27-54.  
610,878. AMPAGENT. A. S. Aloe Company. SN 674,041. Pub. 5-24-55. Filed 9-30-54.  
610,879. COLLOISOL. Badische Anilin- & Soda-Fabrik Aktiengesellschaft. SN 674,046. Pub. 5-24-55. Filed 9-30-54.  
610,880. CARLITE. Bryton Chemical Company. SN 674,220. Pub. 5-24-55. Filed 10-4-54.  
610,881. CIBANEUTRENE. Ciba Limited. SN 674,225. Pub. 5-24-55. Filed 10-4-54.  
610,882. DINOBLUELINE. The Di-Noc Company. SN 674,232. Pub. 5-24-55. Filed 10-4-54.  
610,883. NALCO. National Aluminate Corporation. SN 674,274. Pub. 5-24-55. Filed 10-4-54.  
610,884. SUPER QUICK. The Hubinger Company. SN 674,333. Pub. 5-24-55. Filed 10-5-54.  
610,885. SUPERSET. American Cyanamid Company. SN 674,647. Pub. 5-31-55. Filed 10-12-54.  
610,886. COLD DOG. Chemical and Fibre Associates, Inc. SN 674,802. Pub. 5-31-55. Filed 10-14-54.  
610,887. NOPCONE. Nopco Chemical Company. SN 674,836. Pub. 5-31-55. Filed 10-14-54.  
610,888. AMDYCO. American Dyewood Company. SN 675,245. Pub. 5-31-55. Filed 10-22-54.  
610,889. M-1. Theratomic Carbon Company. SN 675,332. Pub. 5-31-55. Filed 10-22-54.  
610,890. BORO-SPRAY. American Potash & Chemical Corporation. SN 675,349. Pub. 5-31-55. Filed 10-25-54.

- 610,891. V-BOR. American Potash & Chemical Corporation. SN 675,350. Pub. 5-31-55. Filed 10-25-54.  
610,892. BOROTHERM. American Potash & Chemical Corporation. SN 675,351. Pub. 5-31-55. Filed 10-25-54.  
610,893. KRONITEX. Food Machinery and Chemical Corporation. SN 675,378. Pub. 5-31-55. Filed 10-25-54.  
610,894. RAPIDTAN. The River Plate Corporation. SN 675,433. Pub. 5-31-55. Filed 10-25-54.  
610,895. 10-40. Alrkem, Inc. SN 675,522. Pub. 5-31-55. Filed 10-27-54.  
610,896. 10-39. Alrkem, Inc. SN 675,523. Pub. 5-31-55. Filed 10-27-54.  
610,897. ACL. Monsanto Chemical Company. SN 675,575. Pub. 5-31-55. Filed 10-27-54.  
610,898. BETOCEL. Paul H. Whitney. SN 675,677. Pub. 5-31-55. Filed 10-28-54.

## CLASS 10

- 610,899. GUARDSMAN AND DESIGN (REPRESENTATION OF HUMAN MALE). Van Waters & Rogers, Inc. SN 662,035. Pub. 5-24-55. Filed 3-4-54.

## CLASS 12

- 610,900. WIN-DOR APPROVED AND DESIGN. The Casement Hardware Company. SN 638,567. CERTIFICATION MARK. Pub. 5-24-55. Filed 11-25-52.  
610,901. SHADOW-LITE. Roy E. Cundiff. SN 671,310. Pub. 5-24-55. Filed 8-9-54.  
610,902. TRU-LINK FENCE "TRULY A GOOD FENCE." Tru-Link Fence Co. SN 675,450. Pub. 5-24-55. Filed 10-25-54.

## CLASS 13

- 610,903. DUO-JET. The De Laval Separator Company. SN 641,766. Pub. 5-17-55. Filed 2-5-53.  
610,904. KNO-LINK. Eaton Manufacturing Company. SN 652,767. Pub. 5-24-55. Filed 9-4-53.  
610,905. TEMP'N TIME. Robertshaw-Fulton Controls Company. SN 659,661. Pub. 5-17-55. Filed 1-18-54.  
610,906. WALPIPE. Waljohn Plastics, Inc. SN 663,407. Pub. 5-24-55. Filed 3-26-54.  
610,907. GAUCHO AND COWBOY DESIGN. S. A. Etoco (European Overseas Trading Company). SN 663,521. Pub. 5-24-55. Filed 3-29-54.  
610,908. WINDO-JECTOR AND DESIGN. Joseph E. Haynes, d. b. a. Wedge Seal Company. SN 673,233. Pub. 5-31-55. Filed 9-15-54.  
610,909. BIG L. American-Marietta Company. SN 673,259. Pub. 5-31-55. Filed 9-16-54.  
610,910. RES-Q, ETC., AND DESIGN. Res-Q Products. SN 673,300. Pub. 5-31-55. Filed 9-16-54.  
610,911. TOTAL ECLIPSE. John C. Kupferle Foundry Company. SN 675,213. Pub. 5-31-55. Filed 10-21-54.  
610,912. AUTO MOIST. Spar Engineering & Development, Inc. SN 675,344. Pub. 5-31-55. Filed 10-22-54.  
610,913. WEMPY AND DESIGN (REPRESENTATION OF A GROTESQUE FIGURE). Westfield Metal Products Co., Inc. SN 675,859. Pub. 5-31-55. Filed 11-1-54.  
610,914. POCKET DOR. Jade M. Donner, d. b. a. Donner Manufacturing Company. SN 676,612. Pub. 5-24-55. Filed 11-15-54.  
610,915. WES CHROME AND DESIGN. Jade M. Donner, d. b. a. Donner Manufacturing Company. SN 676,613. Pub. 5-24-55. Filed 11-15-54.  
610,916. SHAVER CRADLE. Electronic Specialty Co. SN 676,618. Pub. 5-31-55. Filed 11-15-54.  
610,917. SHAVEX. Electronic Specialty Co. SN 676,619. Pub. 5-31-55. Filed 11-15-54.



- 610,918. NIP-TITE. Consolidated Trimming Corporation. SN 676,714. Pub. 5-24-55. Filed 11-16-54.
- 610,919. MAGGIE. White Metal Rolling & Stamping Corp. SN 677,019. Pub. 5-31-55. Filed 11-19-54.
- 610,920. DARDELET. Lock Thread Corporation. SN 677,071. CERTIFICATION MARK. Pub. 5-31-55. Filed 11-22-54.
- 610,921. LOK-THRED. Lock Thread Corporation. SN 677,072. CERTIFICATION MARK. Pub. 5-31-55. Filed 11-22-54.
- 610,922. KWIK-CHANGE. Milton Manufacturing Co., Inc. SN 677,080. Pub. 5-31-55. Filed 11-22-54.
- 610,923. PRESSEAL. Southern Pipe & Casing Co. SN 677,103. Pub. 5-31-55. Filed 11-22-54.
- 610,924. DELSEY. International Cellucotton Products Company. SN 677,319. Pub. 5-31-55. Filed 11-26-54.
- 610,925. PLASTI-ROKUT. Illinois Tool Works. SN 677,410. Pub. 5-31-55. Filed 11-29-54.
- 610,926. DUO-CHECK. The Oscar C. Rixson Company. SN 677,444. Pub. 5-31-55. Filed 11-29-54.
- 610,927. SPIRATOR. Hunter Spring Company. SN 677,566. Pub. 5-31-55. Filed 12-1-54.
- 610,928. EDGEMASTER. Edgemaster Corporation. SN 677,872. Pub. 5-31-55. Filed 12-7-54.
- 610,950. VIALIN. American Home Products Corporation, d. b. a. Wyeth Laboratories, Div. of American Home Products Corporation. SN 675,121. Pub. 5-24-55. Filed 10-20-54.
- 610,951. NEOBON. Chas. Pfizer & Co., Inc. SN 675,161. Pub. 5-31-55. Filed 10-20-54.
- 610,952. AQUAVAC. American Cyanamid Company. SN 675,197. Pub. 5-31-55. Filed 10-21-54.
- 610,953. MAINTINET. Merck & Co., Inc. SN 675,300. Pub. 5-31-55. Filed 10-22-54.
- 610,954. ROETINIC. Chas. Pfizer & Co., Inc. SN 675,504. Pub. 5-31-55. Filed 10-26-54.
- 610,955. CULVA-PLEX. Culver Nutritional Products. SN 675,693. Pub. 5-31-55. Filed 10-29-54.
- 610,956. NU-LEASE. Newman Pharmacal Company, Inc. SN 675,712. Pub. 5-31-55. Filed 10-29-54.
- 610,957. SYRUP PEDRIN. Broemmel Pharmaceuticals. SN 675,761. Pub. 5-31-55. Filed 11-1-54.
- 610,958. FCC. Frank C. Caridi. SN 675,762. Pub. 5-31-55. Filed 11-1-54.
- 610,959. U-NEMA. Clyserol Laboratories, Inc. SN 675,766. Pub. 5-31-55. Filed 11-1-54.

## CLASS 19

- 610,960. TEXAS RANGER. White's Auto Stores, Inc. SN 632,910. Pub. 5-24-55. Filed 7-22-52.
- 610,961. VENTOURA. Holan Engineering Co., Inc. SN 644,986. Pub. 5-24-55. Filed 4-9-53.
- 610,962. WESTATES. Westates Sales & Engineering. SN 662,404. Pub. 5-24-55. Filed 3-10-54.
- 610,963. CHROMOTIVE. The Calnevar Company. SN 662,985. Pub. 5-24-55. Filed 3-22-54.
- 610,964. BURNER-CADDY AND DESIGN. Aaero Manufacturing Co. SN 665,981. Pub. 5-24-55. Filed 5-10-54.
- 610,965. SYNCHROPHASER. United Aircraft Corporation. SN 666,314. Pub. 5-24-55. Filed 5-13-54.
- 610,966. LEV-L-MATIC. Superior Coach Corporation. SN 670,071. Pub. 5-24-55. Filed 7-15-54.
- 610,967. MOBILTERIA AND DESIGN. Hood-Gardner Hotel Supply Corp. SN 675,389. Pub. 5-24-55. Filed 10-25-54.
- 610,968. "PLA-BOY." Guy Barnette & Company, Inc. SN 675,752. Pub. 5-24-55. Filed 11-1-54.
- 610,969. ROLITE AND DESIGN. Herman S. Newton, d. b. a. Newton Mfg. Co. SN 675,822. Pub. 5-24-55. Filed 11-1-54.
- 610,970. HACKNEY. Hackney Bros. Body Co. SN 677,877. Pub. 5-24-55. Filed 12-7-54.
- 610,971. PRESIDENT. Studebaker-Packard Corporation. SN 678,686. Pub. 5-24-55. Filed 12-20-54.

## CLASS 21

- 610,972. STOPRIGHT AND DESIGN. Rothenborg Special-maskiner for Sy-Industrien A/S. SN 636,808. Pub. 5-24-55. Filed 10-17-52.
- 610,973. CLAROSTAT. Clarostat Mfg. Co., Inc. SN 646,913. Pub. 5-24-55. Filed 5-26-53.
- 610,974. INSULDRI. Belden Manufacturing Company. SN 654,301. Pub. 5-24-55. Filed 10-7-53.
- 610,975. DUAL-REVENUER. Transvision, Inc. SN 655,614. Pub. 5-31-55. Filed 10-30-53.
- 610,976. "FREEVIEWER." Transvision, Inc. SN 655,615. Pub. 5-31-55. Filed 10-30-53.
- 610,977. ROTO-KLEEN AND DESIGN. Lee Brannan. SN 657,009. Pub. 5-24-55. Filed 11-27-53.
- 610,978. GAGETTE. R-W Gadget Co. SN 659,657. SN 659,657. Pub. 5-24-55. Filed 1-18-54.
- 610,979. CIRCLE-VANE. The Gabriel Company. SN 660,406. Pub. 5-31-55. Filed 2-1-54.
- 610,980. THE COMMANDER AND DESIGN. National Service Sales Corp., to Guest Products Corporation. SN 661,148. Pub. 5-31-55. Filed 2-16-54.
- 610,981. "SPOTLAY." Union Plate and Wire Co. SN 668,358. Pub. 5-31-55. Filed 6-16-54.
- 610,982. FESTIVAL. Harman-Kardon Inc. SN 668,996. Pub. 5-24-55. Filed 6-28-54.
- 610,931. HELIOGEN AND DESIGN. Hellogen Products, Inc. SN 639,635. Pub. 5-24-55. Filed 12-17-52.
- 610,932. BARBITA. Chicago Pharmacal Company. SN 655,761. Pub. 5-31-55. Filed 11-3-53.
- 610,933. F-111. Casimir Funk Laboratories, Inc. SN 659,770. Pub. 5-24-55. Filed 1-20-54.
- 610,934. SUPER-VIM AND DESIGN. Science Associates. SN 661,038. Pub. 5-24-55. Filed 2-12-54.
- 610,935. RU-BAC. Vet Products Co. SN 661,376. Pub. 5-24-55. Filed 2-19-54.
- 610,936. IORP. Instituto Opoterápico del Río de la Plata, Sociedad de Responsabilidad Limitada. SN 662,362. Pub. 5-24-55. Filed 3-10-54.
- 610,937. POLYENDINE. Travenol Laboratories, Inc. SN 665,453. Pub. 5-24-55. Filed 4-29-54.
- 610,938. ACICHLOR. Melville Sahyun, d. b. a. Sahyun Laboratories. SN 666,062. Pub. 5-31-55. Filed 5-10-54.
- 610,939. MELSAMID. Melville Sahyun, d. b. a. Sahyun Laboratories. SN 666,063. Pub. 5-24-55. Filed 5-10-54.
- 610,940. RICOR. Chicago Pharmacal Company. SN 667,017. Pub. 5-24-55. Filed 5-25-54.
- 610,941. MUGOLIO AND DESIGN (MOUNTAIN SCENERY). Soc. Accom. Mugolio di SEAF & C., now by change of name Soc. Accom. Mugolio di Piccolo & C. SN 667,057. Pub. 5-24-55. Filed 5-25-54.
- 610,942. LYTREN. Mead Johnson & Company. SN 667,415. Pub. 5-31-55. Filed 6-1-54.
- 610,943. ORACAINE. Mizzy, Inc. SN 668,682. Pub. 5-31-55. Filed 6-22-54.
- 610,944. VITA-SANS. Manuel Santos, d. b. a. Tosan Drug Co. SN 670,620. Pub. 5-31-55. Filed 7-26-54.
- 610,945. DURA-ORETON. Schering Corporation. SN 671,596. Pub. 5-24-55. Filed 8-12-54.
- 610,946. TOP-O-CHLOR. Aikem, Inc. SN 672,774. Pub. 5-24-55. Filed 9-7-54.
- 610,947. TEWINE. Wart-Off Company. SN 673,489. Pub. 5-24-55. Filed 9-20-54.
- 610,948. ELPAFEC. The E. L. Patch Company. SN 675,000. Pub. 5-31-55. Filed 10-18-54.
- 610,949. KERVAC. American Cyanamid Company. SN 675,119. Pub. 5-31-55. Filed 10-20-54.

- 610,983. DURA GRIP. Anderson Brass Works, Inc. SN 669,073. Pub. 5-31-55. Filed 6-29-54.
- 610,984. BELOCK AND DESIGN. Belock Instrument Corporation. SN 670,026. Pub. 5-31-55. Filed 7-15-54.
- 610,985. CONFIDENCER AND DESIGN. Roanwell Corporation. SN 670,760. Pub. 5-24-55. Filed 7-28-54.
- 610,986. A-LINE. The Brown-Brockmeyer Company. SN 674,727. Pub. 5-24-55. Filed 10-13-54.
- 610,987. DuVAR. Arthur Slepian & Company. SN 675,016. Pub. 5-24-55. Filed 10-18-54.
- 610,988. CROWN AND DESIGN (REPRESENTATION OF A CROWN). Crown Chemical and Engineering Co. SN 675,264. Pub. 5-24-55. Filed 10-22-54.
- 610,989. CIRCON AND DESIGN (REPRESENTATION OF A CIRCLE AND ARROW). Universal Circuit Controls Corp. SN 675,336. Pub. 5-24-55. Filed 10-22-54.
- 610,990. 3M COMPANY IN WREATH DESIGN. Minnesota Mining & Manufacturing Company. SN 675,495. Pub. 5-24-55. Filed 10-26-54.
- 610,991. PERMAKAY. Motorola, Inc. SN 675,813. Pub. 5-31-55. Filed 11-1-54.
- 610,992. HI-SEAL AND DESIGN (REPRESENTATION OF A MAP, ETC.). Leach Corporation. SN 676,206. Pub. 5-24-55. Filed 11-8-54.
- 610,993. AUTOSYN. Bendix Aviation Corporation, d. b. a. Eclipse-Pioneer Division. SN 676,358. Pub. 5-24-55. Filed 11-10-54.
- 610,994. INSTA-LOK. Trio Manufacturing Co. SN 678,351. Pub. 5-24-55. Filed 12-14-54.
- 610,995. CAN ARM. Electromaid Corp. SN 678,383. Pub. 5-31-55. Filed 12-15-54.
- 610,996. CC AND DESIGN. Components Corporation. SN 678,599. Pub. 5-24-55. Filed 12-20-54.
- 610,997. LYTCAP. Planet Manufacturing Corporation. SN 678,746. Pub. 5-31-55. Filed 12-21-54.
- 610,998. GLASSBESTOS. Raybestos-Manhattan, Inc. SN 679,176. Pub. 5-31-55. Filed 12-30-54.
- 610,999. SURRETTE REZISTOX. Surrette Storage Battery Co. Inc. SN 679,194. Pub. 5-31-55. Filed 12-30-54.
- 611,000. GEN RUB AND DESIGN. The General Tire & Rubber Company. SN 679,224. Pub. 5-31-55. Filed 12-31-54.
- 611,014. EASY WAY. Simon Deringer, d. b. a. Easy Way Stamper Machine Co. SN 663,643. Pub. 5-24-55. Filed 3-31-54.
- 611,015. RANGELANDER "A MOWER YOU WILL BE PROUD TO RIDE" AND DESIGN. Root Manufacturing Co., Inc. SN 663,681. Pub. 5-31-55. Filed 3-31-54.
- 611,016. ACE ROCKET. Ideal Roller and Manufacturing Company. SN 667,528. Pub. 5-31-55. Filed 6-2-54.
- 611,017. ASTRA. Graham Machine Tool Co. SN 668,169. Pub. 5-24-55. Filed 6-14-54.
- 611,018. STANLEY HANDYMAN AND DESIGN. The Stanley Works. SN 668,282. Pub. 5-24-55. Filed 6-15-54.
- 611,019. TRAC TOW BAR. Norman E. Knapp, d. b. a. Knapp Plow Company. SN 669,451. Pub. 5-24-55. Filed 7-6-54.
- 611,020. HY-KURE. Sterwin Chemicals Inc. SN 671,537. Pub. 5-24-55. Filed 8-11-54.
- 611,021. HYDROMIX. Industrial Research & Design, Inc. SN 673,452. Pub. 5-31-55. Filed 9-20-54.
- 611,022. FINIS. J. N. Eberle & Co., A. G. SN 673,733. Pub. 5-24-55. Filed 9-24-54.
- 611,023. ROLCUT. Carl E. Malone and Hugh M. Sutton. SN 673,763. Pub. 5-24-55. Filed 9-24-54.
- 611,024. DURCON. The Durlon Company, Inc. SN 674,233. Pub. 5-31-55. Filed 10-4-54.
- 611,025. VACUUMATIC. Electro-Snap Switch & Mfg. Co. SN 674,379. Pub. 5-24-55. Filed 10-6-54.
- 611,026. NATIONAL. National Lift Company. SN 674,412. Pub. 5-31-55. Filed 10-6-54.
- 611,027. ALTEN. Alten Foundry & Machine Works, Inc. SN 674,433. Pub. 5-31-55. Filed 10-7-54.
- 611,028. ARTCRAFT. Aircraft Industries. SN 674,720. Pub. 5-24-55. Filed 10-13-54.
- 611,029. FLEXO. E. L. Caldwell & Sons. SN 674,938. Pub. 5-24-55. Filed 10-18-54.
- 611,030. ROBO-WRAP. Counsel Machine Company, Inc. SN 674,946. Pub. 5-24-55. Filed 10-18-54.
- 611,031. PIT-BULL. Midwestern Industries, Inc. SN 674,985. Pub. 5-24-55. Filed 10-18-54.
- 611,032. PIT-BULL AND DESIGN (REPRESENTATION OF A BULL-DOG). Midwestern Industries, Inc. SN 674,986. Pub. 5-24-55. Filed 10-18-54.

## CLASS 23

- 611,001. VAC-TIE. Vac-Tie Fasteners, Inc. SN 635,334. Pub. 5-24-55. Filed 9-16-52.
- 611,002. "ITS THE CURVE THAT COUNTS." B. I. Weller Co. SN 637,966. Pub. 5-24-55. Filed 11-12-52.
- 611,003. CRE-ME. Measure Master Co. SN 640,294. Pub. 5-24-55. Filed 1-2-53.
- 611,004. CHEMIZON. Podbielniak, Inc. SN 653,995. Pub. 5-31-55. Filed 9-30-53.
- 611,005. PETROZON. Podbielniak, Inc. SN 653,996. Pub. 5-31-55. Filed 9-30-53.
- 611,006. ZYMOZON. Podbielniak, Inc. SN 653,997. Pub. 5-31-55. Filed 9-30-53.
- 611,007. TERRALOAD'R. American Tractor Corporation. SN 654,710. Pub. 5-24-55. Filed 10-14-53.
- 611,008. REPRESENTATION OF A ROBOT WITHIN DIAMOND DESIGN. Laukhuff Manufacturing Corp. SN 659,931. Pub. 5-31-55. Filed 1-22-54.
- 611,009. STAMPMASTER. Electric Vendors, Inc. SN 661,560. Pub. 5-24-55. Filed 2-24-54.
- 611,010. HUFFORD. Hufford Machine Works, Inc. SN 662,314. Pub. 5-24-55. Filed 3-9-54.
- 611,011. FORMATIC. Esther P. Winter, d. b. a. Winter Engineering Company, to Beardsley-Piper Company. SN 662,406. Pub. 5-24-55. Filed 3-10-54.
- 611,012. DOGGONE GOOD TOOLS AND DESIGN. Duro Metal Products Co. SN 662,425. Pub. 5-24-55. Filed 3-11-54.
- 611,013. TUFFER AND DESIGN. Howard Brother's Manufacturing Company. SN 663,577. Pub. 5-24-55. Filed 3-30-54.

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## CLASS 24

- 611,033. SHIELDS AND DESIGN (REPRESENTATION OF A SHIELD). Shields Engineering & Mfg. Co. SN 676,670. Pub. 5-24-55. Filed 11-15-54.
- 611,034. "DATEX." Gibraltar Fabrics, Inc. SN 676,949. Pub. 5-24-55. Filed 11-19-54.

## CLASS 26

- 611,035. ROL-A-FACTOR AND DESIGN. Thomas E. Forster, Jr., d. b. a. Forster Manufacturing Company. SN 654,536. Pub. 5-24-55. Filed 10-12-53.
- 611,036. STREAMLINER. General Aniline & Film Corporation. SN 657,422. Pub. 5-24-55. Filed 12-4-53.
- 611,037. TEMP'N TIME. Robertshaw-Fulton Controls Company. SN 659,662. Pub. 5-24-55. Filed 1-18-54.
- 611,038. HEATELL. John A. Chambliss. SN 661,871. Pub. 5-24-55. Filed 3-2-54.
- 611,039. EXPLORER. Bolsey Corporation of America. SN 674,049. Pub. 5-31-55. Filed 9-30-54.
- 611,040. DECISION. The Minnesota Electronics Corporation. SN 674,084. Pub. 5-31-55. Filed 9-30-54.
- 611,041. DESIGN OF A CAT. Andrew G. Berpsik, d. b. a. Kounting-Kat Co. SN 674,654. Pub. 5-31-55. Filed 10-12-54.

## CLASS 27

- 611,042. COSMOPOLITAN. Suter Watch Factory Inc. SN 658,753. Pub. 5-31-55. Filed 12-29-53.
- 611,043. MOTHER GOOSE. Utility Plastic Products Co., d. b. a. Utility Clock Company. SN 660,514. Pub. 5-31-55. Filed 2-2-54.
- 611,044. AQUATITE. Dennison Watch Case Company Limited. SN 666,337. Pub. 5-24-55. Filed 5-14-54.



- 611,045. ALSTA. Alstater Watch Corp. SN 668,006. Pub. 5-24-55. Filed 6-10-54.  
 611,046. BUCKERINA. The Ball Company. SN 674,812. Pub. 5-24-55. Filed 10-5-54.  
 611,047. LADURA. Ludwig Hummel, d. b. a. Lacher & Co. SN 674,677. Pub. 5-24-55. Filed 10-12-54.  
 611,048. WATERAMA. Wyler Watch Agency, Inc. SN 675,045. Pub. 5-24-55. Filed 10-18-54.

## CLASS 28

- 611,049. INKY DINKY. Ice Follies Novelty Company. SN 654,218. Pub. 5-24-55. Filed 10-5-53.  
 611,050. TEN-N-TEENS. Arké Inc. SN 658,377. Pub. 5-24-55. Filed 12-22-53.  
 611,051. DUET LOCK. Kushner & Pines, Inc. SN 661,282. Pub. 5-31-55. Filed 2-18-54.  
 611,052. SILCOA WITH CROWN AND KEY DESIGN. Sol Goldfeder. SN 663,181. Pub. 5-31-55. Filed 3-24-54.  
 611,053. KTF INDUSTRIAL PRODUCTS AND DESIGN (REPRESENTATION OF A CROWN). Trifari, Krussman & Fishel, Inc. SN 668,948. Pub. 5-24-55. Filed 6-25-54.  
 611,054. AIRFLEX. French Jewelry Co. SN 673,018. Pub. 5-31-55. Filed 9-10-54.  
 611,055. GUARDIAN ANGEL. Axel Bros., Inc. SN 673,159. Pub. 5-31-55. Filed 9-14-54.  
 611,056. VANESSA. Onelda, Ltd. SN 674,185. Pub. 5-31-55. Filed 10-1-54.  
 611,057. CONTRAST. Rogers, Lunt & Bowlen Company, d. b. a. Lunt Silversmiths. SN 674,353. Pub. 5-31-55. Filed 10-5-54.  
 611,058. EXECUTIVE. Carl Helwig, d. b. a. Helwig Products. SN 674,816. Pub. 5-24-55. Filed 10-14-54.

## CLASS 29

- 611,059. BAKER'S 3 4 1 AND DESIGN. Baker Brush Co., Inc. SN 626,230. Pub. 5-24-55. Filed 3-11-52.  
 611,060. COSHAM WITHIN OVAL. Lowndes Products, Inc. SN 649,719. Pub. 5-24-55. Filed 7-2-53.  
 611,061. O-CEDAR EVERY-WHICH-WAY AND DESIGN. (REPRESENTATION OF A TRIANGLE, ETC.). O-Cedar Corp'n., to American-Marletta Company. SN 662,884. Pub. 5-24-55. Filed 3-18-54.  
 611,062. BIDDIE BROOM. Richard H. Champlin, d. b. a. Champco. SN 673,645. Pub. 5-24-55. Filed 9-23-54.

## CLASS 30

- 611,063. DUO-GRIP. Shenango Pottery Company. SN 673,775. Pub. 5-24-55. Filed 9-24-54.  
 611,064. MICRO-MIX. Shenango Pottery Company. SN 673,776. Pub. 5-24-55. Filed 9-24-54.  
 611,065. STA-GLAZE. Shenango Pottery Company. SN 673,777. Pub. 5-24-55. Filed 9-24-54.  
 611,066. UNI-TROL. Shenango Pottery Company. SN 673,778. Pub. 5-24-55. Filed 9-24-54.  
 611,067. HOLLYWOOD PARTYPLATE AND DESIGN. National Silver Company. SN 675,089. Pub. 5-24-55. Filed 10-19-54.

## CLASS 31

- 611,068. INLAND MARINE AND DESIGN (FANCIFUL). Inland Marine Corporation. SN 658,286. Pub. 5-24-55. Filed 12-21-53.  
 611,069. CENTURY. Century Softener Corp. SN 661,057. Pub. 5-17-55. Filed 2-15-54.  
 611,070. MAXIMUM REFRIGERATION EFFICIENCY DOLE, ETC. AND DESIGN. Dole Refrigerating Company. SN 661,988. Pub. 5-24-55. Filed 3-4-54.  
 611,071. DORFAN DUST AND FUME CONTROL SYSTEMS AND DESIGN. Mechanical Industries, Inc. SN 669,275. Pub. 5-24-55. Filed 7-1-54.  
 611,072. SUPER-WALL. Sears, Roebuck and Co. SN 673,389. Pub. 5-10-55. Filed 9-17-54.  
 611,073. STERIL-AQUA AND DESIGN (REPRESENTATION OF A DROP OF WATER). Selas Corporation of America. SN 673,773. Pub. 5-24-55. Filed 9-24-54.

## CLASS 32

- 611,074. MP AND DESIGN. Merchandise Presentation, Incorporated. SN 652,786. Pub. 5-24-55. Filed 9-4-53.  
 611,075. AIR-FOLD LOUNGE. Products Sales, Inc. SN 667,254. Pub. 5-24-55. Filed 5-27-54.  
 611,076. WALLETTE. Joseph F. Mazzei. SN 667,413. Pub. 5-17-55. Filed 6-1-54.  
 611,077. NESTAWAY. Rollway Grandstand Corp. SN 670,311. Pub. 5-24-55. Filed 7-20-54.  
 611,078. DECRADESKS. Anderson School Equipment Company. SN 674,125. Pub. 5-24-55. Filed 10-1-54.  
 611,079. BALORA. Davey Metals, Inc. SN 674,325. Pub. 5-24-55. Filed 10-5-54.  
 611,080. BALORA ORIGINAL. Davey Metals, Inc. SN 674,326. Pub. 5-24-55. Filed 10-5-54.  
 611,081. TRI-LEVEL. American Feather Products. SN 674,434. Pub. 5-24-55. Filed 10-7-54.  
 611,080. BALORA ORIGINALS. Davey Metals, Inc. SN 674,434. Pub. 5-24-55. Filed 10-7-54.  
 611,083. PEASANT PROVINCIAL. Drexel Furniture Company. SN 674,667. Pub. 5-24-55. Filed 10-12-54.  
 611,084. POLY-NET. Rockwell Spring and Axle Company. SN 674,767. Pub. 5-24-55. Filed 10-13-54.

## CLASS 34

- 611,085. GROUP OF VENTURI BURNERS. Roberts-Gordon Appliance Corporation. SN 653,650. Pub. 5-24-55. Filed 9-23-53.  
 611,086. HOMEGUARD. Luxra Company. SN 655,841. Pub. 5-24-55. Filed 11-4-53.  
 611,087. BELLAIR. Packard-Bell Company. SN 661,098. Pub. 5-17-55. Filed 2-15-54.  
 611,088. KOOK-OUT. Kamkap, Inc. SN 671,570. Pub. 5-24-55. Filed 8-12-54.  
 611,089. FIRE VALVE. The Swartwout Company. SN 671,968. Pub. 5-24-55. Filed 8-19-54.

## CLASS 35

- 611,090. RED ARROW. Hancock Manufacturing, Inc. SN 670,785. Pub. 5-24-55. Filed 7-29-54.  
 611,091. TUFF-LITE. Industrial Plastic Company. SN 677,569. Pub. 5-24-55. Filed 12-1-54.  
 611,092. S.T. Dunlop Tire and Rubber Corporation. SN 677,948. Pub. 5-24-55. Filed 12-8-54.  
 611,093. CAPRI. The Gates Rubber Company. SN 678,027. Pub. 5-24-55. Filed 12-9-54.  
 611,094. PARA-LIFT. United States Rubber Company. SN 678,062. Pub. 5-24-55. Filed 12-9-54.  
 611,095. PETROCHEM. Quaker Rubber Corporation, Division of H. K. Porter Co. Inc. of Pittsburgh. SN 678,260. Pub. 5-24-55. Filed 12-13-54.  
 611,096. CARVEYOR. The Goodyear Tire & Rubber Company. SN 678,324. Pub. 5-24-55. Filed 12-14-54.  
 611,097. DURA-TEL. American Steel Foundries. SN 678,585. Pub. 5-24-55. Filed 12-20-54.

## CLASS 37

- 611,098. KEMKOR AND DESIGN. Union Bag & Paper Corporation. SN 661,743. Pub. 5-10-55. Filed 2-26-54.

## CLASS 38

- 611,099. SCHENLEY. Schenley Industries, Inc. SN 660,899. Pub. 5-24-55. Filed 2-10-54.  
 611,100. FABULOUS IMMIGRANTS. Ross Frisco. SN 662,094. Pub. 5-24-55. Filed 3-5-54.  
 611,101. SNOWBALL. Norcross, Inc. SN 662,133. Pub. 8-10-54. Filed 3-5-54.  
 611,102. MUNSON MERRY-GO-ROUND. Munson, Inc. SN 663,934. Pub. 5-24-55. Filed 4-5-54.  
 611,103. PYGMY. Paxton-Slade Publishing Corp. SN 668,781. Pub. 5-24-55. Filed 6-23-54.  
 611,104. 7th AVENUE. 7th Avenue Publications, Inc. SN 670,984. Pub. 5-24-55. Filed 8-2-54.  
 611,105. PHOTORAMA. Gevaert Photo-Producten N. V. SN 673,092. Pub. 5-24-55. Filed 9-13-54.

## CLASS 39

- 611,106. CHAMPS ELYSÉES. American Vitos Co., Inc. SN 635,735. Pub. 9-29-53. Filed 9-25-52.  
 611,107. CAMEO TONES. Superba Cravats, Inc. SN 658,342. Pub. 5-24-55. Filed 12-21-53.  
 611,108. DUROGAB. Marlboro Shirt Company, Inc. SN 659,418. Pub. 5-24-55. Filed 1-13-54.  
 611,109. LOOP-O-VER AND DESIGN (GEOMETRICAL). Closter Mills, Inc. SN 661,263. Pub. 5-17-55. Filed 2-18-54.  
 611,110. COZY MOCS. Mrs. Day's Ideal Baby Shoe Company, Inc. SN 661,555. Pub. 5-17-55. Filed 2-24-54.  
 611,111. LETTER BUCK MILLER DENVER AND DESIGN. Miller & Co. SN 663,931. Pub. 5-24-55. Filed 4-5-54.  
 611,112. HARD BOILED AND DESIGN (HAT). E. D. Bulard Company. SN 673,077. Pub. 5-24-55. Filed 9-13-54.  
 611,113. DURAFLEX. Bear Brand Hosiery Co. SN 673,421. Pub. 5-17-55. Filed 9-20-54.  
 611,114. MERITEX. Mishawaka Rubber and Woolen Manufacturing Company. SN 673,537. Pub. 5-17-55. Filed 9-21-54.  
 611,115. TRU-EZE. New York Brassiere Co., Inc. SN 674,993. Pub. 5-17-55. Filed 10-18-54.

## CLASS 40

- 611,116. E-Z TRIM. William E. Wright & Sons Company. SN 670,017. Pub. 5-24-55. Filed 7-14-54.

## CLASS 41

- 611,117. STARLITE AND REPRESENTATION OF A STAR. Friedman & Sons. SN 668,091. Pub. 5-10-55. Filed 6-11-54.

## CLASS 42

- 611,118. OVERLAND FABRICS AND DESIGN. Overland Fabrics. SN 651,857. Pub. 5-24-55. Filed 8-14-53.  
 611,119. MOREWEAR ELASTIC FABRICS, ETC., AND DESIGN. George C. Moore Company. SN 658,071. Pub. 5-24-55. Filed 12-16-53.  
 611,120. SCRAMBLE. Copley Fabrics, Inc. SN 662,081. Pub. 11-2-54. Filed 3-5-54.  
 611,121. SCRABBLE. Production and Marketing Company. SN 662,565. Pub. 11-2-54. Filed 3-12-54.  
 611,122. GRANDESSA. Botany Mills, Inc. SN 664,268. Pub. 5-24-55. Filed 4-14-54.  
 611,123. TUMBLE WEVE. Belrug Mills, Inc. SN 665,090. Pub. 5-24-55. Filed 4-23-54.  
 611,124. LAMALOFT. Chatham Manufacturing Company. SN 665,184. Pub. 9-7-54. Filed 4-26-54.  
 611,125. MOKALYN AND DESIGN. Marcel Wagner Gloves, Inc. SN 665,874. Pub. 5-24-55. Filed 5-6-54.  
 611,126. CRYLOR. Societe Rhodiaceta. SN 668,789. Pub. 4-12-55. Filed 6-23-54.  
 611,127. PDP. Holtsman Carpet Shops, Inc. SN 671,156. Pub. 5-24-55. Filed 8-5-54.  
 611,128. TUFTRONIC. C. H. Masland and Sons. SN 673,535. Pub. 5-17-55. Filed 9-21-54.  
 611,129. M.I.F. IN OVAL. Jack Jacoby Co., Inc. SN 674,392. Pub. 5-24-55. Filed 10-6-54.  
 611,130. PERX. The Kendall Company. SN 674,394. Pub. 5-24-55. Filed 10-6-54.  
 611,131. RYMPLECLOTH. The Kendall Company. SN 674,395. Pub. 5-24-55. Filed 10-6-54.  
 611,132. BRODERINA. United Merchants and Manufacturers, Inc. SN 674,430. Pub. 5-24-55. Filed 10-6-54.  
 611,133. BORDILLA. United Merchants and Manufacturers, Inc. SN 674,431. Pub. 5-24-55. Filed 10-6-54.  
 611,134. VELUJO. United Merchants and Manufacturers, Inc. SN 674,432. Pub. 5-24-55. Filed 10-6-54.  
 611,135. FABRICUSHON. Andrews-Alderfer Company. SN 674,435. Pub. 5-24-55. Filed 10-7-54.  
 611,136. REGULATED. Regulated Cottons, Inc. SN 674,476. Pub. 5-24-55. Filed 10-7-54.  
 611,137. BLACK MAGIC. American Woolen Company, now by merger and change of name Textron American, Inc. SN 674,865. Pub. 5-24-55. Filed 10-15-54.

- 611,138. RAMORA. American Woolen Company, now by merger and change of name Textron American, Inc. SN 674,866. Pub. 5-24-55. Filed 10-15-54.

## CLASS 44

- 611,139. ARTHRHUMA. John Stevens. SN 672,022. Pub. 5-24-55. Filed 8-20-54.  
 611,140. UNI-SWABS. Sterl-Swabs Inc. SN 672,188. Pub. 5-24-55. Filed 8-24-54.

## CLASS 46

- 611,141. ALMOND CRUNCH. Zion Industries, Inc. SN 594,419. Pub. 5-31-55. Filed 3-22-50.  
 611,142. DAIRY DREAM. George F. Barthe, d. b. a. B & G Products Company. SN 608,264. Pub. 5-24-55. Filed 1-2-51.  
 611,143. ALL-NUT. E. F. Drew & Co., Inc. SN 618,346. Pub. 5-3-55. Filed 9-4-51.  
 611,144. BOSS. E. J. Russell, d. b. a. Russell Packing Company. SN 622,659. Pub. 5-31-55. Filed 12-18-51.  
 611,145. TOPPER. Eskimo Pie Corporation. SN 634,580. Pub. 5-31-55. Filed 8-28-52.  
 611,146. KUSTOM KUT. White Star Market & Grocery, Inc. SN 643,931. Pub. 5-24-55. Filed 3-19-53.  
 611,147. BAG-O-SWEET. The Great Western Sugar Company. SN 645,477. Pub. 5-31-55. Filed 4-17-53.  
 611,148. CURLEY'S FAMOUS HICKORY BURGERS AND DESIGN. Christa M. Atwood. SN 648,268. Pub. 5-24-55. Filed 5-5-53.  
 611,149. REDCHAIN VITA-GREEN. Universal Mills. SN 651,477. Pub. 5-31-55. Filed 8-6-53.  
 611,150. TEETHING BISCUITS AND DESIGN. Gerber Products Company. SN 653,474. Pub. 5-31-55. Filed 9-21-53.  
 611,151. REPRESENTATION OF A TRUMPETER AND DESIGN. W. & R. Jacob & Co. (Liverpool) Limited. SN 655,062. Pub. 5-31-55. Filed 10-20-53.  
 611,152. CHOW. Ralston Purina Company. SN 655,602. Pub. 5-31-55. Filed 10-30-53.  
 611,153. CAREY AND DESIGN. The Carey Salt Company. SN 656,206. Pub. 5-24-55. Filed 11-12-53.  
 611,154. VITA PEL. Clifford W. Butler, d. b. a. Chaparral Chinchilla Ranch. SN 656,880. Pub. 5-24-55. Filed 11-24-53.  
 611,155. CHEF'S DELIGHT BRAND. Superb Food Products. SN 657,810. Pub. 5-24-55. Filed 12-10-53.  
 611,156. OLE WILLIAMSBURG. L. W. High, d. b. a. Ole Williamsburg Packing Plant. SN 659,548. Pub. 5-24-55. Filed 1-15-54.  
 611,157. HERBAGEUM. Galt Chemical Products Limited. SN 660,129. Pub. 5-31-55. Filed 1-26-54.  
 611,158. TOP DOLLAR. Hall, Haas & Vessey, Ltd. SN 660,652. Pub. 5-31-55. Filed 2-5-54.  
 611,159. KING CAVY AND DESIGN. A. Cavagnaro, Inc. SN 661,056. Pub. 5-31-55. Filed 2-15-54.  
 611,160. PEE DEE AND DESIGN. Pee Dee Company. SN 661,286. Pub. 5-24-55. Filed 2-18-54.  
 611,161. PEE DEE. Pee Dee Company. SN 661,287. Pub. 5-24-55. Filed 2-18-54.  
 611,162. BARI AND DESIGN. California Olive Oil Manufacturing Co. SN 662,069. Pub. 5-24-55. Filed 3-5-54.  
 611,163. OH HENRY! COCONUT ROLL. Williamson Candy Company. SN 662,344. Pub. 5-24-55. Filed 3-9-54.  
 611,164. DIME-ETTE. American Bakeries Company. SN 663,335. Pub. 5-31-55. Filed 3-26-54.  
 611,165. FRATE. Campbell Soup Company. SN 663,630. Pub. 5-31-55. Filed 3-31-54.  
 611,166. RENOWN. St. Clair Foods Co., Ltd. SN 664,186. Pub. 5-31-55. Filed 4-8-54.  
 611,167. 3D AND DESIGN (INANIMATE). Coble Dairy Products, Inc. SN 664,595. Pub. 5-31-55. Filed 4-15-54.  
 611,168. FU-SHOU. Fu-Shou Products, to Fu-Shou Products, a firm composed of Jane B. Johnson and Kuei Pao Huang. SN 664,750. Pub. 5-24-55. Filed 4-19-54.



611,169. SPRING TIME MAGIC AND DESIGN. Roscoe C. Zuckerman, d. b. a. Middle River Warehouse Co. SN 664,823. Pub. 5-24-55. Filed 4-19-54.

611,170. MATTHEWS MIRACLE MILK MAKER AND DESIGN. Geo. B. Matthews & Sons, Inc. SN 665,429. Pub. 5-31-55. Filed 4-29-54.

611,171. SHIELDS AND SHIELD DESIGN. Ernest F. Shields, d. b. a. Shields Date Gardens. SN 665,528. Pub. 5-31-55. Filed 4-30-54.

611,172. UPSIDE-DOWN. Interstate Bakeries Corporation. SN 665,598. Pub. 5-31-55. Filed 5-3-54.

611,173. PENN MAID AND DESIGN (REPRESENTATION OF A COW). Penn Maid Dairy Products. SN 667,977. Pub. 4-5-55. Filed 6-9-54.

611,174. GRANDMA'S SPANISH SEASONING AND DESIGN (WOMAN). Margaret C. Burden, d. b. a. Mrs. M. Burden and as Grandma's Spanish Pepper Co. SN 670,656. Pub. 5-24-55. Filed 7-27-54.

611,175. SHUREGOOD. Mt. Adams Orchards Company. SN 670,691. Pub. 5-31-55. Filed 7-27-54.

611,176. CLIMATIZED. Gulf Salt Company. SN 671,564. Pub. 5-31-55. Filed 8-12-54.

611,177. PENN MAID. Penn Maid Dairy Products. SN 672,348. Pub. 3-29-55. Filed 8-27-54.

611,178. GORDY'S. Gordy Salt Company, Inc. SN 672,416. Pub. 5-31-55. Filed 8-30-54.

611,179. GIRL IN THE MOON SILHOUETTE. Miller Brewing Company. SN 672,833. Pub. 5-31-55. Filed 9-7-54.

611,180. WHITE'S. Swift & Company, d. b. a. White Provision Company. SN 673,063. Pub. 5-31-55. Filed 9-10-54.

611,181. BILL STERN'S. Bill Stern's Famous Brands, Inc. SN 673,139. Pub. 5-31-55. Filed 9-13-54.

611,182. MOLFETTA. Dominick Sparvieri. SN 673,252. Pub. 5-31-55. Filed 9-15-54.

611,183. BUDDY BOY. Bud, Inc., d. b. a. Bud Antle. SN 673,334. Pub. 5-31-55. Filed 9-17-54.

611,184. VACO-PAK. Farmers Produce, Inc. SN 673,735. Pub. 5-31-55. Filed 9-24-54.

611,185. OCEAN SUN BRAND. Atlanta Trading Corp. SN 673,892. Pub. 5-31-55. Filed 9-28-54.

611,186. AZALEA . . . THE PRIDE OF MOBILE! AND DESIGN. H. M. Thames Pecan Company, Inc. SN 674,198. Pub. 5-31-55. Filed 10-1-54.

611,187. EXCELSIOR. Kraft Foods Company. SN 674,260. Pub. 5-31-55. Filed 10-4-54.

611,188. RABBIT DESIGN. Kraft Foods Company. SN 674,262. Pub. 5-31-55. Filed 10-4-54.

611,189. JUICYBURGER AND DESIGN. Albert A. Patrick, d. b. a. Juicyburger Products Company. SN 674,527. Pub. 5-31-55. Filed 10-8-54.

611,190. SILVER SANDS RANCH. Jane B. Rehrig. SN 674,529. Pub. 5-31-55. Filed 10-8-54.

611,191. POLZIA. Tobin Packing Co., Inc. SN 674,540. Pub. 5-24-55. Filed 10-8-54.

611,192. NO. 19 AND DESIGN. Fisher Cheese Company. SN 675,062. Pub. 5-31-55. Filed 10-19-54.

611,193. YUMA SKY. Bruce Church, Inc. SN 675,204. Pub. 5-24-55. Filed 10-21-54.

611,194. CERTS. American Chic Company. SN 675,244. Pub. 5-24-55. Filed 10-22-54.

611,195. SUNRICH. Kellogg Company. SN 675,287. Pub. 5-31-55. Filed 10-22-54.

611,196. SPUD-OVER. Pelton's Spudnuts, Incorporated. SN 675,422. Pub. 5-24-55. Filed 10-25-54.

611,197. RAGGEDY ANN. Raggedy Ann Corporation, to Certified Grocers of Illinois, Inc. SN 675,589. Pub. 5-31-55. Filed 10-27-54.

611,198. FULL TIDE. California Consumers Corporation. SN 676,176. Pub. 5-31-55. Filed 11-8-54.

611,199. CONCORDIA. General Preserve Company, Inc. SN 676,312. Pub. 5-31-55. Filed 11-9-54.

611,200. MISS PROTEIN. King's Bakery, Inc. SN 676,638. Pub. 5-31-55. Filed 11-15-54.

611,201. FAMOUS INN. Standard Brands Incorporated. SN 676,672. Pub. 5-31-55. Filed 11-15-54.

611,202. PRIMULA AND DESIGN. O. Kavli A/S. SN 678,075. Pub. 5-31-55. Filed 12-8-54.

611,203. PRIMULA. O. Kavli A/S. SN 678,076. Pub. 5-31-55. Filed 12-8-54.

## CLASS 51

611,204. "LA DUCALE." Societa in Nome Collettivo "La Ducale." SN 627,296. Pub. 5-31-55. Filed 1-26-52.

611,205. HELEN WARD. Mil-Hi Laboratories, Inc. SN 633,070. Pub. 9-15-53. Filed 7-25-52.

611,206. SLS. Amm-I-Dent, Inc. SN 652,751. Pub. 5-31-55. Filed 9-4-53.

611,207. FOAM BALM AND DESIGN. The Mennen Company. SN 657,285. Pub. 5-31-55. Filed 12-2-53.

611,208. SAFETICOTE. American Optical Company. SN 659,759. Pub. 5-31-55. Filed 1-20-54.

611,209. STALEY'S CREAM. A. E. Staley Manufacturing Company. SN 663,067. Pub. 5-31-55. Filed 3-22-54.

611,210. BEAUTIFUL CROWN. J. Strickland & Co. SN 666,073. Pub. 5-31-55. Filed 5-10-54.

611,211. HEADSPIN. Ashe Laboratories Limited. SN 667,490. Pub. 5-31-55. Filed 6-2-54.

611,212. ESCAPADE. Shulton, Inc. SN 667,749. Pub. 3-1-55. Filed 6-4-54.

611,213. ADATONE. Ruth Adams. SN 669,230. Pub. 5-31-55. Filed 7-1-54.

611,214. SUN'N SAND. Jacqueline Cochran, Incorporated, d. b. a. Jacqueline Cochran. SN 672,802. Pub. 5-31-55. Filed 9-7-54.

611,215. CASHMERE BOUQUET PRETTI-QUIK AND DESIGN. Colgate-Palmolive Company. SN 674,500. Pub. 5-31-55. Filed 10-8-54.

611,216. SECOND LOOK. Colgate-Palmolive Company. SN 674,501. Pub. 5-31-55. Filed 10-8-54.

611,217. SCORCHER. Olin Mathieson Chemical Corporation, to Lenthier, Inc. SN 674,829. Pub. 5-31-55. Filed 10-14-54.

## CLASS 52

611,218. GLORY. Swift & Company. SN 671,215. Pub. 5-24-55. Filed 8-5-54.

611,219. SOFSAN. West Disinfecting Company. SN 675,187. Pub. 5-24-55. Filed 10-20-54.

## Service Marks

## CLASS 100

611,220. JBC. PROGRESS THROUGH RESEARCH AND DESIGN. Jose B. Calva, d. b. a. J. B. Calva & Co. SN 605,404. Pub. 5-31-55. Filed 10-25-50.

## CLASS 101

611,221. HENRY L. JOYNT. Henry L. Joynt, Inc. SN 638,421. Pub. 5-31-55. Filed 11-21-52.

611,222. ADSURANCE AND DESIGN. Adsurance, Inc. SN 641,535. Pub. 11-16-54. Filed 1-30-53.

## CLASS 102

611,223. DESIGN OF ROOSTER. Nelle Lee, d. b. a. McCary Associates. SN 670,743. Pub. 5-31-55. Filed 7-28-54.

## CLASS 103

611,224. SERVICE BY HAMILTON. Hamilton Watch Company. SN 654,457. Pub. 5-31-55. Filed 10-9-53.

611,225. PROTECTION WHEN IT COUNTS AND DESIGN. Kermit B. Buck. SN 662,845. Pub. 5-31-55. Filed 3-18-54.

## CLASS 105

611,226. VANLINERS. Bekins Van Lines Co. SN 659,595. Pub. 5-31-55. Filed 1-18-54.

## CLASS 106

611,227. SUPER VAC. West Coast Precooling. SN 672,707. Pub. 5-31-55. Filed 9-2-54.

## CLASS 107

611,228. SECOND HONEYMOON AND DESIGN. Telerad Corporation of America. SN 676,771. Pub. 5-31-55. Filed 11-16-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 1

611,229. The Livingston Seed Company, Columbus, Ohio. SN 652,025. Filed P. R. 8-19-53. Am. S. R. 7-5-55.

## CLASS 27

611,233. The Weldon Watch Company, Inc., New York, N. Y. SN 654,361. Filed P. R. 10-7-53. Am. S. R. 6-10-55.

# 5-PAK

For Lawn Seed.  
Use since Jan. 13, 1953.

## CLASS 9

611,230. Aguirre y Aranzabal, S. R. C., Elbar (Guipuzcoa), Spain. SN 614,481. Filed P. R. 5-29-51. Am. S. R. 11-17-53.

## AGUIRRE Y ARANZABAL

For Firearms—Namely, Carbines, Rifles, Shot Guns, Pistols, and Revolvers.  
Use since July 1939.

## CLASS 19

611,231. Don Allen, Buffalo, N. Y. SN 677,539. Filed 12-1-54.

WE WILL BE HERE TOMORROW

TO BACK UP WHAT WE  
DO AND SAY  
TODAY

For New and Used Passenger Automobile and Motor Vehicle Trucks.  
Use since Apr. 6, 1949.

## CLASS 26

611,232. Gramercy Import Company, Inc., New York, N. Y. SN 668,092. Filed 6-11-54.

# RIEFLER

For Precision Drawing Instruments—Namely, Box Compasses, Dropspring Compasses, Beam Compasses, Ruling Pens, and Friction Dividers.  
Use since Jan. 5, 1948.

# WELDON

For Watches.  
Use since Sept. 1, 1953.

## CLASS 28

611,234. Medicated Products Co., d. b. a. Donald Bruce Company, Chicago, Ill. SN 668,400. Filed P. R. 6-17-54. Am. S. R. 6-24-55.



## PRECIOUS JEWELS

by Milano

For Costume Jewelry Consisting of Necklaces, Earrings, Bracelets, and Sets Thereof.  
Use since June 1, 1953.

## CLASS 32

611,235. Executive Furniture Guild of America, Grand Rapids, Mich. SN 611,221. COLLECTIVE MARK. Filed P. R. 3-13-51. Am. S. R. 3-29-52.



For Office Furniture—Namely, Desks, Table Units, Cabinet Units, Shelf Units, Filing Units, Seating Units, and Mirrors.  
Use since Oct. 1, 1948.

## CLASS 37

611,236. James Weiss, d. b. a. Master Products Company, Chicago, Ill. SN 661,382. Filed P. R. 2-19-54. Am. S. R. 1-11-55.

## Folder-Form

For Stencils.  
Use since Oct. 10, 1946.



## CLASS 39

611,237. Bernhard Altmann, New York, N. Y., to The Bernhard Altmann Corporation, New York, N. Y. SN 628,983. Filed P. R. 5-1-52. Am. S. R. 9-24-54.



For Men's and Ladies' Overcoats, Topcoats, and Sweaters and Cardigans, Ladies' Dresses and Men's Hosiery. Use since November 1948.

611,238. Jesse Loyd Culbertson, d. b. a. Culbertson Glove Company, Portland, Oreg. SN 653,119. Filed P. R. 9-14-53. Am. S. R. 8-19-54.

Deer-Mocs

The word "Mocs" is disclaimed apart from the mark. For Moccasins for the Use of Men, Women, and Children. Use since Aug. 10, 1953.

611,239. Ladd Knitting Mills, Inc., Reading, Pa. SN 679,297. Filed 1-3-55.

Baylor

For Ladies' Hosiery. Use since Aug. 15, 1953.

611,240. (See Class 40 for this trademark.)

## TRADEMARK REGISTRATIONS RENEWED

- |                                                            |                                                           |
|------------------------------------------------------------|-----------------------------------------------------------|
| 101,097. REPRESENTATION OF GEM. Cl. 37. 11-10-14.          | 326,098. SANKERCHIEF. Cl. 37. 7-16-35.                    |
| 101,392. MARVELOUS. Cl. 51. 12-8-14.                       | 326,601. N-E-THING. Cl. 49. 7-30-35.                      |
| 104,407. WESCOL. Cl. 6. 5-25-15.                           | 327,324. COMEX. Cl. 46. 8-20-35.                          |
| 105,115. JENKINS BROS. ETC. AND DESIGN. Cl. 13. 7-6-15.    | 327,517. INERTEEN. Cl. 21. 8-27-35.                       |
| 106,217. CLINTON ETC. AND DESIGN. Cl. 16. 10-19-15.        | 327,549. DESIGN OF WAGON, MULES AND MAN. Cl. 6. 8-27-35.  |
| 106,957. DICTATOR JULY 4 1776 AND DESIGN. Cl. 46. 11-9-15. | 327,817. BETSY AND DESIGN. Cl. 46. 9-3-35.                |
| 106,999. M. PECHTER'S AND DESIGN. Cl. 46. 11-9-15.         | 327,847. 20 MULE TEAM. Cl. 6. 9-3-35.                     |
| 107,430. PEERLESS. Cl. 46. 11-23-15.                       | 327,918. COTTON PICKER. Cl. 46. 9-10-35.                  |
| 322,136. FORAMBA AND DESIGN. Cl. 6. 2-26-35.               | 327,967. THE TOOL ENGINEER. Cl. 38. 9-10-35.              |
| 323,099. SENTINEL LOUIE. Cl. 38. 4-2-35.                   | 328,184. TP AND DESIGN. Cl. 19. 9-17-35.                  |
| 324,423. MANAMAR. Cl. 46. 5-21-35.                         | 328,335. ELECTROMET REVIEW AND DESIGN. Cl. 38. 9-24-35.   |
| 324,688. KOH-I-NOOR. Cl. 37. 5-28-35.                      | 328,482. VIRGINIA GAY FROCKS AND DESIGN. Cl. 39. 10-1-35. |
| 324,818. THE PEEL-PAIL. Cl. 2. 6-4-35.                     | 328,910. TP AND DESIGN. Cl. 13. 10-8-35.                  |
| 324,917. FLUORAZURE. Cl. 26. 6-4-35.                       | 328,961. FORTUNE. Cl. 22. 10-8-35.                        |
| 324,951. Q FYRE-MORTAR. Cl. 12. 6-4-35.                    | 329,311. PENROSE AND DESIGN. Cl. 49. 10-22-35.            |
| 325,076. BONNIE BRIGHT ETC. Cl. 39. 6-11-35.               | 329,485. FEATHERLITE BEAVER AND DESIGN. Cl. 1. 10-29-35.  |
| 325,195. ROLLS-ROYCE. Cl. 19. 6-11-35.                     | 329,528. DAVID COPPERFIELD. Cl. 37. 11-5-35.              |
| 325,316. ROLLS-ROYCE. Cl. 23. 6-18-35.                     | 329,529. TREASURE. Cl. 37. 11-5-35.                       |
| 325,346. TRIEBERT A'PARIS AND DESIGN. Cl. 36. 6-18-35.     | 329,530. TREASURE CHEST. Cl. 37. 11-5-35.                 |
| 325,361. CHEE-KIST. Cl. 37. 6-18-35.                       | 329,555. KIVAR. Cl. 37. 11-5-35.                          |
| 325,403. SHERRY NUEZ ETC. Cl. 47. 6-25-35.                 | 329,700. 482. Cl. 37. 11-5-35.                            |
| 325,442. WOTTA. Cl. 11. 6-25-35.                           |                                                           |
| 325,972. TP AND DESIGN. Cl. 23. 7-9-35.                    |                                                           |

611,241. Pinhas Broe., New York, N. Y. SN 680,407. Filed P. R. 1-24-55. Am. S. R. 6-2-55.

Anson

For Children's Pajamas. Use since April 1953.

## CLASS 40

611,240. H. Polner, Inc., Buffalo, N. Y. SN 676,907. Filed 11-18-54.

Ellicott

For Dresser Beta, Including Trays, Combs, and Brushes. Use since June 5, 1953.

## CLASS 50

611,242. Walker Metal Products Co., Harvey, Ill. SN 600,405. Filed P. R. 7-8-50. Am. S. R. 6-11-54.



For Various Garment Hangers. Use since Dec. 6, 1948.

329,798. ADHESO. Cl. 14. 11-12-35.  
329,963. LINTEX. Cl. 40. 11-19-35.  
330,006. SHAW ETC. Cl. 47. 11-19-35.

330,087. AIR CIRCLE AND DESIGN. Cl. 39. 11-19-35.  
330,104. TARSO. Cl. 39. 11-19-35.  
330,648. SA-VON. Cl. 39. 12-10-35.

## TRADEMARK REGISTRATIONS CANCELED

## Section 8

- |                                                                                  |                                                      |
|----------------------------------------------------------------------------------|------------------------------------------------------|
| 46,121. REPRESENTATION OF A THISTLE. Cl. 42. 9-5-05.                             | 318,055. "GRAPHOSTAT". Cl. 26. 10-16-34.             |
| 63,917. PARISIENNE. Cl. 39. 7-16-07.                                             | 335,337. LIDOTONE. Cl. 39. 6-2-36.                   |
| 64,205. PRINCESS MAY. Cl. 39. 7-30-07.                                           | 335,932. THE GUAYABERA. Cl. 39. 6-16-36.             |
| 74,907. VESTA. Cl. 46. 8-17-09.                                                  | 337,441. SWAGGATEENS. Cl. 39. 8-4-36.                |
| 76,957. MARATHON. Cl. 28. 3-1-10.                                                | 340,430. FULLERTON GOLD. Cl. 46. 11-10-36.           |
| 95,403. HURRICANE. Cl. 46. 2-17-14.                                              | 340,431. SILVER SUN. Cl. 46. 11-10-36.               |
| 96,761. WANAMAKER WEAR-WELL AND REPRESENTATION OF A SHOE. Cl. 39. 4-28-14.       | 340,432. WESTERN SUN. Cl. 46. 11-10-36.              |
| 110,468. RIVERSIDE AND REPRESENTATION OF A WATERFALL. Cl. 46. 5-23-16.           | 341,964. SUTTON PARK. Cl. 39. 12-29-36.              |
| 127,303. "MYSTERY". Cl. 22. 11-4-19.                                             | 342,252. CHARMING FABRICS. Cl. 42. 1-12-37.          |
| 128,209. FIFTH AVENUE LINEN AND DESIGN. Cl. 37. 12-23-19.                        | 343,328. MILLROSE. Cl. 39. 2-16-37.                  |
| 148,005. MARATHON AND DESIGN. Cl. 28. 11-8-21.                                   | 346,435. REST RIGHT. Cl. 39. 5-25-37.                |
| 162,626. FORTUNA. Cl. 46. 12-19-22.                                              | 348,359. REDLEAF. Cl. 33. 8-24-37.                   |
| 162,823. MONOGRAM AND DESIGN. Cl. 42. 12-26-22.                                  | 349,360. REDLEAF. Cl. 30. 8-24-37.                   |
| 165,805. REPRESENTATION OF A BUNNY. Cl. 42. 3-20-23.                             | 350,222. AUTO-AIDS. Cl. 37. 9-21-37.                 |
| 166,514. WAVE. Cl. 46. 4-3-23.                                                   | 352,651. PAK AID. Cl. 2. 12-7-37.                    |
| 175,176. BUNNY. Cl. 42. 10-30-23.                                                | 353,483. REAL SEAL. Cl. 37. 1-11-38.                 |
| 178,991. SUPERIOR. Cl. 46. 2-5-24.                                               | 355,564. NATURE SWEET. Cl. 46. 3-22-38.              |
| 197,867. CREAM-ILA. Cl. 37. 4-28-25.                                             | 361,831. PEELEE. Cl. 2. 11-1-38.                     |
| 198,794. BIG BILL. Cl. 45. 5-26-25.                                              | 366,231. STOW-A-WAY. Cl. 24. 4-4-39.                 |
| 200,734. CARBIT. Cl. 16. 7-7-25.                                                 | 368,229. SHEL-GLO. Cl. 2. 6-13-39.                   |
| 206,128. WANASHEER. Cl. 39. 11-24-25.                                            | 372,747. SQUARE PAK. Cl. 2. 11-14-39.                |
| 212,303. BUNNY. Cl. 46. 4-27-26.                                                 | 375,285. WANAFIT. Cl. 39. 2-13-40.                   |
| 212,414. SNAPPY PAC-KIT. Cl. 2. 5-4-26.                                          | 387,736. FAX-PAC. Cl. 39. 5-27-41.                   |
| 214,220. HAPPY HOME. Cl. 29. 6-15-26.                                            | 388,647. CITRIFOAM. Cl. 4. 7-1-41.                   |
| 219,445. HEARST'S INTERNATIONAL COMBINED WITH COSMOPOLITAN. Cl. 38. 10-19-26.    | 390,654. "SKY LASTS". Cl. 39. 9-30-41.               |
| 225,003. LE TOUQUET. Cl. 6. 3-8-27.                                              | 394,880. FIRST NIGHTER. Cl. 6. 5-5-42.               |
| 225,004. LE TOUQUET. Cl. 4. 3-8-27.                                              | 396,654. FIGHTING RED. Cl. 6. 7-28-42.               |
| 226,963. MAYFAIR TUDOR ROSE. Cl. 4. 4-26-27.                                     | 404,129. MONARVO. Cl. 39. 11-2-43.                   |
| 228,287. MARVEL AND STAG DESIGN. Cl. 22. 5-31-27.                                | 407,038. MAJOR BILL. Cl. 45. 5-16-44.                |
| 232,351. KITTY. Cl. 46. 9-6-27.                                                  | 410,467. VIKING GLASS. Cl. 50. 11-28-44.             |
| 233,071. CLIMAX AND REPRESENTATION OF A CHICK-EN. Cl. 46. 9-20-27.               | 411,593. BARANEE. Cl. 39. 1-23-45.                   |
| 236,014. RATTLE CAP ETC. AND CIRCULAR DESIGN. Cl. 6. 11-29-27.                   | 416,528. CHARMCO. Cl. 1. 9-18-45.                    |
| 236,745. FANCHON. Cl. 46. 12-20-27.                                              | 416,641. TECHNIGRAPHICS. Cl. 38. 9-25-45.            |
| 237,391. PIECES OF EIGHT. Cl. 30. 1-10-28.                                       | 417,140. REPRESENTATION OF A BABY. Cl. 42. 10-16-45. |
| 242,589. LADY CLEMENTINE. Cl. 46. 5-29-28.                                       | 428,490. NATCO. Cl. 46. 3-25-47.                     |
| 245,566. SOUTHERN AND DRAWING. Cl. 46. 8-14-28.                                  | 430,750. SIDUNA. Cl. 27. 6-24-47.                    |
| 246,411. JUNIETTE. Cl. 39. 9-4-28.                                               | 434,235. OCTA-KLOR. Cl. 6. 11-11-47.                 |
| 259,655. GREENWOOD. Cl. 46. 8-6-29.                                              | 434,736. RAILFACE. Cl. 14. 12-2-47.                  |
| 260,138. MAY DAY. Cl. 46. 8-20-29.                                               | 435,150. MERIDEX. Cl. 6. 12-9-47.                    |
| 262,270. POLK'S BEST. Cl. 46. 10-1-29.                                           | 435,809. PERMA KLEEN AND DESIGN. Cl. 32. 1-6-48.     |
| 264,723. SUPERIOR. Cl. 46. 12-3-29.                                              | 507,517. RUBE'S. Cl. 46. 3-15-49.                    |
| 281,850. ALEMITE-DOT. Cl. 23. 3-31-31.                                           | 507,518. TEXANA SUDS. Cl. 4. 3-15-49.                |
| 285,231. PECO WITHIN CIRCLE DESIGN. Cl. 23. 7-21-31.                             | 507,520. ALPINE. Cl. 22. 3-15-49.                    |
| 299,858. VANTA DOUBLE DUTY AND DRAWING LINED FOR RED AND BLUE. Cl. 39. 12-27-32. | 507,522. SUN-GLOW. Cl. 32. 3-15-49.                  |
| 300,969. REDLEAF AND DRAWING. Cl. 32. 2-14-33.                                   | 507,525. PURITAN. Cl. 21. 3-15-49.                   |
| 303,264. MENASHA FROSTY PACKIT AND DESIGN. Cl. 2. 5-16-33.                       | 507,526. REVELATION AND DESIGN. Cl. 31. 3-15-49.     |
| 311,170. THE WANA-FLEX SHOE AND DESIGN. Cl. 39. 3-13-34.                         | 507,529. RAYTHERM. Cl. 21. 3-15-49.                  |
| 315,554. BRANDY JEREZANO ETC. AND DESIGN. Cl. 49. 7-31-34.                       | 507,532. YUCATAN. Cl. 1. 3-15-49.                    |
|                                                                                  | 507,546. CHALLENGER. Cl. 29. 3-15-49.                |
|                                                                                  | 507,549. FREEDOM. Cl. 21. 3-15-49.                   |
|                                                                                  | 507,552. HEART DESIGN. Cl. 23. 3-15-49.              |
|                                                                                  | 507,560. BLUE ROSE. Cl. 6. 3-15-49.                  |
|                                                                                  | 507,562. C-S-O. Cl. 6. 3-15-49.                      |
|                                                                                  | 507,565. PALMA SOLA. Cl. 46. 3-15-49.                |
|                                                                                  | 507,579. BENNART. Cl. 29. 3-15-49.                   |
|                                                                                  | 507,585. "DEERO HORSE". Cl. 1. 3-15-49.              |
|                                                                                  | 507,596. A-Z. Cl. 46. 3-15-49.                       |
|                                                                                  | 507,597. SAN LUIS. Cl. 22. 3-15-49.                  |
|                                                                                  | 507,599. SPEE-D-MIX. Cl. 46. 3-15-49.                |



- 507,804. MONOTROL. Cl. 23. 3-15-49.  
 507,805. SMOOTHIE. Cl. 23. 3-15-49.  
 507,807. CRISPY KID AND DESIGN. Cl. 46. 3-15-49.  
 507,808. VILLAREAL. Cl. 6. 3-15-49.  
 507,809. "THREE ZONE". Cl. 21. 3-15-49.  
 507,814. WILDER-DILG. Cl. 22. 3-15-49.  
 507,815. CAROL-LINE. Cl. 32. 3-15-49.  
 507,819. BEAUTYTIME. Cl. 21. 3-15-49.  
 507,827. ZENITH. Cl. 32. 3-15-49.  
 507,829. STERLING. Cl. 22. 3-15-49.  
 507,831. ZYMEZATE. Cl. 6. 3-15-49.  
 507,834. KUMAR KLEENAR AND DESIGN. Cl. 4. 3-15-49.  
 507,842. BROWN-FLEX. Cl. 1. 3-15-49.  
 507,850. BLUE OX. Cl. 22. 3-15-49.  
 507,854. SKIM-ADE. Cl. 46. 3-15-49.  
 507,855. LA PLAYA. Cl. 46. 3-15-49.  
 507,856. PIERRE. Cl. 46. 3-15-49.  
 507,857. FLIPP-O. Cl. 22. 3-15-49.  
 507,858. FOUR TEES. Cl. 22. 3-15-49.  
 507,859. MIMI. Cl. 22. 3-15-49.  
 507,871. HEMOBIOS. Cl. 6. 3-15-49.  
 507,878. ANTHAPHYLLINE. Cl. 6. 3-15-49.  
 507,879. DRESS-AWAY. Cl. 32. 3-15-49.  
 507,885. TRAX. Cl. 4. 3-15-49.  
 507,886. RYTAB. Cl. 44. 3-15-49.  
 507,889. ROYLITE. Cl. 4. 3-15-49.  
 507,891. PHG. Cl. 6. 3-15-49.  
 507,897. COSMA KOTE. Cl. 4. 3-15-49.  
 507,899. DISTINGUISHED SERVICE. Cl. 4. 3-15-49.  
 507,701. CHEM-TUNE. Cl. 6. 3-15-49.  
 507,702. WAX-THEtic. Cl. 4. 3-15-49.  
 507,704. NAIL-STYLE. Cl. 6. 3-15-49.  
 507,706. GLENDALE. Cl. 4. 3-15-49.  
 507,707. PANTASOTE. Cl. 4. 3-15-49.  
 507,713. TOR-REX. Cl. 4. 3-15-49.  
 507,714. CSDM AND DESIGN. Cl. 6. 3-15-49.  
 507,720. EDWARD MENDELL CO. INC. AND DESIGN. Cl. 55. 3-15-49.  
 507,724. GOLDTONE. Cl. 46. 3-15-49.  
 507,725. GENEVA-LOC. Cl. 21. 3-15-49.  
 507,726. MADAME OLGA PATAKY LIL-LO. Cl. 6. 3-15-49.  
 507,729. SNOWWHITE. Cl. 5. 3-15-49.  
 507,730. FORGET-ME-NOT CLUB AND DESIGN. Cl. 1. 3-15-49.  
 507,731. CROCKER. Cl. 12. 3-15-49.  
 507,732. BESTLINE. Cl. 12. 3-15-49.  
 507,733. HI-LITES AND DESIGN. Cl. 21. 3-15-49.  
 507,734. KWIK STRINGER. Cl. 22. 3-15-49.  
 507,737. PICTORIALAMP. Cl. 21. 3-15-49.  
 507,739. WALLY'S. Cl. 22. 3-15-49.  
 507,740. SCALE-AWAY. Cl. 21. 3-15-49.  
 507,743. ROGERS LIQUID FISH GLUE AND DESIGN. Cl. 5. 3-15-49.  
 507,744. ROGERS FAMOUS PHOTO ENGRAVING GLUE. Cl. 5. 3-15-49.  
 507,745. THE GUARDIAN OF THE HIGHWAYS AND DESIGN. Cl. 21. 3-15-49.  
 507,746. MURPHY. Cl. 21. 3-15-49.  
 507,747. KAL PASKAL. Cl. 46. 3-15-49.  
 507,749. CHAR-LYNN. Cl. 23. 3-15-49.  
 507,751. MAGNET WIRE INCORPORATED AND DESIGN WITHIN A CIRCLE. Cl. 21. 3-15-49.  
 507,752. AGEN AND STRAWBERRY OVERALL DESIGN. Cl. 46. 3-15-49.  
 507,756. BEVERLY HILLS. Cl. 6. 3-15-49.  
 507,758. BARNES. Cl. 23. 3-15-49.

### TRADEMARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

- 605,701. CLAROSTAT AND DESIGN. Cl. 21. 5-10-55. Clarostat Mfg. Co., Inc., Dover, N. H. Corrected: In the statement, column 2, line 2, for "FOR" read OR.  
 607,557. THINSTEEL. Cl. 14. 6-21-55. The Cold Metal Products Company, Youngstown, Ohio. Corrected: In the certificate, lines 2 and 3, and 13, and in the statement, column 1, line 1, name of registrant, for "The Cold Metals Products Company", each occurrence, read *The Cold Metal Products Company*.  
 608,197. WEBCO. Cl. 12. 7-5-55. American Webco Corporation, Sewickley, Pa. Corrected: In the certificate, line 2, name of registrant, for "American Webco Corporation" read *American Webco Corporation*.  
 608,836. AROMA-PEP. Cl. 46. 7-12-55. Dorsey S. Dunlap, doing business as Dunwin Company, South Williamsport, Pa. Corrected: In the certificate, lines 2 and 13, and in the statement, column 1, line 1, name of registrant, for "Dorsey S. Dunlap", each occurrence, read *Dorsey S. Dunlap*.  
 609,087. LITHAGON. Cl. 26. 7-19-55. Geiss-America, Chicago, Ill. Corrected: In the certificate, lines 2 and 14, and in the statement, column 1, line 1, name of registrant, for "Geiss-America", each occurrence, read *Geiss-America*.

### REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

#### CLASS 6

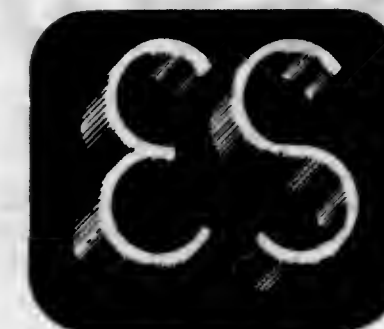
- 416,250. Sept. 4, 1945. Franco American Hygienic Co., Evanston, Ill. Pub. by registrant.  
 442,260. Mar. 15, 1949. John Reuter, Jr., Sault Sainte Marie, Mich. Pub. by registrant.

## DUSORB

For Chemical Preparation for Treating Dust Cloths To Increase Their Dust Absorbing Properties.

#### CLASS 14

- 430,220. June 10, 1947. Eastern Stainless Steel Corporation, Baltimore, Md. Pub. by registrant.



For Stainless Steel Sheet and Plate.

#### CLASS 16

- 320,630. Jan. 1, 1935. Berry Brothers, Detroit, Mich. Pub. by Berry Brothers, Inc., Detroit, Mich.

## AMBERRY

For Ready Mixed Paints and Paint Enamels.

#### CLASS 18

- 41,987. Feb. 2, 1904. Thompson Medical Company, Titusville, Pa. Pub. by Saul D. Abraham, New York, N. Y.

## SAN-CURA

For Ointment Particularly Useful for the Symptomatic Relief of Minor Cuts, Minor Burns, Chafing, Simple Piles, and Minor Skin and Scalp Irritations.

#### CLASS 19

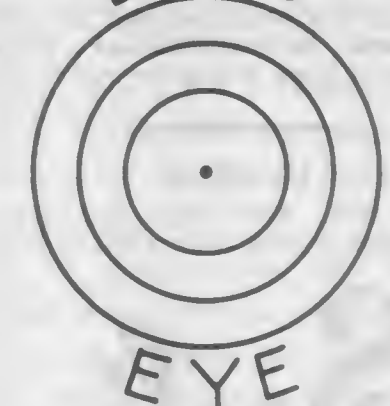
- 440,890. Oct. 5, 1948. Hulbert Manufacturing Company, Ashtabula, Ohio. Pub. by The Smash-Proof Company, Ashtabula, Ohio.

## Skat Skater

For Non-Mechanical, Hand Operated Dollies.

TM 697 O. G.—16

## BULLS



For Golf Clubs.

#### CLASS 23

- 318,143. Oct. 16, 1934. Duplex Printing Press Co., Battle Creek, Mich. Pub. by The Goss Printing Press Company, Chicago, Ill.

## UNITUBULAR

For Rotary Printing Presses and Parts Thereof.

#### CLASS 37

- 321,865. Feb. 19, 1935. Aneshl & Company, Pittsburgh, Pa. Pub. by Anco Corporation, Pittsburgh, Pa.



For Paraffin Treated or Waxed Sulphite or Glassine Paper in Household Rolls.

#### CLASS 38

- 443,692. Jan. 17, 1950. Foster and Kleiser Company, San Francisco, Calif. Pub. by registrant.



For Billboard Posters.

TM 175



## CLASS 39

434,317. Nov. 18, 1947. The Schwartz Mfg. Company, Baltimore, Md. Pub. by Davy Crockett Enterprises, Inc., Baltimore, Md.

**Davy  
Crockett**

## FRONTIERSMAN

For Outer Wearing Apparel for Men, Women, and Children—Namely, Slacks, Jackets, Mackinaws, Neckties, Socks, and Boots, and Shoes Made of Leather and Fabric.

## CLASS 42

322,424. Mar. 5, 1935. Atlas Mills, Inc., New York, N. Y. Pub. by Atlas Fabrics Corp., New York, N. Y.

**Seeli**

For All Silk Piece Goods.

362,043. Nov. 8, 1938. Daniel W. Farnsworth, New York, N. Y. Pub. by registrant.

**Imperial Cashmere**

TRADE MARK

IMPORTED

**PURE WOOLS-MOHAIR**

For Woolen and Worsted Piece Goods.

## CLASS 46

355,887. Apr. 5, 1938. S. S. Pierce Co., Boston, Mass. Pub. by D. E. Winebrenner Co., Inc., Hanover, Pa.

**Breakfast  
Cocktail**

For Canned Food Beverages Consisting of Fruit Juices, Pulp, Sugar, and Water.

444,102. July 25, 1950. West Coast Grocery Company, Tacoma, Wash. Pub. by registrant.

**WESCO**

For Canned Fruits and Vegetables, Canned Fruit Preserves, Grapefruit Juice, Canned Fish, Canned Clams, Oysters, Dried Fruits, Tomato Catsup, Peanut Butter, Vinegar.

## CLASS 49

321,429. Feb. 5, 1935. Joseph E. Seagram & Sons, Inc., New York, N. Y. Pub. by registrant.

**"Time Works Wonders"**

For Whiskey and Gin.

## LIST OF REGISTRANTS OF TRADEMARKS

Aero Mfg. Co., Rockford, Ill. 610,964, pub. 5-24-55. Cl. 19.  
Abraham, Saul D.: See—  
Thompson Medical Co.  
Acme Novelty Mfg. Co., River Grove, Ill. 507,657, canc. Cl. 22.  
Adams, Ruth, Lemmon, S. Dak. 611,213, pub. 5-31-55. Cl. 51.  
Adsurance, Inc., Denver, Colo. 611,222, pub. 11-16-54. Cl. 101.  
Aguirre y Aranzabal, S. R. C., Elbar, Guipuzcoa, Spain. 611,230. Cl. 9.  
Aircraft Screw Products Co., Inc.: See—  
Hell-Coll Corp.  
Airkem, Inc., New York, N. Y. 610,895-6, pub. 5-31-55. Cl. 6.  
Airkem, Inc., New York, N. Y. 610,946, pub. 5-24-55. Cl. 18.  
Alemite Corp., Chicago, Ill. 281,850, canc. Cl. 23.  
Allcock, S. & Co., Ltd., Redditch, England. 228,287, canc. Cl. 22.  
Allen, Don, Buffalo, N. Y. 611,231. Cl. 19.  
Allen, W. B., Yuma, Ariz. 507,596, canc. Cl. 46.  
Aloe, A. S., Co., St. Louis, Mo. 610,878, pub. 5-24-55. Cl. 6.  
Alona Corp.: See—  
Comex Trading Co., Inc.  
Alpine Sporting Goods Co., The, New York, N. Y. 507,520, canc. Cl. 22.  
Alstater Watch Corp., New York, N. Y. 611,045, pub. 5-24-55. Cl. 27.  
Alten Foundry & Machine Works, Inc., Lancaster, Ohio. 611,027, pub. 5-31-55. Cl. 23.  
Altmann, Bernhard, to The Bernhard Altmann Corp., New York, N. Y. 611,237. Cl. 39.  
Altmann, Bernhard, Corp., The: See—  
Altmann, Bernhard.  
American Bakeries Co., Chicago, Ill. 611,164, pub. 5-31-55. Cl. 46.  
American Brake Shoe Co., New York, N. Y. 434,736, canc. Cl. 14.  
American Chicle Co., Long Island City, N. Y. 611,194, pub. 5-24-55. Cl. 46.  
American Cord and Webbing Co.: See—  
Krauss, Max.  
American Cord & Webbing Co. Inc.: See—  
Krauss, Max.  
American Cyanamid Co., New York, N. Y. 610,885, pub. 5-31-55. Cl. 6.  
American Cyanamid Co., New York, N. Y. 610,949, pub. 5-31-55. Cl. 18.  
American Cyanamid Co., New York, N. Y. 610,952, pub. 5-31-55. Cl. 18.  
American Dyewood Co., Belleville, N. J. 610,888, pub. 5-31-55. Cl. 6.  
American Feather Products, Chicago, Ill. 611,081, pub. 5-24-55. Cl. 32.  
American Home Products Corp., d. b. a. Wyeth Laboratories, Division of American Home Products Corp., Philadelphia, Pa. 610,950, pub. 5-24-55. Cl. 18.  
American-Marietta Co.: See—  
O-Cedar Corp.  
American-Marietta Co., Chicago, Ill. 610,909, pub. 5-31-55. Cl. 13.  
American Optical Co., Southbridge, Mass. 611,208, pub. 5-31-55. Cl. 51.  
American Potash & Chemical Corp., Los Angeles, Calif. 610,890-2, pub. 5-31-55. Cl. 6.  
American Society of Tool Engineers, Inc., Detroit, Mich. 327,967, ren. 9-10-55. Cl. 38.  
American Steel Foundries, Chicago, Ill. 611,097, pub. 5-24-55. Cl. 35.  
American Tractor Corp., Churubusco, Ind. 611,007, pub. 5-24-55. Cl. 23.  
American Vitos Co., Inc., New York, N. Y. 611,106, pub. 9-29-53. Cl. 39.  
American Webco Corp., Sewickley, Pa. 608,197, cor. Cl. 12.  
American Woolen Co., New York, N. Y., now by merger and change of name Textron American, Inc. 611,137-8, pub. 5-24-55. Cl. 42.  
Amm-I-Dent, Inc., Jersey City, N. J. 611,206, pub. 5-31-55. Cl. 51.  
Anco Corp.: See—  
Ansehl & Co.  
Anderson Brass Works, Inc., Birmingham, Ala. 610,983, pub. 5-31-55. Cl. 21.  
Anderson School Equipment Co., Los Angeles, Calif. 611,078, pub. 5-24-55. Cl. 32.  
Andrews-Alderfer Co., Akron, Ohio. 611,135, pub. 5-24-55. Cl. 42.  
Ansehl & Co., by Anco Corp., Pittsburgh, Pa. 321,865, 12(c) pub. 8-23-55. Cl. 37.  
Arizona Food Products, Inc., Tucson, Ariz. 507,607, canc. Cl. 46.  
Arké Inc., New York, N. Y. 611,050, pub. 5-24-55. Cl. 28.  
Armour and Co., Chicago, Ill. 610,876, pub. 5-31-55. Cl. 6.  
Artercraft Industries, Athens, Tenn. 611,028, pub. 5-24-55. Cl. 23.  
Ashe Laboratories Ltd., Leatherhead, England. 611,211, pub. 5-31-55. Cl. 51.  
Atlanta Trading Corp., New York, N. Y. 611,185, pub. 5-31-55. Cl. 46.  
Atlas Fabrics Corp.: See—  
Atlas Mills, Inc.  
Atlas Mills, Inc., by Atlas Fabrics Corp., New York, N. Y. 322,424, 12(c) pub. 8-23-55. Cl. 42.  
Attleboro Chain Co., Attleboro, Mass. 78,957, canc. Cl. 28.  
Atwood, Christa M., Winfield, Kans. 611,148, pub. 5-24-55. Cl. 46.  
Axel Bros., Inc., Long Island City, N. Y. 611,055, pub. 5-31-55. Cl. 28.  
B & G Products Co.: See—  
Barthe, George F.  
Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen, Rhine, Germany. 610,879, pub. 5-24-55. Cl. 6.  
Baker Brush Co., Inc., New York, N. Y. 611,059, pub. 5-24-55. Cl. 29.  
Bales, William R., Tampa, Fla. 507,658, canc. Cl. 22.  
Ball Co., The, Chicago, Ill. 611,046, pub. 5-24-55. Cl. 27.  
Barnes Mfg. Co., Mansfield, Ohio. 507,758, canc. Cl. 23.  
Barnette, Guy, & Co., Inc., Memphis, Tenn. 610,968, pub. 5-24-55. Cl. 19.  
Barthe, George F., d. b. a. B & G Products Co., Utica, N. Y. 611,142, pub. 5-24-55. Cl. 46.  
Bayuk Cigars Inc., Philadelphia, Pa. 610,930, pub. 5-24-55. Cl. 17.  
Bear Brand Hosiery Co., Chicago, Ill. 611,113, pub. 5-17-55. Cl. 39.  
Beardsley-Piper Co.: See—  
Winter, Esther P.  
Beautymasters of Beverly Hills, Inc., Milwaukee, Wis. 507,756, canc. Cl. 6.  
Beautytime Radio Service Co., Los Angeles, Calif. 507,619, canc. Cl. 21.  
Bekins Van Lines Co., Hillside, Ill. 611,226, pub. 5-31-55. Cl. 105.  
Belden Mfg. Co., Chicago, Ill. 610,974, pub. 5-24-55. Cl. 21.  
Bell & Gossett Co., Morton Grove, Ill. 607,740, canc. Cl. 21.  
Belock Instrument Corp., College Point, N. Y. 610,984, pub. 5-31-55. Cl. 21.  
Belrug Mills, Inc., Greenville, S. C. 611,123, pub. 5-24-55. Cl. 42.  
Bendix Aviation Corp., North Hollywood, Calif. 507,725, canc. Cl. 21.  
Bendix Aviation Corp., d. b. a. Eclipse-Pioneer Division, Teterboro, N. J. 610,998, pub. 5-24-55. Cl. 21.  
Bennart Brush Corp., Chicago, Ill. 507,579, canc. Cl. 29.  
Bent, G. R., & Co.: See—  
Bent, George R.  
Bent, George R., d. b. a. G. B. Bent & Co., Chicago, Ill. 507,704, canc. Cl. 6.  
Bercker-Young Co., Milwaukee, Wis. 416,641, canc. Cl. 38.  
Berry Brothers, by Berry Brothers, Inc., Detroit, Mich. 820,630, 12(c) pub. 8-23-55. Cl. 16.  
Berry Brothers, Inc.: See—  
Berry Brothers.  
Bertalk, Andrew G., d. b. a. Kounting-Kat Co., La Grange, Ill. 611,041, pub. 5-31-55. Cl. 26.  
Beveridge-Marvellum Co., The, to The Plastic Coating Corp., Holyoke, Mass. 329,555, ren. 11-5-55. Cl. 37.  
Big Bill Bottling Co., Winston-Salem, N. C. 198,794, canc. Cl. 45.  
Big Boy, Inc., Winston-Salem, N. C. 407,038, canc. Cl. 45.  
Bloomer Bros. Co., Newark, N. Y. 324,818, ren. 6-4-55. Cl. 2.  
Boisey Corp. of America, New York, N. Y. 611,039, pub. 6-31-55. Cl. 26.  
Botany Mills, Inc., Passaic, N. J. 611,122, pub. 5-24-55. Cl. 42.  
Box-A-Bye Corp., Cooperstown, N. Y. 611,082, pub. 5-24-55. Cl. 32.  
Brannan, Lee, Detroit, Mich. 610,977, pub. 5-24-55. Cl. 21.  
Broemmel Pharmaceuticals, San Francisco, Calif. 610,957, pub. 5-31-55. Cl. 18.  
Brown-Brockmeyer Co., The, Dayton, Ohio. 610,966, pub. 5-24-55. Cl. 21.  
Bryton Chemical Co., Marcus Hook, Pa. 610,880, pub. 5-24-55. Cl. 6.  
Buck, Kermit B., Memphis, Tenn. 611,225, pub. 5-31-55. Cl. 103.  
Bud Antle: See—  
Bud, Inc.  
Bud, Inc., d. b. a. Bud Antle, Watsonville, Calif. 611,188, pub. 5-31-55. Cl. 46.  
Bullard, E. D., Co., San Francisco, Calif. 611,112, pub. 5-24-55. Cl. 39.  
Bunyan, Paul, Balt Co., The, Minneapolis, Minn. 507,650, canc. Cl. 22.  
Burden, Margaret C., d. b. a. Mrs. M. Burden and as Grandma's Spanish Pepper Co., Berkeley, Calif. 611,174, pub. 5-24-55. Cl. 46.  
Burden, Mrs. M.: See—  
Burden, Margaret C.  
Butler, Clifford W., d. b. a. Chaparral Chinchilla Ranch, Ogden, Utah. 611,154, pub. 5-24-55. Cl. 46.  
Caldwell, E. L., & Sons, Corpus Christi, Tex. 611,029, pub. 5-24-55. Cl. 23.  
California Consumers Corp., Los Angeles, Calif. 611,198, pub. 5-31-55. Cl. 46.  
California Olive Oil Mfg. Co., Fresno, Calif. 611,162, pub. 5-24-55. Cl. 46.  
Calnevar Co., The, Los Angeles, Calif. 610,963, pub. 5-24-55. Cl. 19.  
Calva, J. B., & Co.: See—  
Calva, Jose B.



Calva, Jose B., d. b. a. J. B. Calva & Co., Minneapolis, Minn. 611,220, pub. 5-31-55. Cl. 100.  
 Campana Corp., Batavia, Ill. 394,880, can. Cl. 6.  
 Campbell Soup Co., Camden, N. J. 611,165, pub. 5-31-55. Cl. 46.  
 Carbit Paint Co.: See—  
 Westerman, L. H.  
 Carey Salt Co., The, Hutchinson, Kans. 611,153, pub. 5-24-55. Cl. 46.  
 Caridi, Frank C., Troy, N. Y. 610,958, pub. 5-31-55. Cl. 18.  
 Carol-Line Products Co.: See—  
 Specht, Carl J.  
 Cascade Frozen Foods, Inc., Seattle, Wash. 507,752, can. Cl. 46.  
 Casement Hardware Co., The, Chicago, Ill. 610,900, pub. 5-24-55. Cl. 12.  
 Casimir Funk Laboratories, Inc., New York, N. Y. 610,933, pub. 5-24-55. Cl. 18.  
 Cavagnaro, A., Inc., New York, N. Y. 611,159, pub. 5-31-55. Cl. 46.  
 Cavalier Corp., Chattanooga, Tenn. 507,679, can. Cl. 32.  
 Century Softener Corp., Milwaukee, Wis. 611,069, pub. 5-17-55. Cl. 31.  
 Certified Grocers of Illinois, Inc.: See—  
 Raggedy Ann Corp.  
 Chalhau Co., The: See—  
 Hall, Chalmers G., Jr.  
 Chambiass, John A., Chattanooga, Tenn. 611,038, pub. 5-24-55. Cl. 26.  
 Champco: See—  
 Champlin, Richard H.  
 Champlin, Richard H., d. b. a. Champco, Antioch, Ill. 611,062, pub. 5-24-55. Cl. 29.  
 Chaparral Chinchilla Ranch: See—  
 Butler, Clifford W.  
 Char-Lynn Co., Minneapolis, Minn. 507,749, can. Cl. 23.  
 Chatham Mfg. Co., Elkin, N. C. 611,124, pub. 9-7-54. Cl. 42.  
 Chemical and Fibre Associates, Inc., Azusa, Calif. 610,886, pub. 5-31-55. Cl. 6.  
 Chemrad Corp., Laurel, Md. 610,875, pub. 5-31-55. Cl. 6.  
 Chicago Pharmacal Co., Chicago, Ill. 610,932, pub. 5-31-55. Cl. 18.  
 Chicago Pharmacal Co., Chicago, Ill. 610,940, pub. 5-24-55. Cl. 18.  
 Church, Bruce, Inc., Salinas, Calif. 611,193, pub. 5-24-55. Cl. 46.  
 Ciba Ltd., Basel, Switzerland. 610,881, pub. 5-24-55. Cl. 6.  
 Clarostat Mfg. Co., Inc., Dover, N. H. 605,701, cor. Cl. 21.  
 Clarostat Mfg. Co., Inc., Dover, N. H. 610,973, pub. 5-24-55. Cl. 21.  
 Clinton Metallic Paint Co., Clinton, N. Y. 106,217, ren. 10-19-55. Cl. 16.  
 Closter Mills, Inc., Closter, N. J. 611,109, pub. 5-17-55. Cl. 39.  
 Clover Farm Stores Corp., Cleveland, Ohio. 507,706, can. Cl. 4.  
 Clyserol Laboratories, Inc., Oklahoma City, Okla. 610,939, pub. 5-31-55. Cl. 18.  
 Coble Dairy Products, Inc., Lexington, N. C. 611,167, pub. 5-31-55. Cl. 46.  
 Cochran, Jacqueline: See—  
 Cochran, Jacqueline, Inc.  
 Cochran, Jacqueline, Inc., d. b. a. Jacqueline Cochran, Newark, N. J. 611,214, pub. 5-31-55. Cl. 51.  
 Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. 325,076, ren. 6-11-55. Cl. 39.  
 Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. 328,482, ren. 10-1-55. Cl. 39.  
 Cold Metal Products Co., The, Youngstown, Ohio. 607,557, cor. Cl. 14.  
 Colgate-Palmolive Co., Jersey City, N. J. 611,215-16, pub. 5-31-55. Cl. 51.  
 Colgate-Palmolive-Peet Co., Jersey City, N. J. 507,699, can. Cl. 4.  
 Columbia Distilling Co.: See—  
 Tonkin Distributing Co.  
 Comex Trading Co., Inc., to Alona Corp., New York, N. Y. 327,324, ren. 8-20-55. Cl. 46.  
 Compania Swift De Montevideo, S. A., Montevideo, Uruguay. 507,714, can. Cl. 6.  
 Competent Fur Dressers, Inc.: See—  
 Competent Fur Dressers, Inc.  
 Competent Fur Dressers Inc., Mount Vernon, N. Y., to Competent Fur Dressers, Inc., Newark, N. J. 329,485, ren. 8-25-55. Cl. 1.  
 Components Corp., Denville, N. J. 610,996, pub. 5-24-55. Cl. 21.  
 Consolidated Trimming Corp., New York, N. Y. 610,918, pub. 5-24-55. Cl. 13.  
 Copley Fabrics, Inc., New York, N. Y., to Production and Marketing Co., Newtown, Conn. 611,120, pub. 11-2-54. Cl. 42.  
 Cosmet Co., Minneapolis, Minn. 507,697, can. Cl. 4.  
 Counsel Machine Co., Inc., Wallington, N. J. 611,030, pub. 5-24-55. Cl. 23.  
 Crocker, W. W., Co.: See—  
 Crocker, William W.  
 Crocker, William W., d. b. a. W. W. Crocker Co., Cambridge, Mass. 507,731, can. Cl. 12.  
 Crockett, Davy, Enterprises, Inc.: See—  
 Schwartz Mfg. Co., The.  
 Cross, Abbott Co., White River Junction, Vt. 95,403, can. Cl. 46.  
 Crown Chemical and Engineering Co., Los Angeles, Calif. 610,988, pub. 5-24-55. Cl. 21.  
 Crozer Land Association, Philadelphia, Pa. 416,528, can. Cl. 1.  
 Culbertson Glove Co.: See—  
 Culbertson, Jesse L.

Culbertson, Jesse L., d. b. a. Culbertson Glove Co., Portland, Oreg. 611,238. Cl. 39.  
 Culver Nutritional Products, Jersey City, N. J. 610,955, pub. 5-31-55. Cl. 18.  
 Cundiff, Roy E., Houston, Tex. 610,901, pub. 5-24-55. Cl. 12.  
 Davey Metals, Inc., Red Lion, Pa. 611,079-80, pub. 5-24-55. Cl. 32.  
 Davis Plywood Corp., The, Cleveland, Ohio. 507,732, can. Cl. 12.  
 Day's, Mrs., Ideal Baby Shoe Co., Inc., Danvers, Mass. 611,110, pub. 5-17-55. Cl. 39.  
 De Laval Separator Co., The, Poughkeepsie, N. Y. 610,903, pub. 5-17-55. Cl. 13.  
 De Mert & Dougherty, Inc., Chicago, Ill. 610,873, pub. 5-31-55. Cl. 6.  
 Dennison Watch Case Co. Ltd., Handsworth, Birmingham, England. 611,044, pub. 5-24-55. Cl. 27.  
 Derlinger, Simon, d. b. a. Easy Way Stamper Machine Co., Philadelphia, Pa. 611,014, pub. 5-24-55. Cl. 23.  
 Dianafix Co.: See—  
 Kirschner, Alexander E.  
 Di-Voc Co., The, Cleveland, Ohio. 610,882, pub. 5-24-55. Cl. 6.  
 Dole Refrigerating Co., Chicago, Ill. 611,070, pub. 5-24-55. Cl. 31.  
 Donald Bruce Co.: See—  
 Medicated Products Co.  
 Donner, Jade M., d. b. a. Donner Mfg. Co., North Hollywood, Calif. 610,914-15, pub. 5-24-55. Cl. 13.  
 Donner Mfg. Co.: See—  
 Donner, Jade M.  
 Drew, E. F., & Co., Inc., New York, N. Y. 611,143, pub. 5-3-55. Cl. 46.  
 Drexel Furniture Co., Drexel, N. C. 611,083, pub. 5-24-55. Cl. 32.  
 Dunlap, Dorsey S., d. b. a. Dunwin Co., South Williamsport, Pa. 608,836, cor. Cl. 46.  
 Dunlop Tire and Rubber Corp., Buffalo, N. Y. 611,092, pub. 5-24-55. Cl. 35.  
 Dunwin Co.: See—  
 Dunlap, Dorsey S.  
 Duplex Printing Press Co., Battle Creek, Mich., by The Goss Printing Press Co., Chicago, Ill. 318,143, 12(c) pub. 8-23-55. Cl. 23.  
 Du Pont, E. I., de Nemours and Co.: See—  
 Patterson Screen Co., The.  
 Du Pont, E. I., de Nemours and Co., Wilmington, Del. 610,867, pub. 5-24-55. Cl. 1.  
 Durlon Co., Inc., The, Dayton, Ohio. 611,024, pub. 5-31-55. Cl. 23.  
 Duro Metal Products Co., Chicago, Ill. 611,012, pub. 5-24-55. Cl. 23.  
 Earnshaw Knitting Co., Newton, Mass. 299,858, can. Cl. 39.  
 Earnshaw Knitting Co., Newton, Mass. 387,736, can. Cl. 39.  
 Earnshaw Knitting Co., Newton, Mass., now by change of name to The Vanta Co. 417,140, can. Cl. 42.  
 Eastern Stainless Steel Corp., Baltimore, Md. 430,220, 12(c) pub. 8-23-55. Cl. 14.  
 Easy Way Stamper Machine Co.: See—  
 Derlinger, Simon.  
 Eaton Mfg. Co., Cleveland, Ohio. 610,904, pub. 5-24-55. Cl. 13.  
 Eberle, J. N., & Co., A. G., Augsburg, Germany. 611,022, pub. 5-24-55. Cl. 23.  
 Eclipse-Pioneer Division: See—  
 Bendix Aviation Corp.  
 Economy Paper Products Co., Milwaukee, Wis. 353,483, can. Cl. 37.  
 Edgemaster Corp., Philadelphia, Pa. 610,928, pub. 5-31-55. Cl. 13.  
 Einstein, Samuel M., Attleboro, Mass. 148,005, can. Cl. 28.  
 Electric Household Utilities Corp., Chicago, Ill. 366,231, can. Cl. 24.  
 Electric Vendors, Inc., Minneapolis, Minn. 611,009, pub. 5-24-55. Cl. 23.  
 Electromaid Corp., Chazy, N. Y. 610,995, pub. 5-31-55. Cl. 21.  
 Electro Metallurgical Co., Niagara Falls, to Union Carbide and Carbon Corp., New York, N. Y. 328,335, ren. 9-24-55. Cl. 38.  
 Electronic Specialty Co., Los Angeles, Calif. 610,916-17, pub. 5-31-55. Cl. 13.  
 Electro-Snap Switch & Mfg. Co., Chicago, Ill. 611,025, pub. 5-24-55. Cl. 23.  
 Ellis, Lucian F., d. b. a. Rube's Food Products Co., Los Angeles, Calif. 507,517, can. Cl. 46.  
 Ellis, Ray C., d. b. a. Florida Produce Co., Bradenton, Fla. 507,563, can. Cl. 46.  
 Engineered Products, Inc., Denver, Colo. 507,713, can. Cl. 4.  
 Eskimo Pie Corp., Bloomfield, N. J. 611,145, pub. 5-31-55. Cl. 46.  
 Esmond Mills, The, Esmond, R. I. 165,805, can. Cl. 42.  
 Esmond Mills, The, Esmond, Smithfield, R. I. 175,176, can. Cl. 42.  
 Essential Chemicals Co., Milwaukee, Wis. 507,702, can. Cl. 4.  
 Executive Furniture Guild of America, Grand Rapids, Mich. 611,235. Cl. 32.  
 Exhibit Supply Co., Chicago, Ill. 507,659, can. Cl. 22.  
 Faber, Eberhard, Pencil Co., Brooklyn, N. Y. 329,700, ren. 11-5-55. Cl. 37.  
 Farmers Produce, Inc., Watsonville, Calif. 611,184, pub. 5-31-55. Cl. 46.  
 Farnsworth, Daniel W., New York, N. Y. 362,043, 12(c) pub. 8-23-55. Cl. 42.  
 Fisher Cheese Co., Wapakoneta, Ohio. 611,192, pub. 5-31-55. Cl. 46.

Florida Produce Co.: See—  
 Ellis, Ray C.  
 Food Machinery and Chemical Corp., San Jose, Calif. 610,893, pub. 5-31-55. Cl. 6.  
 Ford, J. B. Co., The, Wyandotte, Mich. 388,647, can. Cl. 4.  
 Forster Mfg. Co.: See—  
 Forster, Thomas E., Jr.  
 Forster, Thomas E., Jr., d. b. a. Forster Mfg. Co., Wichita, Kans. 611,035, pub. 5-24-55. Cl. 26.  
 Fortnum & Mason Ltd., London, England. 325,403, ren. 6-25-55. Cl. 47.  
 Foster and Kleiser Co., San Francisco, Calif. 443,692, 12(c) pub. 8-23-55. Cl. 38.  
 Franco American Hygienic Co., Evanston, Ill. 416,250, 12(c) pub. 8-23-55. Cl. 6.  
 French Jewelry Co., Philadelphia, Pa. 611,054, pub. 5-31-55. Cl. 28.  
 Friedman & Sons, New York, N. Y. 611,117, pub. 5-10-55. Cl. 41.  
 Frisco, Ross, Boston, Mass. 611,100, pub. 5-24-55. Cl. 38.  
 Fuhrer-Ford Milling Co., to Fuhrer-Ford Milling Co., Mount Vernon, Ind. 106,957, ren. 11-9-55. Cl. 46.  
 Fullerton Co-operative Orange Assn., Fullerton, Calif. 340,430-2, can. Cl. 46.  
 Fu-Shou Products, to Fu-Shou Products, Washington, D. C. 611,168, pub. 5-24-55. Cl. 46.  
 Gabriel Co., The, Cleveland, Ohio. 610,979, pub. 5-31-55. Cl. 21.  
 Galt Chemical Products Ltd., Galt, Ontario, Canada. 611,157, pub. 5-31-55. Cl. 46.  
 Gates Rubber Co., The, Denver, Colo. 611,093, pub. 5-24-55. Cl. 35.  
 Geles-America, Chicago, Ill. 609,087, corrected. Cl. 26.  
 General Aniline & Film Corp., New York, N. Y. 611,036, pub. 5-24-55. Cl. 26.  
 General Preserve Co., Inc., Brooklyn, N. Y. 611,199, pub. 5-31-55. Cl. 46.  
 General Tire & Rubber Co., The, Akron, Ohio. 611,000, pub. 5-31-55. Cl. 21.  
 Gerber Products Co., Fremont, Mich. 611,150, pub. 5-31-55. Cl. 46.  
 Gevaert Photo-Producten N. V., Mortsel, Belgium. 611,105, pub. 5-24-55. Cl. 38.  
 Gibraltar Fabrics, Inc., Brooklyn, N. Y. 611,034, pub. 5-24-55. Cl. 24.  
 Glorioso, Angelo, New Orleans, La. 232,351, can. Cl. 46.  
 Goldfeder, Sol, New York, N. Y. 611,052, pub. 5-31-55. Cl. 28.  
 Goodrich, B. F. Chemical Co.: See—  
 Goodrich, B. F. Co., The.  
 Goodrich, B. F. Co., The, d. b. a. B. F. Goodrich Chemical Co., Cleveland, Ohio. 610,870, pub. 5-31-55. Cl. 6.  
 Goodyear Tire & Rubber Co., The, Akron, Ohio. 611,096, pub. 5-24-55. Cl. 35.  
 Gordy Salt Co., Inc., New Iberia, La. 611,178, pub. 5-31-55. Cl. 46.  
 Goss Printing Press Co., The: See—  
 Duplex Printing Press Co.  
 Graham Machine Tool Co., New York, N. Y. 611,017, pub. 5-24-55. Cl. 23.  
 Gramercy Import Co., Inc., New York, N. Y. 611,232. Cl. 26.  
 Grandma's Spanish Pepper Co.: See—  
 Burden, Margaret C.  
 Grand View Heights Citrus Assn., Ultra and Terra Bella, Calif. 212,303, can. Cl. 46.  
 Great Western Sugar Co., The, Denver, Colo. 611,147, pub. 5-31-55. Cl. 46.  
 Greenebaum, J., Tanning Co., Chicago, Ill. 507,585, can. Cl. 1.  
 Guest Products Corp.: See—  
 National Service Sales Corp.  
 Gulf Salt Co., Houston, Tex. 611,176, pub. 5-31-55. Cl. 46.  
 Hackney Bros. Body Co., Wilson, N. C. 610,970, pub. 5-24-55. Cl. 19.  
 Hall, Chalmers G., Jr., d. b. a. The Chalhau Co., Washington, D. C. 507,686, can. Cl. 44.  
 Hall, Haas & Vessey, Ltd., Los Angeles, Calif. 611,158, pub. 5-31-55. Cl. 46.  
 Hamilton Watch Co., Lancaster, Pa. 611,224, pub. 5-31-55. Cl. 103.  
 Hancock Mfg., Inc., Philadelphia, Pa. 611,090, pub. 5-24-55. Cl. 35.  
 Hanson-Van Winkle-Munzing Co., Matawan, N. J., and elsewhere. 507,689, can. Cl. 4.  
 Hardtmuth, L. & C., Budweis, Austria-Hungary, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. 101,087, ren. 11-10-54. Cl. 37.  
 Hardtmuth, L. & C., Inc.: See—  
 Hardtmuth, L. & C.  
 Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth.  
 Harman-Kardon Inc., New York, N. Y. 610,982, pub. 5-24-55. Cl. 21.  
 Haynes, Joseph E., d. b. a. Wedge Seal Co., Baltimore, Md. 610,908, pub. 5-31-55. Cl. 13.  
 Hearst Corp., The: See—  
 King Features Syndicate, Inc.  
 Heddon's, James, Sons, Dowagiac, Mich. 507,614, can. Cl. 22.  
 Hell-Coil Corp., Long Island City, N. Y., by change of name from Aircraft Screw Products Co., Inc. 507,552, can. Cl. 23.  
 Heliogen Products, Inc., Long Island City, N. Y. 610,931, pub. 5-24-55. Cl. 18.  
 Helwig, Carl, d. b. a. Helwig Products, Los Angeles, Calif. 611,058, pub. 5-24-55. Cl. 28.  
 Helwig Products: See—  
 Helwig, Carl.  
 Hermann-Murray Co., Minneapolis, Minn. 507,734, can. Cl. 22.

High, L. W., d. b. a. Ole Williamsburg Packing Plant, Leary, Ga. 611,156, pub. 5-24-55. Cl. 46.  
 Hoffmann's Starkefabriken Aktiengesellschaft, Bad Salzungen, Lippe, Germany. 610,872, pub. 5-24-55. Cl. 6.  
 Holan Engineering Co., Inc., Elwood, Ind. 610,961, pub. 5-24-55. Cl. 19.  
 Holme & Selfert, Salinas, Calif. 507,747, can. Cl. 46.  
 Holtzman Carpet Shops, Inc., Brooklyn, N. Y. 611,127, pub. 5-24-55. Cl. 42.  
 Hood-Gardner Hotel Supply Corp., Charlotte, N. C. 610,967, pub. 5-24-55. Cl. 19.  
 Howard Brother's Mfg. Co., Worcester, Mass. 611,013, pub. 5-24-55. Cl. 28.  
 Hubinger Co., The, Keokuk, Iowa. 327,918, ren. 9-10-55. Cl. 46.  
 Hubinger Co., The, Keokuk, Iowa. 610,884, pub. 5-24-55. Cl. 6.  
 Hudnut, Richard, New York, N. Y. 101,392, ren. 12-8-54. Cl. 51.  
 Hufford Machine Works, Inc., El Segundo, Calif. 611,010, pub. 5-24-55. Cl. 23.  
 Hughes, Patrick E., d. b. a. Hughes Pharmacal Co., San Antonio, Tex. 507,562, can. Cl. 6.  
 Hughes Pharmacal Co.: See—  
 Hughes, Patrick E.  
 Hulbert Mfg. Co., by The Smash-Proof Co., Ashtabula, Ohio. 440,890, 12(c) pub. 8-23-55. Cl. 19.  
 Hummel, Ludwig, d. b. a. Lacher & Co., Pforzheim, Germany. 611,047, pub. 5-24-55. Cl. 27.  
 Hunter Spring Co., Lansdale, Pa. 610,927, pub. 5-31-55. Cl. 18.  
 Hyman, Julius, & Co., Denver, Colo. 434,235, can. Cl. 6.  
 Ice Follies Novelty Co., Los Angeles, Calif. 611,049, pub. 5-24-55. Cl. 28.  
 Ideal Roller and Mfg. Co., Chicago, Ill. 611,016, pub. 5-31-55. Cl. 23.  
 Illinois Tool Works, Chicago, Ill. 610,925, pub. 5-31-55. Cl. 13.  
 Industrial Plastic Co., Raritan Township, N. J. 611,091, pub. 5-24-55. Cl. 35.  
 Industrial Research & Design, Inc., Cincinnati, Ohio. 611,021, pub. 5-31-55. Cl. 23.  
 Inland Marine Corp., Milwaukee, Wis. 611,068, pub. 5-24-55. Cl. 31.  
 Instituto Oportapico del Rio de la Plata, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. 610,936, pub. 5-24-55. Cl. 18.  
 International Cellucotton Products Co., Chicago, Ill. 610,924, pub. 5-31-55. Cl. 13.  
 International Magazine Co., Inc., New York, N. Y. 219,445, can. Cl. 38.  
 Interstate Bakeries Corp., Kansas City, Mo. 611,172, pub. 5-31-55. Cl. 46.  
 Interstate Engineering Corp., El Segundo, Calif. 507,526, can. Cl. 31.  
 Jackson, Peter (Overseas) Ltd., London, England. 610,929, pub. 5-24-55. Cl. 17.  
 Jacob, W. & R., & Co. (Liverpool) Ltd., Aintree, Liverpool, England. 611,161, pub. 5-31-55. Cl. 46.  
 Jacoby, Jack, Co., Inc., New York, N. Y. 611,129, pub. 5-24-55. Cl. 42.  
 Jenkins Bros., New York, N. Y., and Bridgeport, Conn. 105,115, ren. 7-6-55. Cl. 13.  
 Jerclaydon, Inc., New York, N. Y. 610,869, pub. 5-23-55. Cl. 1.  
 Joanna Western Mills Co., Chicago, Ill. 507,627, can. Cl. 32.  
 Johnson, Carvell & Murphy, Los Angeles, Calif. 236,014, can. Cl. 6.  
 Johnson Steel & Wire Co., Inc., Worcester, Mass. 329,798, ren. 11-12-55. Cl. 14.  
 Joynt, Henry L., Inc., Washington, D. C. 611,221, pub. 5-31-55. Cl. 101.  
 Juicyburger Products Co.: See—  
 Patrick, Albert A.  
 Kahn, David, Inc., North Bergen, N. J. 329,528-30, ren. 11-5-55. Cl. 37.  
 Kamkap, Inc., New York, N. Y. 611,088, pub. 5-24-55. Cl. 34.  
 Kellogg Co., Battle Creek, Mich. 611,195, pub. 5-31-55. Cl. 46.  
 Kelly, E. J., Co., Kalamazoo, Mich., to Sun Chemical Corp., Long Island City, N. Y. 325,442, ren. 6-25-55. Cl. 11.  
 Kendall Co., The, Walpole, Mass. 611,130-1, pub. 5-24-55. Cl. 42.  
 Kilgore Mfg. Co., The, Westerville, Ohio. 368,229, can. Cl. 2.  
 King Features Syndicate, Inc., to The Hearst Corp., New York, N. Y. 323,099, ren. 4-2-55. Cl. 38.  
 King's Bakery, Inc., Chattanooga, Tenn. 611,200, pub. 5-31-55. Cl. 46.  
 Kirschner, Alexander E., d. b. a. Dianafix Co., Paterson, N. J. 411,593, can. Cl. 39.  
 Knapp, Norman E., d. b. a. Knapp Plow Co., San Jose, Calif. 611,019, pub. 5-24-55. Cl. 23.  
 Knapp Plow Co.: See—  
 Knapp, Norman E.  
 Koh-I-Noor Bleistiftfabrik L. & C. Hardtmuth, Budweis, Czechoslovakia, to L. & C. Hardtmuth, Inc., Bloomsbury, N. J. 324,688, ren. 5-28-55. Cl. 37.  
 Kounting-Kat Co.: See—  
 Bersik, Andrew G.  
 Kraft Foods Co., Chicago, Ill. 611,187-8, pub. 5-31-55. Cl. 46.  
 Krauss, Max, d. b. a. American Cord and Webbing Co., to American Cord & Webbing Co. Inc., New York, N. Y. 329,963, ren. 11-19-55. Cl. 40.  
 Kumar Kompany, Inc., Thomasville, Ga. 507,634, can. Cl. 4.



Kupferle, John C., Foundry Co., St. Louis, Mo. 610,911, pub. 5-31-55. Cl. 13.  
 Kushner & Pines, Inc., New York, N. Y. 611,051, pub. 5-31-55. Cl. 28.  
 Lacher & Co.: See—  
 Hummel, Ludwig.  
 Lactona Inc., St. Paul, Minn. 507,546, can. Cl. 29.  
 Ladd Knitting Mills, Inc., Reading, Pa. 611,239. Cl. 39.  
 Lanchere, Inc., Chicago, Ill. 507,560, can. Cl. 6.  
 Lamb's, Geo., Sons, Buffalo, N. Y. 507,642, can. Cl. 1.  
 Laukhuff Mfg. Corp., Milwaukee, Wis. 611,008, pub. 5-31-55. Cl. 23.  
 Leach Corp., Los Angeles, Calif. 610,992, pub. 5-24-55. Cl. 21.  
 Lee, Nelle, d. b. a. McCary Associates, Kansas City, Mo. 611,223, pub. 5-31-55. Cl. 102.  
 Lehn & Fink Products Corp., Bloomfield, N. J. 396,654, can. Cl. 6.  
 Lenthier, Inc.: See—  
 Olin Mathieson Chemical Corp.  
 Lewis Bros., Inc., New York, N. Y. 507,691, can. Cl. 6.  
 Libby, McNeill & Libby, Chicago, Ill. 107,430, ren. 11-23-55. Cl. 46.  
 Litecraft Mfg. Co., Newark, N. J. 507,733, can. Cl. 21.  
 Livingston Seed Co., The, Columbus, Ohio. 611,229. Cl. 1.  
 Lock Thread Corp., Detroit, Mich. 610,920-1, pub. 5-31-55. Cl. 13.  
 Lowndes Products, Inc., Greenville, S. C. 611,060, pub. 5-24-55. Cl. 29.  
 Lunt Silversmiths: See—  
 Rogers, Lunt & Bowlen Co.  
 Luxra Co., Atchison, Kans. 611,086, pub. 5-24-55. Cl. 34.  
 MacKenzie, Frank S., Woodstock, Vt. 46,121, can. Cl. 42.  
 Magnet Wire Inc., New York, N. Y. 507,751, can. Cl. 21.  
 Malone, Carl E., and Hugh M. Sutton, Fort Lauderdale, Fla. 611,023, pub. 5-24-55. Cl. 23.  
 Marbro Mills: See—  
 Marcus Brothers.  
 Marcus Brothers, d. b. a. Marbro Mills, New York, N. Y. 342,252, can. Cl. 42.  
 Markell, Maurice J., Yonkers, N. Y. 330,104, ren. 11-19-55. Cl. 39.  
 Marlboro Shirt Co., Inc., Baltimore, Md. 611,108, pub. 5-24-55. Cl. 39.  
 Marshall Field & Co., Chicago, Ill. 162,823, can. Cl. 42.  
 Masland, C. H., and Sons, Carlisle, Pa. 611,128, pub. 5-17-55. Cl. 42.  
 Master Products Co.: See—  
 Welas, James.  
 Matthews, Geo. B., & Sons, Inc., New Orleans, La. 611,170, pub. 5-31-55. Cl. 46.  
 May Department Stores Co., The, St. Louis, Mo. 330,648, ren. 12-10-55. Cl. 39.  
 Mazzel, Joseph F., Hollidaysburg, Pa. 611,076, pub. 5-17-55. Cl. 32.  
 McCary Associates: See—  
 Lee, Nelle.  
 McClintock-Trunkey Co., The, Spokane, Wash. 74,907, can. Cl. 46.  
 McClintock-Trunkey Co., The, Spokane, Wash. 110,468, can. Cl. 46.  
 Mead Johnson & Co., Evansville, Ind. 610,942, pub. 5-31-55. Cl. 18.  
 Measure Master Co., St. Paul, Minn. 611,003, pub. 5-24-55. Cl. 23.  
 Mechanical Industries, Inc., Pittsburgh, Pa. 611,071, pub. 5-24-55. Cl. 31.  
 Medicated Products Co., d. b. a. Donald Bruce Co., Chicago, Ill. 611,234. Cl. 28.  
 Menasha Printing and Carton Co., Menasha, Wis. 197,867, can. Cl. 37.  
 Menasha Printing and Carton Co., Menasha, Wis. 212,414, can. Cl. 2.  
 Menasha Products Co., The, Menasha, Wis. 303,264, can. Cl. 2.  
 Menasha Products Co., Menasha, Wis. 350,222, can. Cl. 37.  
 Menasha Products Co., Menasha, Wis. 352,651, can. Cl. 2.  
 Menasha Products Co., Menasha, Wis. 361,831, can. Cl. 2.  
 Menasha Products Co., Menasha, Wis. 372,747, can. Cl. 2.  
 Mendell, Edward, Co., Inc., New York, N. Y. 507,720, can. Cl. 55.  
 Mennen Co., The, Morris Township, Morris County, N. J. 611,207, pub. 5-31-55. Cl. 51.  
 Mentone Heights Association, Mentone, Calif. 507,724, can. Cl. 46.  
 Merchandise Presentation, Inc., New York, N. Y. 611,074, pub. 5-24-55. Cl. 32.  
 Merck & Co., Inc., Rahway, N. J. 610,953, pub. 5-31-55. Cl. 18.  
 Michael-Leonard Co., Sioux City, Iowa. 610,863, pub. 5-24-55. Cl. 1.  
 Middle River Warehouse Co.: See—  
 Zuckerman, Roscoe C.  
 Midwestern Industries, Inc., Wichita, Kans. 611,031-2, pub. 5-24-55. Cl. 23.  
 Mil-Hi Laboratories, Inc., New York, N. Y. 611,205, pub. 9-15-55. Cl. 51.  
 Miller Brewing Co., Milwaukee, Wis. 611,179, pub. 5-31-55. Cl. 46.  
 Miller & Co., Denver, Colo. 611,111, pub. 5-24-55. Cl. 39.  
 Milton Mfg. Co., Inc., Chicago, Ill. 610,922, pub. 5-31-55. Cl. 13.  
 Minnesota Electronics Corp., The, St. Paul, Minn. 611,040, pub. 5-31-55. Cl. 26.  
 Minnesota Mining & Mfg. Co., St. Paul, Minn. 610,990, pub. 5-24-55. Cl. 21.  
 Mishawaka Rubber and Woolen Mfg. Co., Mishawaka, Ind. 611,114, pub. 5-17-55. Cl. 39.  
 Mizzy, Inc., New York, N. Y. 610,943, pub. 5-31-55. Cl. 18.

Molesta Floral Co., Grand Rapids, Mich. 507,730, can. Cl. 1.  
 Monarch Garment Co. Inc., New York, N. Y. 335,337, can. Cl. 39.  
 Monarch Garment Co. Inc., New York, N. Y. 341,964, can. Cl. 39.  
 Monarch Garment Co., The, New York, N. Y. 404,129, can. Cl. 39.  
 Monarch Leather Co., Chicago, Ill. 507,532, can. Cl. 1.  
 Monsanto Chemical Co., St. Louis, Mo. 610,897, pub. 5-31-55. Cl. 6.  
 Moore, George C., Co., Westerly, R. I. 611,119, pub. 5-24-55. Cl. 42.  
 Motorola, Inc., Chicago, Ill. 610,991, pub. 5-31-55. Cl. 21.  
 Mt. Adams Orchards Co., White Salmon, Wash. 611,175, pub. 5-31-55. Cl. 46.  
 Munson, Inc., Babylon, N. Y. 611,102, pub. 5-24-55. Cl. 38.  
 Murphy, G. C., Co., McKeesport, Pa. 507,746, can. Cl. 21.  
 Mutual Products Co., Minneapolis, Minn. 507,654, can. Cl. 46.  
 Nabut, Harry, New York, N. Y. 507,609, can. Cl. 21.  
 National Aluminate Corp., Chicago, Ill. 610,883, pub. 5-24-55. Cl. 6.  
 National Lift Co., Wayne, Mich. 611,026, pub. 5-31-55. Cl. 23.  
 National Pictorialamp, Inc., Los Angeles, Calif. 507,737, can. Cl. 21.  
 National Service Sales Corp., to Guest Products Corp., New York, N. Y. 610,980, pub. 5-31-55. Cl. 21.  
 National Silver Co., New York, N. Y. 611,067, pub. 5-24-55. Cl. 30.  
 National Tea Co., Chicago, Ill. 428,490, can. Cl. 46.  
 Nature Sweet Honey Co.: See—  
 Witwer Grocery Co.  
 Neumann, Walter, New York, N. Y. 507,678, can. Cl. 6.  
 New Martinsville Glass Co., New Martinsville, W. Va., now by change of name Viking Glass Co. 410,467, can. Cl. 50.  
 Newman Pharmaceutical Co., Inc., Louisville, Ky. 610,956, pub. 5-31-55. Cl. 18.  
 Newton, Herman S., d. b. a. Newton Mfg. Co., Temple, Tex. 610,969, pub. 5-24-55. Cl. 19.  
 Newton Mfg. Co.: See—  
 Newton, Herman S.  
 New York Brassiere Co., Inc., Brooklyn, N. Y. 611,115, pub. 5-17-55. Cl. 39.  
 Nopco Chemical Co., Harrison, N. J. 610,887, pub. 5-31-55. Cl. 6.  
 Norcross, Inc., New York, N. Y. 611,101, pub. 8-10-54. Cl. 38.  
 O-Cedar Corp'n. to American-Marietta Co., Chicago, Ill. 611,061, pub. 5-24-55. Cl. 29.  
 O. Karyl A/S, Bergen, Norway. 611,202-3, pub. 5-31-55. Cl. 49.  
 Ole Williamsburg Packing Plant: See—  
 High, L. W.  
 Olin Mathieson Chemical Corp., to Lenthier, Inc., New York, N. Y. 611,217, pub. 5-31-55. Cl. 51.  
 Onelda, Ltd., Onelda, N. Y. 611,056, pub. 5-31-55. Cl. 28.  
 Osborn Mfg. Co., The, Cleveland, Ohio. 610,865, pub. 5-24-55. Cl. 1.  
 Overland Fabrics, New York, N. Y. 611,118, pub. 5-24-55. Cl. 42.  
 Pacific Coast Borax Co.: See—  
 Borax Consolidated, Ltd.  
 Pacific Coast Borax Co., New York, N. Y., to Borax Consolidated, Ltd., d. b. a. Pacific Coast Borax Co., London, England, and Los Angeles, Calif. 327,549, ren. 8-27-55. Cl. 6.  
 Pacific Coast Borax Co., New York, N. Y., to Borax Consolidated, Ltd., d. b. a. Pacific Coast Borax Co., London, England, and Los Angeles, Calif. 327,847, ren. 9-3-55. Cl. 6.  
 Packard-Bell Co., Los Angeles, Calif. 611,087, pub. 5-17-55. Cl. 34.  
 Pantasote Co., The, Passaic, N. J. 507,707, can. Cl. 4.  
 Parachini, Anthony, North Bergen, N. J. 326,601, ren. 7-30-55. Cl. 49.  
 Park, Phillip R., Inc., San Pedro, Calif. 324,423, ren. 5-21-55. Cl. 46.  
 Parker Brothers, Inc., Salem, Mass. 328,961, ren. 10-8-55. Cl. 22.  
 Pataky, Olga, Philadelphia, Pa. 507,726, can. Cl. 6.  
 Patch, E. L., Co., The, Stoneham, Mass. 610,948, pub. 5-31-55. Cl. 18.  
 Patrick, Albert A., d. b. a. Juicyburger Products Co., Moberly, Mo. 611,189, pub. 5-31-55. Cl. 46.  
 Patterson Screen Co., The, Towanda, Pa. to E. I. du Pont de Nemours and Co., Wilmington, Del. 324,917, ren. 6-4-55. Cl. 26.  
 Paxton-Slade Publishing Corp., New York, N. Y. 611,103, pub. 5-24-55. Cl. 38.  
 Pechter Baking Co. Inc.: See—  
 Pechter, M.  
 Pechter, M., New York, to Pechter Baking Co. Inc., Brooklyn, N. Y. 106,999, ren. 11-9-55. Cl. 46.  
 Pee Dee Co., Memphis, Tenn. 611,160-1, pub. 5-24-55. Cl. 46.  
 Pelton's Spudnuts, Inc., Salt Lake City, Utah. 611,196, pub. 5-24-55. Cl. 46.  
 Penn Maid Dairy Products, Philadelphia, Pa. 611,173, pub. 4-5-55. Cl. 46.  
 Penn Maid Dairy Products, Philadelphia, Pa. 611,177, pub. 5-29-55. Cl. 46.  
 Penrose A. M., & Co., Inc.: See—  
 Tonkin Distributing Co.  
 Perma Kleen Co., San Francisco, Calif. 435,609, can. Cl. 32.  
 Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. 178,991, can. Cl. 46.  
 Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. 233,071, can. Cl. 46.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 610,951, pub. 5-31-55. Cl. 18.  
 Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. 610,954, pub. 5-31-55. Cl. 18.  
 Pierce, S. S., Co., Boston, Mass., by D. E. Winebrenner Co., Inc., Hanover, Pa. 355,887, 12(c) pub. 8-23-55. Cl. 46.  
 Pinhas Bros., New York, N. Y. 611,241. Cl. 39.  
 Planet Mfg. Corp., Bloomfield, N. J. 610,997, pub. 5-31-55. Cl. 21.  
 Plastic Coating Corp., The: See—  
 Beveridge-Marvelum Co., The.  
 Plasticrete Aggregates Corp., Hamden, Conn. 507,685, can. Cl. 4.  
 Poddelniak, Inc., Chicago, Ill. 611,004-6, pub. 5-31-55. Cl. 23.  
 Polk, J. T., Co.: See—  
 Sears & Nichols Corp., The.  
 Polner, H., Inc., Buffalo, N. Y. 611,240. Cl. 40.  
 Precision Electrotape Co., San Francisco, Calif. 285,231, can. Cl. 23.  
 Premier Peat Moss Corp., New York, N. Y. 610,866, pub. 5-24-55. Cl. 1.  
 Production and Marketing Co.: See—  
 Copley Fabrics, Inc.  
 Production and Marketing Co., Newtown, Conn. 611,121, pub. 11-2-54. Cl. 42.  
 Products Sales, Inc., Cleveland, Ohio. 611,075, pub. 5-17-55. Cl. 32.  
 Pure Oil Co., The, Chicago, Ill. 507,525, can. Cl. 21.  
 Quaker Rubber Corp., div. of H. K. Porter Co. Inc. of Pittsburgh, Philadelphia, Pa. 611,095, pub. 5-24-55. Cl. 35.  
 Quikley Co., Inc., New York, N. Y. 324,951, ren. 6-4-55. Cl. 12.  
 R-W Gadget Co., Akron, Ohio. 610,978, pub. 5-24-55. Cl. 21.  
 Raggedy Ann Corp., Evanston, to Certified Grocers of Illinois, Inc., Chicago, Ill. 611,197, pub. 5-31-55. Cl. 46.  
 Raimac Corp., Grand Rapids, Mich. 507,605, can. Cl. 23.  
 Ralston Purina Co., St. Louis, Mo. 611,152, pub. 5-31-55. Cl. 46.  
 Raybestos-Manhattan, Inc., Passaic, N. J. 610,998, pub. 5-31-55. Cl. 21.  
 Raytheon Mfg. Co., Newton, Mass. 507,529, can. Cl. 21.  
 Regulated Cottons, Inc., New York, N. Y. 611,136, pub. 5-24-55. Cl. 42.  
 Rehrig, Jane B., Indio, Calif. 611,190, pub. 5-31-55. Cl. 46.  
 Res-Q Products, Van Nuys, Calif. 610,910, pub. 5-31-55. Cl. 13.  
 Reuter, John, Jr., Sault Sainte Marie, Mich. 442,260, 12(c) pub. 8-23-55. Cl. 22.  
 River Plate Corp., The, New York, N. Y. 610,894, pub. 5-31-55. Cl. 6.  
 Rixson, Oscar C., Co., The, Franklin Park, Ill. 610,926, pub. 5-31-55. Cl. 13.  
 Roanwell Corp., Brooklyn, N. Y. 610,985, pub. 5-24-55. Cl. 21.  
 Roberts-Gordon Appliance Corp., Buffalo, N. Y. 611,085, pub. 5-24-55. Cl. 34.  
 Robertshaw-Fulton Controls Co., Greensburg, Pa. 610,905, pub. 5-17-55. Cl. 13.  
 Robertshaw-Fulton Controls Co., Greensburg, Pa. 611,037, pub. 5-24-55. Cl. 26.  
 Rockwell Spring and Axle Co., Coraopolis, Pa. 611,084, pub. 5-24-55. Cl. 32.  
 Rogers Isinglass and Glue Co., Gloucester, Mass. 507,743-4, can. Cl. 5.  
 Rogers, Lunt & Bowlen Co., d. b. a. Lunt Silversmiths, Greenfield, Mass. 611,057, pub. 5-31-55. Cl. 28.  
 Rolls-Royce Ltd., Derby, England. 325,195, ren. 6-11-55. Cl. 19.  
 Rolls-Royce Ltd., Derby, England. 325,316, ren. 6-18-55. Cl. 23.  
 Rollway Grandstand Corp., Los Angeles, Calif. 611,077, pub. 5-24-55. Cl. 32.  
 Roman Meal Co., Tacoma, Wash. 507,599, can. Cl. 46.  
 Root Mfg. Co., Inc., Baxter Springs, Kans. 611,015, pub. 5-31-55. Cl. 23.  
 Rothenberg Specialmaskiner for Sy-Industrien A/S, Copenhagen, Denmark. 610,972, pub. 5-24-55. Cl. 21.  
 Royal Pharmaceutical Corp., Brooklyn, N. Y. 435,150, can. Cl. 6.  
 Rube's Food Products Co.: See—  
 Ellis, Lucian F.  
 Russell, E. J., d. b. a. Russell Packing Co., Salinas, Calif. 611,144, pub. 5-31-55. Cl. 46.  
 Russell Packing Co.: See—  
 Russell, E. J.  
 S. A. Eteco (European Overseas Trading Co.), Zwevegem, Belgium. 610,907, pub. 5-24-55. Cl. 13.  
 Safety Signals, Inc., Canton, Ohio. 507,745, can. Cl. 21.  
 Sahyun Laboratories: See—  
 Sahyun, Melville.  
 Sahyun, Melville, d. b. a. Sahyun Laboratories, Santa Barbara, Calif. 610,938, pub. 5-31-55. Cl. 18.  
 Sahyun, Melville, d. b. a. Sahyun Laboratories, Santa Barbara, Calif. 610,939, pub. 5-24-55. Cl. 18.  
 St. Clair Foods Co., Ltd., McAllen, Tex. 611,166, pub. 5-31-55. Cl. 46.  
 Saks & Co., New York, N. Y. 830,087, ren. 11-19-55. Cl. 39.  
 Sampson, Arthur, Minneapolis, Minn. 610,864, pub. 5-24-55. Cl. 1.  
 Santa Paula Citrus Fruit Association, Santa Paula, Calif. 186,514, can. Cl. 46.  
 Santos, Manuel, d. b. a. Tosan Drug Co., New York, N. Y. 610,944, pub. 5-31-55. Cl. 18.  
 Sauer, Leo A., d. b. a. V-O Mfg. Co., North Hollywood, Calif. 507,701, can. Cl. 6.  
 Saxon China Co., The, Sebring, Ohio. 237,391, can. Cl. 30.  
 Schenley Industries, Inc., New York, N. Y. 611,099, pub. 5-24-55. Cl. 38.  
 Schenley Wine & Spirit Import Corp., New York, N. Y. 315,554, can. Cl. 49.  
 Schering Corp., Bloomfield, N. J. 610,945, pub. 5-24-55. Cl. 18.  
 Schliephake, Herbert O., Chicago, Ill. 507,629, can. Cl. 22.  
 Schwabacher Bros. & Co. Inc., Seattle, Wash. 214,220, can. Cl. 29.  
 Schwartz Mfg. Co., The, by Davy Crockett Enterprises, Inc., Baltimore, Md. 434,317, 12(c) pub. 8-23-55. Cl. 39.  
 Science Associates, Los Angeles, Calif. 610,934, pub. 5-24-55. Cl. 18.  
 Seagram, Joseph E., & Sons, Inc., New York, N. Y. 321,429, 12(c) pub. 8-23-55. Cl. 49.  
 Sears & Nichols Corp., The, d. b. a. J. T. Polk Co., Chillicothe, Ohio. 259,655, can. Cl. 46.  
 Sears & Nichols Corp., The, d. b. a. J. T. Polk Co., Chillicothe, Ohio. 260,138, can. Cl. 46.  
 Sears & Nichols Corp., The, d. b. a. J. T. Polk Co., Chillicothe, Ohio. 262,270, can. Cl. 46.  
 Sears & Nichols Corp., The, Chillicothe, Ohio. 264,723, can. Cl. 46.  
 Sears, Roebuck and Co., Chicago, Ill. 611,072, pub. 5-10-55. Cl. 31.  
 Seaside Fisheries Co., Long Beach, Calif. 507,655-6, can. Cl. 46.  
 Selberling Rubber Co., Barberton, Ohio. 507,549, can. Cl. 21.  
 Selsas Corp. of America, Philadelphia, Pa. 611,073, pub. 5-24-55. Cl. 31.  
 7th Avenue Publications, Inc., New York, N. Y. 611,104, pub. 5-24-55. Cl. 38.  
 Shapleigh Hardware Co., St. Louis, Mo. 507,597, can. Cl. 22.  
 Shaw, Alex D., & Co., Inc., to Munson G. Shaw Co., Inc., New York, N. Y. 330,006, ren. 11-19-55. Cl. 47.  
 Shaw, Munson G., Co., Inc.: See—  
 Shaw, Alex D., & Co., Inc.  
 Shenango Pottery Co., New Castle, Pa. 611,063-6, pub. 5-24-55. Cl. 30.  
 Shields Date Gardens: See—  
 Shields, Ernest F.  
 Shields Engineering & Mfg. Co., Cleveland, Ohio. 611,033, pub. 5-24-55. Cl. 24.  
 Shields, Ernest F., d. b. a. Shields Date Gardens, near Indio, Calif. 611,171, pub. 5-31-55. Cl. 46.  
 Shulton, Inc., Clifton, N. J. 611,212, pub. 3-1-55. Cl. 51.  
 Sidney Machine Tool Co., The, Sidney, Ohio. 507,604, can. Cl. 23.  
 Silduna A/S, Copenhagen, Denmark. 430,750, can. Cl. 27.  
 Sitru Inc.: See—  
 Sterilek Co., Inc., The.  
 Slepian, Arthur, & Co., Bridgeport, Conn. 610,987, pub. 5-24-55. Cl. 21.  
 Smash-Proof Co., The: See—  
 Hulbert Mfg. Co.  
 Smith, Floyd N.: See—  
 Smith Thornburg Co.  
 Smith Thornburg Co., to F. N. Smith, Phoenix, Ariz. 327,817, ren. 9-3-55. Cl. 46.  
 Soc. Accom. Mugolio di Piccolo & C.: See—  
 Soc. Accom. Mugolio di Seaf & C.  
 Soc. Accom. Mugolio di Seaf & C., Milan, Italy, now by change of name Soc. Accom. Mugolio di Piccolo & C. 610,941, pub. 5-24-55. Cl. 18.  
 Societa in Nome Collettivo "La Ducale," Parma, Italy. 611,204, pub. 5-31-55. Cl. 51.  
 Societe Anonyme Couesnon & Cie., Paris, France. 325,346, ren. 6-18-55. Cl. 36.  
 Societe de Grands Travaux Scientifiques (Societe Anonyme), Paris, France. 507,671, can. Cl. 6.  
 Societe Rhodiacta, Paris, France. 610,868, pub. 5-24-55. Cl. 1.  
 Societe Rhodiacta, Paris, France. 611,126, pub. 4-12-55. Cl. 42.  
 Southern Biscuit Co., Inc., Richmond, Va. 245,566, can. Cl. 46.  
 Southern Pipe & Casing Co., Azusa, Calif. 610,928, pub. 5-31-55. Cl. 18.  
 Spar Engineering & Development, Inc., Wyncote, Pa. 610,912, pub. 5-31-55. Cl. 18.  
 Sparvieri, Dominick, Hoboken, N. J. 611,182, pub. 5-31-55. Cl. 46.  
 Specht, Carl J., d. b. a. Carol-Line Products Co., Columbus, Ohio. 507,615, can. Cl. 32.  
 Staley, A. E., Mfg. Co., Decatur, Ill. 611,209, pub. 5-31-55. Cl. 51.  
 Standard Brands Inc., New York, N. Y. 507,631, can. Cl. 6.  
 Standard Brands Inc., New York, N. Y. 611,201, pub. 5-31-55. Cl. 46.  
 Stanley Works, The, New Britain, Conn. 611,018, pub. 5-24-55. Cl. 23.  
 Sterilek Co., Inc., The, Brooklyn, to Sitru Inc., New York, N. Y. 325,361, ren. 6-18-55. Cl. 37.  
 Steri-Swabs Inc., Long Island City, N. Y. 611,140, pub. 5-24-55. Cl. 44.  
 Stern's, Bill, Famous Brands, Inc., Muskegon Heights, Mich. 611,181, pub. 5-31-55. Cl. 46.  
 Sterwin Chemicals Inc., New York, N. Y. 611,020, pub. 5-24-55. Cl. 23.  
 Stevens, John, Hackensack, N. J. 611,139, pub. 5-24-55. Cl. 44.  
 Strickland, J., & Co., Memphis, Tenn. 611,210, pub. 5-31-55. Cl. 51.  
 Studebaker-Packard Corp., Detroit, Mich. 610,971, pub. 5-24-55. Cl. 19.  
 Sun Chemical Corp.: See—  
 Kelly, E. J., Co.  
 Sun-Glow Industries, Inc., Mansfield, Ohio. 507,522, can. Cl. 32.



Superb Food Products, Kalamazoo, Mich. 611,155, pub. 5-24-55. Cl. 46.  
 Superba Cravats, Inc., Rochester, N. Y. 611,107, pub. 5-24-55. Cl. 39.  
 Superior Coach Corp., Lima, Ohio. 610,966, pub. 5-24-55. Cl. 19.  
 Surface Protection Co., Inc., The, Cleveland, Ohio. 610,874, pub. 10-12-54, Cl. 6; pub. 11-2-54, Cl. 16. (Consolidated certificate, Classes 6 and 16.)  
 Surrrette Storage Battery Co., Inc., Salem, Mass. 610,999, pub. 5-31-55. Cl. 21.  
 Suter Watch Factory, Inc., Bienne, Switzerland. 611,042, pub. 5-31-55. Cl. 27.  
 Sutton, Hugh M.: See—  
 Malone, Carl E., and Sutton.  
 Swartwout Co., The, Cleveland, Ohio. 611,089, pub. 5-24-55. Cl. 34.  
 Swift & Co., d. b. a. White Provision Co., Chicago, Ill. 611,180, pub. 5-31-55. Cl. 46.  
 Swift & Co., Chicago, Ill. 611,218, pub. 5-24-55. Cl. 52.  
 Tablax Co.: See—  
 Weiner, Louis I.  
 Tebbetts & Garland Store, The, Chicago, Ill. 238,745, can. Cl. 46.  
 Tebbetts & Garland Store, The, Chicago, Ill. 242,589, can. Cl. 46.  
 Telerad Corp. of America, Washington, D. C. 611,228, pub. 5-31-55. Cl. 107.  
 Texas Soap Mfg. Corp., Houston, Tex. 507,518, can. Cl. 4.  
 Textron American, Inc.: See—  
 American Woolen Co.  
 Thames, H. M., Pecan Co., Inc., Mobile, Ala. 611,186, pub. 5-31-55. Cl. 46.  
 Thermatomic Carbon Co., New York, N. Y. 610,889, pub. 5-31-55. Cl. 6.  
 Thompson Medical Co., Titusville, Pa., by S. D. Abraham, New York, N. Y. 41,987, 12(c) pub. 8-23-55. Cl. 18.  
 Thompson Products, Inc., to Thompson Products, Inc., Cleveland, Ohio. 325,972, ren. 7-9-55. Cl. 23.  
 Thompson Products, Inc., to Thompson Products, Inc., Cleveland, Ohio. 328,184, ren. 9-17-55. Cl. 19.  
 Thompson Products, Inc., to Thompson Products, Inc., Cleveland, Ohio. 328,910, ren. 10-8-55. Cl. 13.  
 Tissue Brands, Inc., to Sitru Inc., New York, N. Y. 326,098, ren. 7-16-55. Cl. 37.  
 Tobin Packing Co., Inc., Rochester, N. Y. 611,191, pub. 5-24-55. Cl. 46.  
 Tonkin Distributing Co., d. b. a. Columbia Distilling Co., San Francisco, Calif., to A. M. Penrose & Co., Inc., Philadelphia, Pa. 329,311, ren. 10-22-55. Cl. 49.  
 Tosan Drug Co.: See—  
 Santos, Manuel.  
 Transvision, Inc., New Rochelle, N. Y. 610,975-6, pub. 5-31-55. Cl. 21.  
 Travenol Laboratories, Inc., Morton Grove, Ill. 610,937, pub. 5-24-55. Cl. 18.  
 Trifari, Krussman & Flshel, Inc., New York, N. Y. 611,053, pub. 5-24-55. Cl. 28.  
 Trol Mfg. Co., Griggsville, Ill. 610,994, pub. 5-24-55. Cl. 21.  
 Tru-Link Fence Co., Chicago, Ill. 610,902, pub. 5-24-55. Cl. 12.  
 Udyllite Corp., The, Detroit, Mich. 610,871, pub. 5-31-55. Cl. 6.  
 Uncle Sam Chemical Co., Inc., New York, N. Y. 322,136, ren. 2-26-55. Cl. 6.  
 Union Bag & Paper Corp., New York, N. Y. 611,098, pub. 5-10-55. Cl. 37.  
 Union Carbide and Carbon Corp.: See—  
 Electro Metallurgical Co.  
 Union Plate and Wire Co., Attleboro, Mass. 610,981, pub. 5-31-55. Cl. 21.  
 United Aircraft Corp., Windsor Locks, Conn. 610,965, pub. 5-24-55. Cl. 19.  
 United Merchants and Manufacturers, Inc., New York, N. Y. 611,132-4, pub. 5-24-55. Cl. 42.  
 United States Rubber Co., New York, N. Y. 611,094, pub. 5-24-55. Cl. 35.  
 Universal Circuit Controls Corp., Steger, Ill. 610,989, pub. 5-24-55. Cl. 21.  
 Universal Mills, Fort Worth, Tex. 611,149, pub. 5-31-55. Cl. 46.  
 Utility Clock Co.: See—  
 Utility Plastic Products Co.  
 Utility Plastic Products Co., d. b. a. Utility Clock Co., Chicago, Ill. 611,043, pub. 5-31-55. Cl. 27.  
 V-O Mfg. Co.: See—  
 Sauer, Leo A.  
 Vac-Tie Fasteners, Inc., Elizabeth, N. J. 611,001, pub. 5-24-55. Cl. 23.  
 Van Cleef Bros., Chicago, Ill. 507,729, can. Cl. 5.  
 Vanta Co., The: See—  
 Earnshaw Knitting Co.  
 Van Waters & Rogers, Inc., Seattle, Wash. 610,899, pub. 5-24-55. Cl. 10.  
 Vet Products Co., Kansas City, Mo. 610,935, pub. 5-24-55. Cl. 18.  
 Viking Glass Co.: See—  
 New Martinsville Glass Co.  
 Villareal Société Chérifienne de Parfums, (Société Anonyme), Casablanca, Morocco. 507,608, can. Cl. 6.  
 Von Zimmermann, Max K., Elkhart, Ind. 318,055, can. Cl. 26.  
 Wagner, Marcel, Gloves, Inc., New York, N. Y. 611,125, pub. 5-24-55. Cl. 42.  
 Waljohn Plastics, Inc., Brooklyn, N. Y. 610,906, pub. 5-24-55. Cl. 13.  
 Walker Metal Products Co., Harvey, Ill. 611,242. Cl. 50.  
 Wallingsford Fly Co.: See—  
 Wallingsford, Leo B.  
 Wallingsford, Leo B., d. b. a. Wallingsford Fly Co., Muncie, Ind. 507,739, can. Cl. 22.  
 Wanamaker, John, New York, N. Y. 346,435, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Pa. 63,917, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Pa. 64,205, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Pa. 96,761, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 206,128, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 225,003, can. Cl. 6.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 225,004, can. Cl. 4.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 226,963, can. Cl. 4.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 246,411, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 300,969, can. Cl. 32.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 311,170, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 335,932, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 337,441, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 343,328, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 349,359, can. Cl. 33.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 349,360, can. Cl. 30.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 375,285, can. Cl. 39.  
 Wanamaker, John, Philadelphia, Philadelphia, Pa. 390,654, can. Cl. 39.  
 Wart-Off Co., Chattanooga, Tenn. 610,947, pub. 5-24-55. Cl. 18.  
 Wedge Seal Co.: See—  
 Haynes, Joseph E.  
 Weiner, Louis I., d. b. a. Tablax Co., New York, N. Y. 610,877, pub. 5-31-55. Cl. 6.  
 Welsch, James, d. b. a. Master Products Co., Chicago, Ill. 611,236. Cl. 37.  
 Weldon Watch Co., Inc., The, New York, N. Y. 611,233. Cl. 27.  
 Weller, B. I., Co., Chicago, Ill. 611,002, pub. 5-24-55. Cl. 23.  
 West Coast Grocery Co., Tacoma, Wash. 444,102, 12(c) pub. 8-23-55. Cl. 46.  
 West Coast Precooling, Watsonville, Calif. 611,227, pub. 5-31-55. Cl. 106.  
 West Disinfecting Co., Long Island City, N. Y. 104,407, ren. 5-25-55. Cl. 6.  
 West Disinfecting Co., Long Island City, N. Y. 611,219, pub. 5-24-55. Cl. 52.  
 Westates Sales & Engineering, South San Gabriel, Calif. 610,962, pub. 5-24-55. Cl. 19.  
 Westerman, L. H., d. b. a. Carbit Paint Co., Chicago, Ill. 200,734, can. Cl. 16.  
 Westfield Metal Products Co., Inc., Westfield, Mass. 610,913, pub. 5-31-55. Cl. 13.  
 Westinghouse Electric Corp.: See—  
 Westinghouse Electric & Mfg. Co.  
 Westinghouse Electric & Mfg. Co., to Westinghouse Electric Corp., East Pittsburgh, Pa. 327,517, ren. 8-27-55. Cl. 21.  
 White Metal Rolling & Stamping Corp., Brooklyn, N. Y. 610,919, pub. 5-31-55. Cl. 13.  
 White Provision Co.: See—  
 Swift & Co.  
 White Star Market & Grocery, Inc., Rochester, N. Y. 611,146, pub. 5-24-55. Cl. 46.  
 White's Auto Stores, Inc., Wichita Falls, Tex. 610,960, pub. 5-24-55. Cl. 19.  
 Whitney, Paul H., Chicago, Ill. 610,898, pub. 5-31-55. Cl. 6.  
 Williamson Candy Co., Chicago, Ill. 611,163, pub. 5-24-55. Cl. 46.  
 Winebrenner, D. E., Co., Inc.: See—  
 Pierce, S. S., Co.  
 Winter Engineering Co.: See—  
 Winter, Esther P.  
 Winter, Esther P., d. b. a. Winter Engineering Co., Buffalo, N. Y., to Beardsley-Piper Co., Chicago, Ill. 611,011, pub. 5-24-55. Cl. 23.  
 Winter Grocery Co., d. b. a. Nature Sweet Honey Co., Cedar Rapids, Iowa. 355,564, can. Cl. 46.  
 Woolworth, F. W., Co., Watertown and New York, N. Y. 128,209, can. Cl. 37.  
 Worthington Ball Co., The, Elyria, Ohio. 127,303, can. Cl. 22.  
 Wright, William E., & Sons Co., West Warren, Mass. 611,116, pub. 5-24-55. Cl. 40.  
 Wyeth Laboratories, Division of American Home Products Corp.: See—  
 American Home Products Corp.  
 Wyler Watch Agency, Inc., New York, N. Y. 611,048, pub. 5-24-55. Cl. 27.  
 Yorba Linda Citrus Association, The, Yorba Linda, Calif. 162,626, can. Cl. 46.  
 Zion Industries, Inc., Zion, Ill. 611,141, pub. 5-31-55. Cl. 46.  
 Zuckerman, Roscoe C., d. b. a. Middle River Warehouse Co., Stockton, Calif. 611,169, pub. 5-24-55. Cl. 46.

PATENTS  
NOTICES

## Adjudicated Patent

(D. C. N. Y.) Brown Patent No. 2,613,420, for a buckle for holding ribbons, Held invalid. *Waterbury Metal Stamping Company v. Ads Metal Products Co., Inc.*, 131 F. Supp. 301, 105 USPQ 389.

## Disclaimer

2,688,110.—*Joseph V. Domalecki, Sammit, Emmett L. Gartland, Berkeley Heights, and Joseph J. Kleimack, Scotch Plains, N. J. SEMICONDUCTOR TRANSLATING DEVICE.* Patent dated Aug. 31, 1954. Disclaimer filed Aug. 3, 1955, by the inventors, and the assignee, *Bell Telephone Laboratories*, joining in.

Hereby enter this disclaimer to claims 2 and 9 of said patent.

## Dedication

2,355,440.—*Alan Howard, Schenectady, N. Y. PIPING ARRANGEMENT.* Patent dated Aug. 8, 1944. Dedication filed July 28, 1955, by the assignee, *General Electric Company*.

Hereby gives and dedicates the aforesaid patent to the People of the United States, for public use forever.

## Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,596,851, J. Hansen, Cutter blade, decided Apr. 7, 1955, claims 2, 3, and 4.

Pat. 2,648,194, C. H. Jorgensen, W. T. Nickel, H. H. Dietrich, and D. P. Worden, Jet engine fuel controller, decided June 20, 1955, claims 1 and 3.

Pat. 2,687,406, R. E. Foster, 4-Vinylcyclohexene monoepoxide and polymers thereof, decided July 25, 1955, claims 1, 2, and 3.

## Patents Available for Licensing or Sale

2,712,148. Windshield Wiper., Lucius M. Cheshire, Hillsboro, N. C.

2,685,500. Process for Generating Sodium Monoxide. U. S. Industrial Chemicals Co., Div. of National Distillers Products Corporation, 99 Park Ave., New York 16, N. Y.

2,710,686. Vehicle Steering Wheel Ash Tray Attachment. James Trammell, Jr., 1824 South Central Park, Chicago, Ill.

2,208,818. Receding Door Latch Handle. Pauline Schaffer, 1704 Maryfield Drive, Ann Arbor, Mich.

2,704,889. Combined Thimble and Cutter. George D. Dellanos, 102A Main St., Port Washington, N. Y.

The General Electric Company is prepared to grant non-exclusive licenses under the following four patents on reasonable terms to domestic manufacturers. Applications for license may be addressed to the General Electric Company, Patent Counsel, Measurements and Industrial Products Division, 920 Western Ave., West Lynn 3, Mass.

2,668,246. Photocell Angle Response Compensator.

2,669,678. Remote Indication System.

2,679,013. Fourier Curve Analyzing and Integrating Apparatus.

2,679,027. Measurement of Dissolved Water Content of Liquids.

## New Applications Received During June 1955

Patents	6,921
Plants	8
Reissues	14
Designs	456

Total 7,399

## Issue

Patents	509—No. 2,716,239 to No. 2,716,747, incl.
Designs	36—No. 175,452 to No. 175,487, incl.
Plants	4—No. 1,413 to No. 1,416, incl.
Reissues	3—No. 24,055 to No. 24,057, incl.

Total 552



# CONDITION OF PATENT APPLICATIONS AS OF JUNE 30, 1955

Total number of pending applications (excluding Designs)	221,872
Total number of pending Design applications	7,018
Total number of applications awaiting action (excluding Designs)	139,614
Total number of Design applications awaiting action	2,747
Date of oldest new application	June 1, 1954
Date of oldest amended application	Aug. 12, 1953

ROSA, M. C., Executive Examiner

PATENT EXAMINING GROUPS, AND SUPERVISORY EXAMINERS	DIVISIONS
I. STONE, I. G., CHEMICAL AND RELATED ARTS	6, 31, 38, 43, 50, 56, 59, 63, 64.
II. STRACHAN, O. W., COMMUNICATIONS, RADIANT ENERGY AND ELECTRICAL ARTS	16, 23, 26, 37, 42, 48, 51, 54, 69, 70.
III. YUNG KWAI, B., MECHANICAL MANUFACTURING, MACHINE ELEMENTS AND DESIGNS	2, 12, 13, 14, 21, 24, 57, 58, 61, Designs.
IV. FREEHOF, H. B., MATERIAL HANDLING AND TREATING, OPTICS, RAILWAYS AND AMUSEMENT DEVICES	7, 11, 17, 27, 34, 35, 39, 53, 62.
V. HULL, J. S., STATIC STRUCTURES AND INSTRUMENTS OF PRECISION	8, 20, 29, 33, 36, 40, 41, 52, 66.
VI. MURPHY, T. F., AGRICULTURE, TRANSPORTATION, PUMPS AND MOTORS	1, 4, 5, 9, 18, 22, 28, 45, 47.
VII. KAUFFMAN, H. E., HEATING AND COOLING, PLASTIC SHAPING AND COATING, SEPARATION AND MIXING, BODY TREATMENT AND CARE	3, 15, 19, 25, 30, 32, 49, 55, 67.

DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
1. (VI) GOLDBERG, A. J., Excavating; Planting; Plows; Harrows; Earth Rollers; Plant Husbandry; Scattering Unloaders; Sewage	10-7-54	3-29-54
2. (III) HERRMANN, D., Fishing; Trapping and Vermin Destroying; Presses; Tobacco; Textile Wringers	12-29-54	8-2-54
3. (VII) LE ROY, C. A., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Alloys; Sintered Metal Stock; Miscellaneous Heating; Coating or Plastic Compositions (part), e. g., Inorganic, Mold and Mold Coating Compositions	10-4-54	11-16-53
4. (VI) FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus; Elevators; Feeding of Indefinite Lengths	10-18-54	11-16-53
5. (VI) ROBINSON, C. W., Harvesters; Potato Diggers; Stalk Pullers and Choppers; Stone Gatherers; Threshing; Knotters; Animal Husbandry; Bee Culture; Dairy; Butchering; Vegetable and Meat Cutters and Comminutors; Fences; Gates	11-23-54	4-6-54
6. (I) SURLE, H., Carbon Chemistry (part), e. g., Natural Resins, Proteins, Heterocyclic, Amides, Amines, General Organic Processes	8-17-54	1-18-54
7. (IV) GONSALVES, J. E., Optics, Photographic Apparatus	10-19-54	12-1-53
8. (V) LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture	8-16-54	12-8-53
9. (VI) BRANSON, J. H., Pumps; Fans; Turbines	10-25-54	2-2-54
11. (IV) BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids	3-1-55	6-28-54
12. (III) SPINTMAN, S., Machine Elements; Engine Starters; Clutches; Interrelated Clutch and Motor Controls	10-5-54	10-26-53
13. (III) BEALL, T. E., Gear Cutting; Electric Lamp and Tube Manufacture; Needle and Pin Making; Metal Working (part), e. g., Special Work, Forging, Plastic Working, Drawing, Sawing, Milling, Planing, Turning	10-15-54	12-21-53
14. (III) MANIAN, J. C., Metal Working (part), e. g., Sheet Metal, Wire, Bending, Miscellaneous Processes, Assembly and Disassembly Apparatus; Wire Fabrics; Air Brakes	12-20-54	1-20-54
15. (VII) BRINDISI, M. V., Plastics; Plastic Block and Earthenware Apparatus; Glass	10-27-54	3-18-54
16. (II) LOVEWELL, N. N., Television; Telephony; Recorders	10-4-54	10-7-53
17. (IV) LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding	11-15-54	4-2-54
18. (VI) KURZ, J. A., Power Plants; Fluid Transmissions; Servomotor Systems; Jet Motors; Combustion Turbines; Speed Responsive Devices, Brakes	10-1-54	10-5-53
19. (VII) PATRICK, P. L., Stoves and Furnaces; Boilers; Concentrating Evaporators; Fluid Fuel Burners	6-29-54	2-3-54
20. (V) BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Bank Protection; Bread, Pastry and Confection Making; Tents and Canopies; Umbrellas; Canes; Undertaking	12-15-54	4-14-54
21. (III) MADER, R. C., Textiles	10-20-54	3-1-54
22. (VI) MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Propellers; Windmills; Fluid Diaphragms and Bellows; Boring and Drilling	12-29-54	2-25-54
23. (II) ANDRUS, L. M., Cash and Fare Registers; Calculators and Counters; Education	6-1-54	8-21-53
24. (III) DRACOPOULOS, P. T. (HICKEY, T. J., acting), Apparel; Apparel Apparatus; Sewing Machines; Textiles, Ironing or Smoothing	12-3-54	8-25-54
25. (VII) NEVIUS, R. D., Coating—Processes, Miscellaneous Products and Apparatus; Distillation; Wood Treating Apparatus	10-1-54	1-4-54
26. (II) YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems, Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators (part), e. g., Miscellaneous Electric Control Mechanism	11-17-54	6-29-54
27. (IV) JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-24-54	5-4-54
28. (VI) BRAUNER, R. H., Internal Combustion Engines; Expandable Chamber Motors; Fluid Servomotors; Spring, Weight and Animal Powered Motors; Cylinders; Pistons; Drive Shafts; Flexible Shaft Couplings; Chucks or Sockets; Chute, Skid, Guide and Way Conveyers; Fluid Current Conveyers; Pneumatic Dispatch; Store Service; Wheel Substitutes	11-29-54	5-10-54
29. (V) HABECKER, L. B., Tools; Woodworking; Button, Barrel and Wheel Making; Rubber Tire Removing Tools; Washing Machines; Baggage; Cloth, Leather and Rubber Receptacles; Package and Article Carriers	10-4-54	2-23-54
30. (VII) O'LEARY, R. A., Refrigeration; Heating Systems; Automatic Temperature and Humidity Regulation, Thermostats, Humidistats; Illuminating Burners; Fluid Sprinkling, Spraying and Diffusing	1-3-55	1-25-54

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DIVISIONS, EXAMINERS AND SUBJECTS OF INVENTION (Roman numerals in parentheses indicate Examining Group)	Oldest Application	
	New	Amended
31. (I) HUTCHISON, E. W., Mineral Oils; Carbon Chemistry (part), e. g., Urea Adducts, Silicon Containing Carbon Compounds, Hydrogenation of Carbon Oxides, Partial Oxidation of Non-Aromatic Hydrocarbon Mixtures, Hydrocarbons, Halogenated Hydrocarbons	9-7-54	2-10-54
32. (VII) BERMAN, H., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitation; Fluid Pressure Modulators; Self Proportioning Fluid Systems; Liquid Level Responsive Systems; Fire Extinguishers	12-2-54	5-18-54
33. (V) MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures; Roads and Pavements	9-22-54	1-11-54
34. (IV) SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist Line Implements	10-4-54	11-20-53
35. (IV) BROMLEY, E. D., Dispensing; Filling and Closing Receptacles; Toilet, Kitchen and Table Articles	12-14-54	2-23-54
36. (V) McFADYEN, A. D., Measuring and Testing	12-15-54	7-19-54
37. (II) LEVY, M. L., Electricity—Switches, Welding, Heating	7-13-54	2-1-54
38. (I) MARMELSTEIN, N., Carbon Chemistry (part), e. g., Lignins, Azo, Carbohydrate Derivatives; Carbocyclic or Acyclic Compounds (part), e. g., Anthrones, Triarylmethanes, Esters, Acids, Ketones, Aldehydes, Ethers, Phenols, Alcohols	9-13-54	12-10-53
39. (IV) WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (except Pressure Modulating Relays, Self-Proportioning Systems, Float Valves, Diaphragms and Bellows)	1-18-55	3-8-54
40. (V) DRUMMOND, E. J., Receptacles—Metallic, Paper, Wooden, Glass; Special Receptacles and Packages	1-3-55	5-3-54
41. (V) GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds	6-16-54	9-24-53
42. (II) MARANS, H., Electric Signaling; Signals and Indicators; Telegraphy; Electrical Connectors	10-18-54	3-18-54
43. (I) ARNOLD, D., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching, Dyeing, Fluid Treatment of Textiles, Skins, and Leathers; Preserving, Sterilizing and Disinfecting (except Wood Treatment Apparatus)	9-21-54	11-4-53
45. (VI) MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances	12-3-54	7-7-54
47. (VI) KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles	12-15-54	6-9-54
48. (II) BERNSTEIN, S., Electricity—Conversion Systems, Protective Systems; Measuring and Testing (except Meters); Spark Plugs and Ignition Systems, Switchboards, Relays, Magnets, Inductors, Transformers, Condensers, Transistors, Barrier Layer Rectifiers	7-1-54	8-12-53
49. (VII) BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	10-25-54	5-6-54
50. (I) BENDEL, W. G., Carbon Chemistry (part), e. g., Synthetic Resins, Natural or Synthetic Rubber	11-22-54	4-12-54
51. (II) YAFFEE, S., Radio Transmitters, Receivers and Tuners; Oscillators; Modulators; Piezoelectric Devices; Music	10-23-54	3-12-54
52. (V) NEFF, P. R., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fasteners; Pipes and Tubular Conduits; Shaft Packing	11-10-54	4-1-54
53. (IV) REYNOLDS, E. R., Label Pasting and Paper Hanging; Card, Picture and Sign Exhibiting; Books and Book Making; Manifolding; Printed Matter; Stationery; Paper Files and Binders; Flexible or Portable Closures or Partitions; Doors, Windows, Awnings and Shutters; Harness; Whip Apparatus	11-19-54	1-4-54
54. (II) NILSON, R. G., Electric Lamps; Electronic Tubes; Miscellaneous Discharge Devices; Lamp, Cathode Ray and Gas Discharge Device Circuits; Ray Energy (e. g., X-Ray, Ultraviolet, Radioactive) Applications	9-30-54	1-13-54
55. (VII) KLINE, J. R., Surgery; Dentistry; Artificial Body Members; Separating and Sorting Solids; Centrifugal Bowl Separators; Comminutors	6-4-54	12-31-53
56. (I) KEELY, J. E., (SPECK, J. R., acting), Electrical and Wave Energy Chemistry; Liquid Separation or Purification	11-30-54	4-15-54
57. (III) MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings	2-16-55	3-23-54
58. (III) DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spitoons	10-26-54	1-4-54
59. (I) HENKIN, B., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-23-54	2-23-54
61. (III) MORSE (Miss), E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery	12-10-54	7-1-54
62. (IV) SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors; Illumination	11-12-54	4-23-54
63. (I) WINKELSTEIN, A. H., Foods and Beverages; Carbon Chemistry (part), e. g., Fats and Metal Containing Carbocyclic or Acyclic Carbon Compounds; Abrading Compositions; Coating or Plastic Compositions (part), e. g., Pigments, Fillers, Driers, and Organic Compositions	9-3-54	10-27-53
64. (I) GORECKI, G. A., Fuels; Miscellaneous Compositions	10-7-54	12-23-53
66. (V) LISANN, I., Geometric Instruments; Automatic Weighing Scales; Acoustics	9-15-54	2-2-54
67. (VII) KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making	10-27-54	5-5-54
69. (B) GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Conductors; Insulators	9-22-54	11-19-53
70. (II) BREWRINK, J. L., Explosive Weapons, Ammunition, Charges and Composition; Explosive Charge Manufacturing; Jet Motor Processes; Torpedoes; Radar; Sonar; Automatic Pilots; Antennas; Actinide Series (e. g., Fissionable) Compounds; Irradiation Chemistry; Mass Spectrometers	6-9-54	9-8-53
DESIGNS: {A—BREHM, G. L., Industrial Arts	12-7-54	12-13-54
{B—GRAY, M. A., Household, Personal and Fine Arts	12-30-54	11-19-54

The following divisions have been abolished: 10, 44, 46, 60, 65 and 68

## EXPIRATION OF PATENTS

The patents within the range of numbers indicated below expire during August 1955, except those which may have been extended under the provisions of the Veterans Patent Extension Act (64 Stat. 316 as amended by 66 Stat. 321) and those which may have expired earlier due to shortened terms under the provisions of Public Law 690. A list of Veterans' patents which have been extended appears in the *Annual Index of Patents—1955*.

Patents.....Numbers 2,125,263 to 2,128,888, inclusive  
Plant Patents.....Numbers 282 to 289, inclusive

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## DECISIONS IN PATENT CASES

### U. S. Court of Customs and Patent Appeals

#### IN RE GREENLEE

No. 6117. Decided May 25, 1955

[222 F.2d 739; 106 USPQ 104]

#### 1. DOUBLE PATENTING—DIFFERENCE ONLY IN SCOPE FROM CLAIMS OF PATENT.

Where an application is rejected on the ground of double patenting in view of claims of the applicant's copending patent and the subject matter in question appears broadly in the patent claims but is defined more clearly in the patent specification *Held* that the specification of the patent can be consulted to sustain the rejection.

#### 2. PATENTABILITY—PARTICULAR SUBJECT MATTER—HEAT HARDENING EPOXIDE CONTAINING RESIN COMPOSITION.

Claims to heat hardening epoxide containing resin composition *Held* properly rejected on the ground of double patenting.

APPEAL from the Patent Office. Serial No. 116,847.

AFFIRMED.

*Pennie, Edmonds, Morton, Barrows & Taylor* (Clarence M. Fisher and Frank E. Barrows of counsel) for Greenlee.

*E. L. Reynolds* (Clarence W. Moore of counsel) for the Commissioner of Patents.

Before GARRETT, Chief Judge, and O'CONNELL, JOHNSON, WORLEY, and COLE, Associate Judges.

JOHNSON, J., delivered the opinion of the court.

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting, on the ground of double patenting, claims 1, 2, and 9 of appellant's application for a patent on an epoxide resin composition containing a latent curing catalyst. The Board reversed the Examiner and allowed claims 7, 8, 10, and 11.

The invention relates to a composition comprising epoxide resins and a delayed action catalyst, the latter consisting of a "complex of boron trifluoride and any of a wide variety of nitrogen compounds having at least one nitrogen atom which does not have a negative group directly linked to such atom." The latent catalyst will hereafter be referred to as a boron trifluoride-amine compound. One object of the invention as stated in applicant's specification, is to provide "a new composition comprising an epoxide resin and a delayed action catalyst which composition will be stable at room temperature for long periods of time, but will react at elevated temperatures to produce insoluble and infusible products." Another object is to produce "reaction mixtures containing epoxides with other constituents reactive therewith to form resinous compositions, such mixtures also containing a latent curing catalyst."

The appealed claims are:

1. Heat hardening epoxide containing resin compositions having admixed therein as a latent curing catalyst a small amount of an addition product of boron trifluoride and an amine having at least one amino nitrogen atom which does not have directly linked thereto a negative radical.

2. Composition as in claim 1 in which said amine is an aliphatic amine.

9. A composition as defined in claim 1 dissolved in a volatile organic solvent.

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The references which were relied on are: Greenlee (1), 2,511,913, June 20, 1950; Greenlee (2), 2,528,360, Oct. 31, 1950.

The patents to Greenlee are appellant's patents.

In Greenlee (1), insofar as pertinent here, the inventive concept appears to reside in the production of a new product by combining an epoxide resin and an aldehyde aromatic amine resin, with or without the addition of a catalyst. The patent recites a series of catalysts which can be used, and states that "boron trifluoride has been found to be extremely active \* \* \* and in fact too active in a number of cases to be used as such." The patent further states that a latent type of catalyst, which on the application of heat liberates boron trifluoride, may be used. The latent type of boron trifluoride catalyst is then defined as being a compound of boron trifluoride with amines, amides, sulfides and the like. Claims 9 and 14 of Greenlee (1) are pertinent to the issue in this case, and read as follows:

9. A new resin composition containing in admixture substantial proportions of an aldehyde aromatic amine resin containing active hydrogen and of a complex epoxide resin containing an average of more than one epoxide group per molecule resulting from the reaction of bisphenol with epichlorohydrin in the presence of caustic alkali, and which complex epoxide resin is a polymeric product containing alternating aromatic and aliphatic nuclei united through ether oxygen and containing epoxide and hydroxyl groups and being free from other functional groups.

14. A molding composition made of the composition of claim 9 together with a catalyst selected from the group which consists of aliphatic amines, alkali metal hydroxides, alkali phenoxides, and boron trifluoride catalysts and capable of forming on hardening an infusible molded product. (Italics added)

In Greenlee (2), insofar as pertinent here, the inventive concept appears to reside in the production of a new product by combining epoxide resins with condensates of aldehydes and ammonia derivatives. The patent states that certain catalysts have been found advantageous for bringing about the reaction; that of these catalysts boron trifluoride has been found extremely active, in fact too active, in promoting such reactions; but that a latent type catalyst which on the application of heat liberates boron trifluoride may be used. The latent type of boron trifluoride catalyst is then defined as "coordinated compounds of boron trifluoride with amines, amides, sulfides and the like." Claims 11 and 14 of Greenlee (2) are pertinent to the issue in this case, and read as follows:

11. A composition containing in substantial proportions a fusible urea formaldehyde resin containing active hydrogen and a complex epoxide which is a polyether derivative of a polyhydric phenol containing epoxide groups and free from functional groups other than epoxide and hydroxyl groups, the proportions of complex epoxide and of urea formaldehyde resin varying from about equal parts by weight to about 9 parts of complex epoxide to 1 of urea formaldehyde resin.

14. A composition as defined in claim 11 which also contains a catalyst selected from the group which consists of aliphatic amines, alkali metal hydroxides, alkali phenoxides and boron trifluoride catalysts. (Italics added)

The Examiner rejected the claims here on appeal as being unpatentable over either of the Greenlee patents on the ground of double patenting. In doing so, he pointed out that in the patent claims the patentee used the term "boron fluoride catalysts" in a plural form and in a generic sense. The Examiner therefore concluded that the term clearly encompassed the latent

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curing catalyst which was set forth in the patent specifications. The Examiner further pointed out, in support of his double patenting rejection, that claim 1 of the application was broader with respect to the materials to be treated than the patent claims, and that the catalyst was a species of the catalyst recited in the patent claims.

The Board of Appeals affirmed the Examiner's rejection of the claims in issue here on the ground of double patenting, and stated that it could find nothing but a difference in scope as compared with the patent claims since the epoxide containing resin composition of claim 1 obviously and admittedly embraced the epoxide resin mixtures of the patents, and that the boron trifluoride-amine catalyst of claim 1 was embraced by the terminology "boron trifluoride catalysts" of the claims of the patents. The Board then concluded that claims 1, 2, and 9 were properly rejected on the ground of double patenting for the reason that only a difference in scope was involved over the claims of the patent, citing *In re Woodsome et al.*, 56 App. D. C. 138, 10 F.2d 1003; *In re Loiselour*, 34 CCPA (Patents) 765, 158 F.2d 309, 72 USPQ 110.

It is to be noted that the present application and the cited patents were co-pending. Therefore, according to the general rule, the patents are looked to only for what they claim. *In re Coleman, et al.*, 38 CCPA (Patents) 1156, 189 F.2d 976, 90 USPQ 100; *In re Horne-man, et al.*, 39 CCPA (Patents) 809, 194 F.2d 108, 92 USPQ 316.

It is well settled that the doctrine of double patenting precludes the issuance of a second patent on an invention covered in applicant's patent; therefore the main issue is whether the claims of the patent and the application are directed to one and the same invention. *In re Coleman, et al.*, supra. Appellant has not shown that the epoxide resins recited in claim 1 do not embrace the claimed resins of his prior patents. In fact, it is stated in his brief that "Claim 1 accordingly is generic so far as the epoxide resins are concerned, including the epoxide resins by themselves or in admixture with other substances including other resins." Thus, as far as we can see, this portion of claim 1 embraces what has been previously claimed in appellant's prior patents. However, appellant does contend that "claim 1 is specific to the use of a particular type of delayed action catalyst for use with such resins, this catalyst being not only an addition product of boron trifluoride with an amine, but with an amine of a particular kind, namely, 'an amine having at least one amino nitrogen atom which does not have directly linked thereto a negative radical.'" It is to be noted, however, that the claims of the prior patents recite the use of "boron trifluoride catalysts," and the specifications of the patents define these catalysts as being compounds of boron trifluoride with amines, amides, sulfides and the like. Furthermore, appellant states in his brief that the term "an amine" which appears in the specifications of the issued patents "is broad enough to include amines which do have such negative radicals, as well as those which do not." There can be no doubt that the portion of claim 1, which relates to the catalyst, is more specific than the catalyst claimed in the patents, or defined in the patent specifications. As far as we can see, both the patent claims and those of the application relate to the same general combina-

tion, and the first question before us is to determine whether, under the foregoing circumstances, a claim of an application which recites one element of a combination more specifically than that element is recited in the patent claims is subject to a double patenting rejection.

It has been held that in determining whether double patenting exists in any particular situation that if the inventor has obtained a patent, he may not, in a subsequent application, be allowed claims not patentably distinguishable over those of the patent, although the claims in the application are more specific, *In re Copeman*, 30 CCPA (Patents) 962, 135 F.2d 349, 57 USPQ 312, since the patentee has received all of the protection to which he is entitled, *In re Coleman, et al.*, supra. The correctness of this rule, we believe, is beyond question since, as stated in *In re Coleman, et al.*, supra, "it is obvious that were the contrary true, a patentee might indefinitely maintain a monopoly of ever diminishing scope."

We must therefore review the actions of the Patent Office tribunals in the light of the foregoing law, keeping in mind the statement of *In re Coleman, et al.*, supra, that it is difficult to lay down any general rule by which to determine when a given invention or improvements shall be embraced in more than one patent.

Claims 14 of both Greenlee patents recite the use of "boron trifluoride catalysts." It is deemed that this term encompasses a latent type of catalyst, containing boron trifluoride with amines, amides, sulfides, and the like, which on the application of heat liberates boron trifluoride since it is stated in the patent specifications that this type of catalyst can be used. In looking to the patent specifications to determine the scope of the term "boron fluoride catalysts," which appears in the claims, we do not feel that it is contrary to the general rule set forth in *In re Coleman, et al.*, supra, that the patents can only be looked to for what they claim since they were co-pending with the application. This practice of looking to the specification has been followed by this court in the past in *In re Copeman*, supra, wherein it was held that there was double patenting because the claims of the application differed only in scope from the claims of the patent, and wherein the feature upon which patentability was predicated in the appealed claims was not recited in the patented claims, but merely appeared in the patent specification. [1] It can readily be seen, therefore, that if the court felt in *In re Copeman*, supra, that the specification of the patent could be consulted to sustain a rejection of double patenting when non-inventive subject matter did not appear in the patent claims, but was recited in the claims of the application, that it certainly can be consulted in a situation such as this one where the subject matter in question appears broadly in the patent claims but is defined more clearly in the patent specification. In the present case we do not feel that it is amiss to express our opinion that if a person were to use a latent type of boron fluoride catalyst containing an amine, amide, or sulfide in practicing the invention set forth in claims 14 of the patents that the patentee-appellant would consider these claims to be infringed. We therefore feel that the Examiner's looking to the specification to determine the meaning of the term "boron fluoride catalysts" which appears in the patented claims was proper under the circumstances.



It is to be observed, however, that the latent curing catalyst of claim 1 of the application does not only consist of boron trifluoride and an amine, but of boron trifluoride and an amine having at least one amino nitrogen atom which does not have directly linked thereto a negative radical. In this respect, however, it is to be again noted that appellant has stated in his brief that the term "an amine" which appears in his patent specifications "is broad enough to include amines which do have such negative radicals, as well as those which do not." The further question must therefore be considered, namely, whether the Board was correct in holding that the appealed claims were but unpatentable species of the allowed patent claims, and that these claims were unpatentable to the applicant on the ground of double patenting.

We have thoroughly reviewed applicant's brief for the purpose of determining why the use of the catalyst specified in the claim of the application is inventive over the catalyst set forth in the patents, and we have found nothing therein which would conclusively show that the latent curing catalyst recited in claim 1 is not an unpatentable species of the catalyst recited in the patent claims. We must therefore agree with the Board's holding that only a difference in scope was involved over the patent claims, and that the appealed claims were therefore unpatentable in accordance with the above cited well settled law.

Appellant has strenuously urged both before us and before the Board that two different inventive concepts are involved, and that the appealed claims are therefore patentable over the patents, citing *In re Carlton*, 22 CCPA (Patents) 1223, 77 F.2d 363, 25 USPQ 390;

*In re Davis et al.*, 29 CCPA (Patents) 723, 123 F.2d 651, 51 USPQ 458; *In re Coleman, et al.*, supra; *In re Horneman*, supra. However we are of the opinion that these cases are inapposite since two inventive concepts are not involved in the present case. More specifically, appellant states in his brief that there are "two separate and distinct inventive concepts, one the new combinations of epoxide resins with other resins described and claimed in the issued patents, and the other the concept of the appealed claims involving the use of a particular group of catalysts with epoxide resins." For reasons stated above, we are of the opinion that the appealed claims possess the same inventive concept as claims 14 of the patents since both sets of claims relate to the combination of epoxide resin compositions containing boron trifluoride catalysts, the only pertinent distinction of the appealed claims being the specific catalyst utilized. We feel, as did the Board, that this amounts only to a difference in scope, especially since there is no evidence to the contrary.

Appellant has stated in his brief that "claims 2 and 9 are subordinate to claim 1 and do not need separate discussion." We therefore do not feel that it is necessary for us to consider these claims separately.

We have carefully considered all of the contentions which appear in appellant's extremely lucid brief, however we feel that it is unnecessary to answer them specifically since the foregoing application of the law, in our opinion, is determinative of the issues in this case.

[2] For the foregoing reasons, we are of the opinion that the decision appealed from should be affirmed.

**AFFIRMED.**

## PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,133,642, 2,133,644, 2,133,645, 2,133,646, 2,133,648, G. W. Pierce, Electrical system; 2,133,643, same, Electrical system and apparatus; 2,266,070, same, Electromechanical vibrator apparatus, filed June 1, 1951, D. C. Mass. (Boston), Doc. 51/526, *George Washington Pierce v. American Communications Co., Inc.* Judgment of dismissal as to claims 51, 52, 54, 55, 56, and 61-68, inclusive, of Patent No. 2,133,642 Dec. 28, 1954. Same, appeal filed Feb. 9, 1955, C. C. A., 1st Cir., Doc. 4938 and Doc. 4939, *George Washington Pierce v. American Communications Co., Inc.* Judgment of district court affirmed (notice June 15, 1955).

2,133,643. (See 2,133,642.)

2,133,644. (See 2,133,642.)

2,133,645. (See 2,133,642.)

2,133,646. (See 2,133,642.)

2,133,648. (See 2,133,642.)

2,234,534, L. E. Reno, Palmetto cutting and root exterminating machine, filed Apr. 1, 1953, D. C., S. D. Fla. (Tampa), Doc. 2324-T, *Lavere E. Reno v. Loren E. Washburn*. Order dismissing cause (notice June 29, 1955).

2,254,231, S. Marcus, Manufacture of doll eyes; 2,254,232, same, Doll eye and method of making same; 2,280,244, same, Doll eye; 2,280,245, same, Manufacture of doll eye assembly; 2,618,898, J. H. Wilhelm, Doll eye assembly, filed July 6, 1955, D. C., E. D. N. Y. (Brooklyn), Doc. 15683, *Margon Corp. v. Composition Novelty Co.*

2,254,232. (See 2,254,231.)

2,266,070. (See 2,133,642.)

2,280,244. (See 2,254,231.)

2,280,245. (See 2,254,231.)

2,287,260, J. V. Luck, Surgical instrument; 2,557,429, J. E. Hawley, Surgical bone saw drive, filed Oct. 28, 1952, D. C., S. D. N. Y., Doc. 79/378, *Zimmer Mfg. Co. v. Zimmer Splint Co. et al.* Stipulation and order of dismissal (notice June —, 1955).

2,288,701, F. Heden, Shell food gathering apparatus; 2,672,700, F. Hanks, Jr., Shellfish harvesting machine, filed June 30, 1955, D. C. Md. (Baltimore), Doc. 8338, *Fletcher Hanks, Jr. v. Courney Gernert et al.*

2,313,382. (See 2,384,839.)

2,318,200, J. Cobble et al., Automatic cutoff for sewing machines, filed Dec. 2, 1954, D. C., N. D. Ga. (Rome), Doc. 863, *G. H. Rauschenberg Co. v. Belcraft Chenilles, Inc.* Order of dismissal on motion of plaintiff (notice June 30, 1955). Same, Doc. 864, *G. H. Rauschenberg Co. v. Isidore Nusblatt et al.* Order of dismissal on motion of defendant (notice June 30, 1955).

2,333,087, M. F. Bayer, Sofa bed; 2,352,989, E. E. Woller, same, filed June 28, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18360-WM, *Simmons Co. v. Riviera Mfg. Co., Inc. et al.*

2,344,151, M. Kasser, Method and apparatus for treating perishable articles, filed June 28, 1955, D. C., N. D. Calif. (San Francisco), Doc. 34737, *Vacuum Cooling et al. v. Monterey County Ice and Development Co.*

2,352,989. (See 2,333,087.)

2,361,377, J. E. Bushnell, Paving, filed Sept. 2, 1954, D. C., S. D. Ill. (Springfield), Doc. 1790, *Blasc-Knoz Co. v. I. D. Lain Co., Inc.*

2,384,839, M. M. Kistner, Steam-electric pressing and ironing device; 2,313,382, same, Steam hand iron, filed June 27, 1955, D. C., S. D. N. Y., Doc. 101/336, *Merrill M. Kistner v. Eastern Metal Products Corp.*

2,430,076, J. L. Pollock, Method of welding rubber inner tubes, etc., filed June 27, 1955, D. C., S. D. Ind. (Indianapolis), Doc. IP 55/C/191, *Red Seal Rubberwelders v. White Star Rubberwelders*.

2,445,322, M. C. Fridolph, Body garment, filed June 29, 1955, D. C., S. D. N. Y., Doc. 101/358, *Sarong, Inc. et al. v. Regent Corset Co.* Same, filed May 18, 1955, D. C., S. D. N. Y., Doc. 100/358, *Sarong, Inc. et al. v. Melody Bra & Girdle Co., Inc.* Consent judgment; patent held infringed (notice July 14, 1955).

2,452,529, 2,452,530, 2,452,531, J. L. Snock, Magnetic core, filed July 1, 1955, D. C. Del. (Wilmington), Doc. 1723, *Hartford Nat'l Bank and Trust Co. et al. v. General Ceramics Corp.*

2,452,530. (See 2,452,529.)

2,452,531. (See 2,452,529.)

2,488,823, J. C. Miller, Filler retaining device for binder covers, filed July 1, 1955, D. C., N. D. Ohio (Cleveland), Doc. 31939, *Coast Envelope Co. v. William Ezline, Inc. et al.*

2,542,919, D. J. Freeman, Rigid type sheet material awning, filed June 30, 1955, D. C., E. D. La. (New Orleans), Doc. 5186, *B & M Corp. v. Acosta Awning Corp.*

2,557,429. (See 2,287,260.)

2,618,898. (See 2,254,231.)

2,632,371, H. S. Shoemaker, Cultivator, filed Jan. 8, 1954, D. C., N. D. Ga. (Rome), Doc. 807, *Henry S. Shoemaker v. Blanton Plow Co.* Stipulation and order of dismissal (notice June 30, 1955).

2,645,481, A. Barker, Novelty greeting card, filed June 30, 1955, D. C., N. D. Ohio (Cleveland), Doc. 31931, *Barker Greeting Card Co. et al. v. American Greetings Corp.* Same, filed July 13, 1955, D. C., S. D. Ohio (Cincinnati), Doc. 3603, *Barker Greeting Card Co. et al. v. Dow Drug Co. et al.*

2,672,194, F. F. Loudon, Supporting means for curtains, filed Dec. 23, 1954, D. C., District of Columbia, Doc. 5421/54, *Consolidated Trimming Corp. v. Florence F. Loudon*. Judgment dismissing complaint June 30, 1955.

2,672,700. (See 2,282,701.)

Des. 168,682, E. G. Frenzel, Figurine, filed Dec. 22, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c2441, *Continental Art Co. et al. v. Emil Bertolozzi et al.* Patent held invalid; complaint dismissed June 28, 1955.



# REISSUES

AUGUST 30, 1955

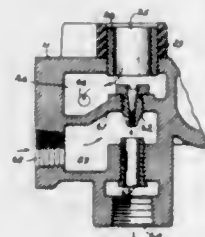
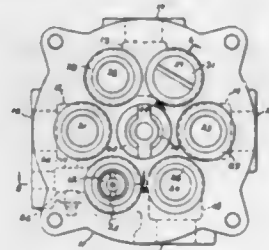
Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates additions made by reissue.

24,055

## MULTIPLE PORT VALVE

Lee G. Daniels, Rockford, Ill.

Original No. 2,605,992, dated August 5, 1952, Serial No. 639,920, January 9, 1946. Application for reissue October 28, 1954, Serial No. 465,768  
11 Claims. (Cl. 210—24)



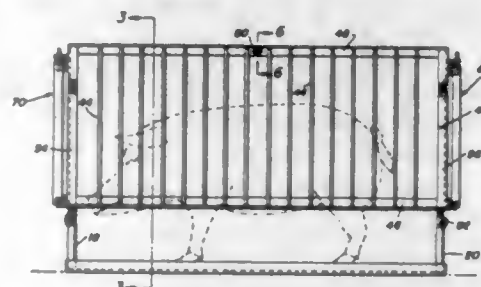
1. A valve comprising a body having a top chamber, a bottom chamber, two side chambers [and an injector chamber], each of said chambers being provided with an opening for connection with a pipe, and an injector chamber, said body having a face provided with ports arranged 60° from an adjacent port, each of said ports communicating with at least one of said chambers, said body also having a reagent chamber provided with an inlet [a pipe] connection, [and] a passage of smaller cross-sectional area than said ports connecting said injector chamber with said top chamber, an injector nozzle disposed between said injector chamber and said reagent chamber to deliver water from the injector chamber into a discharge connection from the reagent chamber [into the pipe connection of the reagent chamber] and thereby withdraw reagent from the latter, a valve plate arranged in confronting relation to said face of said body, a cover secured to said body and enclosing said valve plate, means for introducing fluid under pressure into said cover, means on said valve plate providing enclosed transfer passage means, said valve plate having through port means extending completely therethrough, open ports extending into said transfer passage means, and blind portion means, the ports of said body and valve plate being formed upon substantially equal radii, said valve plate being movable into a plurality of operative positions including a first position in which said open through port means establishes communication between the interior of said cover and said top chamber, said transfer passage means interconnects said bottom chamber and one of said side chambers and said blind portion means closes communication to the other of said side chambers, and another position in which said open through port means establishes communication between the interior of said cover and said injector chamber to deliver water to the injector chamber for passage to the nozzle and the top chamber [the top chamber and to the nozzle], said transfer passage means interconnects said bottom chamber and the other of said side chamber and said blind portion means closes a port communicating with said top chamber.

560

24,056

## FARROWING PEN

Johannes P. Johansen, Hampton, Iowa, assignor of one-half to Selmar L. Johansen, Dumont, Iowa  
Original No. 2,630,097, dated March 3, 1953, Serial No. 213,168, February 28, 1951. Application for reissue February 21, 1955, Serial No. 489,821  
4 Claims. (Cl. 119—19)

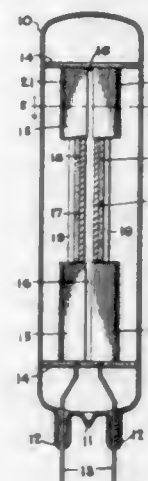


4. A discernible farrowing pen comprising a rectangular base, vertical supports mounted at the corners of said base, a pair of side frames adjustably mounted on said supports, members depending vertically from the lower corners of said side frame and said members and supports being telescopically received one within the other, said supports and said members having a plurality of aligned apertures, means extending through a selected pair of aligned apertures adjustably securing said side frames to said supports, the upper edges of said side frames being secured together in abutting relation, and end walls detachably secured to the ends of said side frames.

24,057

## GLOW LAMP

Mathew Nazzewski, Adams, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts  
Original No. 2,695,970, dated November 30, 1954, Serial No. 336,278, February 11, 1953. Application for reissue February 10, 1955, Serial No. 487,481  
3 Claims. (Cl. 313—117)



1. A glow lamp comprising a sealed glass envelope, an ionizable gas contained within said envelope, insulating disk positioned within and at opposed ends of said envelope, two inert metal L-shaped members supported by said disk within said envelope, two parallel rectangular plate electrodes partially disposed between said L-shaped members and supported by said disk, said insulating disk positioned perpendicular to the axial planes of said elec-

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trodes and said member, said L-shaped members defining a focusing slit positioned parallel to said electrodes in such a manner that a plane parallel to said electrodes and disposed therebetween will pass through said slit and wire leads extending from said electrodes through said glass envelope.

# PLANT PATENTS

GRANTED AUGUST 30, 1955

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,413

## ROSE PLANT

Otto A. Krieter, Chicago, Ill., assignor to A. N. Pierson, Inc., Cromwell, Conn., and American Bulb Company, Chicago, Ill., jointly

Application May 22, 1953, Serial No. 356,923

1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its abundant green foliage; its large, well-formed, symmetrical flowers; the deep yellow color of its flowers; and the substantial uniformity of the yellow color of its flowers throughout the year and under all weather circumstances, as contrasted with a somewhat similar yellow variety that at certain seasons normally produces a large percentage of whitish, unsalable flowers.

1,414

## APPLE TREE

Robert S. Lemcke, Tieton, and Jacob A. Snyder, Wenatchee, Wash., assignors to Columbia & Okanogan Nursery Company, Wenatchee, Wash.

Application October 12, 1954, Serial No. 461,943

1 Claim. (Cl. 47—62)

The new and distinct variety of apple tree of the Rome Beauty type, substantially as herein disclosed, characterized particularly by its fruit having exceptionally good keeping qualities; long blocky shape with relatively deep and uniform basin; and early-developing, distinctive bright red coloring which covers the entire fruit.

697 O. G.—40

1,415

## ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application November 5, 1954, Serial No. 467,249

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the large-flowered polyantha class, substantially as herein shown and described, characterized particularly as to novelty by its vigorous, free-growing and free-production habits of growth under normal greenhouse conditions, the attractive shape of its half-open buds and their suitability for cut flowers, the distinctive flat shape of its open flowers, with resulting hiding of the stamens, and the White color of its Floribunda type flowers.

1,416

## ROSE PLANT

Charles Mallerin, Par le Pont-de-Claix, Isere, France, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application November 10, 1954, Serial No. 468,176

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climber class, substantially as herein shown and described, characterized particularly as to novelty by its floriferousness and repetition of bloom throughout the summer and fall, its very strong foliage and the distinctive Dark Cress Green general color tonality thereof, the shape and size of its flowers comparable to those of "Paul's Scarlet Climber" and the distinctive Scarlet Red general color tonality of its flowers.



# PATENTS

GRANTED AUGUST 30, 1955

## GENERAL AND MECHANICAL

2,716,239

### BODY GARMENT

Cora M. Barndollar, Boulder Creek, Calif.  
Application August 14, 1953, Serial No. 374,319  
1 Claim. (Cl. 2—69.5)



A body garment for enwrapping the trunk and legs of a person, comprising an elongated back panel, transverse lines of fold dividing said back panel into successive back rest, seat, apron and foot rest sections; each of said sections adapted to overlies the corresponding portions of a chair, a pair of identical but oppositely disposed side panels joined to said back panel along longitudinal edges, each side panel having a longitudinal line of fold to divide said panel into a side and top portion of said garment, transverse lines of fold in each of said side panels to divide said panel into upper, intermediate and lower sections; said upper, intermediate and lower sections being coextensive with said back rest, seat and apron sections of said panel; each of said side panels having a line of cut extending along the transverse line of fold between said upper and intermediate sections from the longitudinal edge thereof secured to said back panel to said longitudinal line of fold to form a corner permitting folding of said side panels along the transverse lines of fold, and a piece of material secured to each of said panels along adjacent edges of the corner defined by the line of cut, the longitudinal edges of said side panels opposite to the longitudinal edges joined to said back panel being provided with separable fastening means; a second separable fastener means carried by the lower edge of the lower section of one side panel and the lower edge of said foot rest portion respectively and extending partially about said body section; a third separable fastening means carried by the lower edge of the other of said side panels and the lower edge of said foot rest section respectively extending partially across said body garment and terminating adjacent the termination of said second separable fastening means; a top flap carried by said back panel, and means carried by said flap to secure the garment to the back rest of the chair.

2,716,240

### GARMENT UNDER ARM CONSTRUCTION

Charles F. Trageser, Baltimore, Md., assignor to Stadium Manufacturing Company, Inc., Baltimore, Md., a corporation of Maryland  
Application July 11, 1952, Serial No. 298,224  
1 Claim. (Cl. 2—93)

The combination with a sleeping garment having a body and a sleeve therefor and having, under the arm, adjacent the junction of and in both the sleeve and body a vertically extending strain relieving opening, of a gusset forming an extensible, vertical closure for the opening wider near its vertical center than at its ends, the gusset

comprising two parallel sections when the sleeve is raised in line with the body with the rear edges of both sections being stitched through throughout their lengths, to normally retain the gusset within the garment and with the



2,716,241

### GLOVE MAKING METHOD AND GLOVE

Earl W. Goodman, Willard, Ohio, assignor to The Pioneer Rubber Company, Willard, Ohio, a corporation of Ohio  
Application March 8, 1954, Serial No. 414,587  
4 Claims. (Cl. 2—169)



1. A glove making method comprising making a pair of identical glove shell blanks with the wrong sides of the material on the outer surface and sewing the blanks together around the periphery of the blanks to make an ambidextrous glove shell, turning the glove shell inside out to have the right side of the material on the outside, tensioning portions of the glove shell by shaping it to one hand shape on a form, covering the shaped glove shell with a liquid coating material that penetrates into the glove shell fabric while the shell is on a form, and setting the coating to make a glove shaped to one hand shape from the ambidextrous glove shell while still on the form.

2,716,242

### FLUSH VALVE ASSEMBLY

James E. Robinson, La Follette, Tenn.  
Application October 29, 1953, Serial No. 388,936  
1 Claim. (Cl. 4—37)

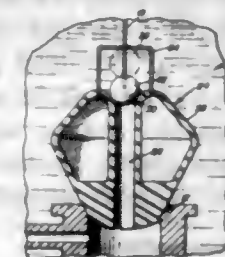
In a toilet flush tank including an outlet port and conventional flush valve actuating means, a flush valve assembly comprising a primary valve body engageable with said outlet port to seat therein and provided with a secondary valve passage in constant communication with the outlet port, a secondary valve body engageable with said secondary valve passage to seat therein, a stem operatively connected to said actuating means and to said secondary valve body whereby the secondary

AUGUST 30, 1955

GENERAL AND MECHANICAL

563

valve body is unseated upwardly from said secondary valve passage prior to the unseating of the primary valve body from said outlet port, and a guiding cage

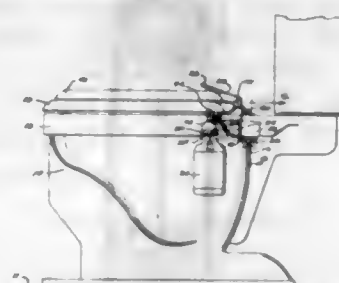


for said secondary valve body rising from and fixed to said primary valve body and lifted by the secondary valve body when unseated to lift and unseat the primary valve body.

2,716,243

### DEODORANT ATTACHMENT FOR TOILET BOWL

Albert F. Kimzey, Skyland, N. C.  
Application January 6, 1953, Serial No. 329,913  
2 Claims. (Cl. 4—222)

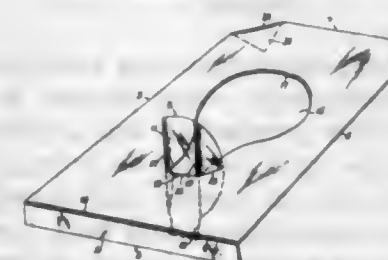


1. A deodorant attachment for a toilet bowl comprising a bracket adapted to be detachably secured to a toilet bowl and to project outwardly from the associated bowl, said bracket having an aperture of circular shape therein and angularly spaced apart tongues projecting inwardly of the perimeter of said aperture, a deodorant container having a neck extending through said aperture and provided with a screw thread formation engaged by said tongues to secure said neck in said aperture with said container depending from said bracket, an annular flange formed on said bracket surrounding the aperture, a packing ring mounted in said flange in sealing engagement with the container neck, a lever pivotally mounted on said bracket and having one end disposed for engagement by the seat cover of an associated toilet bowl for imparting rotational movement to said lever when the associated cover is raised, a resilient stopper mounted on the other end of said lever and resiliently urged into closing relationship with the flange, said stopper being movable away from said container neck by rotational movement of said lever in response to raising of the associated toilet seat cover.

2,716,244

### TOILET SEAT ADAPTOR

Roland J. Wendel, St. Ann's, Mo.  
Application March 16, 1953, Serial No. 342,397  
6 Claims. (Cl. 4—239)



1. A disposable toilet seat adaptor particularly for converting a standard toilet seat to children's use, comprising a blank of cardboard adapted to rest upon a standard toilet seat and having a detachable cut-out shaped so that upon its removal from the blank a children's size toilet

seat opening is provided in the blank, said cut-out being somewhat less than wholly severed from the blank so that it initially forms a part of the blank but may be readily detached by tearing it away from the blank, the blank having a narrow slot at the front of the cut-out adapted to receive the detached cut-out to serve as a deflector, and the cardboard being of sufficient stiffness to support a child's weight as used on a toilet seat.

2,716,245

### LIFE PRESERVER

Frederick E. Desjarlais, Agawam, and Arthur Desjarlais, Springfield, Mass.  
Application August 12, 1952, Serial No. 303,904  
6 Claims. (Cl. 9—19)

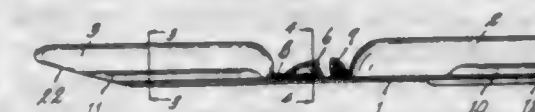


1. In a life preserver for assisting swimmers comprising a closed belt with an elastic section for allowing said belt to expand and contract freely, water wings comprising a rubber bladder covered with an expandable fabric, a water wing connected on each side of said elastic section, elongated flaps connected at one end to said belt for securing the water wings when in a folded position, said flaps having a width substantially the same size as said belt, snaps on said flaps at another end, eyes on said belt for locking said snaps into position with said folded water wings, a valve vertically mounted in said belt, an airtight T connection, said T connection being connected to said valve and to each water wing whereby air may pass from the valve to said water wings.

2,716,246

### WATER SKI

James R. Billingham, Kalamazoo, Mich.  
Application June 24, 1953, Serial No. 363,715  
9 Claims. (Cl. 9—21)



1. A water ski comprising an elongated flat body of wood, a forward buoyant body of expanded polystyrene secured to the top of the front of said elongated body and projecting forwardly therefrom in an upwardly and forwardly inclined under surface, a rear buoyant body of expanded polystyrene secured to the top of the rear end of said elongated body and spaced rearwardly from said front buoyant body, a water ski binding secured to said elongated body between said buoyant bodies, an integral continuous coating of water impervious plastic material covering all surfaces of said buoyant bodies and said elongated body, said buoyant bodies having elongated recessed flutes formed along their lower edges and above said elongated body with the flutes, in the rear buoyant body opening to the rear end of the ski, and elongated fins secured along the under side of said elongated body and extending to the rear end thereof.

2,716,247

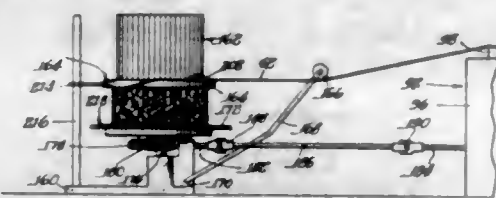
### HELICALLY COILED WASHER STRIP AND METHOD OF AND APPARATUS FOR PRODUCING SAME

Ougliesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application August 3, 1950, Serial No. 177,535  
25 Claims. (Cl. 10—86)

9. A method of forming a helical coil of integrally attached washers which comprises forming a washer strip by removing from a strip of stock pieces of waste mate-



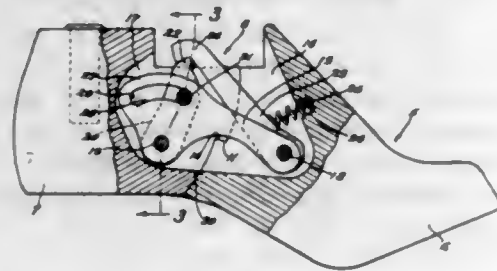
rial complementary to a succession of washers and integral connections therebetween, bending said washer strip laterally in the plane thereof to form a succession of convolutions, bending said washer strip transversely about an axis lying in the plane of the washer strip,



bending said convolutions out of the plane of the washer strip in a direction longitudinally of the washer strip to form helical convolutions having the same diameter, and stacking said convolutions in superimposed relation with the corresponding washers of the convolutions positioned in alignment axially of the coil.

#### 2,716,248 SHOE LAST

Henry G. Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio  
Application September 27, 1954, Serial No. 458,520  
3 Claims. (Cl. 12-136)



1. A collapsible shoe last comprising a forepart and a heel part each having mating surfaces forming co-operative shoulders for maintaining the said last parts in operative, expanded positions, a heightwise catch plate, at least a transverse pin for fixing the plate in the heel part, a latch lever pivotally mounted in the forepart and engageable with the catch plate for releasably locking the parts in operative positions, an articulating link connecting the heel part with the forepart and having an elongated slot therethrough for receiving the pin, said slot being of an extent to permit collapse of the last parts and having an end engageable against the pin to preclude collapse of the link against the body of the heel part.

#### 2,716,249 METHOD OF MAKING A SHOE COUNTER STRUCTURE

William J. Holloway, Worcester, Mass.  
Application October 22, 1953, Serial No. 387,665  
2 Claims. (Cl. 12-146)



1. The method of strengthening the counter region of a shoe comprising stitching together two sheets of a plasticizable material to provide a pocket between them, inserting in said pocket a perforated metal plate having the general form of a shoe counter, and then inserting the pocketed metal plate within a counter pocket formed between sheet elements of a shoe upper, followed by inject-

ing an activated solvent into the counter pocket to render the plasticizable material of said stitched-together sheets relatively plastic, and lasting the said sheet elements of the upper at the counter region of the shoe with incidental molding of the said plastic material into intimate relation to surfaces and edges of the metal plate and with expression of plastic material into perforations of the plate and into adjacent available spaces within the counter pocket, and allowing the plastic material to set to relative hardness within the counter pocket.

#### 2,716,250 DISPENSER AND DISPENSING HEAD CONSTRUCTED TO DELIVER THE CONTENTS OF A CONTAINER TO A FABRIC FOR SATURATION

Thorpe W. Deakers, Los Angeles, Calif., assignor to Ever-Dry Corporation, Los Angeles, Calif., a corporation of Nevada  
Application August 27, 1952, Serial No. 306,555  
10 Claims. (Cl. 15-134)



1. A head for a liquid dispenser which includes, a fabric-holding member having a rim and inner tapered walls extending therefrom and contracting downwardly to a liquid opening, a fabric extending across the rim and down the sides thereof, a clamping ring clamping the fabric to said rim, there being provided a chamber between the fabric and downwardly tapered walls of the holding member, and a flexible spider member supported by said fabric-holding member and in turn offering support for the portion of the fabric crossing said rim, said flexible spider member having a valve head for closing said opening.

#### 2,716,251 GREASE APPLICATOR

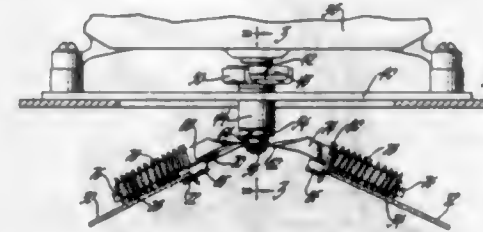
Amy Pearce, Vancouver, British Columbia, Canada  
Application May 16, 1949, Serial No. 93,444  
1 Claim. (Cl. 15-136)



An applicator for grease comprising a resilient bulbous container, a relatively large outlet therein, a stiff, outwardly threaded collar attached to and surrounding said outlet, a stiff, hollow neck having its lower and largest end internally threaded to engage said threads on said collar of the bulbous container, said neck tapering to a large, rectangular slot across the top of said neck, and a stopper to fit the slot, and a semi-rigid flap on one longer side of the slot, said semi-rigid flap projecting outwardly from across the top of the neck, and the outward edge of said flap having a point projecting outwardly at each outward corner of said semi-rigid flap, said points and the outward edge of the flap tapering to a thin edge.

#### 2,716,252 WINDSHIELD WIPERS

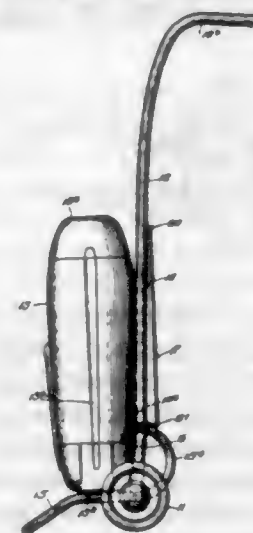
Harry A. Mackie, Birmingham, and Louis P. Garvey, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application August 23, 1949, Serial No. 111,778  
16 Claims. (Cl. 15-253)



1. In a windshield wiper mechanism, power means, a crank connected to said power means, a rod secured on one side of the axis of said crank having a U-shaped cross section and an abutment at the end, fastening means secured to said crank on the other side of the axis of said crank, driving means connected to a windshield wiper blade, a movable detent on said rod, connecting means between said detent and said driving means, a second connecting means between said fastening means and said driving means, resilient means on said rod engaging said abutment and urging said detent in a direction to tighten said connecting means.

#### 2,716,253 PORTABLE VACUUM CLEANER STRUCTURE

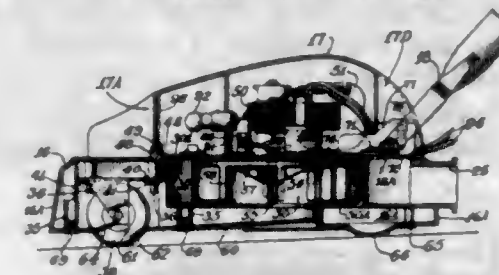
Joseph Albert Schwarz, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois  
Application February 10, 1950, Serial No. 143,463  
2 Claims. (Cl. 15-323)



1. A wheeled vacuum cleaner structure adapted to be propelled over a surface and comprising a pair of spaced wheels and an axle extending therebetween, an elongated handle having one end attached to the axle, a vacuum cleaner including a casing fixed to the handle and positioned adjacent to but spaced from the axle, the handle being located at the rear of the casing at substantially the center thereof, and a forwardly-extending support member positioned adjacent to the wheels and to the cleaner casing for supporting the structure on said surface with the cleaner casing and handle in upright position, the support member including a pair of rigid portions attached to the axle adjacent to the opposite ends thereof and fixed to opposite sides of the casing at places spaced upwardly from the axle to provide a rigid structure, each rigid portion of the support member being curved rearwardly, upwardly and then forwardly from the axle to the cleaner casing.

#### 2,716,254 VACUUM CLEANERS

Elmer L. Hoffmann, Park Ridge, and Bernhardt B. Bruggen, Berwyn, Ill., assignors to Raymond T. Moloney  
Application December 30, 1948, Serial No. 68,256  
4 Claims. (Cl. 15-402)



1. In a vacuum cleaner, a main housing shell having at least two sets of crossed reinforcing ribs on opposite sides thereof, and wheel mounts including wheel-supporting brackets each having a longitudinal section intersecting a crosswise section and each mounted on a set of said crossed ribs with their respective longitudinal sections each resting along one rib of the corresponding set and their respective crosswise sections each resting along the corresponding crosswise rib portion, each said set of ribs having boss formations engaged in the corresponding wheel bracket, and bracket-securing means engaged with said bosses.

#### 2,716,255 FURNITURE SUPPORTING ELEMENT AND FLOOR GUARD

George R. Laure, Kalamazoo, Mich.  
Application August 10, 1953, Serial No. 373,205  
1 Claim. (Cl. 16-42)



In a furniture supporting device, the combination comprising: a furniture supporting element of rod-like form bent through a curve of more than 270°, a one piece floor guard mounted on said furniture supporting element around the bend therein, said floor guard having a pair of substantially parallel side walls, end walls joining the side walls and a bottom wall connecting the side walls and being rounded in a longitudinal direction, and a pair of raised portions extending towards each other from the opposed surfaces of said side walls, said raised portions being located above the upper surface of the furniture supporting element where said device is bent, said raised portions being shaped to conform to the shape of the concave side of the furniture supporting element, the edges of said raised portions blending taperingly into the adjacent portion of said side walls, said side walls, bottom wall and end walls together contacting said furniture supporting device around the entire convex side of the bent portion of said element and through more than 180° of its circumference.

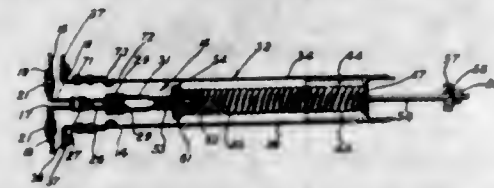
#### 2,716,256 COUNTERBALANCED DOOR CHECK

Ralph H. Wise, Wayne, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application June 16, 1951, Serial No. 231,936  
1 Claim. (Cl. 16-86)

In a motor vehicle body having a door and a body member having a door opening therein, a bracket secured to the body member adjacent the door opening and extending into said door through an opening in the latter, an elongated generally horizontal supporting bracket mounted within said door, a toggle link pivotally connected



to the bracket carried by the body member, a second toggle link pivotally connected to the supporting bracket carried by the door, means pivotally connecting the opposite ends of said two toggle links together, a generally horizontal arm pivotally connected to said pivotal means, a member on said supporting bracket having an opening through which said arm extends, a cup-shaped retaining member carried by said arm and retaining means carried by said supporting bracket for cooperation with said cup-shaped retaining member, said retaining means com-



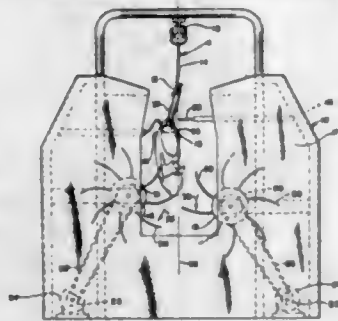
prising a plurality of spring fingers arranged in pairs with each pair of spring fingers comprising a primary spring finger secured to the supporting bracket and having a bent end portion projecting into the path of the cup-shaped retaining member and a secondary spring finger also secured to said supporting bracket and having a yieldable bent end portion in alignment with the bent end portion of said primary spring finger but spaced therefrom to back up the latter and increase the resistance of the latter to movement by said cup-shaped retaining member.

2,716,257

**POULTRY PICKING MACHINE**

Delos B. Van Dolah and Irvin R. Lentz, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois

Application December 17, 1951, Serial No. 261,998  
7 Claims. (Cl. 17-11.1)



1. A poultry picking machine including a frame, a pair of drums rotatably mounted in said frame and having flexible fingers projecting therefrom, said drums being positioned generally side by side with one of said drums being mounted at a higher elevation than is the other of the drums, and power-driving means operatively connected to said drums to drive said one drum substantially faster than said other drum.

2,716,258

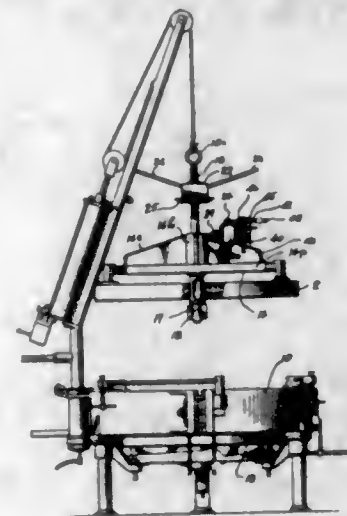
**POWER APPLYING UNIT FOR THE CLAMP NUT OF A TIRE MOLD**

Harold L. Sugg, Wenatchee, Wash.

Application July 13, 1951, Serial No. 236,530  
2 Claims. (Cl. 18-18)

1. In a tire mold of the character described including a clamp plate adapted to be lifted from and lowered onto the mold, a vertical screw shaft extended freely through the clamp plate and equipped at its lower end with an anchoring means adapted to be releasably engaged with the mold to secure the screw shaft for a clamping operation and against turning serving when released from the mold for the lifting of the plate from the mold and equipped at its upper end with means for the attachment of a lifting member thereto, and a nut threaded on the screw shaft and equipped with means for manual adjustment from and against the plate when the shaft is se-

cured for a clamping operation; a reduction gear train mounted on the clamp plate having means at one end to which a power drive can be applied and having a pinion gear at its other end, and said nut having a turning gear thereon adapted to be lifted from mesh with said pinion



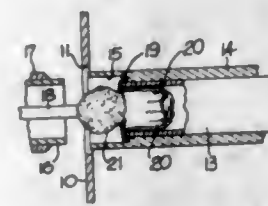
gear by the lifting of the screw shaft and to be engaged in mesh with said pinion gear by the lowering of the said screw shaft for the transmission of tightening force from the power drive to the nut through the meshing gears.

2,716,259

**METHOD OF MAKING FABRIC SACKS, ESPECIALLY FOR SURGICAL SPONGES OR THE LIKE**

Carl W. Mott, Lake Ozark, Mo., assignor, by mesne assignments, to The Kendall Company, Boston, Mass., and Chicago, Ill., a corporation of Massachusetts

Continuation of abandoned application Serial No. 41,798, July 31, 1948, which is a division of application Serial No. 721,410, January 10, 1947. This application December 19, 1951, Serial No. 262,352  
16 Claims. (Cl. 19-144.5)



15. The method of making a surgical sponge constituted of a fastened sack of gauze substantially filled with its own marginal portions comprising gathering marginal portions of gauze sheet material around the outside of a fastening element having an opening therethrough of temporarily fixed dimension less than that of said sheet material, and, while retaining said opening unexpanded beyond said fixed dimension, infolding said portions back through said opening and with the remaining portions of the gauze forming a sack containing said infolded portions and constricting the fastening element to closely gather said infolded portions inside of the sack adjacent the mouth thereof with free ends of the infolded portions extending inwardly of the sack beyond the constricted fastening element, to substantially fill the sack, said fastening element retaining the folds formed at the juncture between the infolded portions and the sack-forming portion.

2,716,260

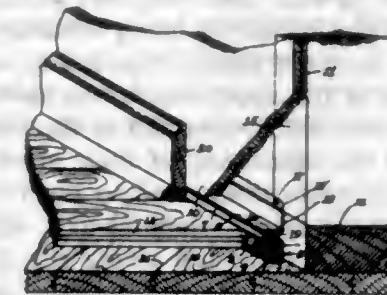
**EXPANSION JOINT AND GROUND STRIP**

Roy M. Harper, Rochelle, Ill.

Application April 21, 1952, Serial No. 283,315  
4 Claims. (Cl. 20-1)

1. A combination wall and floor construction comprising a combination wall mounting and finish floor abutment strip of resilient sheet metal construction and elongated form secured to the front of a bottom plate over

a sub-floor and formed to a substantially S-shaped cross-section so as to afford a rectangular channel in the outer side of the lower portion of the S, and a vertically compressible and expansible rectangular top loop portion, the outer edge of said top loop portion affording a slicking-off surface for use in the application of a coating of plaster flush with said outer edge, a strip of compressible-expan-



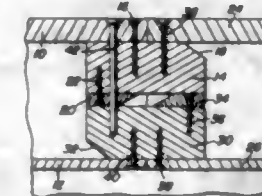
sible material entered in the aforesaid channel, finish flooring applied over the sub-floor in tight resilient abutment with said last-named strip in said channel, a wall board having its lower edge in resilient abutment with the top of the top loop portion of said first-named strip, and an outer plaster coating covering said wall board and coming flush at the lower edge with the slicking-off surface on the top loop portion of said first-named strip.

2,716,261

**BUILDING CONSTRUCTION**

Chester A. Huffman, Elkhart, Ind.

Application March 9, 1953, Serial No. 341,010  
4 Claims. (Cl. 20-4)



1. A building construction including a first unit and a second unit arranged in abutting relationship, each of said units comprising an inner panel and an outer panel, means securing said panels in spaced relationship, a first vertically extending member secured to said outer panel and having a portion thereof extending beyond said outer panel, the outer edge of the portion of said first vertically extending member extending beyond said outer panel being bevelled, a second vertically extending member secured to said inner panel and having a portion thereof extending beyond said inner panel, the inner edge of the portion of said second vertically extending member extending beyond said inner panel being bevelled, a first outwardly tapered wedge secured to the innermost surface of said first vertically extending member and a second outwardly tapered wedge secured to the outermost surface of said second vertically extending member, the said portion of said first vertically extending member being received between the inner and outer panels of said second unit, the said portion of the second vertically extending member being received between the inner and outer panels of said first unit, said wedge secured to said first vertically extending member wedgedly abuttingly engaging said second vertically extending members.

2,716,262

**HINGED WINDOW SASH STRUCTURE WITH PIVOTED BOLT FASTENER**

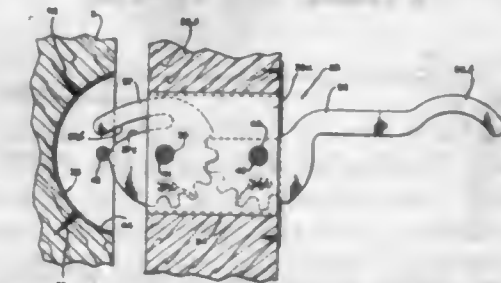
Joseph H. Oswald, South Euclid, Ohio

Original application April 5, 1952, Serial No. 280,710. Divided and this application May 17, 1954, Serial No. 430,134

7 Claims. (Cl. 20-53)

1. An outwardly opening hinged window comprising a wood sash, a wood frame to which one edge of the sash

is hinged, said frame at a point remote from its hinged side having a part formed with a slot-shaped perforation extending through it from the inner side to the outer side of the frame; and fastening means for the sash comprising a housing disposed in the perforation between the open ends thereof and having openings in its opposite ends in line with the open ends of the perforation, means for securing the housing in the perforation, a fastener bolt turnably mounted in the outer part of the housing with a portion of it projecting more or less from the outer face of the frame and the outer end of the housing, said fastener bolt having its part which projects from the outer



face of the frame and the outer end of the housing formed with push and pull cam surfaces, an actuating lever operatively mounted in the inner part of the housing, the said lever projecting from the inner end of the housing and the inner face of the frame, means forming a drive connection between the actuating lever and the bolt constructed to effect a wide-range turning movement of the bolt, and a keeper secured to the sash in position to cooperate with the push and pull cam surfaces of the fastener bolt, whereby angular movement of the lever causes strong pulling and pushing forces on the sash in the sash-closing and opening directions, respectively.

2,716,263

**MOLDING CLIPS**

Laurence H. Flora and John Balint, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application February 24, 1953, Serial No. 338,254  
3 Claims. (Cl. 24-73)

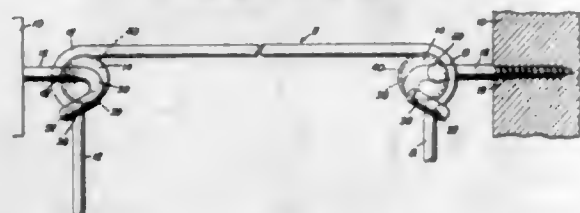


1. A molding clip for mounting a molding having inturned flanges, said clip comprising a piece of sheet metal providing a plate-like base adapted to extend generally transversely of the molding between said inturned flanges, a shank depending from said base adapted to be secured in an opening in a support to mount the molding on the support, said base having opposite strip portions defining a pair of longitudinal spring arms diverging outwardly in opposite directions beyond said base and adapted to extend generally lengthwise of said molding in connected relation therewith, each of said spring arms being provided as an extension of said strip portions and being bent substantially normal to said base such that the molding engaging surfaces of said spring arms are yieldable transversely of the molding and adapted for surface engagement with the wall of the molding adjacent one of said inturned flanges of the molding, said base having another portion comprising a cam surface leading to a ledge adapted for connected relation with the other inturned flange of said molding, said ledge being spaced from the molding engaging surfaces of said spring arms when untensioned a distance greater than the space between the wall portions of the molding adjacent said in-



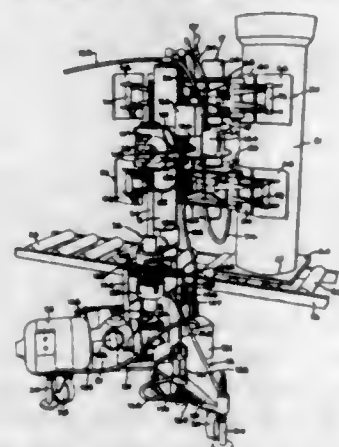
turned flanges, whereby said molding clip is adapted to be connected to the molding by first connecting said spring arms to the associated flange of the molding and causing said spring arms to yield as the other flange of the molding slides over said cam surface into connected relation with said ledge.

**2,716,264**  
**CLOTHESLINE CLAMP**  
Erwin W. Lange, Kenosha, Wis.  
Application July 16, 1952, Serial No. 299,132  
2 Claims. (Cl. 24-134)



1. A rope clamp comprising a linearly straight shank cylindrical in cross-section and having means whereby one end is attachable to a fixed support and having a return bend at its opposite end underlying said latter end of the shank and providing a hook, said hook including a bill portion and said bill portion being coplanar with said shank and having a lateral extension, said extension projecting at right angles beyond the plane of the hook and shank portions and having an oblique-angled terminal, said terminal being directed toward said turn bend and being in a position in spaced relation to said bill portion and constituting a guard finger, a pulley located in the space between the hook and guard finger and superimposed against and eccentrically pivoted on the intermediate portion of said shank in a plane directly above the plane of said extension, the peripheral portion of said pulley being swingable in an arc toward and from said lateral extension.

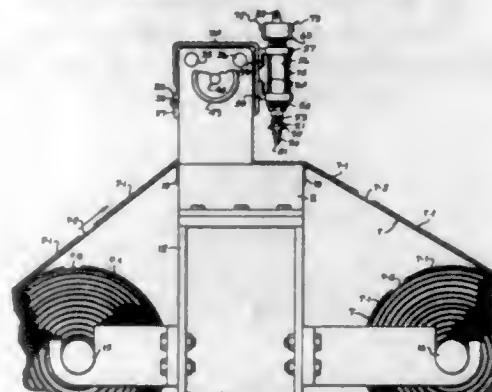
**2,716,265**  
**APPARATUS FOR INVERTING TILE SECTIONS**  
Cecil E. Webb, Norwood, Ohio, assignor to M. S. Bowne, Clearfield, Ky., as trustee  
Application March 9, 1950, Serial No. 148,593  
6 Claims. (Cl. 25-40)



6. In a machine for inverting freshly formed clay pipes relative to a supporting surface, a turret arm mounted for rotation about a substantially horizontal axis, a pipe clamping device mounted upon the said turret arm at one side of the axis of rotation, the clamping device constituting an upper and lower pair of opposed, normally open clamping jaws located in positions to grip the upper and lower portions of the clay pipe, bracket members on opposite end portions of the turret arm supporting the jaws, pivot means connecting the jaws to said bracket member for arcuate motion relative to one another, releasable locking means on said bracket members securing the same to the turret arm, the upper and lower pairs of jaws thereby being shiftable along the turret arm relative

to the said horizontal axis upon release of said locking means, said jaws, by their relative spacing along the turret arm, distributing the clamping forces applied to the clay pipe, a respective fluid pressure cylinder mounted upon each of said bracket members, one for each pair of clamping jaws, a pair of pistons slidable independently within each of said cylinders and connected to the opposed jaws to move the jaws toward one another, a fluid pressure supply, the respective cylinders being connected in common to said fluid pressure supply, thereby to equalize the clamping pressure of the upper and lower pairs of jaws, a power operated valve interconnected in the fluid pressure supply to control the admission of fluid pressure to said cylinders, a power motor connected to the turret for rotating the same about said horizontal axis with the pipe engaged by the jaws to lift and swing the pipe section through an arc for deposit upon the supporting surface in inverted position, and a control system interconnected with the power motor and power operated valve to close said jaws and rotate the turret arm.

**2,716,266**  
**TOWEL STRAIGHTENING APPARATUS**  
John T. MacIsaac, Jr., Frank W. Brey, and Robert A. Hill, Spray, N. C., assignors, by mesne assignments, to Fieldcrest Mills, Inc., a corporation of Delaware  
Application April 24, 1953, Serial No. 350,942  
18 Claims. (Cl. 26-51.4)

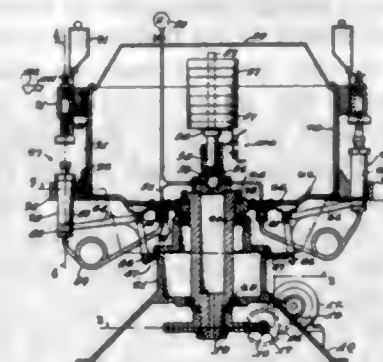


1. Apparatus for maintaining transverse relatively thin lineal areas on a moving sheet of web material, having intervening relatively thick areas between said thin areas, substantially at right angles to the path of travel of the moving sheet comprising a member over which the sheet is moved, at least two feeler devices resting upon the sheet above said member and being disposed adjacent opposite selvages of the moving sheet and being adapted to move downwardly upon engagement by said transverse areas, a normally inoperative clamping device disposed adjacent and controlled by each of said feeler devices, and means responsive to downward movement by one of the feeler devices in advance of downward movement by the other of the feeler devices for causing the clamping device corresponding to said one of the feeler devices to clamp the corresponding selvage portion of the sheet of web material against said member until the feeler devices are both simultaneously in downward position in engagement with a common transverse lineal area.

**2,716,267**  
**MACHINE FOR ASSEMBLING SPARK PLUG ELECTRODES**  
Robert K. Christle and Carl J. Eaton, Toledo, Ohio, assignors to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware  
Application June 1, 1951, Serial No. 229,476  
5 Claims. (Cl. 29-25.19)

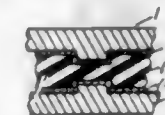
1. A machine for assembling spark plug bodies and central electrodes having elongated upwardly open annular spaces therebetween that comprises, in combination, a rotary frame, a plurality of stations mounted on said frame, each of said stations having a lower section com-

prising, a vertically reciprocable mount, a support adapted to removably receive a loosely assembled spark plug body and central electrode, said support being vertically movable relative to said mount, and pressure applying means for holding said support in upper position on said mount and for resisting downward force on said plug and support with a selected pressure, mechanism for vertically reciprocating each of said mounts a predetermined distance and a number of reciprocations for each rotation of said frame, each of said stations also having an upper section comprising, a bracket, a downwardly directed, hollow tool adapted to enter the annular space between a



spark plug body and a central electrode, said tool being adjustably mounted in said bracket, powder charging means having an actuating element extending below said tool and engaged by the upper end of a spark plug body for depositing a measured charge of powder in such annular space prior to the entry of said tool therein, a tool cleaner normally extending downwardly into said tool and displaceable upwardly therefrom by said electrode as said tool enters such annular space, and means for applying a predetermined pressure to all of said individual station pressure applying means whereby each consecutive charge of powder is compacted in each annular space with the same pressure.

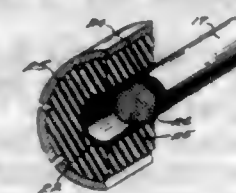
**2,716,268**  
**METHOD OF MAKING PRINTED CIRCUITS**  
Oliver I. Steigerwalt, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania  
Application October 16, 1952, Serial No. 315,050  
5 Claims. (Cl. 29-155.5)



1. The method of making printed electric circuits which comprises arranging a metal foil on an uncured deformable base of fibers of insulating material and an impregnating plastic and including adhesive material under the foil and with a die on the foil having embossing projections thereon corresponding to the circuit to be printed, pressing the die, foil and base together in a press having platens heated to approximately the flowing temperature of the impregnating plastic, the initial pressure being sufficient to emboss the foil under the projections into the underlying surface of the base prior to the heating of the base to the temperature of the thermoplastic or flowable stage of the plastic, continuing the platen pressure at the curing or setting pressure for the base and maintaining the same until the foil is united and consolidated with the base, and surface abrading away the foil coated surface of the base to a depth below that of the unembossed portions of the foil to leave only the embossed portions of the foil united with the base.

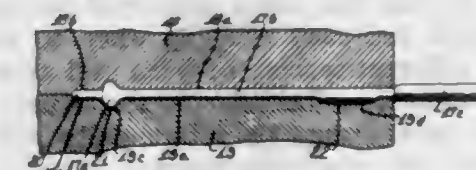
**2,716,269**  
**METHOD OF BUSHING FRANGIBLE BODIES TO MAKE FRACTUREPROOF**  
Marshall H. Frisbie, Hamden, and Shirley P. Morse, East Haven, Conn., assignors to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland  
Original application August 21, 1945, Serial No. 611,882.  
Divided and this application July 28, 1950, Serial No. 176,326

6 Claims. (Cl. 29-155.54)



1. The method of preparing a hard frangible rotor body containing a mounting hole for press fit assemblage with an oversize shaft and of effecting said assemblage without danger of fracturing said body, which includes the steps of holding together in surface contact a tubular bushing of pliant compressible paper impregnated with an uncured liquid thermosetting resin and a surrounding uncured mass of powdered condensation product of thermosetting composition, applying sufficient heat simultaneously to said bushing and said mass while same are held in surface contact to bond the contacting surfaces thereof fixedly together whereby said bushing forms a relatively soft and compressible laminate lining permanently united with said hard frangible body and bordering said shaft hole, and then pressing endwise into said hole a shaft whose overall diameter sufficiently exceeds the inner diameter of said bushing to squeeze the relatively soft material of the latter radially outward against the surrounding hard surface of said frangible body thereby to produce a tight press fit in which the compressibility of said bushing sufficiently relieves said frangible body of stresses and strains to avoid fracturing the same.

**2,716,270**  
**METHOD OF MAKING TURBINE BLADES**  
Emil F. Giblan, Cleveland Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application January 25, 1951, Serial No. 207,739  
1 Claim. (Cl. 29-156.8)



The method of accurately making turbine blade blanks for gas turbine engines which comprises die forging a headed rod to form an elongated blade blank, said blade blank comprising a root portion at one end, a grip portion at the other end, and an air foil portion between said ends, simultaneously with the die forging operation forming a pair of buttons on one face of the blank, one adjacent each end thereof and each located transversely on the blank so that the transverse mass of blank material is divided equally on each side of the button, said buttons cooperating to form a datum axis for the blank, heating the blank, locating the heated blank in a trimming operation by the use of the buttons, hot trimming the blank, locating the blank in a coining die by the use of buttons, said die having cavities of substantially the same but smaller shape than the die forged blank, coining the heated blank in said die, locating the blank in a trimming operation by the use of the buttons, cold trimming the blank, locating the blank in a second coining die by the use of the buttons, said second coining die



having cavities of substantially the same but smaller shape than the blank leaving the first coining die, and cold coining the blank in said second coining die.

2,716,271

# ENAMELING PROCESS AND ARTICLE PRODUCED THEREBY

Waldo W. Higgins, Kankakee, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

No Drawing. Original application September 22, 1943, Serial No. 503,442. Divided and this application May 6, 1949, Serial No. 91,876

3 Claims. (Cl. 29—195)

1. The process of producing a coated steel article, comprising selecting a killed steel base for the article, impregnating the steel surface of the article with from 1% to 6% chromium to prevent hydrogen phenomena, and thereafter applying to said surface a coating which is susceptible to damage by hydrogen phenomena, whereby said coating is bonded to said surface and is free from defects due to hydrogen phenomena.

2,716,272

# PISTON AND PISTON RING INSTALLING TOOL

Fred A. Wenk and Douglas W. Hamm, Muskegon, Mich., assignors to Muskegon Piston Ring Company

Application May 2, 1951, Serial No. 224,144

4 Claims. (Cl. 29—224)



1. In a tool for holding piston rings in the ring grooves of a piston and effecting the introduction of said piston and rings into a cylinder bore, the combination comprising: a resilient split sleeve; a pair of crossed members pivoted at their point of crossing and having adjacent ends of each thereof affixed one to each of the free, opposed, edges of said sleeve; a hook pivotally affixed to one of said adjacent ends and extending toward the other thereof; a disk pivotally mounted on the other of said adjacent ends and a plurality of pins extending from said disk and positioned from the center of said disk at unequal distances with respect to each other; each of said pins being positioned for engagement with said hook and each effecting when so engaged by said hook a different spacing between said adjacent ends; a cantilever member affixed to said sleeve near one axial end thereof and extending substantially diametrically thereacross a rod extending through said bracket and on the axis of said sleeve.

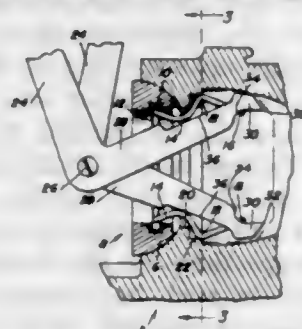
2,716,273

# SPRING INSERTING PLIERS

Henry W. Woodruff and Hugh C. Woodruff, Huron, S. Dak.

Application July 30, 1954, Serial No. 446,835

1 Claim. (Cl. 29—229)



For use in handily and safely installing a steam gasket in a passenger train steam pipe coupling wherein said gasket

is provided with a retainer spring having diametrically opposite oblique-angled resilient loop-like detents; manually actuatable pliers comprising a pair of pivotally connected handles provided at their pivoted ends with laterally directed end portions, the latter having terminals structurally designed to extend through the slot portions of said detents in a manner to engage the bight portions of the respective detents and to thus permit the user to forcibly squeeze and press the detents toward each other so as to clear an existing keeper flange on the stated coupling, whereupon when the detents are intentionally released and thus relieved of pressure, they snap into retentive engagement with said flange, said laterally directed end portions being rectangular in cross-section and flat-faced, said terminals being fashioned into offset heads and said heads having pointed ends to pilot and guide themselves through the stated slots and into engaging relation with the bight portions of the respective detents, said heads being likewise flat-faced and of relatively thin rectangular cross-section and such that they accommodate and adapt themselves to the restricted slot existing between the limbs of the loop-shaped detents, said laterally directed end portions being rigid, single ply and of the same cross-section from end to end, the respective outer longitudinal edge portions thereof being cut away to provide clearance notches, said clearance notches being situated inwardly of the stated offset heads.

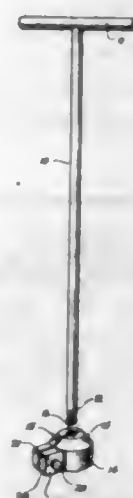
2,716,274

# VALVE LIFTER PULLER

Fred C. Smith, Seattle, Wash.

Application March 3, 1952, Serial No. 274,606

1 Claim. (Cl. 29—280)



A hand puller for a valve lifter as employed in an engine having the lifter fitted in a guide bearing that is coaxially aligned with a valve rod guide bushing and a valve seat substantially spaced from the lifter; said puller comprising a clamp member of inverted, cup-like form with a cylindrical body adapted to be applied over the upper end portion of the lifter and having an integral end wall; said clamp members being diametrically split through the said end wall and one side wall to permit slight contraction of the body portion, and also formed concentrically of the end wall with a threaded opening through which said body split passes, an elongated pull rod adapted to be freely passed downwardly through the guide bushing and having a handle at its upper end and having a threaded lower end portion adapted to be freely threaded into said threaded opening of the clamp member, and a clamp bolt applied through the split body portion of the clamp and adapted to be tightened to effect the diametrical contraction of the clamp member whereby the clamp member is secured to the valve lifter and said rod is locked against release from or turning in the threaded opening of the clamp member.

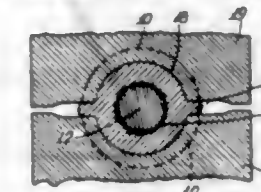
2,716,275

# METHOD OF MAKING A CONNECTOR WITH HARD PARTICLE LINING

Irving Frederick Matthyse, New York, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York

Original application August 7, 1948, Serial No. 43,023. Divided and this application June 27, 1951, Serial No. 233,908

2 Claims. (Cl. 29—459)



1. The method of manufacturing a connector having a soft malleable metal tubular body and a lining of particles harder than the connector body which comprises air spraying molten beryllium copper into the form of loose particles of relatively small size, reheating the particles and slowly cooling the same until they harden, and thereafter securing the loose prehardened particles with an adhesive to the inner wall of the tubular body at a temperature which will not affect the hardness of the beryllium copper particles.

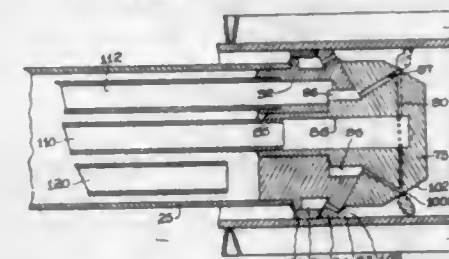
2,716,276

# METHOD OF BONDING FINS TO TUBES

John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Fintube Company, Elyria, Ohio, a corporation of Ohio

Original application February 10, 1947, Serial No. 727,598, now Patent No. 2,572,593, dated October 23, 1951. Divided and this application April 26, 1951, Serial No. 223,079

5 Claims. (Cl. 29—487)



1. The method of progressively bonding a longitudinally extending metallic fin member to the exterior of a metal tube by means of a bonding metal having a melting temperature lower than the melting temperature of the fin member and tube comprising the steps of bringing together the fin member and tube, supplying the bonding metal to the surfaces of fin member and tube that are to be joined together, engaging the fin member by guide means and thereby holding the fin member against the tube, continuously axially moving the assembly of tube and fin member with respect to said guide means, internally heating each annular increment of said tube to a temperature sufficient to melt said bonding metal by moving said assembly through a heating zone, and thereafter cooling each such annular increment to solidify said bonding metal, said heating and cooling taking place in the zone in which said fin member is held against said tube by said guide means.

2,716,277

# CONTAINER OPENER WITH PIVOTED GUARD

Edward Riley, Crete, Nebr., assignor to one-half to M. A. Benne, Crete, Nebr.

Application October 29, 1952, Serial No. 317,488

1 Claim. (Cl. 30—16)

In a container opener, the combination which comprises an elongated bar, rectangular-shaped in cross section providing a body portion or handle, an upper bar

having a shank positioned against one side of the handle and having an end extended beyond one end of the handle with a diagonally disposed V-shaped section with sharp edges carried by the extended end of the shank and connected to said shank with an arcuate upwardly disposed portion, the extended end of said V-shaped section having a point positioned at a slight angle and extended toward the handle, and the end of said shank positioned at the point of intersection of the arcuate upwardly disposed portion and straight portion thereof being provided with a depending tang whereby with the tang positioned under a bead on the end of a can the point of the V-shaped section is adapted to be pressed through the end wall of the can by upward movement of the handle, a plastic finishing plate secured to the outer surface of said shank, a lower bar having a shank positioned against the under



surface of the handle and also having an end extended beyond the end of the handle, said lower bar having an arcuate portion formed in the extended end providing a guard for the point of the V-shaped section of the extended end of the upper bar, a plastic finishing plate secured to the outer surface of said lower bar, the shanks of the upper and lower bars and bar of the handle having aligned openings extended therethrough, and the bar of the handle having a counter-bore in one side and around said opening, a pivot pin positioned in said openings pivotally connecting the shanks of the upper and lower bars and handle, and a split spring washer positioned in the counter-bore of the bar of the handle, the ends of the washer normally lying in different planes and being compressed into the same plane by the meeting faces of the handle and upper bar, thereby tending to restrain the elements of the device against relative rotation.

2,716,278

# ELECTRIC RAZOR

Rutherford E. Thompson, Des Moines, Iowa

Application April 1, 1953, Serial No. 346,121

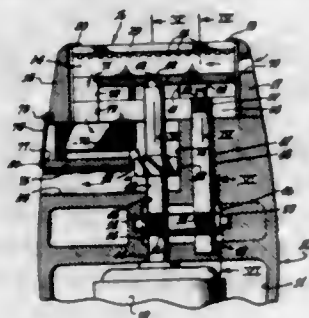
13 Claims. (Cl. 30—41)



11. An electric razor comprising a casing, a substantially flat circular comb on said casing, said comb having a plurality of slits therein adapted to have whiskers extend therethrough, a cutting blade within said casing mounted to pivot about an axis substantially coinciding with the axis of said circular comb, means for pivoting said blade so that the blade sweeps over the inside surface of said comb, whereby said blade is adapted to cut the whiskers extending through the slits in the comb, each said slit in said comb having a whisker-engaging edge against which the whiskers bear during the whisker-cutting operation, said edges of the slits and said blade being so disposed relative to radii extending from the axis of said comb that said blade makes an angle with the whisker-engaging edge of each slit as the blade sweeps past said slit edge, whereby the whiskers extending through said slits are sheared off by the blade, and means carried by said casing for radially tensioning said comb.

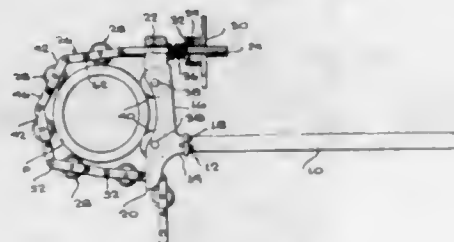


**2,716,279**  
**ELECTRIC RAZOR HAVING SUCTION MEANS THEREFOR**  
 Albin K. Peterson, Torrance, Calif.  
 Application January 26, 1952, Serial No. 268,369  
 4 Claims. (Cl. 30—41.5)



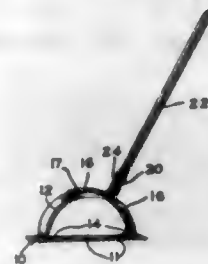
4. In a razor including a drive means, the combination of: a housing for said drive means; means forming a chamber within said housing; a hollow cutting head assembly carried at one end of said housing and operably connected to said drive means; said cutting head assembly including a ported end wall leading to the interior of said hollow cutting head assembly and means forming an inlet passageway at the end of the assembly opposite to said ported end wall communicating with said chamber; a removable receptacle means positioned within said chamber to collect hair particles drawn through said inlet passageway; and a suction fan operably carried by said drive means within said housing to draw cut hair particles from the cutting head assembly through said inlet passageway into said chamber.

**2,716,280**  
**CHAIN TYPE PIPE CUTTER**  
 Ralph Ruhe, North Arlington, N. J.  
 Application April 25, 1952, Serial No. 284,302  
 1 Claim. (Cl. 30—101)



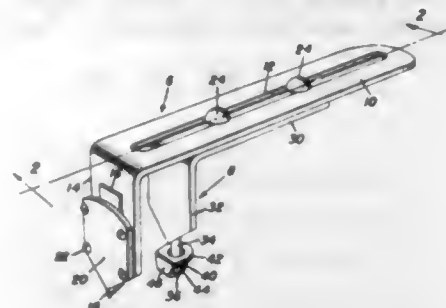
In a pipe cutter, a chain including a plurality of links pivotally connected to one another in end to end relationship, each link including a pair of identical oppositely disposed link members, each link member having an intermediate portion and first and second portions respectively extending from said intermediate portion with the first portion shorter in length than the second portion and offset relative to the second portion, the intermediate portions of the pair of link members converging in the direction of the shorter portions, the shorter portions of the link members of each link extending in longitudinal contact with each other and embraced between and overlapped by the longer portions of the link members of a next adjacent link; means pivotally connecting the shorter portions of one link to the overlapping, longer portions of said next adjacent link; cutter wheels rotatably mounted on and between the longer portions of each link; and spacer lugs on said intermediate portions of each link disposed adjacent the periphery of the cutter wheel of the same link, to prevent movement of the midlength parts of the link members of each link toward one another.

**2,716,281**  
**ADJUSTABLE WEED CUTTER**  
 Eldridge W. Wallace, Oakland, Maine, assignor to North Wayne Tool Company, Oakland, Maine, a corporation of Maine  
 Application January 26, 1953, Serial No. 333,278  
 5 Claims. (Cl. 30—279)



1. A weed cutter comprising a blade, arcuately shaped members extending from opposite end portions of said blade and converging toward one another, arcuately shaped arms for registry with said arcuately shaped members for adjustable movement longitudinally of said members, means to fix said arcuately shaped arms on said arcuately shaped members in adjustable relationship, and handle attaching means secured to said arcuately shaped arms for securing said arms to said handle whereby the handle may be mounted in fixed relation to said blade.

**2,716,282**  
**GASKET CUTTER**  
 Carl B. Kromsten, San Francisco, Calif.  
 Application July 31, 1952, Serial No. 301,884  
 2 Claims. (Cl. 30—310)

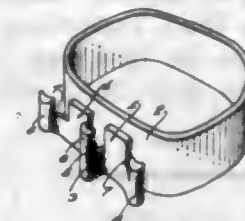


1. A gasket cutter of the class described comprising a first L-shaped unit having long and short arms at approximate right angles with each other, a cutter blade removably mounted on the short arm, a second L-shaped unit detachably and adjustably mounted on the long arm of said first unit and including long and short arms, the short arm thereof terminating at its lower end in a V-shaped portion, a centering pin cylindrical in cross-section and of limited cross-section affixed to the V-shaped end and projecting beyond the vertex thereof and terminating in a penetrating point, a washer affixed to said pin, a U-shaped member embodying upper and lower apertured spaced parallel arms connected at corresponding ends with a bight portion, the upper apertured arm being slidably and rotatably mounted on said pin above said washer, the pointed end of the pin extending through and beyond the aperture in the lower arm of said U-shaped member.

**2,716,283**  
**ORTHODONTIC DEVICE**  
 Spencer Roane Atkinson, Pasadena, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California  
 Application August 29, 1952, Serial No. 307,129  
 5 Claims. (Cl. 32—14)

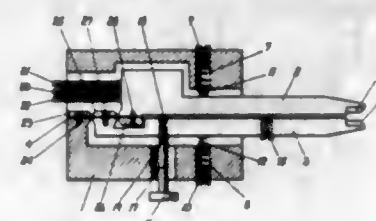
1. An orthodontic device, comprising: a blank bent to form a central rib; end ribs and a pair of attachment portions therebetween, the upper ends of said ribs being

notched to define a channel passing across said attachment portions to receive an orthodontic wire, said end ribs



being displaceable to exert bearing pressure against said orthodontic wire.

**2,716,284**  
**MEASURING DEVICE**  
 Alvar Torsten Westberg, Sandviken, Sweden, assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden  
 Application October 3, 1951, Serial No. 249,595  
 Claims priority, application Sweden October 4, 1950  
 5 Claims. (Cl. 33—149)



1. In a measuring device, the combination comprising a body member establishing a support, an elastic member secured to said body and movable with respect to said body, and a pair of feeling members secured to said elastic member, said feeling members being movable relative to each other on said elastic member and both movable as a unit with said elastic member relative to said body and being movable from a preset position in a direction from each other by the objects to be measured.

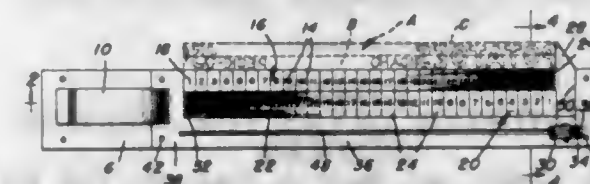
**2,716,285**  
**ADJUSTABLE INDICATOR HOLDER**  
 Joseph A. Rudhart, Philadelphia, Pa.  
 Original application October 30, 1946, Serial No. 706,547, now Patent No. 2,625,746, dated January 20, 1953.  
 Divided and this application December 17, 1952, Serial No. 326,393  
 3 Claims. (Cl. 33—172)



3. In an adjustable indicator holder, the combination of a tool receiving chuck, a mounting construction adapted to be secured to said chuck comprising a hollow shank, a pair of spaced arms integrally connected to said shank and depending downwardly therefrom, a lever pivotally mounted between said arms and having one end located between said arms and the other end disposed below said arms, a U-shaped yoke on the end of the lever between said arms presenting vertical fingers on opposite sides of said shank in spaced relation thereto, an adjusting screw threadably mounted in each finger and having a free end normally engaging said shank, the end of the lever between said arms being provided with a transverse notch, a plunger slidably mounted in said shank having a blade end

which engages said notch to hold the lever vertical, a coil spring housed within said shank with one end thereof pressing against said plunger, a threaded plug carried by the shank in adjustable engagement with said spring to vary the compression thereof, and an adjustable attaching rod on the end of the lever below said arms for supporting an indicator.

**2,716,286**  
**MEASURING GAGE FOR LINOTYPE SLUGS**  
 Ernest F. Penna, Holland, Mich.  
 Application August 14, 1951, Serial No. 241,715  
 2 Claims. (Cl. 33—174)



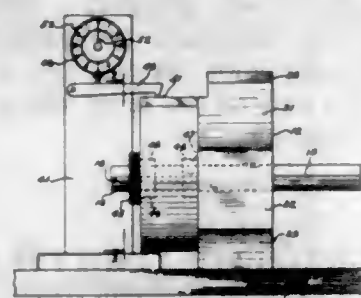
1. For use on a Linotype machine at a point where slugs are delivered while still hot, a measuring gage the use of which makes it possible for an operator to accurately measure and determine at a glance the quads and predetermined spaces needed atop an underbuilding slug for stabilizing support of any overhanging letter or combination of letters on a precast primary complemental slug comprising a rigid linearly straight base having adapter means at one end for attachment to and retention upon a given part of the Linotype machine, said base having a lengthwise straight edge having consecutively numbered graduations forming a stationary scale, plate means superimposed upon the graduated surface of said base, said plate means being spaced above said surface and providing a shoulder at one end of said base and said shoulder constituting an index for said stationary scale, said plate means also providing a stop shoulder at the opposite end of said base, a flexible scale slidably superimposed on said base, and having consecutively numbered graduations cooperating with the graduations embodied on said stationary scale, an indicating finger fixed to one end of the flexible scale and coplanar therewith and slidably contacting said base and cooperating with and projecting outwardly and beyond said straight edge, said indicating finger being provided with an upstanding angularly disposed finger piece, and said finger piece being slidably engaged with and interposed between said plate means and base to facilitate actuating said flexible scale, the opposite end of said flexible scale being free, a casing mounted on one end of said base and having a slot in close proximity to an adjacent surface of the base, the free end portion of said flexible scale passing through said slot and being adapted to coil itself within the confines of said casing under certain measuring conditions.

**2,716,287**  
**GAGES FOR MEASURING IRREGULARLY-SHAPED ARTICLES**  
 Roland Hillstrom, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
 Application November 5, 1953, Serial No. 390,366  
 5 Claims. (Cl. 33—174)

2. A gage for checking irregularly-shaped articles, which comprises a cylinder provided with flats spaced around the periphery thereof forming sides thereof for checking an article having a predetermined irregular contour, each flat on the cylinder being such a distance away from the axis of the cylinder that points on the flats form a contour varying identically with the desired contour of the article but reversed with respect thereto, and means for holding the article in a fixed position centered with and at one end of the cylinder 180° out of phase with



the cylinder, whereby the distance from each flat to the high point on the cam adjacent to the opposite side of

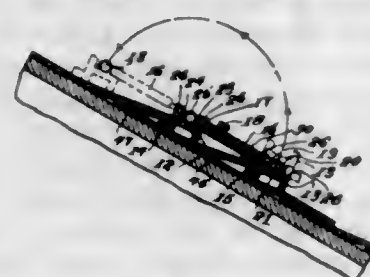


the cylinder should be identical with those between each other flat and the corresponding point on the article.

2,716,288

# STRAIGHT-EDGE DEVICE FOR APPLYING SHINGLES

George K. Geddis and Rene A. Laplante, Fall River, Mass.; said Geddis assignor to said Laplante  
Application September 8, 1954, Serial No. 454,814  
3 Claims. (Cl. 33-188)

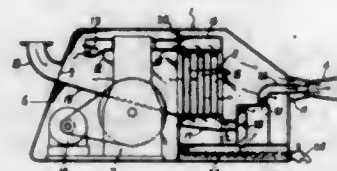


2. A straight-edge device for applying shingles comprising a first straight bar member, a second straight bar member, a plurality of connecting rods pivotally secured at their ends to the respective bar members, said connecting rods being adjustable in length and connecting the bar members in parallel relationship, said bar members being rotatable around their pivotal connections to said rods on parallel axes and through angles of at least 180 degrees, respective outwardly projecting marginal flanges on one longitudinal edge of each bar member, said flanges being substantially equal in thickness, and a plurality of clamp members pivotally mounted on each bar member and being swingable to positions overlying the respective marginal flanges.

2,716,289

# METHOD AND APPARATUS FOR THE SLOW DRYING OF STORED MATERIAL

Francis W. Lauck, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York  
Application July 19, 1952, Serial No. 299,865  
9 Claims. (Cl. 34-27)



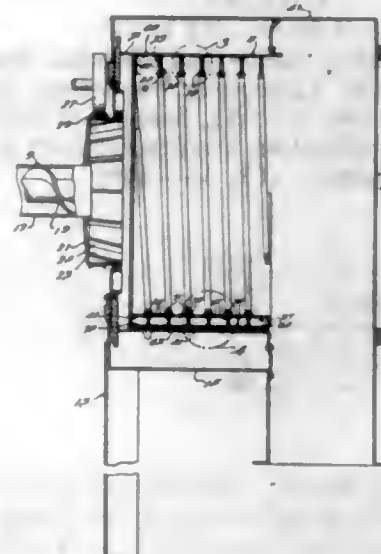
5. A closed cycle method of drying stored material contained in a substantially airtight vessel, which comprises introducing substantially dry fluid into one end of said vessel, withdrawing moist fluid from the other end of said vessel, said fluid flowing through the stored material and acquiring moisture from said material during the flow, introducing a portion of the moist fluid into a fluid compression means to compress the same, by-passing the remaining portion of the moist fluid around said compression means, utilizing the by-passed portion of said fluid to cool the compressed portion of

the fluid with water being condensed from the compressed fluid as the same is cooled below the dew point thereof, separating the condensed water from the compressed portion of the fluid, expanding the compressed portion of the fluid into the flow path of the by-passed fluid, and recycling the dried fluid through the stored material in said vessel.

2,716,290

# DRIER

Henry F. Irving, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York  
Application June 21, 1951, Serial No. 232,685  
7 Claims. (Cl. 34-57)



1. Apparatus for removing liquid from moist solid material, including a stationary chute having a peripheral surface, said chute having an inlet opening adjacent one end thereof and an outlet opening adjacent the opposite end thereof, a baffle connected with said chute and extending helically around said peripheral surface from a point adjacent the chute inlet opening to a point adjacent the chute outlet opening for directing material helically through the chute, mechanism for feeding said moist material into one end of said chute with a rotary component of motion and sufficient velocity to at least initially cause the material to slide around the walls of the chute in contact therewith means providing an opening in the peripheral surface of said chute through which heated gases may flow into said chute, a member connected with said chute and extending through said opening into said chute substantially tangentially to said peripheral surface, a plenum chamber adjacent said chute, means supporting said member in said plenum chamber so that the same may be adjusted therein to vary the size of said opening and thus control the flow of gases into said chute.

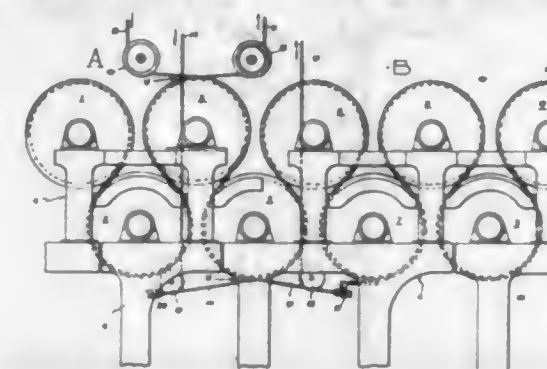
2,716,291

# ROPE TRANSFER MEANS FOR DRIER ROLLS AND THE LIKE

James A. Daly, Jr., Downingtown, Pa., assignor to Lukens Steel Company, Coatesville, Pa., a corporation of Pennsylvania  
Application October 29, 1953, Serial No. 388,950  
15 Claims. (Cl. 34-120)

1. Rope transfer means for transferring the tail of a web of paper or the like from one pair of tail-engaging ropes to a second pair, the web being adapted to travel over a first roll of the paper drier type to and over a second similar roll and each of said rolls having at one of their ends grooved pulleys substantially in line in a vertical plane comprising lead-on pulley means associated with each roll such that the ropes constituting the second pair each travel onto one of said grooved pulleys from one of the lead-on pulley means in a path that is in a

vertical plane substantially in line with the vertical plane of said grooved pulleys and take-off pulley means associated with each roll such that the ropes constituting the

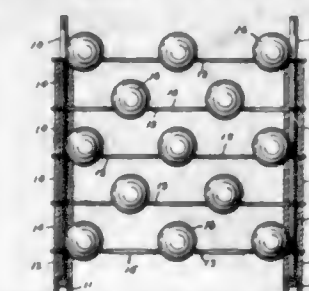


first pair each travel from one of the grooved pulleys to one of the take-off pulley means in a path that is in a vertical plane which is oblique to the plane of the grooved pulleys on said rolls.

2,716,292

# CRYSTALLINE STRUCTURE DEMONSTRATION DEVICE

Harry Benjamin, Cleveland, Ohio, assignor to The Harshaw Chemical Company, Elyria, Ohio, a corporation of Ohio  
Application August 15, 1952, Serial No. 304,551  
7 Claims. (Cl. 35-19)



1. In a device used for representing crystal structure in three dimensions, a plurality of not less than three transparent plates, each having a plurality of openings formed therein and arranged in spaced relation to each other according to a regular geometric pattern of a type capable of indefinite extension with uniform distance between centers when measured in the same direction, means for supporting such plates in spaced relation to each other such that said openings in said plates are arranged in said type of geometric pattern in three dimensions and a plurality of bodies, too large to pass through said openings, received in at least some of said openings in said plates in said type of regular geometric pattern in three dimensions and said bodies being supported and held in such position by said plates, said openings being slightly smaller than the maximum girth of said bodies whereby the latter may rest therein with a major portion of their lower halves projecting through said plates.

2,716,293

# VENTILATED BOOT RESPONSIVE TO ANKLE MOVEMENT

Claude C. Rath, Bellflower, Calif.  
Application August 31, 1953, Serial No. 377,331  
3 Claims. (Cl. 36-3)



1. In a ventilated boot, the combination of a bellows mounted in the boot and responsive to ankle movement

when the boot is worn, an air suction line extending from said bellows to the interior of the boot, an air exhaust port provided on said bellows and communicating with the atmosphere, and check valves provided in said suction line and said exhaust port, said bellows comprising a jacket of airtight, flexible material extending in front of the ankle portion of the boot, and a filler of compressible porous material provided in said jacket.

2,716,294

# SHOE AND SHOE LAST

Russell Plato Schwartz, Brighton, and Arthur L. Heath, Pittsford, N. Y.  
Application February 12, 1953, Serial No. 336,484  
6 Claims. (Cl. 36-8.5)

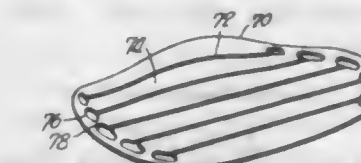


4. A shoe comprising an upper portion corresponding to the cone of a last, said portion having a median plane passing through a point corresponding to the apex of the cone of the last and containing a longitudinal central axis of said shoe extending through a point at the toe portion thereof adjacent the break between the sole and upper and through a point at the back of the heel portion, said axis lying substantially parallel with a plane tangent to the inner surfaces of the heel and forefoot portions of the shoe and said axis lying midway between vertical lines tangent to the sides of said heel and forefoot portions at their widest parts when the shoe is positioned with its heel and forefoot portions resting on a horizontal plane surface, said median plane being inclined upwardly and outwardly from a central plane passing vertically through said axis in said position of the shoe, with an included angle between said planes of not more than about 5° and said shoe having the inner surfaces of its heel and shank portions inclined from the inner sides downwardly toward the outer sides thereof, for supporting the foot in position to compensate for the malalignment of the bones of the leg and ankle and to support the weight of the body against inward pronation and lowering of the medial longitudinal arch in stance and gait.

2,716,295

# SELF-ADJUSTING ARCH SUPPORT

Harry C. Stein, Yonkers, N. Y., assignor of one-fifth to Leonard J. Stein, Houston, Tex., one-fifth to Stanley M. Stein, New Orleans, La., one-fifth to Melvin Stein, Jackson Heights, N. Y., and one-fifth to Frank R. Stein, Yonkers, N. Y.  
Application November 4, 1953, Serial No. 390,155  
3 Claims. (Cl. 36-71)



1. An arch support for ready insertion in a shoe comprising a plurality of parallel shape-retaining elements extending longitudinally from the region of the breast of the heel of a shoe for the length of the shank area, and an elastic underlying proximal support therefor providing means for torsional support of the shape-retaining elements with respect to the longitudinal axes thereof, whereby torsional movement of the foot within the shank area is unimpeded by the arch support, and a cover over the shape-retaining elements.

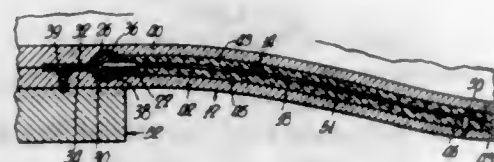


2,716,296

**SHOE SHANK REINFORCEMENT**

Harry Charles Stein, Yonkers, N. Y., assignor of one-fifth to Leonard J. Stein, Houston, Tex., one-fifth to Stanley M. Stein, New Orleans, La., one-fifth to Melvin Stein, Jackson Heights, and one-fifth to Frank R. Stein, Yonkers, N. Y.

Application March 15, 1952, Serial No. 276,753  
3 Claims. (Cl. 36—76)

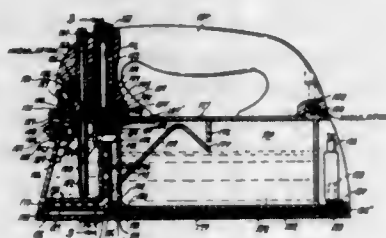


1. A shoe shank reinforcement comprising a shape-retaining element extending from the region of the breast of the heel of the shoe for the length of the shank area and a proximal support therefor carried by the heel section of the shoe and having means supporting the rear end of the shape-retaining element for torsional movement along its longitudinal axis, whereby torsional movement of the foot in the shank area is unimpeded by the reinforcement during dynamic action of the foot.

2,716,297

**STEAM IRON**

Albert C. Hoecker, St. Louis, Mo.  
Application March 31, 1948, Serial No. 18,091  
6 Claims. (Cl. 38—77)



1. A dampening and pressing iron comprising a steam boiler having a steam space and a water space including a pressing surface, means for heating said pressing surface and the water in said boiler to produce steam, a water container independent of said boiler so said container can be filled with water without interfering with the steam in said boiler, a fluid conductor having one end communicating with the steam space in said boiler and the other end having an atomizing discharge outlet for conducting atomized water to the material to be ironed, water conducting means communicating with the water in said water container and with said fluid conductor, between the inlet and outlet of said fluid conductor, so the steam passing through said fluid conductor will siphon or draw the water into said fluid conductor and force the water through said atomizing discharge outlet and thereby atomize the water.

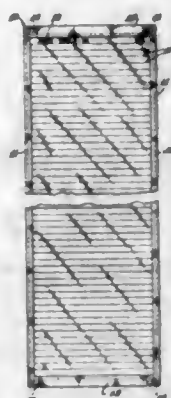
2,716,298

**ILLUMINATED DIRECTORY**

Willson A. Spielmann, Winnetka, and George W. Hughes, Highland Park, Ill., assignors to The Tablet & Ticket Company, Chicago, Ill., a corporation of Illinois  
Application September 15, 1951, Serial No. 246,732  
6 Claims. (Cl. 40—132)

4. In a directory panel, a frame receiving a plurality of spaced strips providing a continuous directory panel face, each of said strips having areas of contrasting light transmitting properties forming identification characters, a luminescent condenser panel in said frame coextensive in area with said panel face and abutting against said

strips, an electrical means energizing said luminescent condenser panel to silhouette the entire directory panel



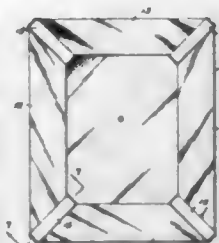
face provided by a uniformly diffused luminous background provided by said condenser panel.

2,716,299

**MITERED JOINT FITTING**

Sebet Silverman, Margate, N. J., assignor to The Nurre Companies, Egg Harbor City, N. J., a corporation of Indiana

Application September 3, 1952, Serial No. 307,629  
7 Claims. (Cl. 40—156)



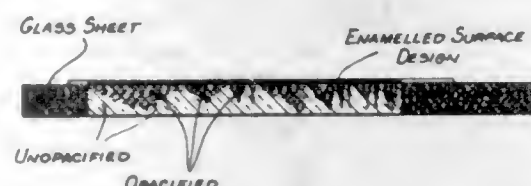
1. The combination comprising a frame and a member mounted therein, said frame including a section in back of said member, a plurality of elements positioned in end to end relation to one another about the periphery of said section, and a plurality of fittings for securing said member and said elements to said section, said elements being provided with inner marginal portions disposed in overlapping relation to the opposed outer marginal portions of said member, the inner edges of said elements defining the sight of said frame, and each of said fittings comprising an elongated part disposed in covering relation to the proximate end portions of a pair of said elements, and comprising means for securing said part to said section, said member and elements being clampingly secured between said fittings and section.

2,716,300

**DECORATED GLASS ARTICLE AND METHOD OF MAKING IT**

Harold F. Bopp, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application March 25, 1953, Serial No. 344,597  
7 Claims. (Cl. 41—26)

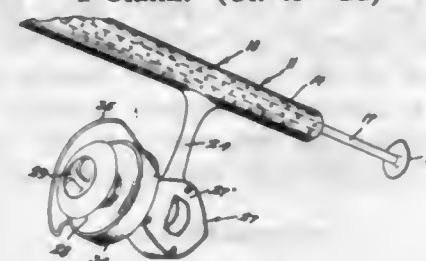


1. A glass article having a design composed of a ceramic enamel integrally united with a surface of the glass and a three-dimensional photographic image within the glass in register with and complementing the ceramic design.

2,716,301

**DRIVE FOR FISHING ROD REEL**

Lawrence W. Lockwood, Spokane, Wash.  
Application May 11, 1953, Serial No. 354,209  
1 Claim. (Cl. 43—21)

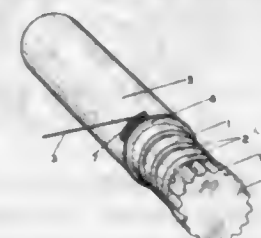


A fishing implement for a one-armed person comprising a rod, a reel supported exteriorly of the rod and provided with a shaft, a plunger reciprocally mounted within the rod having at one end thereof a part adapted to engage the body of said person, means adapted to bias the inner end of said plunger in a direction toward said one end thereof, a cord secured to said reel shaft and said plunger to rotate said reel in one direction, and means to prevent rotation of said reel in a opposite direction.

2,716,302

**CONTAINERS FOR FISH HOOKS AND LEADERS**

Floyd E. Dutton, Wenatchee, Wash.  
Application January 7, 1952, Serial No. 265,227  
5 Claims. (Cl. 43—57.5)



1. A container for fish hooks and leaders, comprising a cylindrical hollow body having a plurality of circumferential grooves therein, a slot in the bottom of each groove, a handle portion on one end of said body and a cylindrical cover rotatably and slidably mounted on said body, said cover having a slot therein for registration with one of said grooves and through which a hook and leader may be passed to anchor said hook in the groove slot and allow said leader to be wound in said groove upon rotation of the cover with respect to the body, and a ring adapted to be seated in one of said grooves to limit the sliding movement of said cover to register the slot therein with another of said grooves.

2,716,303

**GUN TRAP FOR KILLING BIRDS OF PREY**

Linwood P. Hudson, Fort Worth, and Harold D. Smith, Spofford, Tex.

Application August 7, 1952, Serial No. 303,082  
5 Claims. (Cl. 43—84)



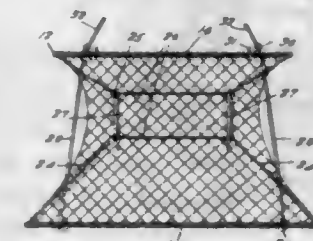
1. In a gun trap, an upwardly directed gun barrel adapted to receive a shell or cartridge in its lower end, a support for said barrel, a firing mechanism in engagement with said support and arranged for firing said shell or cartridge, a vertically movable member positioned adjacent said barrel and connected with said firing mechanism, a relatively short transverse perch member in-

cluding a hole therethrough having a transverse dimension slightly greater than the outside diameter of said barrel, the muzzle end of said barrel being positioned within the perimeter of said hole, and means pivotally supporting said perch member on said vertically movable member, said means constituting the sole support for said perch member when said perch member extends perpendicularly to said barrel.

2,716,304

**CRAB TRAP**

Richard A. Taylor, Bellevue, Wash.  
Application May 28, 1951, Serial No. 228,722  
1 Claim. (Cl. 43—100)

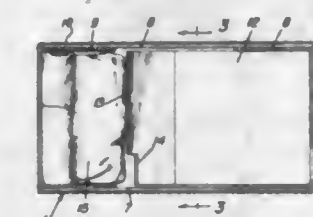


In a crab trap, open top and bottom frames, netting covering each of said frames, rods extending between said frames and having their lower ends formed to provide eyes engaged with the bottom frame, the upper ends of said rods being formed to provide outer downwardly opening loops merging into inner upwardly opening loops, said top frame being seated in the latter of said loops, elongate flexible lift elements each secured at one end in said downwardly opening loops, said elements extending upwardly and inwardly and having their free ends interconnected a distance above the vertical center of the trap, a second netting connecting said frames and forming the side wall of the trap, said second netting having a pair of oppositely disposed entrance openings formed therein, a rigid rectangular frame bordering each of said openings, and flexible elements extending between and connecting the latter frames at their corners to draw the said second netting inward about said latter frames to form outwardly flaring passageways leading to said entrance openings and to support said latter frames in alignment.

2,716,305

**RODENT POISON HOLDER**

Charles W. Schutte, Beaver Falls, Pa.  
Application July 2, 1953, Serial No. 365,634  
2 Claims. (Cl. 43—131)



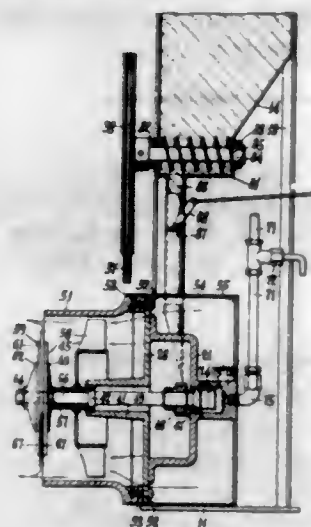
1. A poison bait holder comprising a box-like member, and a U-shaped member loosely placed in the box-like member and forming a partition therein to separate the box-like member into front and rear compartments, said rear compartment being adapted to hold a bait container, said box-like member having an entrance opening to admit animals into the front compartment, and said partition also having a feeding opening therein and through which the animal may reach the bait, said U-shaped member including spaced apart parallel side members abutting a wall of the box-like member in the region of the entrance opening and said partition abutting the bait container to mutually restrain shifting of the bait container and the U-shaped member in the box-like member.



2,716,306

**AEROSOL GENERATING MACHINE**

Joseph D. Lear, Silver Creek, N. Y., assignor to Silver Creek Precision Corporation, Silver Creek, N. Y.  
Application January 18, 1954, Serial No. 404,692  
6 Claims. (Cl. 43—148)

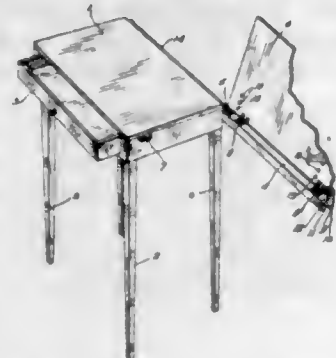


1. A machine for generating a mist, spray, or aerosol dispersion of surface wetted powder particles and expelling them into the atmosphere, comprising a generally cylindrical tubular member including a tunnel section and a shroud section, a power-driven shaft in the tunnel section, drive means for said shaft, a blower and an impeller mounted on said shaft, the direction of rotation of the shaft being such as to draw air in through the shroud section and expel it through the tunnel section adjacent the periphery of the impeller, a liquid supply tank, a supply conduit connecting the tank to the impeller, a hopper adapted to contain dry powder, a discharge pipe extending from the hopper on the inlet side of the blower, and valve means in the liquid supply conduit and the hopper discharge pipe for regulating the flow therethrough, whereby powder flowing from the hopper may be air-borne through the tunnel and wetted by liquid discharged from the impeller.

2,716,307

**ADJUSTABLE READING LEAF STAND**

Nellie T. Pollard and Willard L. Pollard, Evanston, Ill.  
Application March 7, 1952, Serial No. 275,298  
3 Claims. (Cl. 45—82)



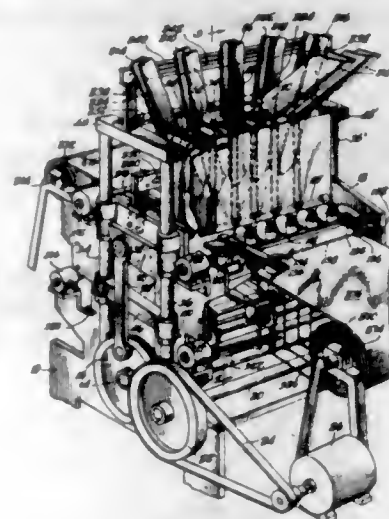
1. Floor supported means for supporting a leaf in position to be used by a person seated in a chair, as a support for reading or writing material, comprising a table having a top mounted so that its upper surface is at a height greater than the height of the knees of a person seated in a chair, supporting legs in general below the plane of the table top and secured to the table, an arm rockably mounted on said table to swing first upwardly and then downwardly about a horizontal axis adjacent the top of the table, through substantially 180 degrees, from a first substantially horizontal position in which it extends along an edge of the table top to a second substantially horizontal position in which it extends from the table top at a height above the knees

of the seated person, said leaf being rockably mounted on said arm to swing about an axis extending longitudinally of said arm, the rockable movement of said leaf on said arm being sufficient to enable the leaf to be suspended from its axial support, when the arm extends along the edge of the table top to lie in general below the level of the top, and to enable the leaf to be swung to a position to support reading or writing material in position for one seated in the chair, when the arm is in position from which it extends from said table top.

2,716,308

**APPARATUS FOR MAKING SPRING UNITS**

Frederick G. Hodges, Jr., Janesville, Wis.  
Application June 20, 1946, Serial No. 678,068  
30 Claims. (Cl. 45—138)

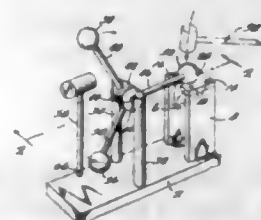


1. Apparatus for making spring units for cushions or the like which comprises means for feeding coil springs into predetermined juxtaposition relative to each other to form a predetermined spring pattern with the axes of the springs in parallel relation, and means for progressively securing the springs together both longitudinally and transversely to form a spring unit structure.

2,716,309

**HAMMER TOY**

John Morrison, Franconia, N. H.  
Application October 25, 1951, Serial No. 253,073  
21 Claims. (Cl. 46—1)

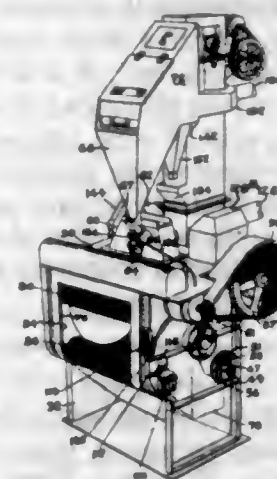


6. A hammer toy comprising a base, a pair of members supported above said base opposite one another and having surfaces extending toward one another but normally spaced from one another by a predetermined distance, said members being movably mounted on said base so as to be spreadable away from one another, thus increasing the distance between said surfaces, resilient means operative on said members to resist said spreading, a rotor mounted above said base and having arms extending out therefrom, portions of which arms pass through the space between said members as said rotor rotates, said arm portions being wider than the normal space between said members, each arm portion, as it engages said normally spaced members, being adapted to be hammered between said members, said members separating against the action of said resilient means as said arm portions pass therethrough.

2,716,310

**BLASTING APPARATUS**

Ralph W. Moore, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland  
Application November 28, 1952, Serial No. 322,896  
14 Claims. (Cl. 51—13)

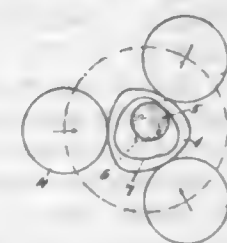


1. In combination, a blasting apparatus having a work-blasting zone, an opening through which the work is loaded into and unloaded from said zone, guide means formed on at least a portion of the periphery of said opening, and a closure for said opening, said closure comprising a first movable panel having one end mounted on a roller and arranged to move into and out of opening-covering position, said closure being guided in its movement by said guide means, and a second movable panel of pliable material having one end secured to said first panel and the opposite end fixedly positioned remotely from said opening, the movement of the first panel into and out of opening-covering position causing the second panel to move into and out of opening-covering position simultaneously with the first panel.

2,716,311

**CENTERLESS MACHINING APPARATUS**

Karl Berstecher, Stuttgart-Feuerbach, Germany  
Application April 18, 1950, Serial No. 156,556  
Claims priority, application Switzerland May 6, 1949  
8 Claims. (Cl. 51—103)



1. In a centerless cutting apparatus, in combination, at least three rotatably mounted rollers having centers located at equal distances from each other and from a central axis; gear means; reversible transmission means interconnecting said gear means and rollers to simultaneously move said rollers by equal amounts toward said central axis when said gear means moves in one direction and to move said gear means in an opposite direction when said rollers move away from said central axis; drive means operatively connected to at least one of said rollers for rotating the same so as to rotate a workpiece carried by said rollers; and yieldable pressure means operatively connected to said gear means to urge the same in said one direction so as to yieldably urge said rollers toward said central axis, said gear means being movable in said opposite direction against the action of said pressure means upon movement of said rollers away from said central axis.

2,716,312

**TRUING DEVICE FOR FACE-TYPE DIAMOND****ABRASIVE WHEELS**

Elmer W. Spelcher, Birmingham, Mich.  
Application March 9, 1953, Serial No. 341,060  
14 Claims. (Cl. 51—168)

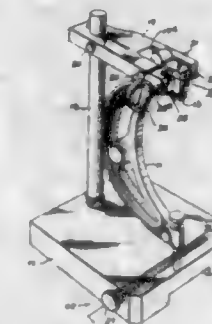


1. The combination of a face-type cup-shaped diamond abrasive wheel having an annular flat abrasive surface normal to the axis of rotation, a rotatable driving spindle having a wheel mounting flange plate fixedly attached thereon at its outer end, said mounting flange plate being arranged at right angles to its axis of rotation, a compressible flat disc-type wheel supporting backing member intermediate said wheel and said mounting flange plate, said wheel, backing member and flange plate being in close contiguous lateral contact with each other in that order, and mounting screws securing said wheel over said backing member to said mounting flange plate in adjusted position so that said flat abrasive wheel surface lies in a plane at right angles to the axis of rotation of said driving spindle, said backing member adapted to support said wheel surface in said plane.

2,716,313

**GAUGE CLAMP**

Aubrey Glanville Forbes, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation  
Application February 25, 1954, Serial No. 412,456  
5 Claims. (Cl. 51—217)



1. Apparatus of the kind described comprising a support, means associated with the support to hold a snap gauge, arms connected to the support and spaced apart to define a slot, two rigid members extensible toward each other from the arms transversely of the slot, the said members being in longitudinal alignment with each other, a third member projecting resiliently from one arm toward the other arm transversely of the slot, and indicating means operatively connected to the said third member to indicate the distance of projection of the said third member toward the said other arm.

2,716,314

**BUFFING WHEEL COMB**

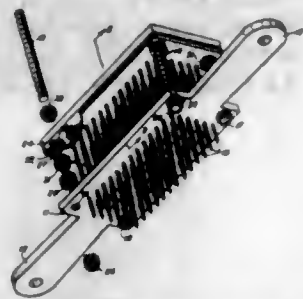
Charles R. Upham, Gardena, Calif.

Application March 16, 1954, Serial No. 416,728  
6 Claims. (Cl. 51—262)

(Granted under Title 35, U. S. Code (1952), sec. 266)  
4. A buffing wheel comb comprising a guide plate having a plurality of rows of openings therethrough, a pin ex-



tending through each of said openings, and adjustable means rigidly securing said pins in said openings to com-

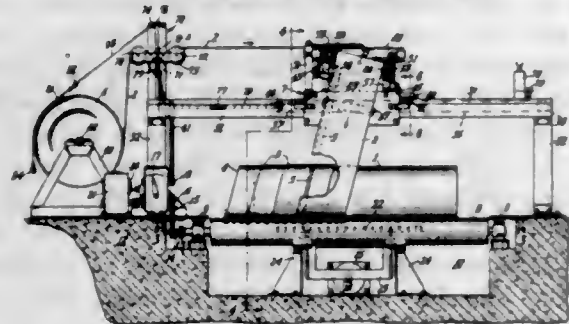


pensate for wear on said pins and vary the depth of penetration.

2,716,315

#### SPIRAL ROLL WRAPPING MACHINE

Harry L. Jacoby, Bridgton, Maine, assignor, by mesne assignments, to Riegel Paper Corporation, New York, N. Y., a corporation of Delaware  
Application March 18, 1952, Serial No. 277,119  
9 Claims. (Cl. 53-98)

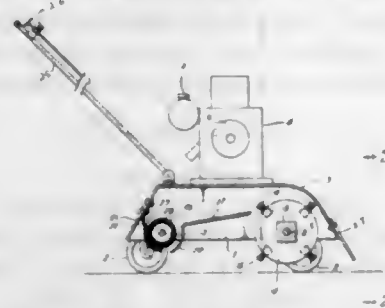


1. In a machine for helically wrapping heavy cylindrical articles, means for supporting the article to be wrapped for rotation about its own axis, a track disposed above and parallel with the axis of said supporting means, a carriage arranged to travel upon said track, stationary means for rotatably supporting a supply roll of wrapping material arranged to deliver the web from said roll to said carriage, said carriage having mounted thereon direction-changing means for guiding and directing the web from said supply roll to said article, means for rotating said article, means operating simultaneously therewith for moving said carriage along said track to wind the web helically about said article, means for disconnecting said carriage from said moving means at the completion of its travel to permit the carriage to be returned along said track, to start winding a successive article, and a festoon roll web take-up mechanism arranged in the path of the web between the supply roll and said movable carriage to take up the slack in the web as the carriage is returned to starting position after severance of the web from the completed wrapping and provide sufficient length of web for making the first turn about such successive article.

2,716,316

#### LEAF PULVERIZING DEVICE

Helen V. Sturdivant and Minor R. Ross, Houston, Tex.  
Application December 4, 1953, Serial No. 396,232  
1 Claim. (Cl. 55-118)



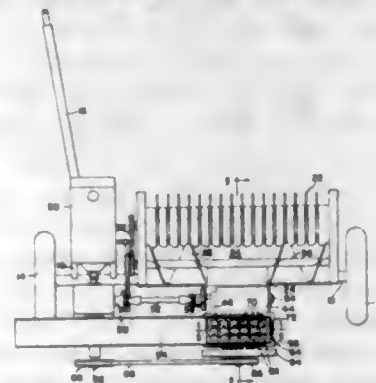
In a leaf disposal device, a wheeled framework, a housing mounted on said framework, a source of power

mounted on said housing having a driving pulley, a rotating drum mounted in said housing having a driven pulley, a belt connecting said driving and driven pulleys and means for moving said belt into and out of driving relation, a plurality of outwardly extending brushes longitudinally mounted on said drum, a rearwardly and downwardly extending table mounted in said housing, having its uppermost end immediately adjacent the extended ends of said brushes, a pulverizing drum mounted in said housing adjacent the opposing end of said table, said pulverizing drum having outwardly extended peripheral brushes, a grate mounted on said housing adjacent said pulverizing drum shaped to conform to the contour of said drum and terminating beneath said drum, said grate having a plurality of orifices therethrough and a plurality of inwardly extended brushes adapted to cooperate with the peripheral brushes on said pulverizing drum.

2,716,317

#### CROP PICKUP, COMPRESSOR AND CUTTER

Marcus E. McClellan, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa  
Application January 4, 1954, Serial No. 401,908  
18 Claims. (Cl. 56-1)



1. An agricultural machine of the character described, comprising: a mobile frame adapted to advance over a field of crops such as hay and the like; crop-gathering means on the frame and operative to gather crops from the field and to move such crops rearwardly in a crop stream; crop-compressing means on the frame rearwardly of the crop-gathering means and engageable with the crop stream and operative to exert a vertical force on said stream for compressing said stream into a relatively thin mat; a mat-receiving table means on the frame rearwardly of the compressing means; means on the frame engageable with the mat for moving said mat rearwardly onto the table means; and cutting means movable on the frame downwardly toward the table means and including a plurality of upright tubular cutters having lower cutting edges engaging the mat for cutting the mat into a plurality of relatively small cakes.

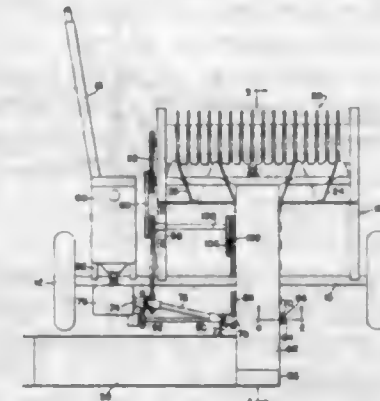
2,716,318

#### CROP PICKUP, COMPRESSOR AND CUTTER

Arnold B. Skromme, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa  
Application January 4, 1954, Serial No. 401,931  
11 Claims. (Cl. 56-1)

1. An agricultural machine of the character described, comprising: fore-and-aft support means having thereon means for receiving crops such as hay and the like; means movable rearwardly on the support means for moving such crops rearwardly in a crop stream; crop-compressing means on the support means for compressing the stream into a relatively highly compressed, self-contained mat and for moving the mat further rearwardly; means on the support means over which the mat is moved by the compressing means and including means carried by the support means in parallelism with the

backing means but at the other side of the mat, said element having thereon a plurality of uniformly angularly spaced cutter blades movable successively toward

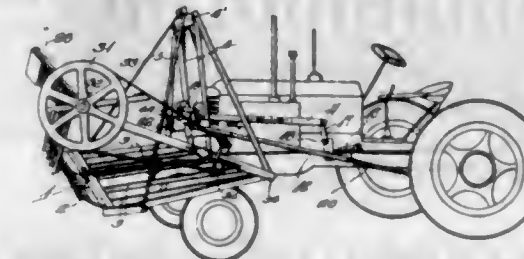


the backed up mat as the element rotates, said blades successively cutting the backed up mat into relatively small cakes; and means on the support means for conveying the cakes to a point of discharge.

2,716,319

#### MOWER ATTACHMENT TO TRACTOR

Arthur A. Linscheid, American Falls, Idaho, assignor to A. A. Bennett, F. J. Orr, and Arthur A. Linscheid, copartners, doing business under the style and firm name of B&L Manufacturing Company, Boise, Idaho  
Application November 7, 1950, Serial No. 194,531  
3 Claims. (Cl. 56-25)



1. A mower attachment for being detachably mounted on the front axle of farm tractors having a hydraulic lift and a power take-off arrangement comprising a substantially flat frame having elongated front and rear sides, a pair of axles provided in the rear side of said frame, a pair of bearings each having one of said axles rotatably mounted therethrough, means for being detachably connected to and above the front axle of the tractor and connected to said bearings for supporting the same, a plurality of bars mounted at their bottom end on said rear side of said frame with said bars extending substantially vertically above said frame, supporting rods connecting the front portion of said frame to the top ends of said bars, a pair of reel supporting frames mounted solely on and extending above said first-mentioned frame, a cutter bar mounted on the front edge of said first-mentioned frame, means mounted on said first mentioned frame for operating said cutter bar and capable of being operatively connected to said tractor power take-off, a reel rotatably supported between said reel supporting frames, means for rotating said reel being mounted on one of said reel supporting frames and being operatively connected to said cutter bar operating means, and a plurality of control bars each pivotally connected to a medial portion of one of said vertically extending bars and capable of being connected to said tractor hydraulic lift whereby said mower attachment can be pivoted on said bearing thereby.

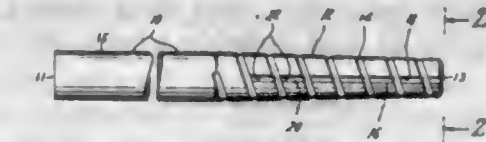
2,716,320

#### COTTON PICKER SPINDLE

Emil F. Wunderlich, Houston, Tex.  
Application March 29, 1954, Serial No. 419,167  
3 Claims. (Cl. 56-50)

1. A barbless cotton picker spindle comprising a shaft of generally circular cross-section having a bearing end

and a free end, said shaft having a substantially cylindrical bearing portion at its bearing end and a picking portion which tapers from said bearing portion toward said free end said picking portion being formed with a helical doffing groove and a longitudinally disposed furrow intersecting the groove, the remainder of the periph-



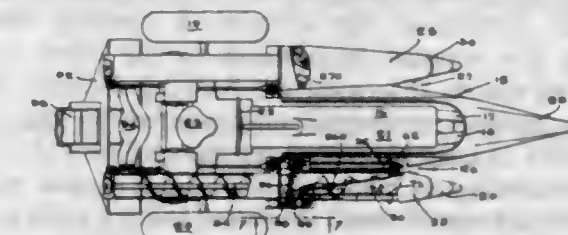
eral surface of said picking portion being smooth, said furrow being defined by a radial wall extending inwardly of said peripheral surface and facing in the direction of rotation of the shaft, said wall forming with said surface longitudinally extending edge portions and a bottom wall merging in a smooth surface with said peripheral surface.

2,716,321

#### STALK EJECTING MECHANISM

Edward J. Schaaf and Edwin F. Greedy, Hoopeston, Ill., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware  
Original application January 4, 1950, Serial No. 136,678, now Patent No. 2,676,450, dated April 27, 1954. Divided and this application February 24, 1953, Serial No. 338,326

14 Claims. (Cl. 56-104)

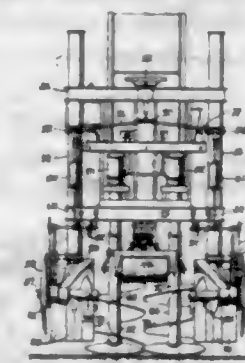


1. In a corn-harvesting machine picker head having a side and a rear wall with a discharge opening in each wall and arranged to move ears of corn and portions of corn stalks rearwardly through the picker head toward the rear wall, the combination of stalk-gathering means mounted in said head and having a first portion adjacent the side wall opening and a second portion extending along said rear wall of the head, said stalk gathering means being arranged to intercept portions of stalks as they are moved rearwardly by said processing mechanism and to direct the stalks transversely of said picker head toward the opening in said side wall, and means mounted adjacent the opening in said side wall and operable conjointly with said stalk gathering means to engage the portions of corn stalks and eject them through the side opening.

2,716,322

#### CANE HARVESTING MACHINE

Stuart D. Pool and Elov K. Karlsson, Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey  
Application March 4, 1952, Serial No. 274,798  
3 Claims. (Cl. 56-157)



1. A harvester for stalks or the like comprising a frame generally longitudinally disposed, spaced dirigible wheels



mounted on the forward end of said frame, a pair of upright side by side disposed augers carried by said frame, stalk cutter discs associated with the augers at their lower ends, said stalk cutter discs being substantially horizontally disposed and said augers being substantially vertically disposed, and said pair of upright side by side disposed augers and their associated cutter discs carried on said frame rearwardly of said dirigible wheels and centrally thereof.

**2,716,323**  
**ROTATING CUTTING ASSEMBLY**  
Foster M. Ford, Morris, Ill.  
Application July 6, 1953, Serial No. 366,289  
2 Claims. (Cl. 56-295)



1. A cutter unit for lawn mowers comprising a rotatable support, a series of blades normally projected in radial positions from the support, each blade being widened to form inner corner portions, a pivot attaching one corner portion to the support, a backing element carried by the support in relation to the other corner portion, and means disposing the backing element firmly as against normal resistance encountered by the blade and yieldably in case abnormal resistance forces the blade to pivot inwardly and bear with said other corner portion against the backing element, the latter being a plate having an arcuate track opposite said other corner portion, and said means comprising a pivot attaching the plate to the support.

**2,716,324**  
**BONDED KNIFE HEAD AND KNIFE ASSEMBLY FOR RECIPROCATING MOWERS**  
Raymond J. Miller, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application November 16, 1953, Serial No. 392,289  
2 Claims. (Cl. 56-306)

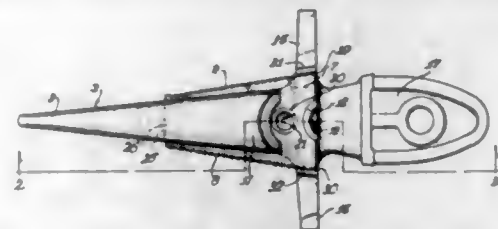


1. In a reciprocating knife-type mower, comprising in combination a knife assemblage comprising a backing strip, a plurality of cutting elements mountable along said strip, rigid fastener means traversing said backing strip and said knife head for mechanically securing said knife head on said backing strip, and a layer of shock absorbing and flexible ethoxylene synthetic resin interposed between said head and said backing strip to adhesively unite said knife head and said backing strip and provide a shock absorbing flexible bond to said knife assemblage upon longitudinal flexing and radial loading.

**2,716,325**  
**LEDGER-PLATE FINGER BAR ASSEMBLY**  
Gordon G. McNamara, Jr., Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey  
Application October 28, 1953, Serial No. 388,793  
1 Claim. (Cl. 56-309)

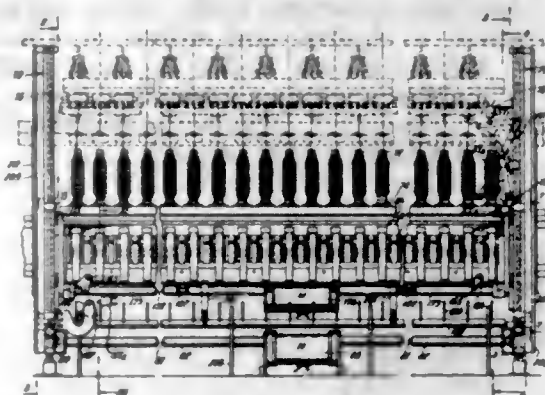
A finger guard assembly having a body portion with a seating surface; a ledger plate seated thereagainst; and a resilient connection between said portion and said plate and comprising registering transverse openings therein, said opening in said ledger plate being countersunk and

providing a wedge surface tapered toward said portion, a resilient pin C-shaped in cross-section having a shank portion radially compressed within said openings and



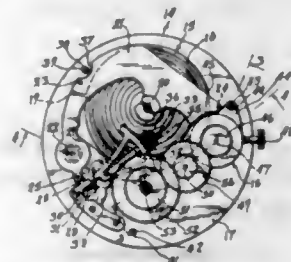
having a head portion C-shaped in cross-section and flexible radially and axially relative to said shank and in complementary radially and axially stressed engagement with said tapered surface.

**2,716,326**  
**DOFFING AND DONNING APPARATUS**  
James J. Colvin, La Grange, Ga., assignor to Callaway Mills Company, La Grange, Ga., a corporation of Georgia  
Application May 12, 1951, Serial No. 225,955  
17 Claims. (Cl. 57-52)



1. A method of doffing a textile machine having a plurality of vertical spindles, a ring rail having a ring encircling each spindle, and a traveler on each ring, through which a yarn passes to the bobbin on the spindle, which comprises lowering the ring rail to the lower ends of the bobbins, winding doffing coils of yarn on the lower ends of the bobbins, shifting each yarn to move its traveler rearwardly and to one side of its ring, simultaneously raising all the bobbins free of the spindles and then moving them forwardly from the spindles, the doffing coils slipping off the bobbins, as the bobbins are raised, and becoming wrapped about the spindles, and simultaneously cutting all the yarns between their full bobbins and their doffing coils.

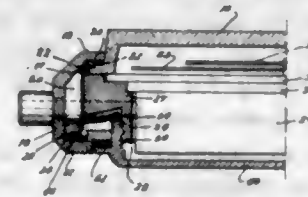
**2,716,327**  
**COMBINED WATCH AND BAROMETER**  
Donald R. L. Franklin and Anne Fox Franklin, New York, N. Y.  
Application September 23, 1952, Serial No. 310,998  
1 Claim. (Cl. 58-57)



A combination watch and barometer comprising a base plate, a barometer mechanism disposed on said base plate, a watch mechanism disposed on said base plate, winding means in operative engagement with said watch mechanism and extending outwardly of said base plate, said barometer mechanism including a rotating indicating

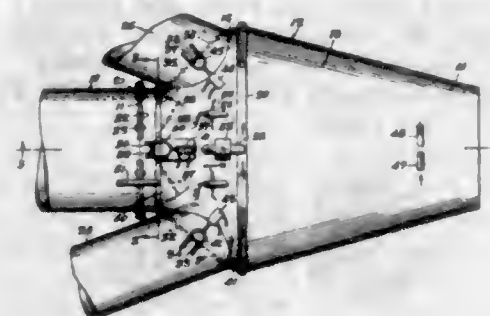
shaft in operative engagement therewith and extending upwardly therefrom, a dial plate disposed above said barometer and watch mechanisms, indicator means carried by said shaft and adapted to cooperate with the upper face of said dial plate whereby to indicate the barometric pressure, a watch dial upon the upper face of said dial plate, hour and minute hands adapted to cooperate with said watch dial whereby to indicate the time, and means interconnecting said watch mechanism and said hour and minute hands, said barometer mechanism being of the aneroid type and including a hollow box spring, said watch mechanism being mounted on said base plate above the top of said box with a portion of said watch mechanism overlying and freely spaced from said box, said watch dial being tangent to the periphery of said dial plate with the periphery of said watch dial extending beyond the axis of said indicator shaft, said interconnecting means comprising a center arbor in operative engagement with said watch mechanism and extending upwardly therefrom, a dial pinion secured to said arbor, an intermediate gear in mesh with said dial pinion, a second pinion gear fixedly carried by the bottom of said intermediate gear and concentric therewith, an hour gear concentric with and below said watch dial in mesh with said second pinion gear, a minute gear concentric with and above said hour gear in mesh with said intermediate gear, hour and minute hands carried by said hour and minute gears adapted to cooperate with the face of said watch dial, said hour gear being in horizontal alignment with the watch mechanism and freely spaced from said aneroid mechanism with its central axis spaced substantially ninety degrees from an imaginary line joining said indicator shaft and said arbor, said indicating shaft being aligned with the center of said dial plate.

**2,716,328**  
**SQUARE WATERPROOF WATCH CASE**  
Hyman Dinstman, New York, N. Y.  
Application August 23, 1954, Serial No. 451,595  
10 Claims. (Cl. 58-90)



1. A waterproof watchcase comprising a bezel, a crystal, a gasket between said crystal and said bezel, a movement holder inside the bezel, a back member adapted to fit on the bezel, means to hold the back to the bezel, and means to hold the movement holder inside the bezel, said means to hold the movement holder inside the bezel being a hold-in shim.

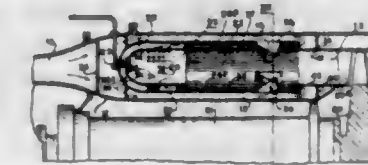
**2,716,329**  
**JET ENGINE**  
David R. Langer, Westfield, Pa.  
Application August 1, 1952, Serial No. 302,115  
3 Claims. (Cl. 60-35.6)



3. In combination with a turbojet engine having a rear discharge duct, an auxiliary rear section comprising

an annular body having an open front end disposed at the rear end of said engine discharge duct and an open rear end spaced rearwardly from said front end, means coupling said body at its front end to the rear end of said engine discharge duct, said body having an outer wall and an inner wall spaced from said outer wall and providing a combustion chamber within said inner wall and an annular cooling chamber surrounding said combustion chamber between said inner and outer walls, conduit means connected to said cooling chamber for supplying jet engine and rocket fuel to the latter, conduit means connecting said cooling chamber to said combustion chamber for conducting fuel from said cooling chamber into said combustion chamber, ram ducts extending through said body walls and communicating with said combustion chamber near the front end of the latter and at respectively opposite sides of said front opening, valve doors in said front opening and said ram ducts, means connected to the doors in said front opening for moving these doors between their opened and closed positions, means connected to the doors in the ram ducts for simultaneously moving these doors between their opened and closed positions, conduit means in communication with said combustion chamber near the front end of the latter for supplying liquid oxygen thereto, and rocket ignition devices extending through the walls of said body and into said combustion chamber intermediate the length of the latter.

**2,716,330**  
**COMBUSTION APPARATUS HAVING PRIMARY AIR PREHEATING DUCTS**  
Stewart Way, Churchill Boro, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application June 24, 1950, Serial No. 170,170  
8 Claims. (Cl. 60-39.65)



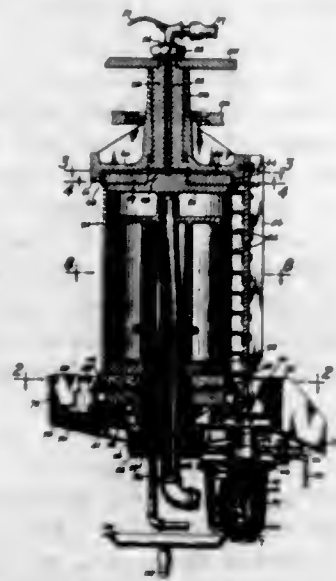
1. Combustion apparatus for a gas motivated power plant, comprising elongated shell structure adapted to be mounted in an air stream and forming a combustion chamber, said chamber having its longitudinal axis disposed parallel with said air stream and having upstream and downstream ends, nozzle means for supplying fluid fuel to the upstream end of said chamber, and a plurality of primary air preheating ducts carried by said shell structure, the major portions of said ducts extending longitudinally relative to the axis of said combustion chamber, said ducts being nested closely and circumferentially of said combustion chamber, said ducts being exposed to said combustion chamber and having means forming outlets communicating therewith adjacent said nozzle means, said ducts having inlets at the ends remote from said outlets for receiving primary air from said air stream, and means whereby such primary air is conducted in a direction opposite that of said air stream through at least part of the course between said inlets and said outlets for facilitating the preheating of such primary air.

**2,716,331**  
**CHIP-ICE MACHINE**  
Ernest A. Ostrom, Oakland, Calif., assignor to Lessard-Lees, Inc., Seattle, Wash., a corporation of Washington  
Application December 16, 1950, Serial No. 201,129  
8 Claims. (Cl. 62-107)

1. In apparatus for freezing a liquid, in combination, a cylinder disposed to locate its axis vertical and having



the surface chilled to a quick-freeze temperature, a chambered head sustained in overlying relation to the cylinder and presenting a restricted delivery throat from which liquid under pressure contained in the chamber of the head flows downwardly over said freezing surface as a broad and unbroken thin stream patterned to a shape conforming substantially to the horizontal sectional profile of an arcuate portion of the freezing surface less than the full circumference, a source of liquid supply, means for supplying said liquid under pressure from the source to the chamber of the head, means for rotating the head about the center of the cylinder as an axis to cause the delivery throat to progressively advance in a direction circumferentially of the freezing surface, means supported to move in concert with the head and acting

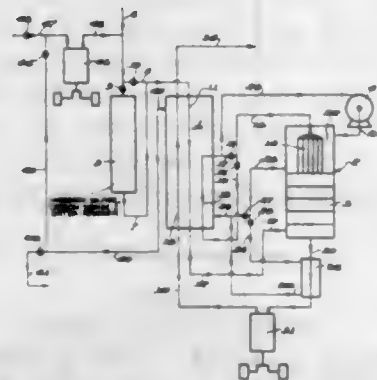


to dislodge the film of ice forming upon the freezing surface, a drag-blade also supported to move in concert with the head and extending longitudinally of the freezing surface in immediate following relation to the cracking means for ridding the freezing surface of any adhering fragments of cracked ice, said cracking means and the blade being both located to occupy positions circumferentially offset from the delivery throat so as to work upon that portion of the freezing surface which is not curtailed by the flowing stream of liquid, and a pipe drawing liquid from and returning the same to the supply source and associated in heat-exchange relation with the drag-blade for holding said drag-blade at a temperature sufficiently high to preclude the ice fragments from adhering thereto.

2,716,332

## SYSTEMS FOR SEPARATING NITROGEN FROM NATURAL GAS

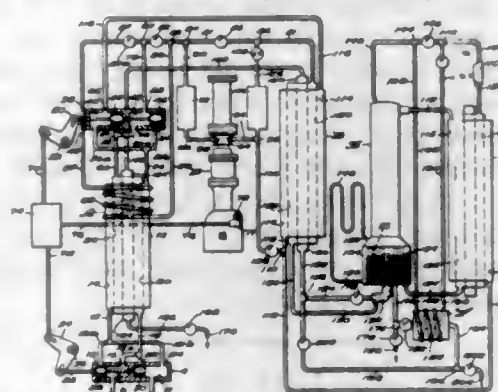
Pierre E. Haynes, Indianapolis, Ind., assignor to Koppers Company, Inc., a corporation of Delaware  
Application April 20, 1950, Serial No. 157,141  
8 Claims. (Cl. 62—123)



1. In a process of removing nitrogen from nitrogen-bearing natural gas, steps comprising while passing said natural gas under pipeline pressure through a gas separation system, adding nitrogen to said natural gas at said

pressure to raise its nitrogen content from a given lower proportion to a higher preselected proportion to obtain upon subsequent separation and expansion of said nitrogen a lowering of its temperature materially below the boiling point of methane at said pressure, cooling the resulting mixture in said system at said pressure to liquefy substantially completely all methane while separating uncondensed nitrogen from said liquefied methane, expanding said uncondensed separated nitrogen with performance of external work to lower the temperature of said separated nitrogen materially below the boiling point of methane as aforesaid and passing the expanded nitrogen into indirect heat-exchange relationship with said mixture to effect said cooling to liquefy said methane as aforesaid, and withdrawing substantially nitrogen-free natural gas from said system.

2,716,333

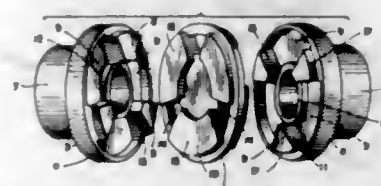
METHOD AND MEANS FOR TREATING GASES  
Samuel C. Collins, Watertown, Mass., assignor, by mesne assignments, to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts  
Application April 11, 1946, Serial No. 51,253  
10 Claims. (Cl. 62—123)

1. Means for obtaining a gaseous product rich in oxygen from air wherein the air is compressed, cooled, expanded, liquefied and rectified, comprising a heat exchanger having three separated, thermally bonded passageways arranged in heat exchanging relation, one passageway being for flow of said air under pressure, a second passageway being for flow of the oxygen-enriched product resulting from the processing of said air, and the third passageway being for a waste gas resulting from said processing; an expansion engine for expanding said air after leaving said first passageway and prior to its separation into said oxygen-enriched product and said waste gas; valve means controlling the flows through the first and third passageways and being shiftable to alternate the flows between said first and third passageways of said air and said waste gas; and connections between said expansion engine and valve means for effecting the shifting of said valve means in response to the number of cycles of said expansion engine, whereby said valve means shift automatically after a predetermined volume of air has passed through said expansion engine.

2,716,334

## FLEXIBLE SHAFT COUPLINGS

Leonard Edward Scott, Oak Park, and Robert I. Isackson, Forest Park, Ill., assignors to Globe Flexible Coupling Company, Forest Park, Ill., a partnership  
Application February 20, 1951, Serial No. 211,858  
1 Claim. (Cl. 64—14)



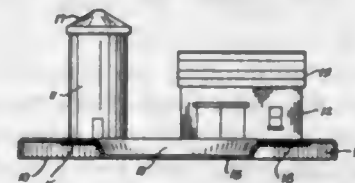
In a flexible coupling, a pair of similar axially opposed shaft coupling members each comprising a disc having

concentrically spaced inner and outer cylindrical flanges, a plurality of like radially disposed driving lugs connecting said cylindrical flanges and extending from said disc axially outward beyond said flanges, said lugs being of sector-shaped cross section of substantially less angular width than the spaces between them, each of said lugs having generally radially concave faces and a flexible torque transmitting disc of resiliently compressible material interposed between said coupling members, having sockets in its opposite faces fitting said lugs of said coupling members and arranged to receive said lugs in overlapping axial relation with the lugs of one coupling member symmetrically spaced from and alternately interposed between the lugs of the other coupling member, and said flexible torque transmitting disc being shaped to fill all spaces between the opposed coupling members in the annular space between said flanges.

2,716,335

## TOY TRAY

George Gallowhur, New York, N. Y.  
Application April 30, 1953, Serial No. 352,178  
2 Claims. (Cl. 65—53)



2. A toy simulating a farm scene comprising a thin disposable stamped-out, paper-like tray member having a down-turned supporting marginal flange, said tray member having a pond-like relatively deep ellipsoidal depression with a substantially water-impervious surface and a cylindrical and a rectangular shallow depression spaced from said pond-like ellipsoidal depression, a cylindrical silo-like receptacle for a liquid disposed in the cylindrical depression, a removable conically-shaped cover therefor and a rectangular barn-like food receptacle disposed in the rectangular depression and having a roof-like removable cover, said receptacles and covers being composed of the same material as the tray member.

2,716,336

## CAR LOCK

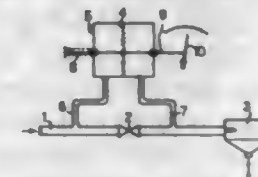
John C. Ross, Philadelphia, Pa.  
Application January 8, 1953, Serial No. 330,348  
3 Claims. (Cl. 70—238)



1. In an automobile including a steering wheel and a hand brake having a shaft and a cross handle; a locking device comprising a metallic shaft having a hook at one end defined by a first arm integrally joined to said shaft and disposed at a return acute angle relative thereto, a second arm integrally joined to said first arm and substantially normal thereto, and a tail piece integrally joined to said second arm forming an acute angle with the plane of said first and second arms, the said tail piece lying in spaced relationship with said first arm; a lock case adjustably mounted on the other end of said shaft; and a hasp adapted to be fitted over said steering wheel and secured to said lock case.

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2,716,337

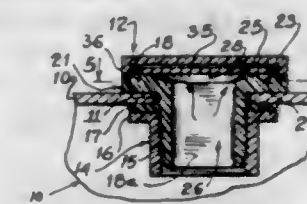
APPARATUS RESPONSIVE TO VARIATIONS IN THE VISCOSITY OF A FLUID  
Freerk J. Fontein, Heerlen, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands  
Application October 7, 1952, Serial No. 313,567  
Claims priority, application Netherlands October 9, 1951  
6 Claims. (Cl. 73—54)

1. Apparatus responsive to variations in viscosity of a fluid comprising a flow pipe for the fluid, a rotation chamber and a flow restrictor in said flow pipe, the resistance of said flow restrictor and rotation chamber varying differently with variations in viscosity of the fluid, when fluid is forced under constant pressure through the flow pipe, differential pressure responsive apparatus connected to said flow pipe, at least one leg of said connection being connected to the flow pipe between said rotation chamber and said resistor, and said differential pressure responsive apparatus being responsive to relative changes in the resistance to flow of fluid through said rotation chamber and said resistor.

2,716,338

## BUTTON TYPE PACKAGE HUMIDITY INDICATOR

Welford C. Blinn, Colton, Calif.  
Application April 8, 1954, Serial No. 421,891  
2 Claims. (Cl. 73—73)

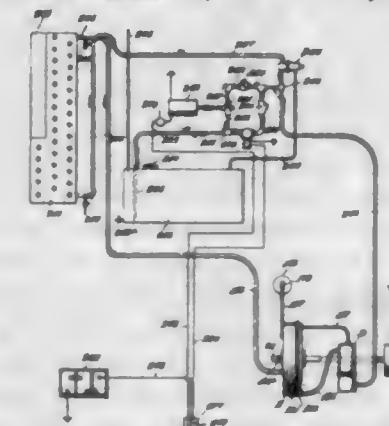


1. In a device of the kind described, a unit for mounting in an aperture in the wall of a container, said unit comprising a button, a flange on the button to engage the exterior of the container, said flange having a recess and a rabbet, a card mounted in said recess, the card having chemical spots impregnated therein, a transparent cap mounted in the rabbet of said flange and sealed thereto, and means to secure the said unit to the container in an airtight manner to render the unit leakproof with said card exposed to the air within the container.

2,716,339

## HYDRAULIC DYNAMOMETER

Edwin L. Cline, Pasadena, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California  
Application August 30, 1943, Serial No. 506,591  
29 Claims. (Cl. 73—117)



2. A device for absorbing the energy of a driven member, comprising: a hydraulic brake unit including a hous-



ing adapted to contain a liquid and a rotor in said housing adapted to be connected with said driven member, said housing having an inlet opening and an outlet opening; a deaerating device having an inlet opening and an outlet opening; a conduit connecting the outlet of said brake housing with the inlet of said deaerating device; a heat exchanger having an inlet and an outlet; a conduit connecting the outlet of said deaerator with the inlet of said heat exchanger; a conduit connecting the outlet of said heat exchanger with the inlet of said brake housing, said deaerating device also having an outlet for the air separated from said brake liquid; and a conduit connecting said air outlet with said brake housing for returning the separated air to said brake housing.

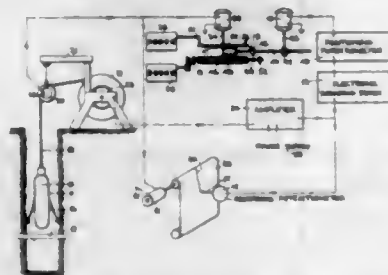
13. Dynamometer apparatus comprising: an idler roll and a drive roll adapted to be engaged by the driven wheels of a vehicle; a hydraulic brake unit adapted to contain a brake liquid; means operatively connecting said brake unit with said drive roll; a heat exchanger; conduit means interconnecting said brake unit and said heat exchanger arranged to provide a closed circulating system for the brake liquid; a deaerator connected in said conduit means between said brake unit and said heat exchanger; and a blower driven by one of said rolls for cooling the deaerated liquid circulating through said heat exchanger.

2,716,340

#### APPARATUS FOR MEASURING THE VOLUME OF A BOREHOLE

William Tharp Nance, Kilgore, and Charles Leonard Rabe, Houston, Tex., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application October 20, 1952, Serial No. 315,782  
3 Claims. (Cl. 73-149)

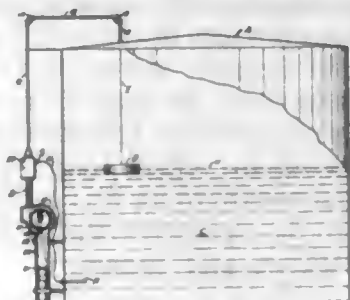


1. Apparatus for determining the volume of a well borehole comprising in combination a borehole caliper device lowerable into a well borehole, an electrical conductor cable supporting said caliper device in the borehole, said caliper device having flexible arms adapted to contact the wall of the borehole, electrical circuit means in said device operable in response to movement of said arms for transmitting up said cable a signal proportional to the diameter of said borehole, means electrically connected to said cable for squaring said diameter signal, an integrating device comprising a rotatable disc, a motor for rotating said disc, a cylinder element mounted adjacent the disc and extending substantially diametrically of said disc in spaced relationship thereto, a rack bar element mounted between said disc and cylinder and for reciprocation parallel to the axis of said cylinder, a ball carried by said rack bar in frictional contact with said disc and cylinder and movable toward and away from the center of said disc for changing the speed ratio between the disc and the cylinder, a second motor connected to said bar element, electrical circuit means for applying to said second motor the squared signal from said squaring device, generator means coupled to said cable for generating a signal proportional to the depth of the caliper device within the borehole, means for transmitting said signal connected between said generator and the motor rotating the disc, and indicator means engaging said cylinder for continuously registering the volume of the borehole.

#### 2,716,341 TANK DEPTH AND TIME RECORDING MECHANISM

William T. Ilfrey, New Orleans, La., and Martin E. True, Houston, Tex., assignors, by mesne assignments, to Esso Research and Engineering Company, Elizabeth, N. J., a corporation of Delaware

Application September 13, 1954, Serial No. 455,498  
3 Claims. (Cl. 73-312)



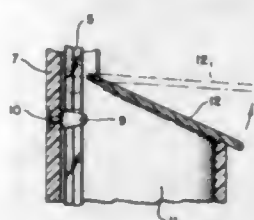
1. A device for recording the liquid level in a tank comprising, in combination, a housing adapted to be mounted on the outside of a tank, a reel carried by said housing, a tension exerting means operatively connected to said reel, a tape having its first end adapted to be secured to a float within the tank and its second end secured to said reel and adapted to extend from said reel over a pulley mounted with its axis parallel to and at an upper part of the tank with that portion of the tape between said pulley and said reel when the float is in its lowermost position in the tank provided with an embossed face which is a scale, a clock mechanism carried by said housing having a drive shaft, a second tape having an embossed face operatively connected to the drive shaft of said clock to be driven thereby with embossed face portions of the first and second tapes lying in a common plane, guide means carried by said housing for receiving a record sheet with a face adjacent said common plane in which said portions of tapes lie, a printing member, actuating means carried by said housing carrying said printing member and arranged to move the printing member from a first position to a second position, the path of movement from the first position to the second position causing it to exert a bias upon a portion of the embossed face portion of each of said tapes to force said portions of tapes against the record sheet in said guide means.

2,716,342

#### THERMOMETER

Sidney Ween and Edward P. Dobrin, New York, N. Y., assignors to Weksler Thermometer Corporation, New York, N. Y., a corporation of New York

Application April 16, 1953, Serial No. 349,208  
1 Claim. (Cl. 73-354)



A thermometer comprising an elongated tube having a bulb at its lower end and containing a heat-responsive liquid, a case having a front face and consisting of a unitary piece of molded plastic capable of withstanding high temperature and being of greater length than the tube and having the tube mounted upon the front face thereof, a well formed as an integral part of the case at its lower end, said well having a closed bottom and an open upper end, the lower end of the tube extending into the well, and a hinged cover for the upper end of the well, said cover being so hinged to the well as to close by gravity and having a portion extending

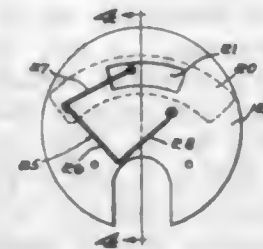
beyond the well to be engaged by liquid when the well is being submerged in a body of liquid, whereby mere descent of the well in a body of liquid will cause the lid to open, and withdrawal of the well from the body of liquid will cause the lid to close.

2,716,343

#### TEMPERATURE INDICATING METER

Emil S. Wieszeck, Salem, N. H.

Application July 14, 1951, Serial No. 236,727  
3 Claims. (Cl. 73-361)



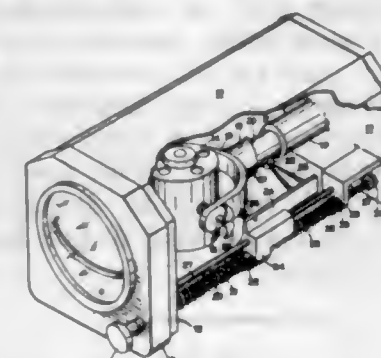
1. A temperature measuring instrument for use in a pyrometer of the class having a thermocouple, said instrument including a casing, a dial mounted therein, said dial having an arcuate slot therein, an arcuate segment with scale indicia thereon movable in said slot, an indicating arm mounted on a pivoting shaft extending through said dial and rotatable in response to a pyrometer member to cooperate with said indicia, a bimetallic element comprising a foot portion comprised of two metal elements of different coefficients of expansion secured at one end to said arcuate segment, a leg portion secured at substantially a right angle to the other end of said foot portion, said leg portion comprising two metal elements of different coefficients of expansion, and a second bimetallic foot portion comprising two bimetallic elements of different coefficients of expansion secured at one end at approximately a right angle to the end of the leg portion and at the other end to the said casing, the said portion lying in a plane substantially parallel to the dial face, the bimetallic elements of the leg portion being secured together in an arrangement opposite to that of the foot portions so that the said leg portion tends to deflect in one direction and the foot portions tend to deflect in the opposite direction.

2,716,344

#### GYRO CAGING MECHANISM

Paul E. Selfried, New City, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application February 15, 1954, Serial No. 410,115  
12 Claims. (Cl. 74-5.1)



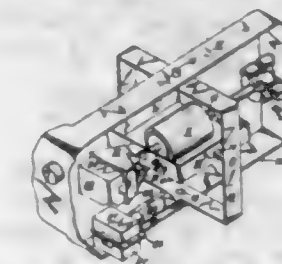
1. Gyro caging mechanism, comprising a caging element, and means for actuating said element to cage and uncage the gyro, including caging spring means bearing against the caging element, return spring means bearing against the caging element in uncaged position, and actuating means for retracting the return spring means during caging and releasing the return spring means during uncaging.

2,716,345

#### GYROSCOPE PRECESSING MEANS

Charles S. Grimshaw, Erie, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application August 4, 1952, Serial No. 302,493  
3 Claims. (Cl. 74-5.46)



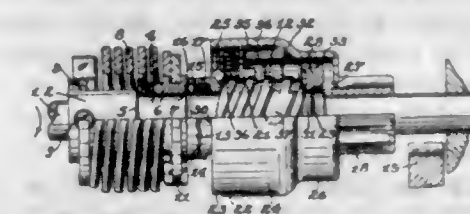
1. In a gyroscope assembly having a rotor rotatably mounted in a frame which is in turn pivotally mounted in a gimbal pivotally mounted in a housing, all arranged to be rotatable about mutually perpendicular axes, a supporting member extending longitudinally of the gyroscope assembly from one end of the frame, a first precessing coil mounted upon one end of said supporting member, a first pair of spaced magnets fixedly mounted upon the housing and disposed on opposite sides of said first coil, an elongated supporting arm extending longitudinally of the gyroscope assembly from one side of the gimbal, a second precessing coil mounted upon the free end of said supporting arm, and a second pair of spaced magnets fixedly mounted upon the housing and disposed on opposite sides of said second coil.

2,716,346

#### ENGINE STARTER GEARING

James E. Buxton, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware

Application January 18, 1954, Serial No. 404,489  
3 Claims. (Cl. 74-7)



1. In an engine starter drive a power shaft, a driving clutch member mounted thereon, means for connecting the clutch member to rotate with the power shaft, a driven clutch member and hollow screw shaft rotatably mounted on the power shaft, a stop collar fixedly mounted with respect to the power shaft, limiting movement of the screw shaft away from the driving clutch member, a pinion slidably journaled on the power shaft for movement into and out of mesh with a gear on the engine to be started, a control nut threaded on the screw shaft, a barrel member connecting the control nut to the pinion, said stop collar having an abutment surface limiting the meshing movement of the control nut, the thread of the screw shaft terminating in an abutment defining the idle position of the control nut thereon; a compression anti-drift spring between the control nut and stop collar urging the control nut toward idle position, and the screw shaft into clutching engagement with the driving clutch member, and a clutch spring between the clutch members normally holding them separated.

2,716,347

#### GEAR POWER TAKE-OFF DRIVE FOR HAMMER MILLS

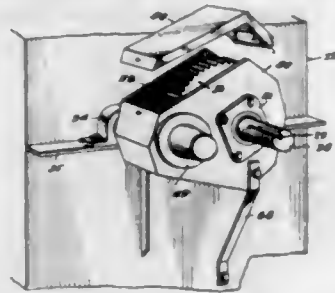
Albert H. Bottorff, St. Joseph, Mo.

Application April 21, 1950, Serial No. 157,275  
3 Claims. (Cl. 74-15.6)

1. A power take-off drive for a hammer mill rotor shaft adapted to be attached as a unit to the side of the hammer

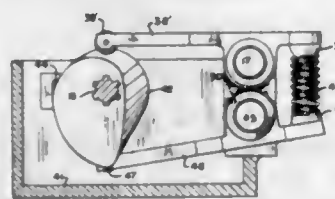


mill rotor housing through which said shaft extends, said unit comprising a housing having a pinion and a face gear therein, said pinion attached to said rotor shaft, a stub shaft extending through one side of said housing,



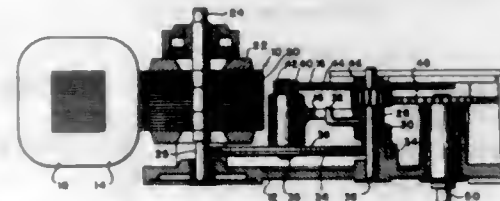
said face gear attached thereto, an angle iron member connected to the side of said housing for fastening the same to the side of said hammer mill housing and a bearing for said rotor shaft carried by said angle iron.

**2,716,348**  
**VARIABLE-SPEED POWER TRANSMISSION**  
Leo J. Brandt, Denver, Colo.  
Application July 26, 1952, Serial No. 301,050  
1 Claim. (Cl. 74-124)



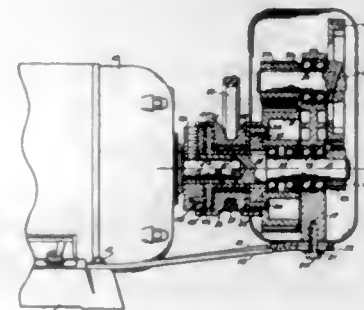
In a power transmission having a rotatably-powered drive shaft and a driven shaft journaled for rotation in spaced parallelism with said drive shaft, an elongated cam peripherally contoured from zero eccentricity at one end to maximum eccentricity at its other end on, rotatable with, and shiftable axially of said drive shaft, means manually actuable in engagement with said cam to shift and to position the latter axially of the drive shaft, an arm revolvably journaled adjacent one end on said driven shaft to span perpendicular to and between the drive and driven shafts, a follower on the end of said arm adjacent the drive shaft disposed to track on said cam, an extension of said arm beyond its mounting on the driven shaft and away from the drive shaft, a second arm journaled for oscillation about an axis spacedly adjacent and parallel to the driven shaft to span perpendicular to and between said axis and the drive shaft on the side of the latter opposite to said first arm, a follower on the end of said second arm adjacent the drive shaft disposed to track on said cam in the same plane radially of the drive shaft as the follower of the first arm, an extension of said second arm away from the drive shaft spacedly registered in a common plane radially of the driven shaft with the extension of said first arm, an expansive coil spring end-engaged with and operatively between outer ends of said extensions to yieldably urge both said followers into engagement with the cam, a reversible, overrunning clutch operatively coupling the journal of said first arm and said driven shaft, a duplicate overrunning clutch characterized by a race on said driven shaft adjacent said first clutch and in registration radially of the driven shaft with the journal of the second arm, intermeshing gear teeth on said race and the journal of the second arm, and means on the driven shaft between and similarly engaging said clutches selectively adjustable angularly about the shaft to simultaneously determine and to optionally reverse the direction of drive effect of both said clutches.

**2,716,349**  
**SPEED REDUCING DRIVE**  
Jules Nisenson, Croton-on-Hudson, N. Y.  
Application October 30, 1953, Serial No. 389,241  
1 Claim. (Cl. 74-209)



A reduction driving device for use in transmitting rotational motion comprising: a first frame element, a second frame element pivotally mounted with respect to said first frame element for rotation about a fixed axis, a driven shaft having a relatively smooth cylindrical surface, and a first driven toothless gear mounted for rotation upon said second frame and frictionally engaging said driven shaft; resilient means engaging said second frame element with respect to said first frame element to urge said toothless gear into operative contact with said driven shaft; said driven gear having a second axis of rotation upon said second frame element which is displaced from said first-mentioned axis; a pinion mounted coaxially with said driven gear, a second driven gear mounted for rotation coaxially with said first-mentioned axis, said pinion being engaged with said second driven gear; said driven shaft and said first driven gear contacting each other in a plane, said plane forming an angle between 4 and 10 degrees with a plane passing through said first-mentioned axis of rotation, and the axis of rotation of said driven shaft.

**2,716,350**  
**SLOW SPEED CONVERTER MOTOR DRIVE**  
Robert D. Phares, Phoenix, Ariz., assignor to Savage Manufacturing Company, Phoenix, Ariz.  
Application June 5, 1953, Serial No. 359,837  
7 Claims. (Cl. 74-217)

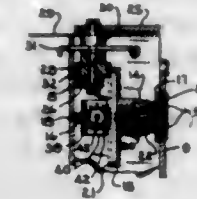


1. In a slow speed converter drive having a drive motor, an output drive shaft from said motor, a base on said motor, and mounting bolts for securing said base to a machine frame, a slow speed converter unit including a main power input shaft rigidly mounted on said output drive shaft of said motor, a speed reduction unit journaled on and driven from said main power input shaft, and an output pulley journaled on said main power input shaft arranged to be axially shifted for driving engagement either with said output drive shaft of said motor or with said speed reduction unit.

**2,716,351**  
**MOTION PICTURE CAMERA GEAR MESH ADJUSTMENT**  
Irving Cisski, Schiller Park, Ill., assignor to Ampro Corporation, Chicago, Ill., a corporation of Illinois  
Application February 14, 1951, Serial No. 210,980  
7 Claims. (Cl. 74-400)

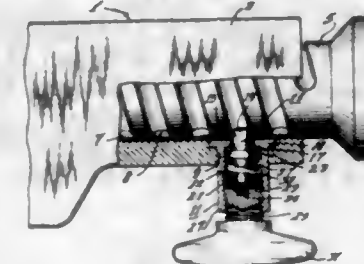
1. In a motion picture camera motor and turns-increasing sub-assembly that includes as an output element a crown gear that is supported by a shaft extended

inward from an external supporting structure and for rotation and axial movement relative to the axis of said shaft, and said gear having an end surface facing said supporting structure; means for adjusting the axial position of said gear relative to the supporting structure comprising a screw extended through and in threaded



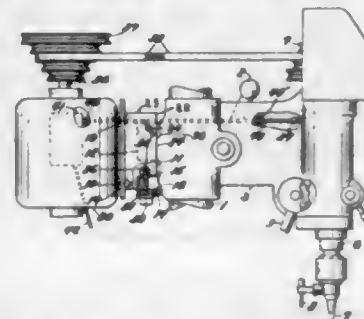
engagement with said structure adjacent and parallel to said shaft, said screw having an inner end inside said structure and an outer end accessible from the outer side of said supporting structure for rotation of the screw, and means for transmitting thrust from said inner screw end to said crown gear end surface.

**2,716,352**  
**ADJUSTING AND LOCKING DEVICE**  
Allen T. Wilson, Gloucester, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application August 31, 1950, Serial No. 182,486  
6 Claims. (Cl. 74-424.8)



1. An adjusting and locking device for a projection lens mounted in a ferrule provided with an external thread and a support therefor comprising a bushing having a bore for slidably receiving the lens ferrule, said adjusting and locking device comprising spring biased means extending through said bushing into said bore, said spring biased means being engageable with said ferrule, means for varying the biasing pressure of said ferrule engaging means, and means carried by said pressure varying means engageable with said ferrule engaging means for locking said lens against movement.

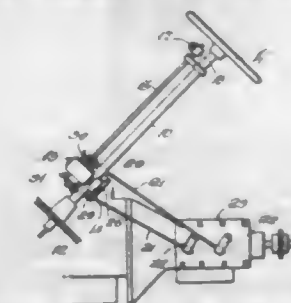
**2,716,353**  
**MOTOR MOUNTINGS**  
John E. Boice, Toledo, Ohio, assignor to Boice-Crane Company, Toledo, Ohio, a corporation of Ohio  
Application October 20, 1952, Serial No. 315,605  
4 Claims. (Cl. 74-472)



4. A machine tool frame, a vertical axis driven shaft mounted in the frame, an electric motor having a base with a rigid extension, a switch mounted on the motor, a vertical drive shaft actuated by the motor, an electric current supply directly to the motor independently of the frame, a transmission between the shafts including an endless belt, said frame having fixed therewith a seat extending radially from the axis of the driven shaft. a

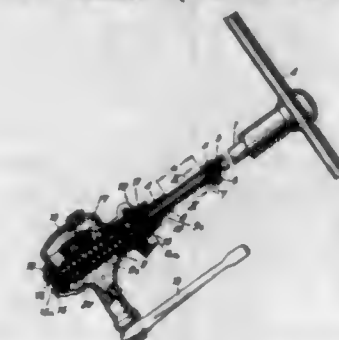
pivot pin mounting for the motor base extension and adjustable along the seat toward and from the driven shaft, clamp means spaced from the pivot pin and independently adjustable to hold the shafts in selected fixed parallel relation therebetween, and a push rod in proximity to the driven shaft, movably mounted upon the frame to leave the motor free for adjustment relatively to the frame, said push rod having connection to operate the switch.

**2,716,354**  
**GEAR SHIFT NEUTRALIZER**  
James B. Dick, Birmingham, Ala.  
Application March 16, 1954, Serial No. 416,457  
6 Claims. (Cl. 74-477)



1. In combination with a transmission shift box having a pair of radially extending actuating arms extending therefrom in spaced parallel relation, each of said arms having a neutral position, the provision of a bracket attached to said box, and means carried by said bracket for automatically aligning said arms in angular registry with each other when said arms are moved to their neutral positions, said bracket being L-shaped and comprising a standard affixed to said box and a shelf extending between said arms, and said means comprising a pair of levers each pivotally mounted at one end upon one side portion of said shelf and each having a notch for receiving one of said arms therein, and a spring interconnecting said levers and urging the same into frictional contact with their adjacent arms.

**2,716,355**  
**STEERING MECHANISM HAVING A YIELDABLE STEERING SHAFT FOR AUTOMOTIVE VEHICLES**  
Leopold Schmid, Stuttgart-Sillenbuch, Germany, assignor to Dr. Ing. h. c. F. Porsche K.-G., Stuttgart-Zuffenhausen, Germany  
Application January 12, 1953, Serial No. 330,675  
Claims priority, application Germany January 26, 1952  
8 Claims. (Cl. 74-493)



1. In a steering mechanism for automotive vehicles including a steering gear mounted in a housing holding a body of lubricating oil, the improvement in which the steering gear comprises a hollow actuating shaft-like member journaled in the housing and extending into the body of lubricating oil, said member including a passage-way at its inner end for the flow of lubricating oil thereinto from the housing and for the discharge of lubricating oil therefrom into the housing, a yieldable steering shaft one end of which extends into said hollow member, said shaft being keyed to said hollow actuating member and mounted for axial movement into the actuating mem-

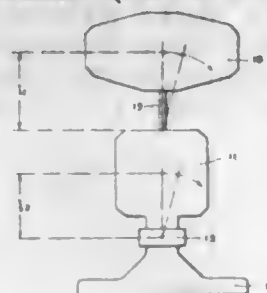


ber, and means for biasing the steering shaft outwardly with respect to the hollow actuating member in the housing.

2,716,356

## DAMPING SYSTEM

Erwin Wiedemann, Riehen, Switzerland, assignor to Sandoz A. G., Basel, Switzerland, a Swiss firm  
Application January 28, 1953, Serial No. 333,742  
Claims priority, application Switzerland January 28, 1952  
2 Claims. (Cl. 74—572)

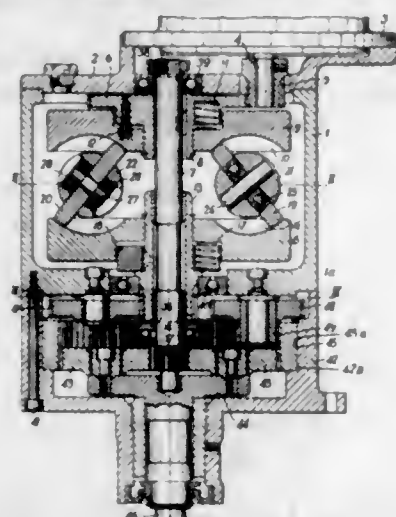


1. A damping system applicable to a rotating system with vertical axis, and comprising a driving part provided with a driving axle, resilient supporting means upon which said driving part is mounted, and a driven part consisting of a rotor, a vertical flexible shaft supporting said rotor, the upper end of said flexible shaft being rigidly attached to the base of the said rotor while the lower end of said flexible shaft is rigidly attached to the axle of the said driving part, the natural frequency of the said driving part being determined by the mass of the said driving part and by the distance between its centre of gravity and the horizontal plane passing through the centre of oscillations of the resilient supporting means, and the natural frequency of the said driven part being determined by the mass of the said driven part and by the distance between its centre of gravity and the base-point of the said flexible shaft, these magnitudes being such that the natural frequencies of the said driving part and the said driven part are not in simple ratio to one another.

2,716,357

## CONTINUOUSLY VARIABLE SPEED GEARS

Sven Bernhard Rennerfelt, Goteborg, Sweden  
Application July 7, 1952, Serial No. 297,421  
1 Claim. (Cl. 74—691)



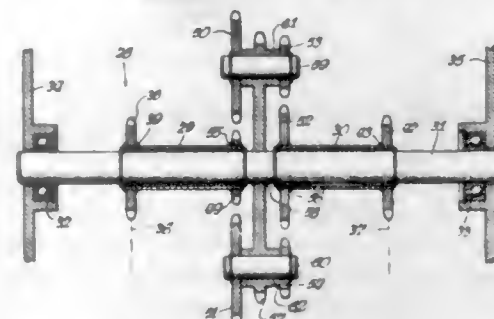
A continuously variable speed gear having a variable speed output in a relatively low speed range comprising in combination a continuously variable speed friction gear and a planetary gear, the friction gear having a driving and a driven shaft, two rotatably mounted coaxial axially displaceable discs having opposed annular concave surfaces, one disc being mounted on the driving shaft and the other being mounted on the driven shaft, said driven shaft being hollow and rotatable on said driving shaft, intermediate wheels disposed between the discs for cooperation with the annular surfaces of the discs for transmitting

motion between the discs, each intermediate wheel being rotatable about an axis intersecting the axis of the discs and about an axis at right angles to the axis of the discs, means for urging the discs into frictional engagement with the intermediate wheels, and means for controlling the angularity of the intermediate wheels relatively to the axis of the discs; and the planetary gear having a first driving shaft identical with the driving shaft of the friction gear, a sun gear wheel on said first driving shaft, a gear ring toothed on the inside and meshing with the planet gear wheels, said planetary gear being enclosed within a housing having a cylindrical journal bearing seat on the inner surface of the wall thereof, said gear ring having a complementary cylindrical journal bearing surface supported upon said bearing seat of said housing, a second driving shaft in said planetary gear identical with the driven shaft of the friction gear, a gear wheel on said second driving shaft, reduction gearing comprising an even number of intermeshing gear wheels rotatable on fixed axes and constituting a driving connection between said gear wheel on said second driving shaft and said gear ring, and a planet gear wheel carrier carrying said planet gear wheels and constituting the relatively low and variable speed driven shaft of the combined friction and planetary gear.

2,716,358

## UNEQUAL TORQUE DIFFERENTIAL

Stuart D. Pool, Moline, and William H. Walker, East Moline, Ill., assignors to International Harvester Company, a corporation of New Jersey  
Application October 19, 1953, Serial No. 386,860  
4 Claims. (Cl. 74—710)



1. An unequal torque differential for vehicles of the type having a relatively large traction wheel adapted to carry the major portion of the vehicle load and a spaced-apart smaller traction wheel adapted to carry a minor portion of the vehicle load, comprising a supporting housing, a driven shaft journaled in said supporting housing, a ring sprocket fixedly attached to said driven shaft, pinion shafts journaled in said ring sprocket spaced radially outwardly from said driven shaft, pinion sprockets of unequal sizes mounted on said pinion shafts, spaced-apart sleeve elements journaled on said driven shaft, a sprocket fixed to each of said sleeve elements and being of unequal sizes, the smaller of said sprockets in planar alignment with the larger pinion sprockets, the larger of said sprockets in planar alignment with the smaller pinion sprockets, and chains joining each set of aligned sprockets whereby unequal torques are delivered to said sleeve elements.

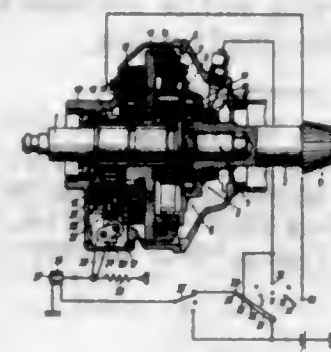
2,716,359

## POWER TRANSMISSION DEVICE IN PARTICULAR FOR MOTOR VEHICLES

Hans J. M. Förster, Harthausen A. F., Kr. Esslingen (Neckar), Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany  
Application February 17, 1950, Serial No. 144,830  
Claims priority, application Germany February 23, 1949  
9 Claims. (Cl. 74—781)

1. A transmission mechanism with a plurality of elements comprising a driving element, a driven element,

a freewheeling device self-locking in one relative direction of rotation between said driving element and said driven element, a counter-freewheeling device between two of said elements self-locking in the opposite relative direction of rotation, electric engaging means between said driven element and one other of said elements for



effectively locking said counter-freewheeling device in said opposite relative direction of rotation, another electric engaging means for effectively locking said counter-freewheeling device in said one relative direction of rotation, and unlocking means for selectively unlocking said counter-freewheeling device in said opposite relative direction of rotation.

2,716,360

## DEBURRING TOOL

Stuart A. Cogsdill, Detroit, and William D. Walters, Huntington Woods, Mich., assignors to Cogsdill Tool Products Inc., Oak Park, Mich., a corporation of Michigan

Application July 21, 1954, Serial No. 444,726  
5 Claims. (Cl. 77—73.5)



1. A deburring tool including, in combination, a driving member having a stem extending therefrom, the end of the stem opposite to the driving member containing a slot, a deburring blade, a pivot securing said blade in said slot, said blade having an operating arm extending outwardly of said slot, an externally threaded sleeve slidable over said stem having a slot through which said arm extends, a pair of threaded cam sleeves adjustable on said thread on either side of said arm, and a limiting means on said externally threaded sleeve adapted to abut the work-piece on which the tool is operating to permit relative movement between said extending arm and said cam surfaces.

2,716,361

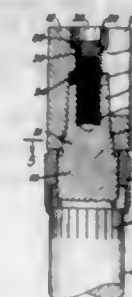
## EXPANSIBLE REAMER

Paul R. Engel, Irondequoit, N. Y., assignor to Carl Wirth & Son, Inc., Rochester, N. Y., a corporation of New York

Application April 6, 1951, Serial No. 219,719  
4 Claims. (Cl. 77—76)

1. A reamer comprising a cutting head, an arbor on which said cutting head is mounted, and means for se-

curing said cutting head on said arbor, said cutting head having a plurality of cutting teeth formed on its periphery and having a bore, a forward part of which is conical and the rear part of which is polygonal in cross-section and having a plurality of axial slots which extend part-way of the length of the cutter head and from the periphery of the cutting head into said bore, said arbor having a front, a conical portion to fit into the conical portion of said bore and having a rearward portion which

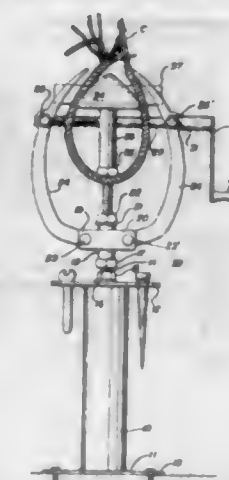


is polygonal in cross section to engage in the polygonal portion of said bore to drive said cutting head from said arbor, a collar member rotatably mounted on said arbor and axially adjustable thereon and against which the rear end of said cutting head seats, and means adjustably secured to said arbor and engaging said cutting head at its front end and cooperating with said collar member to adjust said cutting head axially on said arbor to expand and contract said cutting head.

2,716,362

## CABLE-SPLICING VISE

Stanley W. Novak, Sharon, Pa.  
Application November 9, 1954, Serial No. 467,780  
8 Claims. (Cl. 81—17.5)



1. A cable-splicing vise for forming eyes in the ends of cables comprising a pair of spaced pivoted jaws, a pivot for each jaw, said pivots being spaced from each other and adjustably positioned on a vertical support member, apertured pivot blocks engaging said jaws in oppositely disposed relation, a shaft engaging said apertured pivot blocks, one end of said shaft being threaded and the aperture in one of said pivot blocks being threaded for registry therewith, and means for rotating said shaft to move said jaws toward and away from each other, a throat-block member adjustably mounted on said vertical support and positioned intermediate said jaws, and guide means on said throat-block member slidably engaging said jaws for maintaining said throat-block member in fixed position with respect thereto.

2,716,363

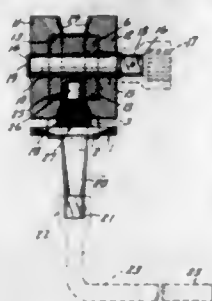
## ANGLE HEAD FOR SOCKET WRENCHES

Nicholas P. Wasylow, Grand Forks, N. Dak.  
Application March 12, 1954, Serial No. 415,717  
1 Claim. (Cl. 81—57)

In a device of the class described, a generally U-shaped frame including a base plate and a pair of spaced



arms, a cylindrical bearing, means mounting said bearing between said arms in spaced relation to said base plate, said means comprising a pair of diametrically opposed mounting screws disposed normal to the axis of said bearing, a pair of opposed bevel gears each having an axial recess, the opposite ends of said bearing each being received in one of said recesses and journaling said bevel gears for rotation thereon, a gear shaft extending axially through said bearing and bevel gears and secured to one of said gears for common rotation therewith, means for locking said gear shaft and bevel gears against axial movements relative to each other and to



said cylindrical bearing, a drive shaft journaled for rotation in said base plate, the inner end of said drive shaft being journaled in said bearing intermediate said bevel gears and on an axis normal to the axis of said bevel gears, a pinion fast on said drive shaft and having meshing engagement with said bevel gears, the outer end of said pinion engaging said base plate and restrained thereby against axial movement away from meshing engagement with said bevel gears, means on one end of said gear shaft for detachably mounting a socket wrench head thereon, and means on the outer end of said drive shaft for detachably securing a wrench thereto.

2,716,364

**SNAP LOCK PLIER-TYPE WRENCH**  
Herbert D. Cook and Elsie P. Cook, Worthington, Ind.  
Application May 22, 1953, Serial No. 356,682  
6 Claims. (Cl. 81-84)



1. A snap lock, plier-type wrench comprising: pivotally connected first and second jaw assemblies having spaced, converging surfaces and having a wedge disposed between said surfaces, said wedge being adjustable toward the convergent ends of said surfaces and being adapted when so adjusted to bias the jaw assemblies into gripping engagement with a workpiece; and means for holding the wedge in selected positions to which the same is adjusted.

2,716,365

**MULTI-GRIPPING SURFACE WRENCH WITH OFFSET FULCRUM**  
James Keeley, Jr., Newark, N. J.  
Application April 30, 1953, Serial No. 352,163  
8 Claims. (Cl. 81-79)



6. In a wrench, a pair of members pivotally connected on a fulcrum offset from the center line of said wrench, complementary jaw elements formed on said members

adapted to form a multi-gripping surface opening in the closed position, said jaw elements each having at least an inner and an outer gripping surface and forming one-half of said opening, abutting means angled rearwardly from one of said inner gripping surfaces parallel to the plane of the opposite inner gripping surface, and said opposite inner gripping surface extended to engage said abutting means in the closed position.

2,716,366

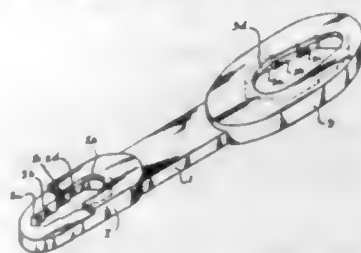
**ADJUSTABLE PIPE WRENCH**  
Charles H. Strang, Brooklyn, N. Y.  
Application July 15, 1954, Serial No. 443,500  
2 Claims. (Cl. 81-98)



2. A pipe wrench comprising an elongated shank having an externally threaded portion and a handle portion adjacent said externally threaded portion, a pipe-engaging jaw slidable along said shank and externally threaded portion, said jaw extending laterally and being provided with an arcuate toothed portion means for adjusting said jaw along said shank, a stationary jaw cooperable with said first jaw and means for mounting said stationary jaw at that end of said shank remote from said handle portion, said stationary jaw comprising a jaw portion having an arcuate toothed portion cooperable with said first jaw toothed portion whereby to secure a pipe therebetween, and a shank portion inclined from said stationary jaw, said means for mounting said stationary jaw comprising an integral inclined extension on said first shank at the end thereof remote from said handle portion, said inclined extension having a longitudinal bore therethrough for receiving said stationary jaw inclined shank portion therewithin, a pin piercing said extension and inclined shank portion, and a laterally extending flange on that end of said inclined shank portion remote from said stationary jaw, said flange being engageable by an outer end of said inclined extension upon application of torque to said handle portion of said first shank.

2,716,367

**MULTI-SIZED WRENCH**  
Joseph B. Montgomery, Douglassville, Pa.  
Application October 8, 1953, Serial No. 384,940  
4 Claims. (Cl. 81-121)



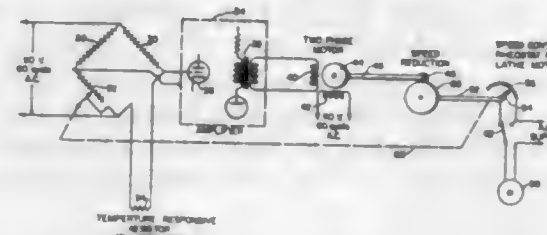
1. A multi-sized wrench having a head including a notched opening having opposite, stepped, parallel, con-

fronting edges defining progressively greater gaps for accommodating different sizes of bolts and having plate stop means overhanging and projecting inwardly from all of said edges to prevent the wrench from passing over a bolt head or nut which is spaced away from an object to which it is attached.

2,716,368

**SPEED GOVERNING DEVICE FOR MACHINE TOOLS**

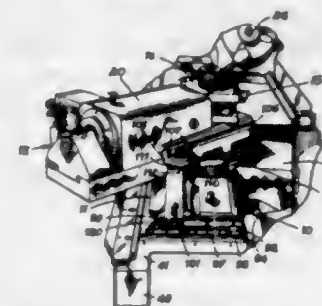
Ralph E. Thompson, Brookline, Mass.; Ralph E. Thompson, Jr., and Lothrop Withington, executors of said Ralph E. Thompson, deceased  
Application September 13, 1951, Serial No. 246,353  
4 Claims. (Cl. 82-1)



3. A machine tool comprising a cutting instrument, means for holding work in operative association with said instrument, a driving motor arranged to produce relative motion between the work and the cutting instrument, means to vary the speed of said motor, and a device for automatically governing the speed of said motor; said device comprising an element whose electrical value varies with its temperature secured in heat exchange relationship with said cutting instrument, a signal generating circuit in circuit with and controlled by said element and means connected in circuit with said signal generating circuit and said speed varying means to operate said driving motor at a varying speed whenever the electrical value of said element departs from a predetermined value, to cause the speed of the driving motor to vary in inverse relation to the temperature of the cutting instrument to maintain the temperature of the instrument within a predetermined range.

2,716,369

**MACHINE TOOL CONSTRUCTION**  
Roy H. Mumma, Springfield, Ohio, assignor to The Springfield Machine Tool Co., Springfield, Ohio, a corporation of Ohio  
Application August 18, 1950, Serial No. 180,155  
13 Claims. (Cl. 82-24)



1. Apparatus for maintaining a constant cutting speed on a workpiece in a lathe including a drive for rotating said workpiece about an axis with respect to a cutting tool, comprising a variable speed control for said drive, a support for said tool mounted on said lathe for movement towards and away from said axis, means for changing the angular relation between said axis and the path of movement of said tool support, means for sensing the radial distance of said tool from said axis, means operated by said sensing means for adjusting said control in accordance with the radial distance of said tool from said axis, and means for changing the relationship of said sensing means and said tool in correlated relation with

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2,716,370

**SOUND AMPLIFYING DEVICE FOR USE ON MUSICAL INSTRUMENTS**

Nick Sano, Newark, N. J., assignor to Sano Corporation, Irvington, N. J., a corporation of New Jersey  
Application September 20, 1951, Serial No. 247,530  
2 Claims. (Cl. 84-1.04)

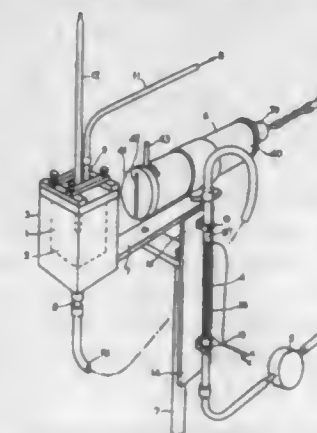


1. In an accordion having a treble tone side and a bass tone side and sound escape openings on each said sides, the combination with said sound escape openings of an elongated housing attached to the exterior of said treble side, said elongated housing having one open side disposed to communicate with said sound escape opening on the treble side, a plurality of adjustable microphones disposed in said housing in spaced relation, flexible porous vibration dampening housings enclosing said microphones, a removable perforated closure for said open side of the elongated housing, and attaching means carried by said perforated closure for attaching said housing to said treble tone side.

2,716,371

**APPARATUS FOR MEASURING THE SATURATION TEMPERATURE OF SOLUTIONS**

John Errol Still, Wembley, England, assignor to The General Electric Company Limited, London, England  
Application May 21, 1951, Serial No. 227,324  
Claims priority, application Great Britain May 22, 1950  
8 Claims. (Cl. 88-14)



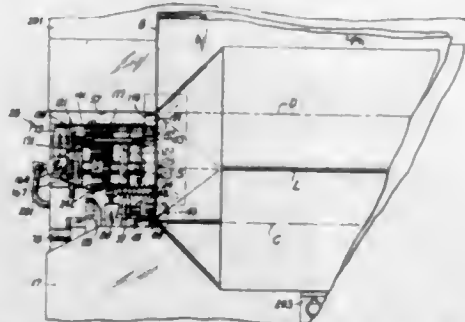
1. Apparatus for measuring the saturation temperature of a body of solution comprising a liquid container having an inlet and an outlet arranged so that when the liquid is passing between them it fills completely the part of the volume of the container lying between two opposite areas of the walls which areas are transparent and plane parallel, means for circulating solution from the body of solution, of which the saturation temperature is to be measured, in a continuous stream through the apparatus, heating means, through which the solution is passed in operation, for controlling the temperature of the solution passing into the container, means for mounting a crystal or a part of a crystal in between the said opposite areas with a growing face lying in a plane intersecting both the said opposite areas, means for measuring the temperature of the solution in the container near the said



crystal or part of a crystal, a linear slit source of light, and means for mounting the linear slit source of light so that it may be viewed through the said opposite areas along a line of sight lying in the plane of said growing face, the slit lying in a plane approximately perpendicular to the line of sight and being oriented in said plane so that on so doing it appears to intersect the said growing face at an acute angle.

2,716,372

**APPARATUS FOR MANUFACTURING BAGS**  
Russell J. Williams, Clayton, and Milton J. Helmos, Lemay, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri  
Application June 30, 1954, Serial No. 440,468  
14 Claims. (Cl. 93—30)

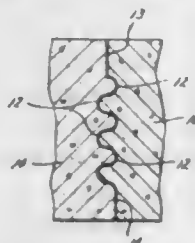


1. Apparatus for opening a bottom at the end of a length of gusseted bag tubing, comprising a support, a pair of first grippers for gripping the lower folds of the gussets of the tubing at opposite sides of the tubing, said first grippers being mounted on the support for lateral inward and outward movement relative to the tubing and also for movement lengthwise of the tubing, means biasing said first grippers laterally outward toward a retracted position outward of the sides of the tubing and also biasing them in the direction toward said end of the tubing, means for moving said first grippers inward while open, then closing them to grip the lower folds of the gussets and releasing them to be biased laterally outward so as to stretch the lower wall of the tubing laterally, a pair of second grippers for gripping the upper folds of the gussets at opposite sides of the tubing, said second grippers being mounted on the support for lateral inward and outward movement relative to the tubing and also for swinging movement from a forward position in the direction away from said end of the tubing to a rearward position for opening a bottom, means biasing said second grippers laterally outward toward a retracted position outward of the sides of the tubing, means for moving said second grippers inward while open and then closing them to grip the upper folds of the gussets, means for then swinging the second grippers from their forward to their rearward position to open a bottom, and means for releasing at least one of said second grippers to be biased laterally outward during the swinging thereof to stretch the upper wall of the tubing laterally.

2,716,373

**PAVING JOINT**

Frank H. Scrivner and Allan L. Chollar, Austin, Tex.  
Application January 5, 1951, Serial No. 204,536  
2 Claims. (Cl. 94—17)



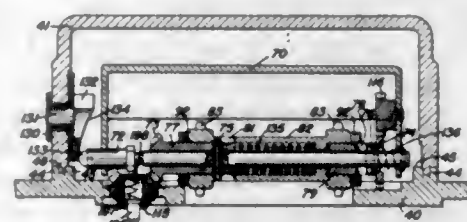
1. A concrete pavement divided into a plurality of slabs by means of sheet members; said sheet members being

corrugated into a predetermined wave form with alternate half waves extending substantially equal distances on each side of a central reference plane; said sheet members being disposed in said concrete with said plane vertical and with the corrugations horizontally disposed; each of said corrugation half waves being a semi-cylindrical section; said semi-cylindrical section being tangentially joined along lines located in said central reference plane; each semi-cylindrical section, at its intersection with the central reference plane, being tangent to a horizontal plane; said corrugated half waves being filled with dense concrete including aggregate; said sheet defining the form of the abutting faces of two adjacent slabs of pavement to be in the nature of cooperating gear teeth which may freely move horizontally to opened and closed positions with seasonal contraction and expansion of the slabs while continually interlocking sufficiently to effectively transfer load from one slab to the adjoining slab; said gear teeth form of abutting faces of the slabs also cooperating to permit the top and bottom of the joint between two adjacent slabs to alternately open and close with thermal warping of the slabs without introducing substantial stresses into said teeth.

2,716,374

**ROLL FILM MAGAZINE AND ROTATABLE BACK FOR PHOTOGRAPHIC CAMERAS**

Oscar Steiner, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware  
Application November 2, 1951, Serial No. 254,534  
7 Claims. (Cl. 95—34)

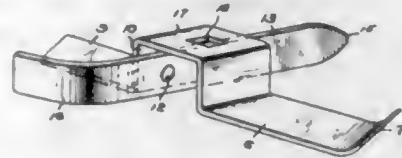


1. A removable film magazine for photographic cameras comprising a base having an exposure aperture therein, means on said base for supporting a film supply spool at one side of said exposure aperture, a take-up spool rotatably mounted on said base at the opposite side of said exposure aperture, a frame mounted on said base for pivotal movement about the axis of said take-up spool, a metering spool rotatably mounted in said frame, and a focal plane plate carried by said frame, said frame being swingable away from said exposure aperture to permit the leader of the film to be fed from said supply spool to said take-up spool, and said frame when swung toward said exposure aperture moving said focal plane plate and said metering spool into engagement with said film, and means for resiliently forcing said focal plane plate toward said exposure aperture, when the frame is swung to the latter position, thereby to hold the film engaged thereby in picture-taking position.

2,716,375

**PRE-EMERGENCE DRILL CLEANER**

King W. Parks, Delray Beach, Fla.  
Application August 20, 1954, Serial No. 451,083  
4 Claims. (Cl. 97—56)



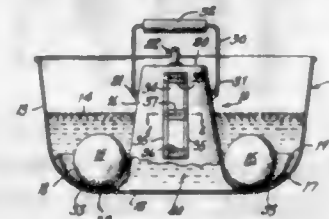
1. A pre-emergence drill cleaner for use with an agriculture machine having an implement bar and whereby the drill cleaner is conveyed along a drill row for condi-

tioning the surface soil in said drill row, comprising a flat runner that is detachably connected with the said implement bar, the runner being bent intermediate its ends to provide a downwardly opening transverse socket, a sweep device disposed in the socket and having its ends extending to opposite sides of the runner, the sweep device being adjustable vertically in the socket whereby its lower edge may be adjusted to a point below the lower surface of the runner.

2,716,376

**EGG TIMER AND HOLDER**

Norman W. Halsey, Jackson Heights, N. Y.  
Application October 27, 1953, Serial No. 388,561  
1 Claim. (Cl. 99—344)

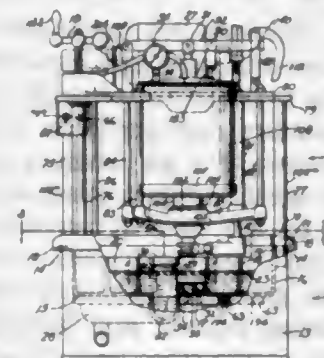


An egg timer adapted to be submerged in a household vessel containing water, said timer comprising a conical-shaped tubular body closed at its upper end and open at the lower end, said closed end having an opening therein, a whistle device sealed in said opening, the lower end of said body being flared outwardly and upwardly to form an upwardly facing egg holding trough, a vertically extending channel member on the outer surface of said tubular body forming a holder for frictionally held marking indicia and a plurality of marking indicia in said holder, each of said marking indicia being slidable in said channel member to a separately adjustable position, whereby said timer may be initially calibrated to any size of vessel in which it may be used.

2,716,377

**MEANS FOR THE MANUFACTURE OF ARTICLES OF FOOD**

Ernest E. Lindsey, Los Angeles, Calif.  
Application May 26, 1950, Serial No. 164,457  
13 Claims. (Cl. 99—406)



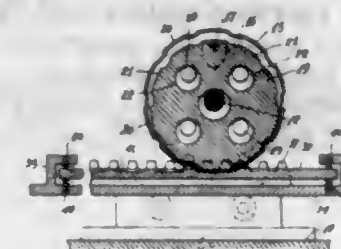
1. In a continuously operating, power-driven cooking machine for the production successively of a plurality of similarly shaped and sized cooked products, said machine utilizing as a cooking medium a hot cooking fluid of greater specific gravity than the product, when said products are either partially or wholly cooked but of less specific gravity than the product when wholly uncooked, the combination of: means providing a channel for containing a horizontally surfaced stream of cooking fluid; means for circulating the cooking fluid in an endless stream in said channel; means disposed vertically above the upstream end of the channel for dropping into the stream of cooking fluid in chronological succession a plurality of similarly sized and shaped wholly uncooked portions of dough; and a drop plate positioned directly beneath said dropping means and consisting of a reticulated horizontal plate extending from one side

wall of the channel to the other side wall thereof, at a level midway between the surface of the cooking fluid and the bottom surfaces of the channel, and a fluid-tight vertical wall secured to, and extending from, the downstream end of the horizontal plate to the bottom surface of the channel, and from one side wall of the channel to the other side wall thereof, the side walls of the channel being formed with vertical guideways for the reception of the vertical edges of said vertical wall, whereby the drop plate may be removably secured in a fixed position longitudinally and vertically with respect to the channel.

2,716,378

**DEVICE FOR PRINTING EMBOSSED FIGURES ON COMPUTER WHEELS**

William J. George, Canonsburg, Pa.  
Application June 25, 1953, Serial No. 364,132  
5 Claims. (Cl. 101—38)

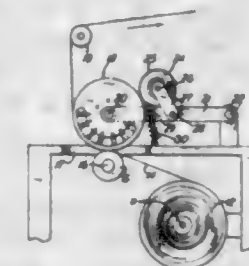


1. A device for printing embossed figures on the peripheral surface of a cylindrical object comprising a frame, a housing mounted on one side of said frame, a spindle rotatably mounted in said housing and extending outwardly therefrom, a toothed wheel keyed to said spindle adjacent the housing, means on the spindle receiving the cylindrical object to be printed, means on the cylindrical object and the toothed wheel cooperating to hold the two in fixed relation, back-up means entering the cylindrical object and provided with portions corresponding to the embossed figures being printed, means bringing the back-up wheel into engagement with a particular figure being printed, a printing bar mounted on the frame beneath the spindle and slidable at right angles thereto, a rack bar supported at its ends on the printing bar and engaging the toothed wheel on the spindle, said rack bar being depressable intermediate its ends to disengage it from the toothed wheel, and a printing plate on the printing bar provided with raised figures corresponding to the figures being printed and contacting them to print the surface of the embossed figure, said plate being tangential to the periphery of the wheel being printed.

2,716,379

**PRINTING ROLL**

Samuel Pitt, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application March 4, 1954, Serial No. 414,191  
2 Claims. (Cl. 101—92)



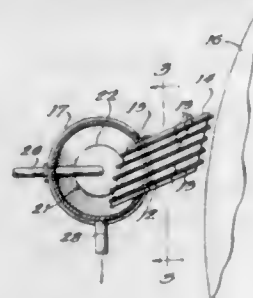
1. An apparatus for printing identifying data on a longitudinally moving tape, the apparatus comprising a roller to support and guide the tape, a printing wheel having an opening in a side thereof and an opening in the



periphery thereof, a resilient rim composing the outer periphery of the wheel having a central peripheral recessed portion covering the major portion of the wheel and having an opening of the general contour and disposed in registration with said peripheral opening, means to support the wheel for rotation by the longitudinally moving tape, means to hold the wheel on the tape at the supporting roller, printing units mounted radially at spaced positions in the wheel and the peripheral opening therein, certain of the printing units having a belt of spaced type and means accessible through the side opening in the wheel for adjusting the belt to selectively position the type singly in the printing position adjacent the periphery of the wheel, and an ink applying roller smaller in width than the width of the peripheral recess and opening to apply ink solely to the type in the printing position.

2,716,380

**SPRAY DAMPENING SYSTEM FOR LITHOGRAPHIC OFFSET PRINTING PRESSES**  
James K. Martin, Chicago, Ill., assignor to Lithographic Technical Foundation  
Application November 2, 1953, Serial No. 389,740  
6 Claims. (Cl. 101—147)



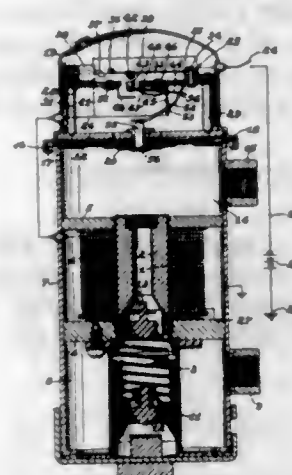
1. A spray dampening system for lithographic offset presses comprising: an elongated chamber arrangeable in proximity to a printing cylinder adapted to carry a printing plate or medium to be dampened and having a lengthwise outlet slot therein opening toward said cylinder; means for providing in said chamber an electrically-charged dampening spray medium under pressure; a series of substantially parallel metal plates fixedly supported by the chamber and so disposed in relation to said slot that the spray medium must pass between them in moving from said chamber toward said cylinder; means for placing an electrical charge on said plates to cause precipitation of a controlled quantity of the charged particles of said dampening spray medium; means for placing an electrical charge on said spray medium; and means for varying the strength of the electrical charge of a given polarity on said plates with respect to the charge on said spray medium.

2,716,381

**RECIPROCATING ELECTRO-MAGNETIC PUMP**  
Leland C. Parker, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware  
Application July 16, 1952, Serial No. 299,111  
2 Claims. (Cl. 103—25)

1. In a reciprocating electromagnetic pump a casing having an inlet chamber and an outlet chamber, a cylinder connecting said chambers, a hollow magnetic piston slidable in the cylinder, a spring urging the piston toward the outlet chamber, a solenoid operative to retract the piston; and means for energizing the solenoid including a normally stationary contact, a spring-mounted contact normally spaced therefrom, electromagnetic means for moving the spring-mounted contact into engagement with the normally stationary contact, and a source of electrical energy connected through said contacts to the pump solenoid, the contact-actuating electromagnet being bridged across said contacts; including further a cap for said casing forming

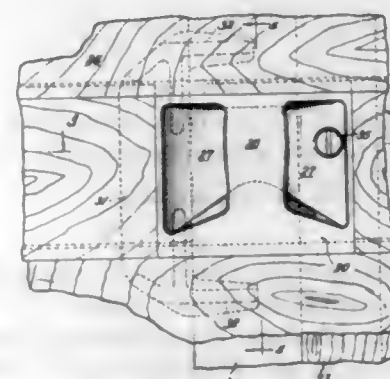
a housing for the contact assembly, a flexible diaphragm which constitutes a partition between the outlet chamber of the casing and said cap, and means responsive to flex-



ure of said diaphragm by pressure in the outlet chamber for moving the normally stationary contact out of the path of the spring-mounted contact.

2,716,382

**LADING TIE ANCHORS**  
Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Application June 27, 1952, Serial No. 295,991  
9 Claims. (Cl. 105—369)



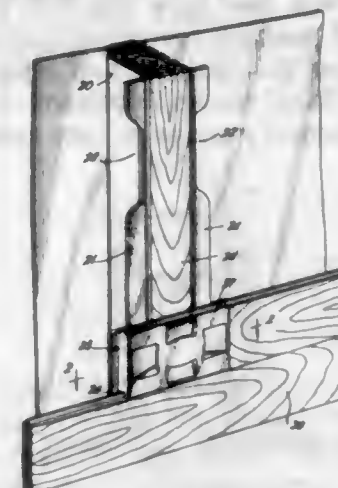
1. A tie anchor for railroad house cars having structural wall posts and tongued and grooved inner lining boards, comprising a single rectangular unit adapted to bear against a structural car post and having a tie element holding portion and a tie element receiving cavity extending beneath the holding portion with openings on the forward side of the unit at opposite sides of the holding portion, the upper and lower sides of the unit being tongued and grooved to match the grooves and tongues of the lining boards and having lining board supporting surfaces at the sides and a reversely disposed integral portion spaced a predetermined distance from the rear side of the anchor to receive a portion of a car structural post therebetween and effect holding relation therewith.

2,716,383

**LADING TIE ANCHOR MEANS**  
Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Application September 30, 1952, Serial No. 312,296  
16 Claims. (Cl. 105—369)

1. A single piece lading tie anchor for railroad house cars and the like, having a body the forward side whereof has a dish out channel deepest at center with sloping walls terminating in forwardly presented outlets, and a tie element holding bar disposed across said channel intermediate said outlets; the rear of the anchor at opposite

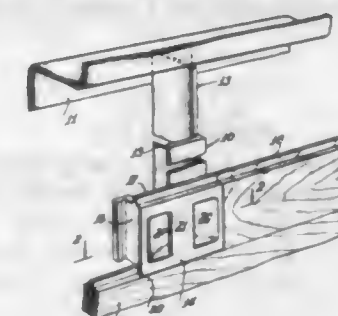
ends having opposingly disposed portions spaced from each other and from the main rear wall of the anchor



to provide interengaging relation with laterally disposed portions of a car structural post.

2,716,384

**LADING TIE ANCHOR MEANS**  
Malcolm S. Johnson, Flossmoor, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois  
Application February 9, 1953, Serial No. 335,629  
7 Claims. (Cl. 105—369)



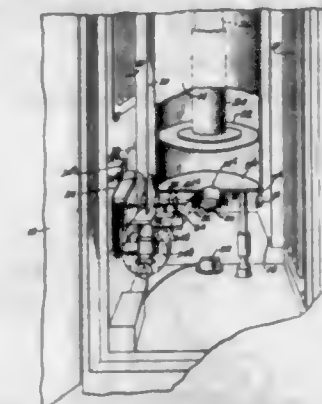
1. Tie anchor means of the character described comprising, in combination with a railroad car having an inner wall and a structural metal post of angular cross-section with a laterally disposed flange: a single-piece tie receiving anchor having a body whose forward face extends flush with the car inner wall and has a tie receiving channel intersected between its ends by a tie attaching bar integral with the body of the anchor, one end of the anchor body having a rearwardly disposed lug adapted to engage one side of said structural post to hold the anchor body against transverse movement in one direction, while the rear side of the anchor body has an integral leg extending in spaced and substantially parallel relation with the rear side of the anchor body and terminates in a plane removed from the vertical plane of said lug and substantially equal to the thickness of the body or web portion of said structural post so as to engage the latter on its side opposite to its engagement by said lug and to overlap the laterally disposed flange of said structural post and effect wedging relation therewith.

2,716,385

**AUTOMATIC DISPENSER FOR ICE CREAM BALLS OR THE LIKE**  
Robert G. Tarr, Villa Park, Ill.  
Application August 27, 1949, Serial No. 112,725  
7 Claims. (Cl. 107—8)

1. In an automatic dispenser for balls of ice cream or the like, the combination of a cylindrical ice cream container having an outlet tube, an ice cream cup snugly fitted in said outlet tube, means supporting said cup for movements in response to pressure of ice cream in said tube, means biasing said cup against the pressure of ice

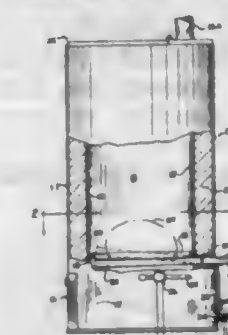
cream in said tube, a plunger in said container, means operable in response to a predetermined movement of said cup against the ice cream pressure to move said



plunger towards said tube and responsive to a predetermined movement of said cup with the ice cream pressure to discontinue movements of said plunger.

2,716,386

**AUTOMATIC INCINERATOR**  
Avon Smart, Detroit, Mich.  
Application August 18, 1952, Serial No. 305,059  
2 Claims. (Cl. 110—18)



1. In a device of the character described, a hollow receptacle having a combustion compartment with a clean out compartment below the level of said combustion compartment, a loading door for closing one end of said combustion compartment, a grate separating said combustion compartment and said clean out compartment, said grate having an elongated central opening, a fuel burner beneath said opening for consuming refuse on said grate, an arm pivoted for vertical movement in said opening, said arm having one end arranged to be depressed by the weight of the said refuse, said arm having an extension, with operatively associated means thereon, for closing an electric circuit, an electric circuit, an electric switch in said circuit, control means for said burner in said circuit, a second switch in said circuit in series with said other switch, a push rod for closing said second switch, the upper end of said push rod being reciprocable in the path of travel of said loading door and is positioned to be contacted by said door to move said rod in one direction to close said last named switch when said loading door is moved toward closed position, said control means being actuated by said circuit only upon the closing of both of said switches, spring means for elevating the said end of said arm, whereby to open said first switch upon the consumption of said refuse, and spring means for moving said push rod in the other direction, whereby to open said second switch when said loading door is opened.

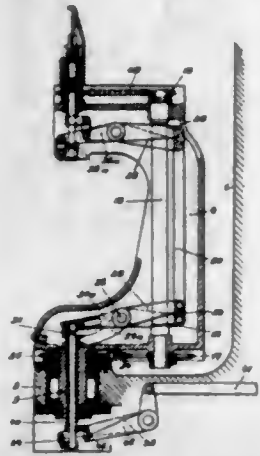
2,716,387

**EDGE SEWING MACHINES**  
Heinrich Muller and Karl Schwalbach, Frankfurt am Main, Germany, assignors to Maschinenfabrik Moenig A. G., Frankfurt am Main, Germany, a firm  
Application October 27, 1953, Serial No. 388,556  
Claims priority, application Germany November 7, 1952  
10 Claims. (Cl. 112—62)

1. In an edge sewing machine having a horn and vertically reciprocable sewing instrumentalities including a



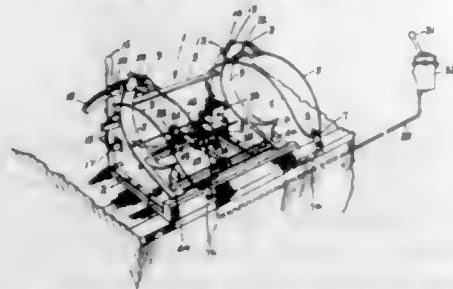
straight needle operating through a slot in the top of the horn, a turning post for the horn coaxial with the axis of the straight sewing needle, a bearing in the machine frame for turnably supporting the said horn,



and means intermediate the horn support and the sewing instrumentalities for counteracting the turning tendency of said sewing instrumentalities relative to the remainder of the machine during the turning movement of the horn about the said turning post.

#### 2,716,388 TORPEDO RACK

Gordon F. Duvall, Auburndale, Mass., assignor to the United States of America as represented by the Secretary of the Navy  
Application May 16, 1947, Serial No. 748,483  
4 Claims. (Cl. 114—239)



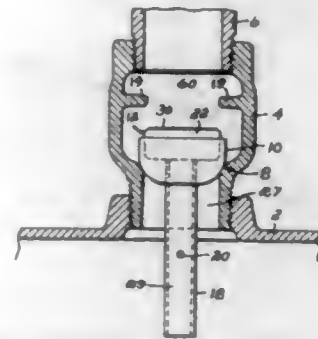
1. A remotely controlled apparatus for actuating the release mechanism of a boat torpedo rack comprising a first cylinder, a spring within said cylinder, a piston engaging said spring movable within said cylinder, manual means for displacing said piston within said cylinder against the action of said spring, a pivoted lever for holding said piston in its displaced position, said lever being constructed and arranged so that one end thereof engages the face of said piston at an angle whereby said spring pressure, shock and vibration tend to rotate it to its holding position, a second cylinder, a spring within said second cylinder, a piston movable within said second cylinder against the action of said spring, a link connecting said last-named piston to the free end of said pivoted lever whereby said piston will move to rotate said lever in a direction to release said first-named piston, means coupling said first-named piston to said rack releasing mechanism and remotely positioned means for transmitting fluid under pressure to said second cylinder for moving said second piston for rotating said lever whereby said releasing mechanism may be actuated by said first-named spring.

#### 2,716,389 SIGNALLING DEVICE FOR USE IN FILLING TANKS

Alcide Edward Mathey, Allston, Mass., assignor to Scully Signal Company, Cambridge, Mass., a corporation of Massachusetts  
Application February 20, 1953, Serial No. 337,941  
11 Claims. (Cl. 116—109)

1. A liquid level indicator for use in connection with the filling of a closed tank in which the said tank has a

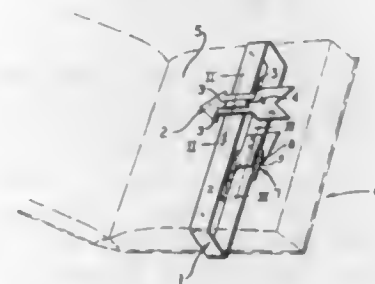
plurality of openings in its top one of which is a vent opening, said indicator comprising a casing adapted to be placed in series with said tank and vent pipe and including a plurality of passages therethrough for the escape of gaseous fluid from the tank, one of said passages being restricted by yieldable means responsive to pressure within the tank, a second passage of less capacity than said



first passage and including a whistle as an integral part of said second passage, said second passage discharging into a plurality of smaller passages, said smaller passages merging with the said first passage, said smaller passages being of such size as to prevent entry into the resonance chamber of said whistle of insects that would otherwise be capable of destroying the resonance of said whistle by undue obstruction through the whistle passage.

#### 2,716,390 BOOKMARK

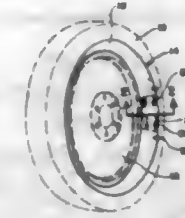
Archie L. Goins, Utica, Ky.  
Application December 29, 1950, Serial No. 203,473  
1 Claim. (Cl. 116—119)



An improved bookmark comprising: a flexible elastic flat belt defined by two edges and two surfaces and having opposite ends cooperable to be fastened together to effectively comprise loop means cooperable to be laterally removably slipped over a plurality of pages of a book to cooperably engage said plurality of pages of said book in a generally vertically directed encompassing relationship with respect thereto; flexible marking means consisting of a virtually laterally directed flexible pointer provided with horizontal slot means therein, slidably cooperable with surfaces and edges of the flat belt whereby to mount said flexible elastic pointer for virtually rectilinear vertical slidable movement along the vertically disposed belt and with respect to the text of a selected page of a book so as to indicate virtually any desired point thereon; and self-locking fastening and adjusting means effectively connected to one end of the belt and slidably cooperable with the other end of the belt and responsive to tension exerted in a direction tending to enlarge the loop means to frictionally lock the two ends of the belt with respect to each other in a manner selectively disengageable by relatively moving the two ends of the belt in the opposite direction to allow adjusting the overall length of said loop means so as to be capable of removable engagement with books of different sizes.

#### 2,716,391 PAINT SPRAY MASK FOR AUTOMOBILE WHEELS

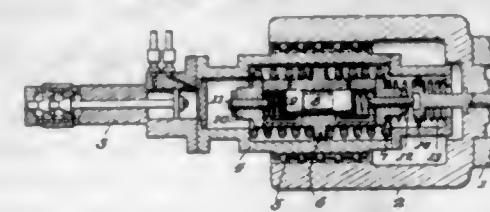
Wilbur H. Nonemaker, East Prospect, and Carroll S. Fritz, York, Pa.  
Application January 8, 1954, Serial No. 402,892  
6 Claims. (Cl. 118—505)



1. A mask detachably mountable on an automobile tire and wheel assembly to shield the tire while painting the wheel and comprising a shield of flexible substantially flat sheet-like material formed into a frusto-conical band having overlapping ends and the angle of the frusto-conical formation being relatively wide in order to render the band capable of being positioned close to the sidewall of a tire when the mask is in operative position, said band being sufficiently wide to shield an appreciable portion of the tire from the wheel outward and the inner edge of said band being bevelled for disposal circumferentially around said wheel between the rim thereof and tire to secure the shield detachably to said tire and wheel assembly, and spring means connected to the ends of said band and operable relative to the overlapping ends of said band to contract said band and dispose the inner edge thereof in firm engagement with the rim of said wheel.

#### 2,716,392 DEVICE FOR THE DRIVE OF OSCILLATING SYSTEMS IN PARTICULAR FOR MACHINING

Karl Wiek, Stuttgart, Germany  
Application April 19, 1951, Serial No. 221,766  
7 Claims. (Cl. 121—17)



1. A tool supporting mechanism having oscillation compensation for a machine tool, having a frame, a working tool guide rigidly fixed to said frame, a tool carrier reciprocally mounted in said frame, said tool carrier being of hollow cylindrical formation, a reciprocable element within said tool carrier having hollow cylindrical formation and a normal position longitudinally of the tool carrier, opposed spring means engaging the reciprocable element and the carrier and resisting displacement of the latter from its normal position, a piston in said reciprocable element, means to effect reciprocation of the piston in the reciprocable element, and elastic cushioning means at each end of the piston movement.

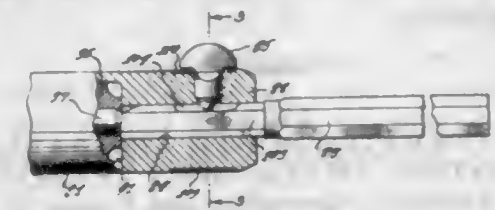
#### 2,716,393 CHIPPING HAMMER TOOL RETAINER

Howard R. Fischer, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey  
Original application March 17, 1949, Serial No. 81,935, now Patent No. 2,672,129, dated March 16, 1954. Divided and this application July 10, 1953, Serial No. 367,215

1 Claim. (Cl. 121—32)

In a chipping hammer having a nose portion with a tool opening for reception of a shank end of a chisel element, a chisel element retaining means including a

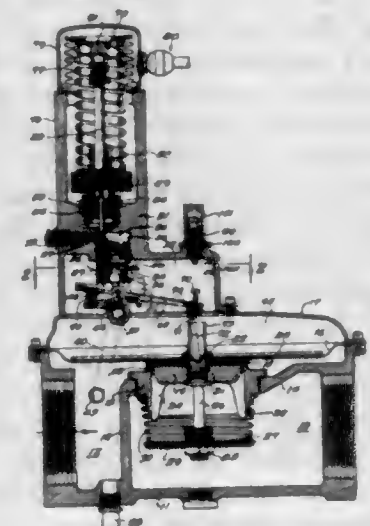
key plug which is radially positioned in the nose portion and arranged for rotative and axial movement, and a split spring retaining ring arranged within a groove formed on the outer periphery of the nose portion, said key plug having camming surfaces adapted to be engaged by the ends of the retaining ring and arranged so that in a first position the key plug is forced radially



inward by action of the retaining ring upon the camming surfaces whereby the inner end of the key plug will project into the tool opening, and being further arranged so that when the key plug is rotated up to 90° from said first position the retaining ring will force the key plug radially outward whereby the inner end thereof will not project into the tool opening.

#### 2,716,394 PILOT CONTROLLED DIAPHRAGM VALVE WITH FOLLOW-UP

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California  
Application September 28, 1953, Serial No. 382,623  
2 Claims. (Cl. 121—41)



1. In combination: a pressure motor comprising a wall movable between opposite positions; a pilot valve, of the three-position type, mounted on said motor for controlling pressure in the motor and movable in opposite directions from an intermediate balanced position to effect movement of said wall in corresponding opposite directions, the pilot valve when in said balanced position effecting stoppage of the wall between its opposite positions; an arm pivoted intermediate its ends on the motor and connected at one end to the wall so that movement of the wall effects rocking of said arm; a lever for actuating said pilot valve, said lever being in lapping relation to a medial portion of said arm and pivoted on the other end of the arm so that rocking of the arm effects operation of the lever; means, including means responsive to a controlling condition, for operating said lever gradually upon variation of the degree of said condition to effect corresponding actuation of said pilot valve and resultant movement of said wall and rocking of said arm, said lever-operating means comprising a stem movable along an axis substantially intersecting said arm-pivot and having a tip operatively engageable with the lever so as to force the same in a direction away from lapping engagement with the arm when said condition varies in a given sense; and a spring, mounted on said motor, urging the lever in an opposite

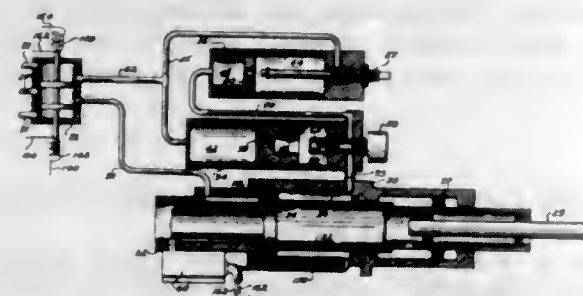


direction into engagement with the arm and thereby urging the arm in a direction toward said stem tip; said arm forming a follow-up connection between the wall and the lever, said connection being so arranged that the pilot valve is returned to its balanced position by movement of the wall resulting from said actuation of the pilot valve, the arrangement being such that the lever rocks on said stem-tip as a fulcrum in said return of the pilot valve to balanced position.

2,716,395

# FLUID OPERATED POWER APPARATUS AND CONTROL MECHANISMS THEREFOR

David D. Pettigrew, Granville, and Lyman K. Shepard, Whitefish Bay, Wis., assignors, by mesne assignments, to The Hartford Special Machinery Company, Hartford, Conn., a corporation of Connecticut  
Application August 22, 1951, Serial No. 243,088  
19 Claims. (Cl. 121-45)

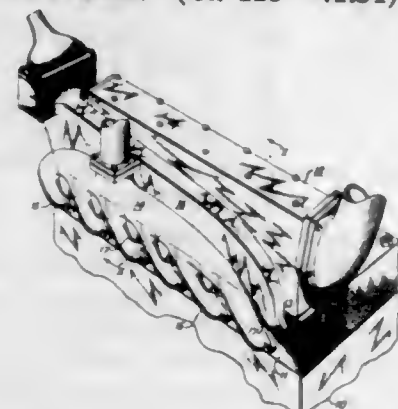


1. A power mechanism comprising a power piston movable through an advance and retract stroke under the control of a closed hydraulic circuit, the pressure in said circuit dropping when said advance stroke is interrupted, a valve selectively operable to supply fluid to said mechanism to advance and retract said power piston, an electrical control circuit including a solenoid for actuating said valve, a switch assembly for said control circuit comprising, a housing adapted to be secured to said power mechanism; a pair of independent switches mounted in said housing; an actuating plunger for one of said switches extending through the wall of said housing and said power mechanism into the path of a portion of said piston to be actuated upon contact with said piston portion to condition the control circuit to position said valve to advance said power piston; and a pressure responsive actuating mechanism for the other of said switches connected to the hydraulic circuit of said power mechanism to be actuated by a pressure drop of predetermined magnitude therein to condition said electrical control circuit to position said valve to retract said power piston.

2,716,396

# ARRANGEMENT OF MANIFOLDS ON INTERNAL COMBUSTION ENGINES

Lloyd E. Johnson, East Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California  
Application March 31, 1954, Serial No. 420,010  
2 Claims. (Cl. 123-41.31)



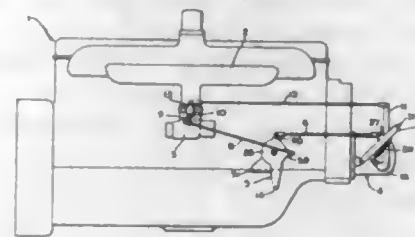
1. In an internal combustion engine having externally arranged intake and exhaust manifolds, a manifold for

coolant disposed between and substantially coextensive in length with the intake and exhaust manifolds, said coolant manifold being formed as a separate part and being separated by air space from both the other manifolds to provide a barrier to reduce heat transfer from the exhaust manifold to the intake manifold.

2,716,397

# POWER CONTROL FOR INTERNAL COMBUSTION ENGINE

George Heinisch, Akron, Ohio  
Application May 31, 1952, Serial No. 290,925  
9 Claims. (Cl. 123-108)

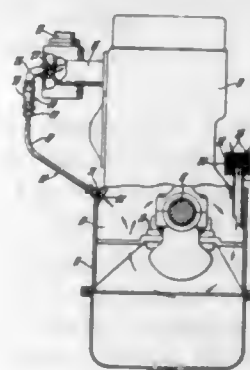


1. In a speed range and power control for an internal combustion engine employing a carburetor and a variable speed governor to control the throttle valve of the carburetor, a governor action limiting lever connected to the carburetor throttle valve, a control lever unit connected to control the variable speed governor and simultaneously the governor action limiting lever, and means including a spring loaded variable slip joint connecting the variable speed governor to the throttle valve of the carburetor.

2,716,398

# CRANKCASE VENTILATION VALVE INCORPORATING FLAME ARRESTER

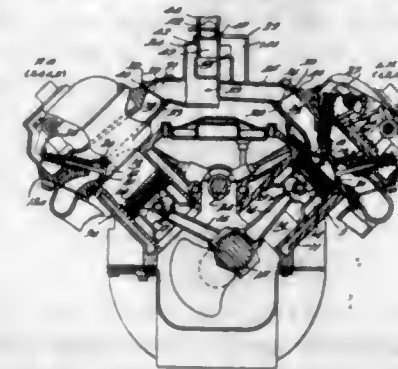
Wesley W. McMullen, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application November 21, 1951, Serial No. 257,481  
10 Claims. (Cl. 123-119)



1. A flow control device for crankcase ventilating systems in internal combustion engines comprising, a valve body having a passage therethrough, conduit means for connecting said passage between the inlet manifold and the crankcase of an internal combustion engine, a pair of spaced valve seats formed in said valve body within said passage, a valve within said passage between said seats, said valve having closure means adapted alternately to engage said seats when said valve is moved in opposite directions within said passage, resilient means tending to move said valve in one direction to engage one of said seats for closing said passage against the flow of fluid from said crankcase to said manifold, said resilient means being calibrated in relation to the inlet manifold vacuum in said engine to retain said valve on said seat during the cold starting of said engine.

2,716,399

**WATER HEATED MANIFOLD**  
Philip M. Rothwell, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware  
Application August 4, 1954, Serial No. 447,805  
9 Claims. (Cl. 123-122)

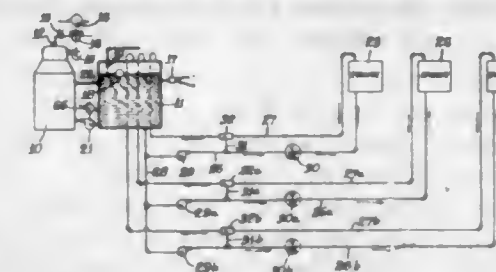


1. An intake manifold for a multicylinder engine having opposite cylinder heads each of which is provided with a mounting face for said manifold, a liquid coolant gallery, passage means connecting said gallery with said mounting face and air-fuel mixture delivery passages between said mounting face and the intake valve ports of the cylinders; said manifold comprising opposite flange portions for mounting said manifold to the said mounting faces of said cylinder heads, a central portion defining air-fuel intake riser means having a bottom distribution zone, air-fuel mixture conduits connecting said central portion and said mounting portions and defining passages for conducting air-fuel mixture from said distribution zone to said delivery passages of said heads, said central portion further defining a liquid coolant compartment jacketing said riser means distribution zone, liquid coolant intake conduit means extending transversely of said manifold between said central portion and said opposite mounting portions and defining passages connecting said compartment with certain of the said passage means of said galleries at said mounting faces, liquid coolant return conduit means extending longitudinally of said manifold from said central portion to adjacent one end thereof and defining passage means for conducting liquid coolant from said compartment, and bleed conduit means extending transversely of said manifold between said return conduit means and said mounting portions and defining passage means connecting said liquid coolant return passage means with other of the said passage means of said galleries at said mounting faces.

2,716,400

# STANDBY HEATING SYSTEM FOR INTERNAL COMBUSTION ENGINES

William M. Smith, Lombard, and Norman O. Kirkby, Elmhurst, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware  
Application November 6, 1952, Serial No. 319,118  
7 Claims. (Cl. 123-142.5)



1. A standby water heating and circulating system for supplying hot water to the water jacket of an internal combustion engine when the latter is out of service comprising, in combination, a reservoir for containing a quantity of hot water, a water heater for heating the water in said reservoir, supply and return conduits connecting

said reservoir with the water jacket of an internal combustion engine, a pump interposed in said supply conduit for forcibly withdrawing hot water from said reservoir and forcing it into said water jacket, a pressure opened valve interposed in said supply conduit at a location intermediate said pump and said water jacket, a by-pass conduit connected into said supply conduit intermediate said pump and said valve for by-passing a portion of said hot water from the supply conduit back to said reservoir; the said by-passed hot water being delivered under pressure into the return conduit and in a direction toward said reservoir, whereby to accelerate the flow of return water to the said reservoir.

2,716,401

**OIL SEAL FOR VALVE ASSEMBLY**  
Herbert E. Sietman, Bay Village, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application January 16, 1952, Serial No. 266,658  
6 Claims. (Cl. 123-188)

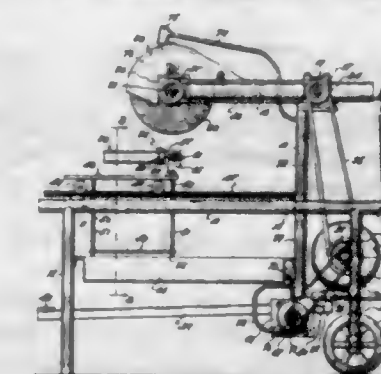


5. In a valve assembly for an internal combustion engine and the like, which includes a stemmed valve, a valve guide slidably receiving the valve stem, a valve spring retainer cap having a hollow conical head portion, spaced opposed retainer locks on said stem in said hollow head portion and anchoring the cap onto the valve, and a spring acting on the valve spring retainer cap for urging the valve into closed position, the improvement of an oil seal for said retainer cap which comprises a pliable plastic annulus having an annular groove therein receiving the small end of the conical head of said valve spring retainer cap and providing a deformable liner for said small end of the conical head of said cap in interference fitting relation with the valve stem in the cap.

2,716,402

# MASONRY CUTTING MACHINE

Albert Harrison, Sr., Lyndhurst, and Albert Harrison, Jr., Newark, N. J.  
Application June 1, 1954, Serial No. 433,535  
9 Claims. (Cl. 125-13)



1. In a masonry cutting machine having a rotatable cutting disc and means to drive and control operation thereof, a manually operative track guided work carriage adapted to carry the work into engagement with the cutting disc, said carriage comprising a main platform having a well opening therein, a work supporting well floor member, means to suspend said well floor member from



said main platform beneath the well opening thereof, and means mounted on said main platform to hold and brace the supported work against the cutting thrust of the cutting disc.

2,716,403

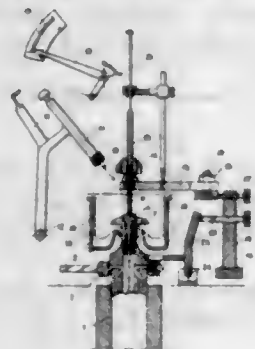
**MACHINE FOR MACHINING JEWELS**

Ernest Moser, Yverdon, Switzerland

Application October 7, 1953, Serial No. 384,678

Claims priority, application Switzerland October 11, 1952

4 Claims. (Cl. 125—30)



1. An apparatus for machining fine jewels comprising, in combination, a rotary spindle, a jewel clasp mounted on the end portion of said spindle, a spring-actuated jewel ejector mounted in and in cooperating relationship with said clasp, a tubular magazine means for feeding jewels contained therein to said clasp, said means being operatively positioned with regards to said clasp, a pusher rod means in said magazine means for displacing jewels in said magazine means toward the exit thereof into said clasp, a support movable with regard to said rotary spindle, a toolholder mounted on said support and movable with regard to said rotary spindle, a tool in said toolholder, means operatively connected with said toolholder for controlling the machining of a jewel in said clasp by the tool in said toolholder, and a means for controlling simultaneously, at the end of the machining operation, the stopping of the rotation of the spindle, the releasing of the machined jewel from the clasp, and the ejection of the machined jewel by the ejector.

2,716,404

**DIAMOND TOOL**

Jan Taeyaerts, Villa Park, Ill., assignor to Precision Diamond Tool Company, a corporation of Illinois

No Drawing. Application June 2, 1951,

Serial No. 229,658

4 Claims. (Cl. 125—39)

1. A diamond tool comprising a diamond, a matrix of sintered metal powder consisting of 64% iron and 34% nickel, and an alloy of the diamond and the matrix forming a direct and integral bond between the diamond and the matrix.

2,716,405

**FUEL BURNING SPACE HEATER**

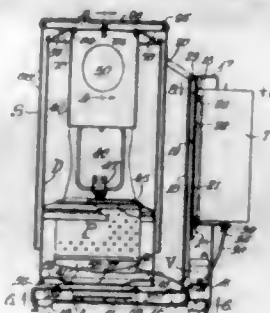
Willis N. Nelson, Wisconsin Rapids, Wis., assignor to Preway Inc., Wisconsin Rapids, Wis., a corporation of Wisconsin

Application January 19, 1952, Serial No. 267,221

6 Claims. (Cl. 126—93)

3. In a space heater of the kind described, the combination of a base, a cylindrical heating drum supported on the base, a cylindrical shell supported on the base and surrounding the heating drum in spaced relation thereto, a circular reinforcing band fitted around the top of the shell, means interconnecting the shell and drum to maintain a fixed distance of separation therebetween, a rack fixed to and upstanding from one side of the base and comprising two walls spaced from each other and from the shell, means interconnecting the two rack walls in fixed spaced relation to each other, a fuel tank supported

by the rack adjacent the wall furthest removed from the shell and upon the face thereof and having a conduit in connection with the heating drum for gravity feed of liquid fuel thereto, brace means extending away from the top of the shell and connected to the shell, the rein-



forcing band and the means interconnecting the shell with the heating drum, and fastening elements connecting the brace means also with the top of one wall of the rack thereby to provide mutual support therefor and for the shell as well as the drum interiorly thereof.

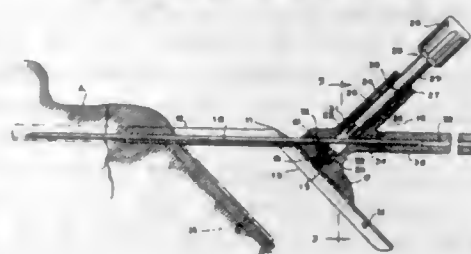
2,716,406

**HIP-NAIL DRIVER FOR ANGULAR HIP NAILS**

Edward H. Reymann, Bronxville, and Guido J. Borella, Flushing, N. Y., assignors to Austenal Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 16, 1953, Serial No. 380,435

6 Claims. (Cl. 128—83)



1. In an attachment for a hip-nail driver, the combination of a shoe for attachment to an arm of an angular hip nail, said shoe having a bore to receive a guide rod projecting from the bone of a patient and coaligned with the nail arm of the hip nail, said shoe having a second bore intersecting the first bore at an angle thereto, means disposed in the second bore on one side of the intersection with the first bore and engageable with the first-mentioned arm of the hip nail to attach the latter removably to the shoe, and operating means arranged in the second bore on the opposite side of said intersection to traverse the intersection and engage the first means to effect a connection and/or disconnection of the shoe with respect to the hip nail.

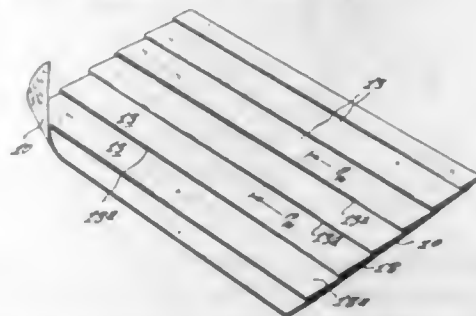
2,716,407

**SKIN COVERING MATERIAL**

George J. Glickman, Bayside, N. Y.

Application November 16, 1953, Serial No. 392,219

1 Claim. (Cl. 128—155)



As an article of manufacture, a layer of flexible material adapted to cover the skin or the like, a layer of adhesive material secured to one face of said flexible material by

means of which the material is attached to the skin or the like, and a layer of crinoline disposed across said adhesive surface, said crinoline being formed with a plurality of pleats, extending substantially parallel to the plane of the layer of flexible material, said pleats being equally spaced from each other and substantially parallel and extending from one edge of the flexible material to the other, including a layer of protective covering material provided adjacent said crinoline on the face thereof remote from said adhesive material, said protective covering material being provided with pleats coinciding with said pleats in said crinoline.

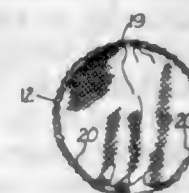
2,716,408

**SURGICAL SPONGE OR LIKE ARTICLE**

Carl W. Mott, Lake Ozark, Mo., assignor, by mesne assignments, to the Kendall Company, Boston, Mass., a corporation of Massachusetts

Continuation of abandoned application Serial No. 721,410, January 10, 1947. This application December 19, 1951, Serial No. 262,351

13 Claims. (Cl. 128—296)



1. A surgical sponge comprising a core of textile material, a piece of moisture pervious material disposed in the form of a generally globular sack enclosing said core, portions of said material lying along a generally circular line being gathered together to form a closure for the sack, and portions of said material lying marginal to said circular line being folded inwardly and doubled back against the inside wall of the sack outside of said core, and an annular resilient fastening element running through the fold formed by said doubled back portions and retaining said gathered portions in sack-forming core-enclosing relation.

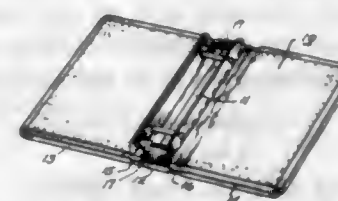
2,716,409

**LOOSE-LEAF BINDER**

Ernest A. Thesleres, Springfield, Pa.

Application June 27, 1952, Serial No. 295,899

6 Claims. (Cl. 129—8)



1. In a binder for loose sheets of material, an elongated rigid back panel, a pair of side covers hingedly secured one to each side of said panel for free swinging movement relative thereto, said panel and covers defining fixed overall dimensions for the binder, guide means carried by said panel and affording a pair of guideways extending respectively across the head and foot of said panel, and an assembly on the inner face of said panel operative to secure loose sheets of material to said panel, said assembly comprising a pair of members extending longitudinally of said panel and freely and independently slidably carried by said panel independently of the covers with their opposite end portions engaged respectively in said guideways for guiding said members in free shifting movement thereof transversely inwardly and outwardly over the inner face of said panel, stop means carried by said panel limit-

ing the shifting movement of said members outwardly over said face of said panel, post mounting parts on said members, and post elements on said parts disposed in spaced relation to said back panel, said post elements being adapted to receive and to retain said loose sheets of material, said mounting parts being adapted to side abut the bound marginal portions respectively of the top and bottom sheets of said loose material, said members being thereby adapted to be shifted transversely of said panel in opposite directions by said loose sheets of material to the limit afforded by said stop means when said sheets are parted, and said outward shifting movement effecting a maximum exposure of the bound margins of said sheets of material, while said post elements are maintained in sheet retaining condition.

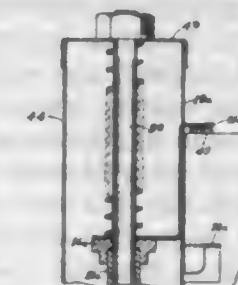
2,716,410

**FILING MECHANISM**

Stephen J. O'Hara, Palo Alto, Calif.

Application June 18, 1952, Serial No. 294,157

4 Claims. (Cl. 129—18)



2. A rack for supporting flexible sheets in vertical edge-wise position and in contact with one another, the sheets having two spaced substantially L-shaped notches in one vertical edge forming upper and lower downwardly projecting edge tongue portions, said rack comprising a fixed frame constructed to rest upon a supporting surface to support said rack, upper and lower vertically spaced sheet supporting members on said frame to be engaged by the tops of said respective notches to support the said sheets, locking means disposed to engage the top edges of said sheets to lock them on said supports by preventing lifting thereof, means yieldingly urging said locking means against the top edges of the sheets, said locking means being moveable upwardly, and manually-operated lever means operable, upon actuation, to forcibly raise said locking means against the force exerted by said yieldingly-urging means a distance greater than the vertical length of said tongue portions so as to allow the removal of individual sheets by consecutive lifting and outward horizontal movements thereof.

2,716,411

**METHODS OF TREATING TOBACCO**

William J. Hale, Midland, Mich., assignor to Verdurin Company, Detroit, Mich., a corporation of Michigan

Application March 1, 1950, Serial No. 147,159

12 Claims. (Cl. 131—9)



1. As an article of manufacture, a cigarette having incorporated active water soluble chlorophyll in both the tobacco and paper wrapper thereof throughout the major portion of its length but being substantially free from such chlorophyll at one end of the cigarette.

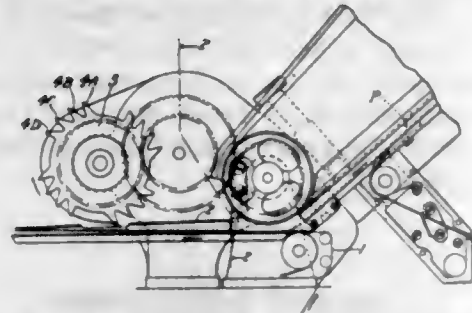


2,716,412

**MANUFACTURE OF CIGARETTES**

Desmond Walter Molins, Felix Frederic Ruan and Norman Walter Jackson, Deptford, London, England, assignors to Molins Machine Company Limited, London, England, a British company  
Application September 17, 1951, Serial No. 246,956  
Claims priority, application Great Britain  
October 2, 1950

2 Claims. (Cl. 131-66)

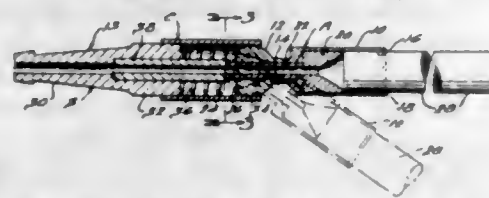


1. Apparatus for increasing the density of tobacco at desired positions along the length of a tobacco stream, comprising means to feed a tobacco stream lengthwise, a rotatable member positioned adjacent said stream, a finger mounted on said member for movement into the stream near each said position, and in the same direction as but faster than the stream, while engaging tobacco so as to displace tobacco lengthwise of the stream, and a second finger mounted on said member for movement into the stream behind the first said finger and in the same direction as and faster than the stream, said second finger being shorter than the first said finger so as to enter less deeply into the stream than the first said finger and thereby displace a smaller quantity of tobacco behind the tobacco displaced by the first said finger and partially fill the space occupied by the last mentioned tobacco.

2,716,413

**CIGARETTE HOLDER**

James R. Johnston, Detroit, Mich.  
Application April 15, 1950, Serial No. 156,061  
9 Claims. (Cl. 131-182)



9. In an articulated cigarette holder, a tubular conduit having a bore therethrough, a tubular mouthpiece detachably connected to the rearward end of said conduit and in communication with the bore thereof, said conduit having an annular ball retaining seat at the forward end partially constricting the bore thereof, a tubular body extending through the constricted end of said bore, said body having a ball-like element within said conduit seated against said seat to complete a ball-and-socket type articulation therewith and also having a cigarette receiving socket projecting forwardly from said conduit, said body having a bore in communication with said cigarette receiving socket and also in communication with the bore of the conduit through said ball-like element, spring means yieldingly urging the ball-like element into seated engagement with the retaining seat, a hollow ejector slidable within said cigarette receiving socket comprising a tubular stem connected at its forward end to the ejector and extending rearwardly through the bore of the body, and an enlargement on the stem engageable with the forward end portion of the mouthpiece to limit rearward movement of said stem upon rearward movement of the body relative to said tubular conduit, said enlargement being also engageable with said body to limit forward movement of said stem with respect to said holding member.

2,716,414

**TOBACCO ASH RECEPTACLE**

Nels H. Nelson, Milford, Iowa  
Application January 14, 1952, Serial No. 266,403  
1 Claim. (Cl. 131-235)

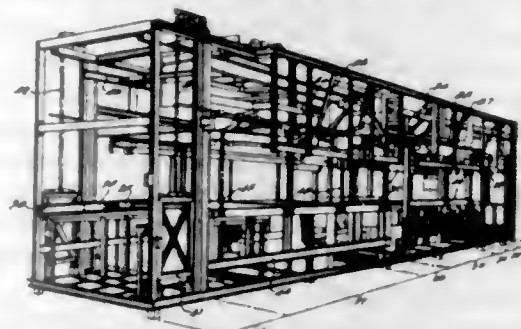


An ash receptacle comprising a base, an inverted frusto-conical receptacle supported on said base having a closed bottom and an open top, a frusto-conical container within the receptacle and having its side wall and bottom in contacting relation with the side and bottom of the receptacle, said container having an open upper end in spaced relation to the upper end of the receptacle, a cover for said receptacle of cylindrical form and provided with a bottom frictionally fitted within the open end of the receptacle, said bottom of said cover having its lower edge in spaced relation to the upper edge of the container, said cover having inwardly and downwardly extending portions defining cigarette rests and a funnel, the base of said funnel having a major portion thereof of cylindrical form and provided at the lower end thereof with a frusto-conical deflector, a post centrally positioned within the container in full surface contact with the bottom of said container, said post being of cylindrical form and of a uniform diameter throughout the length, a conical cap having a base of greater diameter than the base of the post mounted on top of said post, said cap base being of greater diameter than the base of the funnel, said post being provided with means between its ends adapted to maintain the same in spaced relation relative to the inner surface of the container, whereby burning cigarettes positioned in the cigarette rests with their lit ends above the funnel enable the embers thereof to drop into the funnel to engage the cap and be deflected into the space between the post and the container, and whereby the heated air as a result of these embers will flow upwardly and along the side wall of the container, receptacle and cover and be maintained within those parts so as to effect rapid extinguishing of the embers.

2,716,415

**PLATING MACHINE**

John V. Davis, Grosse Pointe Farms, and Chester G. Clark, Detroit, Mich., assignors to The Udyllite Corporation, Detroit, Mich., a corporation of Delaware  
Application December 11, 1953, Serial No. 397,507  
13 Claims. (Cl. 134-76)



1. In a machine having means for supporting workpiece carriers in their lowermost position, a liquid treat-

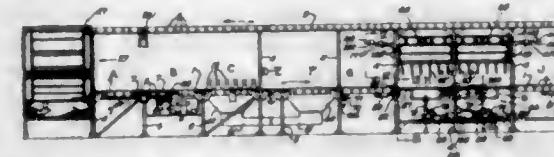
ing station including a frame, a plurality of pairs of opposed track sections carried by said frame, the frame being movable between a lower position and an upper position, means for causing said track sections to be aligned with each other in a position to engage and support a carrier when said frame is in its upper position, means for selectively moving each pair of said track sections when said frame is in its lower position between a retracted position and a carrier-engaging position.

2,716,416

**APPARATUS FOR MANUFACTURING REFLECTOR LAMP BULBS**

Kenneth W. Reynolds, Mayfield Heights, John A. Billson, Warrensville Heights, and Clifford E. Rausch, Warren, Ohio, assignors to General Electric Company, a corporation of New York  
Original application July 16, 1952, Serial No. 299,286.  
Divided and this application October 19, 1954, Serial No. 463,131

6 Claims. (Cl. 134-83)



1. Apparatus for dissolving a portion of an internal metallic reflector coating off the bowl end of a hollow glass article having an open neck end, said apparatus comprising a horizontally extending conveyor track, a plurality of article-holding trays mounted on said conveyor track for movement therealong, index means for intermittently indexing said trays along the conveyor track a tray length at a time through a series of work stations with the trays initially positioned to support the articles in upright neck-up position, means comprising separate sets of depending heads overlying the articles in the trays at two of said stations for successively introducing predetermined amounts of a reflector-dissolving solvent and a neutralizing solution respectively into the said articles and then withdrawing the said solvent and the said neutralizing solution from the articles after a predetermined time lapse, turnover means located at a subsequent station for inverting the trays and the articles carried thereby, and a set of wash nozzles underlying the articles in the trays at a succeeding station for directing a washing medium into the articles.

2,716,417

**TOY UMBRELLA**

Manfred Kirschbaum, Berlin-Lichterfelde, Germany  
Application September 4, 1952, Serial No. 307,890  
10 Claims. (Cl. 135-20)

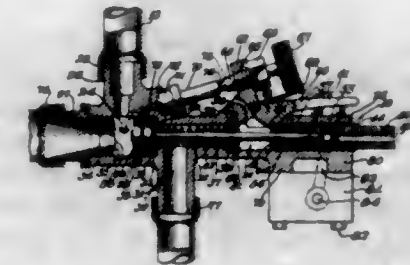


1. A toy umbrella consisting of a handle comprising at least one wound kerchief, a support provided at one end

2,716,418

**THERMOSTATIC DRAIN VALVE**

William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey  
Application December 29, 1950, Serial No. 203,452  
4 Claims. (Cl. 137-61)

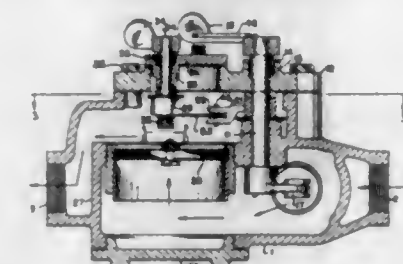


1. A valve for a water system comprising a valve body having a valve chamber and a drain passageway, a valve port positioned within said valve body between said valve chamber and said drain passageway, a valve stem extending through said valve port, a valve member secured to one end of said valve stem which is adapted to open and close said valve port, a sleeve secured to the opposite end of said valve stem, a piston slidably received in said valve body, said sleeve slidably received within said piston, a trigger member pivotally mounted to said valve body for engaging said piston, spring means interposed between said piston and said sleeve which forces said valve member to closed position when said trigger member engages said piston, a leg formed on said trigger member, retaining means formed in said valve body, said leg and said retaining means relatively positioned to permit mounting of a temperature responsive device therebetween for controlling the pivoting of said trigger member, and means for forcing said valve member to open position when said trigger member disengages said piston.

2,716,419

**FIRE CHECK**

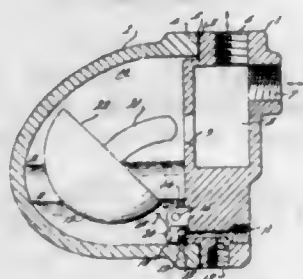
Hartwig Millard Hanson, Baltimore, Md., assignor to The C. M. Kemp Manufacturing Company, Baltimore, Md., a corporation of Maryland  
Application October 15, 1953, Serial No. 386,322  
7 Claims. (Cl. 137-75)



1. In a fire check for combustible fuel pipe lines, the combination of a casing having inlet and outlet passages, a self-closing valve within the casing between said passages, a first shaft within the casing extending to the outside thereof and a lever on the outside end thereof, a lever on said shaft within the casing having one arm connected with the valve, a fuse link lever on said shaft within the casing, a second shaft within the casing extending to the outside thereof, a fuse link within the casing connected to and rotating with said second shaft, and means on the outside end of the second shaft to rotate the same, said fuse link at its swinging end upon relative rotation of said shafts, interlocking with said fuse link lever to hold said valve open.

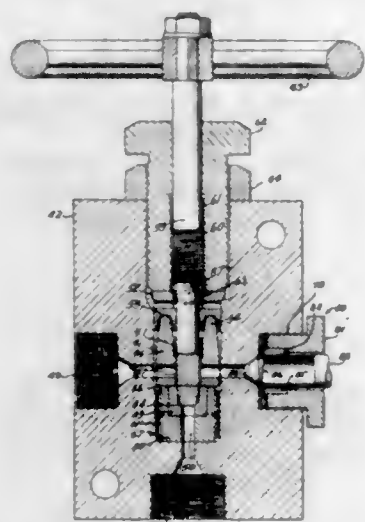


**2,716,420**  
**MOISTURE TRAP**  
 Lorn A. Green, Miami, Fla.  
 Application June 17, 1954, Serial No. 437,546  
 3 Claims. (Cl. 137-193)



1. A moisture trap having a base member and a removable float-enclosing cover sealed thereto, a float chamber located in said cover, a second chamber located in said base member in side-by-side relationship with said float chamber and having at least one inlet opening therein, a passageway connecting said chambers, an over-center float located in said float chamber and having attached thereto an upstanding, heavy and curved finger, said float being hingedly attached to an arm for up and down movement to an over-center position permitting a substantial portion of said finger to project through said passageway and downwardly into said second chamber, a discharge valve seat and a connecting discharge port located in said base member adjacent the point of attachment of said float arm, and a valve member connected to the said float arm so as to be lifted off said valve seat by the upward movement of said float and to be seated thereon by downward movement of said float, said finger and said connecting passageway being proportioned so as to throttle gas flow when said float is in the over-center position with the said finger opposed to said gas flow.

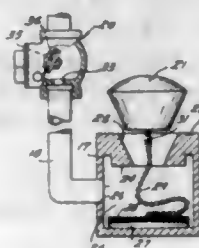
**2,716,421**  
**VALVE SEAT RETAINING AND REMOVAL MEANS**  
 Joseph V. Bertrand, Brooklyn, N. Y., assignor to Hydro-press, Incorporated, New York, N. Y., a corporation of Delaware  
 Application December 1, 1950, Serial No. 198,512  
 5 Claims. (Cl. 137-327)



4. In a high pressure valve, the combination including a valve body having a bore, a stem receiving aperture, an inlet passage and an outlet passage, a valve seat means insertable into said bore, said means having a fluid passage connecting with one of the aforementioned passages, a sealing skirt surrounding at least a portion of said valve seat means, said skirt comprising a thin wall member with the end portions bowed outwardly with respect to the longitudinal axis of the skirt, said end portions having a greater diameter than said bore before insertion therein, said skirt wall being capable of being stressed so that the skirt wall portion of lesser diameter will be stressed when in assembled relationship providing

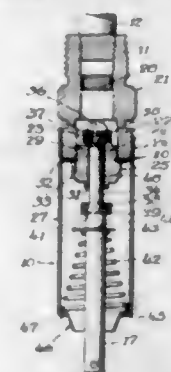
a seal between said body and valve seat means, and a valve stem insertable in said body cooperable with said valve seat means for controlling fluid flow through said valve body.

**2,716,422**  
**FLOAT VALVE**  
 Robert A. Whitlock, Jr., Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois  
 Application January 23, 1953, Serial No. 332,864  
 17 Claims. (Cl. 137-391)



1. A float valve of the type submerged in a liquid container comprising a casing having an internal chamber, a first passage leading downwardly into said chamber and a second passage arranged for connection to a conduit, an upper valve seat around said first passage, a lower valve seat within the chamber disposed around said first passage, a lower valve member in said chamber shaped to seat against the lower valve seat to close said first passage against egress of liquid, an upper valve means disposed outside the casing shaped to seat against the upper seat to close said first passage against the ingress of liquid, a float secured to said upper valve member for moving the upper valve member toward and away from the upper seat with changes in liquid level surrounding the casing, and a connection between the float and the lower valve member for moving the lower valve member to closed position when the float reaches a position defined by an upper liquid level.

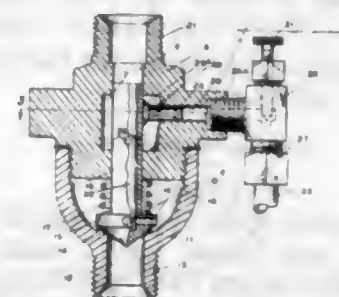
**2,716,423**  
**TROUGH VALVE**  
 Jacob T. Landgraf, Freeport, Ill., assignor to H. D. Hudson Manufacturing Company, Chicago, Ill., a corporation of Minnesota  
 Application August 10, 1950, Serial No. 178,617  
 3 Claims. (Cl. 137-408)



1. A double-acting valve assembly for a watering trough supported in elevated position at one end and having its other end free to move vertically, comprising a valve head for connecting said valve assembly at its inlet end to a water supply and with its outlet end disposed adjacent to the freely movable end of the trough, a sleeve threadedly connected at its upper end to the head, a longitudinally movable valve stem within the sleeve, a stationary valve seating member removably mounted in the head and sleeve and provided with a bore through which the stem projects and a valve seat at each end of the bore, and a pair of sealing members fixedly mounted upon the valve stem in spaced relation whereby one or the other sealing mem-

bers may be moved into sealing and seating engagement with its adjacent valve seat upon longitudinal movement of the stem, means for spring-biasing the valve stem toward elevated position and adjustable by rotation of the encompassing threaded sleeve, and means for connecting the valve stem to the free end of the trough to support the latter and whereby the weight of the trough and its contents assisted by the pressure of the entering water tends to depress the valve stem against the action of the spring and when such weight and pressure reaches a predetermined amount, one of the sealing members engages its seat and stops the flow of water through the valve, and when the weight is decreased below such predetermined amount, said last-mentioned sealing member is disengaged from its seat and water is permitted to flow from the supply to the trough until the predetermined amount is again reached when the last-mentioned sealing member again engages its seat, and when the trough is disconnected or removed from the stem, the spring-biasing means automatically elevates the stem to cause the other of said sealing members to engage its valve seat and stop the flow of water through the valve member.

**2,716,424**  
**HOT AND COLD WATER MIXING VALVES**  
 James B. Watts, Clatskanie, Oreg., assignor to Watts Manufacturing Company, a corporation of Oregon  
 Application December 26, 1951, Serial No. 263,361  
 5 Claims. (Cl. 137-512)

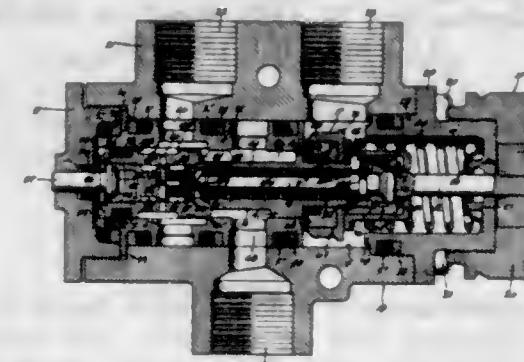


1. A valve for supplying heated water to the water supply of a tank, comprising a body portion formed with a chamber and a central bearing opening, the bearing opening communicating with the upper and lower ends of the chamber, a bowl secured to the bottom of the body portion, said bowl having a valve seat at its lower end, a valve head normally seated on the valve seat, a hollow stem on the valve head, said stem extending through the chamber and slidably mounted in the bearing opening, said stem having ports in communication with the chamber, ports formed in the valve head to provide communication between the bowl and the hollow stem, a spring for normally seating the valve head on its seat, means for supplying cold water to the bowl below the valve head, means communicating with the chamber for introducing hot water thereto, said means including a hollow slidable valve formed with a port normally in communication with the chamber, the hollow valve being held in open position by the pressure of cold water passing through the hollow stem when the valve head is raised from its seat to supply water to a tank and the pressure of hot water in the hollow valve, and closed when the pressure of hot water in the hollow valve is less than the pressure of the cold water, when the valve head is seated.

**2,716,425**  
**PILOT-OPERATED VALVE**  
 Gordon W. Yarbber, Sherman Oaks, Calif., assignor to Hydro-Aire, Inc., Burbank, Calif., a corporation of California  
 Application September 22, 1953, Serial No. 381,635  
 4 Claims. (Cl. 137-620)

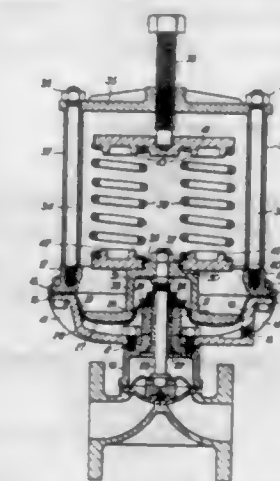
1. In a servo valve mechanism, a valve casing having a main passage therein an inlet and outlet ports com-

municating with said main passage, a slide element mounted in said passage and movable longitudinally thereof between first and second positions, said slide being formed with a groove disposed to connect said inlet and outlet ports when said slide is in one of said positions, a chamber formed in said slide element, a first passage in said slide element connecting said chamber and said inlet port, a second passage in said slide element connecting said chamber with one end of said main passage in said casing, a ball mounted in said chamber, and remote control means to alternately dispose said ball in a first position on the end of said first passage and blocking the flow



of fluid through said chamber, and in a second position permitting the flow of fluid therethrough and to said one end of said main passage, said ball blocking an exhaust port in said chamber when in said second position; characterized in that said remote control means includes a rod extending longitudinally of said slide element and through said exhaust port to engage said ball, spring means to bias said rod to a position effecting location of said ball in said first position, and solenoid means connected to said rod to actuate the same out of engagement with said ball, the connection between said rod and solenoid means being of the lost motion type.

**2,716,426**  
**MEANS FOR ACTUATING VALVES OR OTHER DEVICES**  
 Richard Hector Price, Cwmbran, Newport, England, assignor to Saunders Valve Company Limited, Cwmbran, Newport, England, a British company  
 Application July 31, 1950, Serial No. 176,817  
 4 Claims. (Cl. 137-784)



1. Fluid pressure operated means for actuating a valve comprising a body, a bonnet adapted to be secured to the body, a spindle projecting through said bonnet and adapted to be connected to the valve, an annular dish mounted directly on and secured to said bonnet with its open side facing away from said body, guide means for said spindle extending through said bonnet and into said dish, an annular diaphragm clamped at its outer periphery to the peripheral portion of said dish, common means for clamping and sealingly securing the inner periphery of said annular diaphragm to the guide means to define a pressure chamber and for fix-

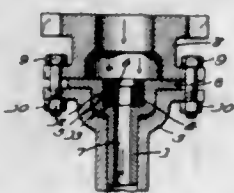


edly securing said guide means to said bonnet, means for introducing pressure into said chamber, an actuating plate secured to said spindle clear of said guide means and having an annular portion bearing on the free part of said annular diaphragm for movement thereby, and means for urging said spindle in a direction opposite to the urging of said diaphragm.

2,716,427

**FLOW CONTROL WASHER**

Francis J. Cantalupo, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois  
Application May 28, 1951, Serial No. 228,584  
2 Claims. (Cl. 138-45)

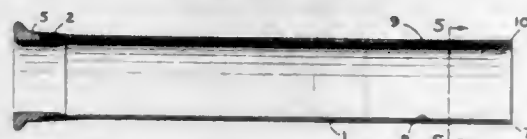


1. The combination in a flow control means in a body having a chamber with an upstream and downstream portion, a distortable rubber-like annular member snugly receivable within the said body chamber for its full length and having a central flow aperture therethrough, a relatively rigid annular reinforcing member of shorter length than the said rubber-like annular member and of continuous L-section with an inwardly projecting reduced annular longitudinal portion snugly receivable within the central flow aperture of said distortable member to closely contact the wall portion thereof for a predetermined length thereof and support the latter portion against deformation inwardly within the flow aperture, the remainder of the length of the said distortable member being annularly unsupported except for the outer periphery thereof within the body chamber and being free to compress and deform circumferentially inwardly thereby to reduce the diameter of the central flow aperture for a distance substantially measured longitudinally by the said inner unsupported portion of the said distortable member, the said unsupported end portion of the said distortable member extending substantially beyond the upstream end of the reduced annular portion of the said rigid reinforcing member and deforming annularly inwardly upon the application predeterminedly of fluid pressure against a transverse exposed end surface of the distortable member adjacent the upstream end of the said body chamber.

2,716,428

**LEAK STOPPER FOR CONDENSER TUBES**

Samuel Pennella, Pompton Lakes, N. J.  
Application March 3, 1953, Serial No. 340,122  
1 Claim. (Cl. 138-97)



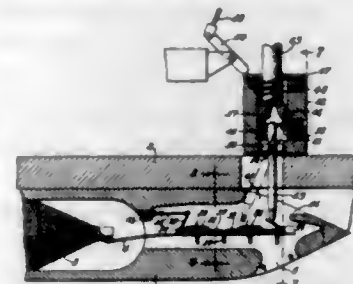
Means for stopping leaks in a perforated tube of a surface condenser comprising a tubular insert, said insert tapering to a knife edge at its outlet end and flared slightly on a uniformly increasing diameter from a predetermined point inwardly of its inlet to its inlet end, an inlet head member including a sleeve portion inserted into the flared inlet end portion of the tubular insert and having a reduced outside diameter to receive the flared inlet end portion of the insert whereby the outer surface of the insert will lie flush with the outer surface of the inlet head member, said inlet head member having an enlarged inlet end for engagement with a condenser tube sheet, said tubular insert has a por-

tion of its outer surface cut away for a predetermined distance inwardly of its outer end, and a sleeve of material which will swell when wetted seated in said cut away portion and having its outer surface flush with the outer surface of the tubular insert.

2,716,429

**DEVICE FOR APPLYING TENSION TO YARN**

Clair H. Ginger, Greensboro, N. C.  
Application December 28, 1950, Serial No. 203,053  
9 Claims. (Cl. 139-205)



9. In a device for applying tension to yarn being fed during the operation of a machine having a shuttle with a replaceable bobbin holding a yarn supply therein and a bobbin depletion detector adapted to stop operation of the machine upon depletion of the yarn supply, a fixed element and a movable element to engage the yarn between them, means to normally urge the elements into yarn-engaging position, a plunger to strike the movable element and move it from its yarn engaging position responsive to actuation of the bobbin depletion detector, and means actuated by movement of the shuttle to permit retraction of the plunger.

2,716,430

**DISK JOINTER PLANER**

Francis A. Pall, San Diego, Calif., assignor of one-half to Isabelle Marion Pall, San Diego, Calif.  
Application November 3, 1954, Serial No. 466,526  
1 Claim. (Cl. 144-218)



As a new article of manufacture, an apparatus for surfacing non metallic materials, comprising the combination of a disk shaped cutter head having a toothed periphery and transverse cutting edges, with a support-guard disk of somewhat larger diameter and heavier gage than the cutter head, said cutter head and support-guard disk being in face to face and in partially spaced relation and separated at their peripheries by a somewhat lesser diameter annular spacer, means for drawing the center of the cutter head against the support-guard disk, thus forming a concave outer side surface on said cutter head, said combination to be mounted and operated on a rotating arbor.

2,716,431

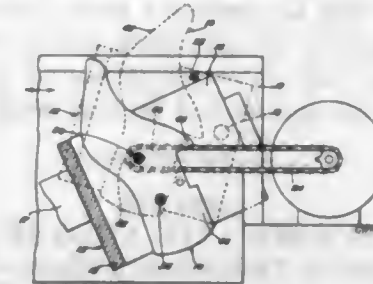
**METHOD OF MAKING SHOE LASTS**

Henry G. Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio, a corporation of Ohio

Application April 9, 1953, Serial No. 347,723  
1 Claim. (Cl. 144-309)

A succession of steps in the hereindescribed method of making a shoe last comprising first turning a one-piece

shoe last form from a single piece of stock, second, drilling a plurality of hinge pin receiving holes in the resultant shoe last form, third, making a single hinge link receiving rout in that one-piece shoe last form by entering a suitable router into the form through the upper end thereof at a point between the cone and the jack mount



of the last form, fourth, dividing the routed and one-piece drilled shoe last form into a forepart and a heel part by passing a saw cut through said form in a position such that a portion of the rout and at least one of the pin holes will be contained in each of the last parts formed by the cut, and finally providing the said parts with a last hinge.

2,716,432

**DEVICE FOR CARRYING GOLF CLUBS**

Dan W. Duffy, Cleveland, Ohio  
Application September 24, 1954, Serial No. 458,072  
11 Claims. (Cl. 150-1.5)

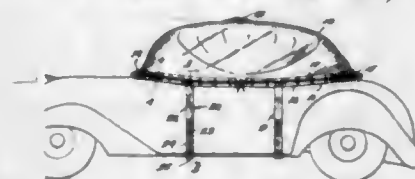


2. A device for carrying golf clubs comprising a rod having an upper loop through which the shafts of golf clubs may be inserted, a lower portion provided with an arm arranged at an angle to the rod and said arm having a prong extending therefrom which is adapted to be pressed into the ground, and that portion of the rod above said arm being of substantially the same length as the shortest golf club that is to be carried so that when the prong of said arm is pressed into the ground and the shafts of the golf clubs are spaced apart, said rod and the shafts of the golf clubs will form braces for each other, and means for carrying said device with the golf clubs in place including a strap having one portion secured to said rod adjacent said loop, and means associated with said rod and another portion of said strap for maintaining the shafts of said clubs and said rod in compact relation to each other while the device is being carried.

2,716,433

**WEATHER PROTECTIVE COVERING FOR AUTOMOBILE BODIES**

James W. Rawlings, Norfolk, Va.  
Application May 8, 1953, Serial No. 353,816  
1 Claim. (Cl. 150-52)



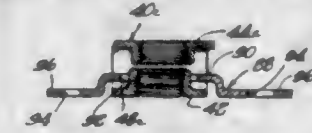
A protective covering for the turret portion of turret type automobiles including front, side and rear windows;

a rectangular sheet of flexible waterproof material for disposition over the turret portion of an automobile, a plurality of spaced eyes affixed to the outer side of the perimeter of said sheet, a cord disposed through said eyes and having its end portions exposed to permit drawing tightly of the edge portions of the sheet against the lower portion of the turret portion of an automobile, said sheet being provided with reinforcing tape at portions that will engage the front and rear portions of the turret type automobile body, a pair of stretchable straps extending from each longer side of said sheet, and a hook embedded in the free end portion of each of said straps.

2,716,434

**LOCK NUT AND RETAINER**

Edmond C. Crowther, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application June 6, 1952, Serial No. 292,176  
2 Claims. (Cl. 151-41.76)

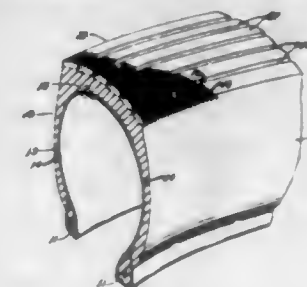


1. A lock nut made from a strip of sheet material including a pair of superposed plate members having laterally offset annular extrusions extending toward each other from said plate members, the inner extremities of said extrusions being spaced slightly from each other, said extrusions having thread convolutions of substantially peripheral extent therein, resilient hinge means connecting adjacent marginal edges of said plate members whereby said plate members may be laterally displaced relative to each other to align said threaded extrusions for insertion of a complementary threaded fastener element, said superposed plate members being disposed in predetermined axial spaced relation to insure continuity of thread helixes in said extrusions, integral tab means extending from one of said plate members having a portion thereof overlying an outwardly facing surface of the other plate member for maintaining the predetermined maximum axial spaced relationship while allowing lateral relative movement between said plate members, and an apertured anchoring plate member telescopically associated with said extrusions, the space between the free opposed extremities of said extrusions being sufficiently less than the thickness of the anchoring plate to prevent unauthorized separation of said plate from the other sheet metal nut structure.

2,716,435

**TIRE TREAD**

Frank Herzegh, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York  
Application January 19, 1951, Serial No. 206,880  
2 Claims. (Cl. 152-209)

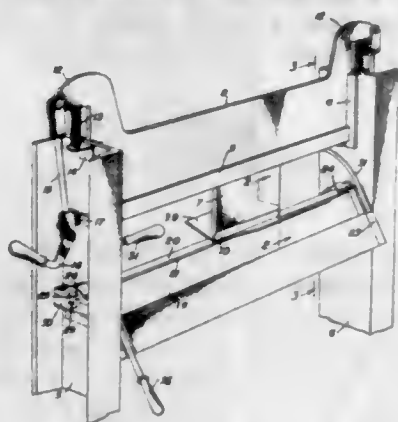


1. A tire comprising a tread of resilient rubber material including a plurality of circumferentially extending axially spaced traction elements, said elements having in their tread face a multiplicity of thin leaves extending transversely of the tread and entirely across said traction elements with incisions between the leaves cut across the



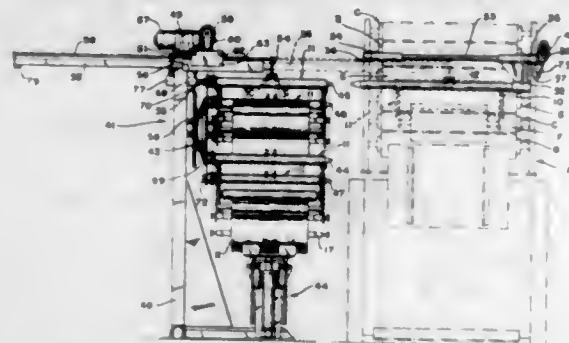
tread substantially without the removal of tread material at substantially uniform fine spacing of about 16 incisions per inch measured circumferentially of the tread providing a high degree of skid resistance on wet pavements by virtue of the multiplicity of flexible transverse leaf edges at the incisions, a high resistance to wear by virtue of the soft yieldability of the tread afforded by the fine spacing of the incisions and providing quietness of operation as a result of the low audibility of the sound impulses produced by the multiplicity of leaves in the tread at all speeds of operation.

**2,716,436**  
**SHEET METAL BRAKE**  
Percy L. Cady, Jr., Darien Center, N. Y.  
Application August 31, 1951, Serial No. 244,516  
3 Claims. (Cl. 153—15)



1. A sheet metal bending apparatus comprising a pair of vertically swingable forming plates positioned vertically in side by side relation to each other and on the upper edge of which the work is adapted for placing in a horizontal position bridging the plates, pivot means at the upper edge of each plate and supporting the plates for independent outward swinging movement of each plate to tilt the upper edges of the plates under the work, a hold down ram above the work and having a narrow transverse work-engaging portion centered longitudinally at the junction of the upper edges of the pair of forming plates and a handle for each plate and adapted to independently swing the plates upwardly at opposite sides of the ram, said handles for both plates being positioned at the outer side of one of the plates.

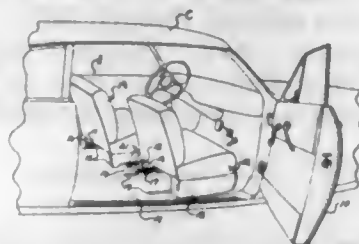
**2,716,437**  
**TIRE BUILDING APPARATUS**  
George F. Wickle, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey  
Application February 13, 1953, Serial No. 336,693  
17 Claims. (Cl. 154—10)



1. In combination, a servicing machine having a stock roll, a liner fabric supply roll, and means for rotating said stock roll to wind a length of stock fabric and liner fabric thereon, a freely rotatable roll for carrying a wound-up length of re-coat strip, means for supporting said re-coat strip carrying roll in parallel relationship to said liner fabric supply roll, a freely rotatable drive roll supported between and in parallel relationship to said

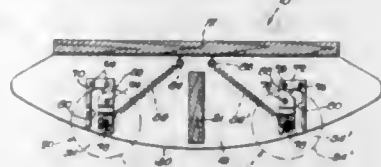
re-coat strip carrying roll and said liner fabric supply roll, means for urging said re-coat strip carrying roll towards said liner fabric supply roll so that said drive roll is pressed therebetween to provide a friction drive between said re-coat carrying roll and said liner fabric supply roll whereby the re-coat strip carried by said re-coat carrying roll is unwound from the re-coat carrying roll and applied to said stock roll at the same linear speed that the liner fabric is unwound from said liner fabric supply roll and wound on said stock roll.

**2,716,438**  
**RECIPROCABLE AUTO SEAT**  
Valle A. Furst, St. Paul, Minn., assignor of one-half to M. David McCloud, St. Paul, Minn.  
Application March 26, 1952, Serial No. 278,541  
5 Claims. (Cl. 155—15)



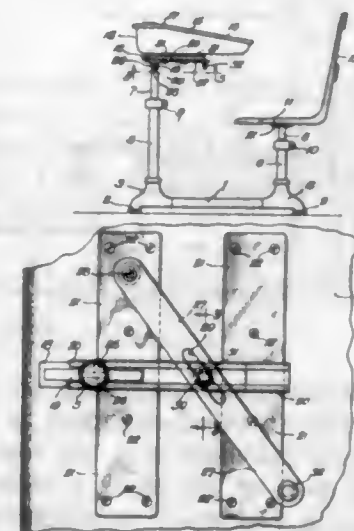
1. A seating arrangement for an automobile having a doorway at each side and a floor therebetween, said arrangement comprising a pair of seats, each mounted between said doors in side by side relation for guided reciprocation on said floor lengthwise in the longitudinal direction of the automobile, and linkage mechanism secured to the floor at a position intermediate said pair of seats, said linkage mechanism having interconnecting means pivotally mounted thereon, portions of which means extend rigidly and oppositely for respective engagement with the seats at a lower position thereon whereby movement of one of said pair of seats in a longitudinal direction will differentially cause a corresponding reciprocation of the other seat in the opposite direction.

**2,716,439**  
**CONVERTIBLE ROCKER-WHEELER TOY**  
Henry Carl Feist, East Hampton, Conn., assignor to The N. N. Hill Brass Company, East Hampton, Conn., a corporation of Connecticut  
Application September 6, 1952, Serial No. 308,190  
3 Claims. (Cl. 155—73)



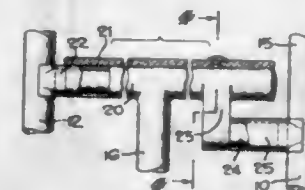
1. A convertible rocker-wheeler toy, including in combination a pair of spaced rockers having curved rocking surfaces at their bottoms, a back member joining the rockers adjacent their tops; front and rear wheel-assemblies, each including an axle having wheels thereon, the axle being shorter than the width between said rockers; front and rear pairs of opposite brackets mounted thereon between the rockers, a plurality of paired slots in the brackets adapted to receive the ends of the axles of the wheel assemblies and having open ends and closed ends at different heights, one pair of slots being adapted to hold the axle in a position adjacent their closed ends such that the wheels protrude beneath the rockers, and another pair of slots being adapted to hold the axle in a position adjacent their closed ends such that the wheels are completely within the confines of the rockers, said axles with their assemblies being removable from the toy through the open ends of the slots; and means for releasably holding the axles of the wheel-assemblies adjacent the closed ends of a selected pair of slots.

**2,716,440**  
**COMBINED DESK AND SEAT UNIT**  
Rudolph J. Silverman, Highland Park, Ill.  
Application August 11, 1949, Serial No. 109,741  
1 Claim. (Cl. 155—124)



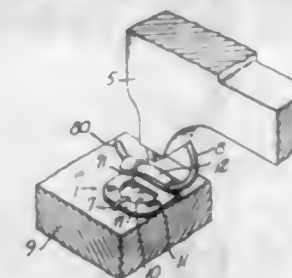
In a combined desk and seat unit of the type comprising a pair of spaced upright supports each having vertical adjustment independently of the other support, a supporting base extending between and joining the lower ends of said supports, a seat mounted on the upper end of one support for vertical adjustment with said support and fixed against adjustment horizontally toward and away from said other support, means for supporting a desk upon said other support comprising, in combination, a single guide bar rigidly attached to and seating directly on the upper end of said other support for vertical adjustment therewith and projecting toward said seat, a channel member telescopically engaged with said bar for rectilinear movement therealong toward and from said seat, a desk having the bottom thereof rigidly attached to the top of said channel member for movement therewith, means for moving said desk to the limits of its horizontal adjustment toward and away from said seat and to a plurality of intermediate positions, said means comprising an arm having fixed pivotal connection with said desk and operatively coacting with a pin carried by said guide bar for moving said desk toward and from said seat by swinging movement of said arm.

**2,716,441**  
**COLLAPSIBLE CHAIR**  
Gerald M. Jennings, Los Angeles, Calif.  
Application January 16, 1950, Serial No. 138,844  
3 Claims. (Cl. 155—140)



1. A collapsible chair comprising a pair of side frames each having a front leg and a rear leg, at least a portion of one leg of each side frame being angularly related to the other portion of said leg of that frame, X-brace members pivotally connected to the side frames adjacent the lower ends thereof and pivotally connected to each other, seat bars at the upper ends of the X-brace members, and slides rotatably mounted upon each seat bar and slidably engaging the legs of the side frames, the slides on each seat bar being rotatable about spaced but parallel axes.

**2,716,442**  
**FLAT-SPRING BASE ASSEMBLY AND CLIP**  
Eric W. Larson, Lewis E. Hodes and William J. Moore, Seattle, Wash., assignors to L H M Company, Seattle, Wash.  
Application February 16, 1953, Serial No. 337,076  
9 Claims. (Cl. 155—179)



7. The combination of a wooden supporting frame for furniture including two spaced-apart marginal boards, and a plurality of flat springs stretched from one such marginal board to the other, and having a transversely directed end portion at each end, anchor clips each comprising a strip of sheet metal or the like including a base portion and bent upwardly and then back over its base portion at one end to define a shallow transverse hook of a width corresponding to the length of the spring's end portion and of a depth approximating the thickness of such end portion, the base portion of each clip having an aperture and such aperture being of maximum width in the vicinity of the ends of the hooks, there being a plurality of such clips secured to the marginal boards of the frame at locations corresponding to, and having their hooks engaged with, the respective springs' end portions, and two upholsterer's double-pointed staples each spanning one of the opposite ends of each hook and driven into the marginal boards, with one point of each entering the aperture.

**2,716,443**  
**SEAT BACK SUPPORT**  
Myron P. Laughlin, St. Petersburg, Fla.  
Application May 25, 1954, Serial No. 432,189  
2 Claims. (Cl. 155—182)



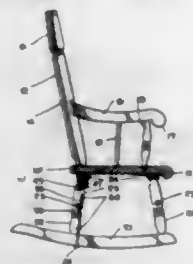
2. An automobile seat back support including a top cross frame member adapted to lie upon the automobile seat cushion and to space therefrom two side members which support a fabric therebetween, said side members extending substantially their full length parallel to but removed from the surface of the seat cushion and turning backwardly and upwardly at their lower ends to terminate in a lower cross member bearing upwardly upon the lower edge of the aforesaid cushion so that the said frame is held locked to the aforesaid cushion by driver pressure when in use and by released upward pressure of the automobile seat bottom cushion when unoccupied.

**2,716,444**  
**MUSICAL ROCKING CHAIR**  
Roger R. Smith, Gardner, Mass.  
Application March 26, 1953, Serial No. 344,704  
4 Claims. (Cl. 155—188)

4. In a knockdown rocking chair, comprising a chair frame and a rocker unit detachable with respect to said



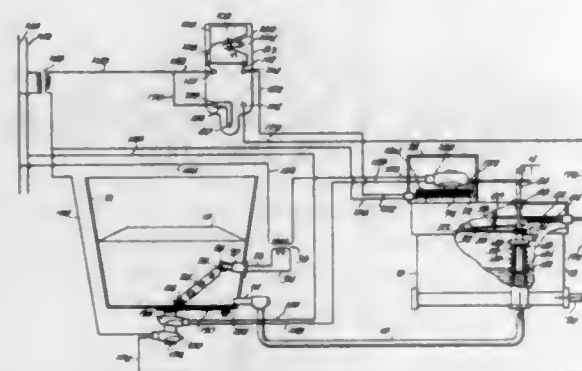
frame, said unit comprising a pair of rockers, each rocker having a pair of spaced leg members, one leg member being a front leg member and the other a rear leg member, means joining and spacing the front and rear leg members of both rockers in forming said unit, the spacing of the rockers being such as to maintain the rocker unit within the width of the seat of said seat frame, upper ends of the front and rear leg members being joined



solely by transverse cleats, each of said cleats having spaced apertures for reception of fastener devices in detachable mounting of the leg and rocker unit in connection with the chair frame, the length of said cleats being such as to fit within side boundaries of the chair frame in compact assemblage of the rocker unit upon the chair frame in shipment of the knockdown assemblage, and a musical movement mounted on and constituting a part of said rocker unit.

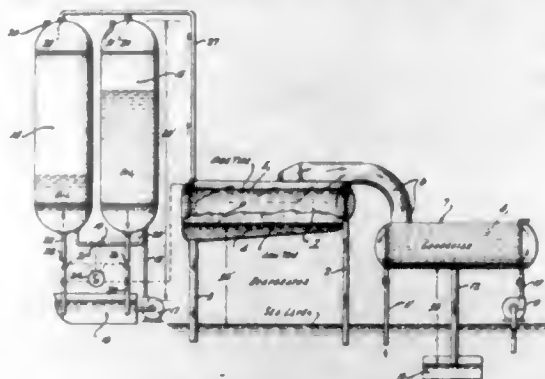
**2,716,445**  
**IGNITION AND FUEL SUPPLY CONTROL**  
**APPARATUS FOR FLUID FUEL POT-TYPE**  
**BURNERS**

Richard F. Van Tubergen, Portland, Oreg.  
Application April 2, 1951, Serial No. 218,721  
11 Claims. (Cl. 158—28)



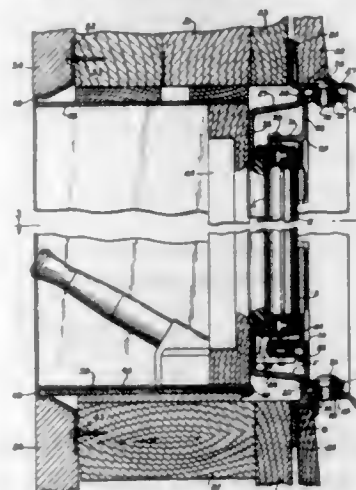
1. Ignition and fuel supply control apparatus for fluid fuel pot-type burners comprising in combination a burner pot, valve means for supplying fuel to said burner pot, room temperature thermostat switch means, an electrically operable heat motor, an electric circuit including the heat motor and thermostat switch means, a first electric switch mechanically connected to the heat motor, an electric circuit including said first electric switch, an electrically operable ignition element placed in operative relations to the burner pot and in the electric circuit with the first switch, temperature responsive means mounted in heat exchange relation with the outer side of the burner pot and actuatable at a pre-determined temperature level of the burner pot, a second switch mechanically connected to the temperature responsive means and in the electric circuit with the ignition element, the heat motor being mechanically associated with the valve means and first switch to open the valve means and close the first switch when said heat motor is energized, thereby energizing the ignition element, and the temperature responsive means being mechanically associated with the second switch to open the second switch and to de-energize the ignition element when the burner pot has reached said pre-determined temperature level.

**2,716,446**  
**WATER EVAPORATOR**  
Willard J. Ross, Harbor City, Calif.  
Application February 8, 1952, Serial No. 270,567  
2 Claims. (Cl. 159—1)



1. A distilling machine comprising an inclosed basin, a pair of vertically arranged cylinders, a pipe extending from each of said cylinders into the top of said basin, a check valve in each of the pipes, a relief valve in each of the cylinders, a reservoir, an outlet pipe extending from each of said cylinders into the reservoir, valve means in each of said outlet pipes, a pump, a branch pipe and further valve means in each branch connecting said pump to both of said cylinders to force fluid alternately into said cylinders, a vacuum control unit operable each time the pressure in the basin reaches a predetermined amount, a pressure pipe extending from the vacuum control unit to said basin to transmit the pressure in the basin to said control unit, and means operatively connecting the vacuum control unit to each of said valve means whereby one of the first mentioned valve means controlling flow from one of the cylinders into the reservoir and one of the further valve means controlling flow into the other of the cylinders via the pump are simultaneously opened while the remaining valve means are simultaneously closed, and successively alternating the remaining with the previously recited valve means at a predetermined pressure in said basin.

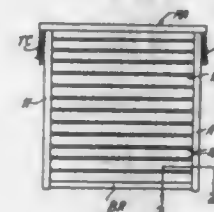
**2,716,447**  
**CASEMENT UNIT**  
Paul L. Adams, Wayne A. Norman, and Charles K. Sitterly, Dubuque, Iowa, assignors to Carr, Adams & Collier Company, Dubuque, Iowa, a corporation of Iowa  
Application September 24, 1949, Serial No. 117,666  
10 Claims. (Cl. 160—40)



1. In a casement unit, a window frame, a main sash frame mounted in the window frame to swing about a vertical axis adjacent one stile thereof, inner and outer sashes carried by the main sash frame and each mounted to swing independently or together about a vertical axis adjacent the free stile of the main sash frame, each sash comprising a surround, a thermal insulating gasket extended within the surround, and a pane of glass or the

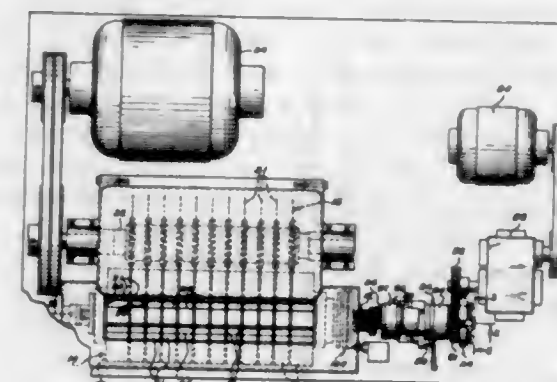
like bedded within the gasket and protected thereby from contact with the surround of the associated sash, the gasket within one surround being extended exteriorly thereof toward the adjacent window frame for engagement therewith and constituting substantially the sole point of contact therebetween.

**2,716,448**  
**SLAT MOUNTING FOR VENETIAN BLINDS**  
Delbert F. Landess, Berkeley, Mo.  
Application June 5, 1952, Serial No. 291,904  
11 Claims. (Cl. 160—173)



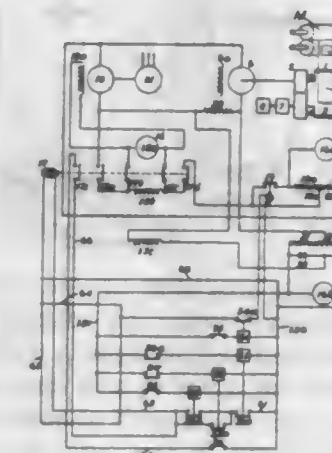
1. In a Venetian blind assembly having a plurality of vertically spaced slat elements, the combination of a slat element, a clip element located to extend endwise beyond the slat element, a spring prong carried by one of said elements, the other element having a metal margin adapted to be overridden by the spring prong to keep the elements in detachably assembled relation, and an actuating projection on one of said elements, said projection being rockably movable about a transverse fulcrum located at one side of said spring prong and coacting margin, said projection being adapted to facilitate release of the prong from the coacting metal margin, each of the clip elements being formed to provide for connection to adjacent slat-tilting tapes.

**2,716,449**  
**APPARATUS FOR CUTTING ARTICLES**  
Einer W. Larsen, Elmhurst, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York  
Application January 4, 1951, Serial No. 204,357  
3 Claims. (Cl. 164—61)



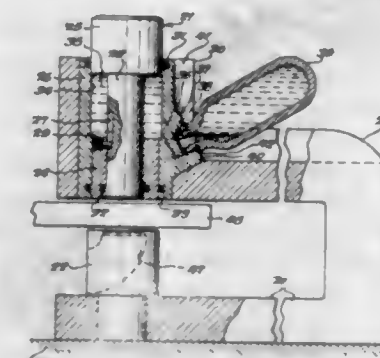
1. A cutting apparatus, which comprises a shaft, a plurality of S-shaped members fixed rigidly to the shaft, a pair of jaws having slots therein fixed to opposite ends of said members, a plurality of S-shaped members mounted rotatably on the shaft, a pair of jaws having slots therein fixed to the ends of the rotatably mounted members, a torsion spring fixed to the shaft and to the movably mounted S-shaped members urging the jaws thereon toward the jaws on the fixed S-shaped members, a plurality of cutters mounted at the side of the shaft, means for rotating the shaft to move the jaws past the cutters, the slots providing clearance for the cutters, toggle-joint linkage means connecting said fixed members to said rotatably mounted members for opening the jaws on the members, and cam means for actuating the toggle-joint linkage means every half rotation of the shaft.

**2,716,450**  
**MACHINES FOR ACTING AT SPACED POINTS ON**  
**STRIP OR LIKE MATERIAL**  
George Galloway Nicholson, Sheffield, England, assignor to Davy and United Engineering Company Limited, Sheffield, England  
Application July 17, 1951, Serial No. 237,136  
Claims priority, application Great Britain July 25, 1950  
10 Claims. (Cl. 164—68)



1. A machine for acting at spaced points on continuously running strip material, the machine comprising, in combination, a tool mounted to act periodically on the strip, means for driving the tool through a series of discrete cyclic movements, means continuously responsive during each such movement to the speed of the strip for controlling the duration of the movement, and separate means continuously responsive to the speed of the strip during intervals between consecutive cycles for controlling the time of the interval between consecutive cycles.

**2,716,451**  
**OIL SPRING STRIPPING UNIT**  
Paul H. Taylor, North Tonawanda, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York  
Application September 19, 1950, Serial No. 185,605  
12 Claims. (Cl. 164—110)



1. In a punching apparatus, a cylinder having a bore which is larger at one end than at the other, a stripping sleeve reciprocable in the end of the cylinder of reduced bore, a reciprocable punch having a piston-like head guided in the end of said cylinder of larger bore and a shank portion which is guided in said stripping sleeve, the face of said head which is opposed to said sleeve being of greater area than the opposed end face of said sleeve, said cylinder, punch and stripping sleeve forming a closed chamber filled with a body of liquid, and a lost-motion connection between said shank portion and said stripping sleeve, the movement of said punch during a working stroke being transmitted by said liquid to said sleeve to first extend the latter into engagement with the workpiece and thereafter compressing said body of liquid so that upon completion of said working stroke said body of liquid may expand to retract said punch and said lost-motion connection serving to retract said sleeve after partial retraction of said punch.



2,716,452

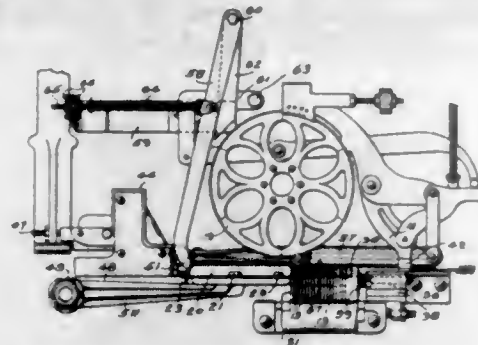
## TYPOGRAPHIC MACHINES

Leo A. Schmitt, Richmond, Va.

Application March 18, 1952, Serial No. 277,309

5 Claims. (Cl. 164—112)

(Granted under Title 35, U. S. Code (1952), sec. 266)



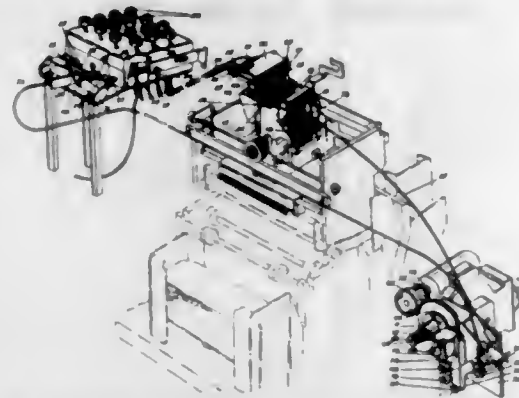
2. In a typographic machine of the type that has a horizontally reciprocative unit rack adapted for operative travel in a direction from left to right, a unit stop engaging lug projecting therefrom, a set of unit rack stops selectively movable to positions in the path of said lug, and a rack motion limiting abutment in the path of said lug to the right of said set of stops: the improvement that comprises a second lug on the rack to the left of said first lug and having a portion thereof moving in a path other than that in which the first lug moves when the rack is moved, and means for moving said motion limiting abutment out of the path of said first lug and into a position to be engaged only by said portion of said second lug.

2,716,453

## KEYBOARD OPERATED MECHANICAL MACHINES FOR PERFORATING CARDS

William Edward Johnson, Streatham, London, and Donald Edward Boxall, Mitcham, England, assignors to Powers-Samas Accounting Machines Limited, London, England, a British company

Application February 12, 1953, Serial No. 336,624  
Claims priority, application Great Britain March 25, 1952  
10 Claims. (Cl. 164—112)



1. In a machine for perforating record cards and including a keyboard having spring-restored keys, columns of punches settable by set-bars selectively operable by a column of interponents, one for each punch of a column, pivotally mounted on a carriage movable stepwise to dispose the interponents over successive columns of set bars, an interponent being movable angularly about the pivot from an inactive to active position to effect operation of a set bar, apparatus comprising conditioning means individual to each interponent and operable by depression of a key appropriated thereto to condition the interponent for movement to the active position thereof, a power operated actuator member common to the interponents to move conditioned ones thereof angularly about their pivot to effect operation of set-bars, driving means effective to operate the actuator member, and interrupter means operatively connecting the driving means with all keys appropriated to interponents and operable by and during depression of any of said keys to render said driving means ineffective to operate the actuator member.

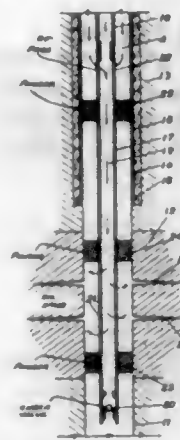
2,716,454

## FRACTURING FORMATIONS SELECTIVELY

Guss F. Abendroth, Shreveport, La., assignor by mesne assignments, to Esso Research and Engineering Company, Elizabeth, N. J., a corporation of Delaware.

Application April 18, 1952, Serial No. 283,064

4 Claims. (Cl. 166—42)



3. A method for fracturing a formation traversed by a well having a casing with a tubing arranged in the casing in which the casing is exposed to pressure of fracturing fluid without exceeding rupturing pressure of the casing which comprises isolating a zone in said formation to be fractured, pumping a fracturing fluid to said zone down the tubing at a pressure in excess of the breakdown pressure of the formation to fracture said formation, continuing the pumping of fracturing fluid down the tubing to the fractured formation, pumping fracturing fluid down the annulus between the casing and tubing, and then commingling the fracturing fluid being pumped down the tubing and the casing annulus in said tubing at a point adjacent said zone to increase the flow of fracturing fluid to said fractured formation.

2,716,455

## TRAP FOR FLUID IN A PIPE SECTION

Alonzo G. Jones, Jr., Clovis, N. Mex.  
Application January 22, 1953, Serial No. 332,721  
8 Claims. (Cl. 166—81)



1. A device for trapping fluid in a pipe section being removed from a pipe string, comprising, in combination with a vertically disposed pipe string composed of pipe sections connected end-to-end by means of threaded joints, a generally tubular body removably mountable on said string surrounding a joint between upper and lower adjacent pipe sections, means for supporting said body on said upper section for movement upwardly therewith as it is unscrewed from the lower pipe section, and a horizontally disposed shutter member movably mounted on said body to close the bore thereof below said upper section as the latter is withdrawn from said lower section.

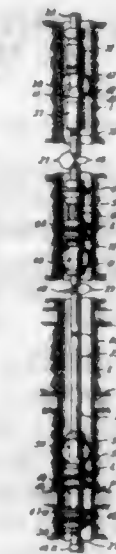
2,716,456

## SELECTIVE SQUEEZE DEVICE

Cicero C. Brown, Houston, Tex.

Application November 7, 1949, Serial No. 125,989

11 Claims. (Cl. 166—119)



1. A selective squeeze device, comprising, a tubular packer member insertible in a well bore and adapted to engage the bore wall and seal off the well bore, a tubular mandrel movable axially through the bore of said packer member, packing means between said mandrel and said packer member, said mandrel embodying annularly spaced concentric inner and outer tubular members providing an annular chamber between said tubular members which is open at its lower end, means closing the upper end of said chamber, the lower end of said outer member having radial passageways communicating with the exterior thereof, said inner tubular member being closed at its lower end and having radial discharge nozzles connected to said passageways for providing communication between the bore of the inner tubular member and the exterior of the outer tubular member, sleeve means slidable on said outer tubular member below said packer member and having openings therein movable into and out of registration with said nozzles in response to relative axial movement between said sleeve means and said mandrel, annular sealing means mounted on said sleeve means in axially spaced relation on opposite sides of said openings adapted to form fluid-tight seals with the wall of said well bore, a first port in the upper portion of said outer tubular member at all times above said packer member, other ports in an intermediate portion of said outer tubular member above said sleeve means adapted to be moved between positions above and below said packer member in response to relative axial movement between said mandrel and said packer member, and releasable latch means connecting said mandrel to said packer member adapted when engaged to hold said other ports above said packer member and when released to permit said other ports to be moved below said packer member.

2,716,457

## WELL PACKERS AND ANCHORING MEANS THEREFOR

Robert K. Le Roux, Houston, Tex., assignor to Oil Center Tool Company, Houston, Tex., a corporation of Texas

Application September 2, 1950, Serial No. 182,906  
10 Claims. (Cl. 166—130)

1. A well packer including, a support, a resilient annular packing element on the support, an anchoring unit for anchoring the packer to a well casing including casing gripping members mounted on the support with the gripping members being slidable on said support, latching means attached to the gripping members and exposed exteriorly of the support, means on the support engageable by the latching means for latching the gripping

members and latching means against upward movement on said support, and a projection secured on the support and disposed below the point of connection between the latching means and support, said projection engaging the latching means when the support is moved upwardly

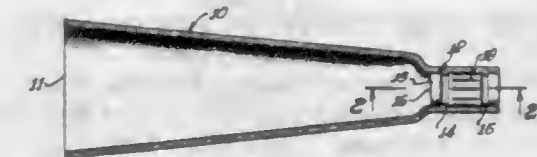


2,716,458

## NON-STATIC SNOW DISCHARGE HORN

George B. Isaacs, Los Angeles, Calif.

Application February 9, 1953, Serial No. 335,815  
3 Claims. (Cl. 169—11)



1. In a fire-fighting horn for forming, directing and discharging solid carbon dioxide snow, the provision of: a one-piece discharge horn of homogeneous polyethylene composition having an inlet end and a larger discharge end; a unitary nozzle and coupling member molded into and irremovably associated with the smaller end of said discharge horn, the external surface of said member including circumferential and longitudinal grooves adapted to receive integral portions of the horn; the outer end portion of the coupling member being provided with an internally threaded bore and the inner end portion of the member being provided with an axial orifice, said horn being provided with a bore rapidly increasing toward the discharge end thereof for a distance of between 75% and 90% of the horn length, whereby liquid carbon dioxide supplied to the horn through said coupling member may be discharged through said orifice in snow-forming condition and the snow discharged through said horn without generation of static.

2,716,459

## FUEL SUPPLY FOR RAM JET POWERED HELICOPTERS

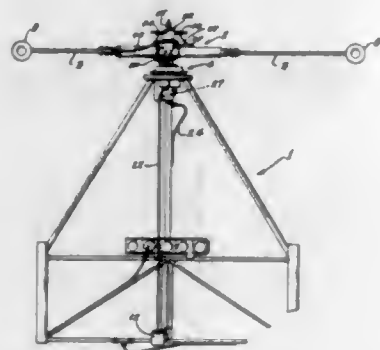
Ernest W. Toney, Normandy, and Harold H. Ostroff and Alb C. Ballauer, Ferguson, Mo., assignors to McDonnell Aircraft Corporation, St. Louis, Mo., a corporation of Maryland

Application January 5, 1950, Serial No. 136,942  
8 Claims. (Cl. 170—135.4)

1. A fuel supply system for rotary wing aircraft comprising wing tip mounted jet engines, a fuel supply, means



connecting said fuel supply to said jet engines including therein a pump and a valve housing connected together in fuel flow relation, said housing having fuel receiving and delivering chambers in communication through a common port, a valve element in said housing to control fuel flow through said port from the receiving chamber to the delivery chamber, resiliently displaceable means carried by said housing adjacent said delivery chamber in connection with said valve to urge the valve in a port opening direction against the pressure of fuel in said



delivery chamber, weight means rotating with the rotary wing and subject to centrifugal force due to rotary wing rotation and connected to said displaceable means to urge said valve in a port closing direction, resilient means connected to said weight means to continuously oppose the centrifugal force generated thereby, whereby to maintain said port open to the flow of fuel below a predetermined maximum speed of rotary wing rotation, and metering valve means connected to said housing delivery chamber to meter the fuel prior to delivery to said jet engines.

2,716,460

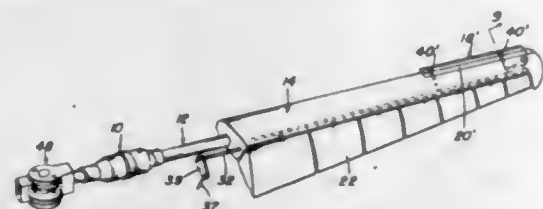
# BLADE AND CONTROL MECHANISM FOR HELICOPTERS

Raymond A. Young, Fairfax, Va.

Application February 28, 1952, Serial No. 274,038

1 Claim. (Cl. 170—160.1)

(Granted under Title 35, U. S. Code (1952), sec. 266)



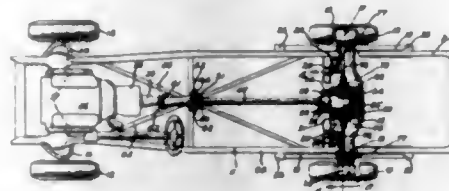
A rotor blade comprising a spar structure having an inboard end and an outboard end, a plurality of control flap segments displaceably carried by said spar structure, said segments being arranged in side-by-side relation to form the trailing edge portion of the blade, mechanical means connected with said segments for displacing the segments adjacent to said inboard end to selected angles and at the same time displacing the segments adjacent to said outboard end through angles which are smaller than the first mentioned angles, said mechanical means including a shaft mounted for rotation in and extending spanwise of said spar structure, spaced and laterally extending arms fixed to said shaft and arranged substantially helically on said shaft, means connecting said arms to said control flap segments, a longitudinal member disposed near the tip and leading edge of the blade and wholly movable toward and away from said spar structure, links fixed to said longitudinal member to support and move the latter, a crank arm pivoted to each link and fixed to said shaft so that said longitudinal member is movable in response to rotation of said shaft.

## 2,716,461 RESILIENT MOUNTING OF MOTOR VEHICLE DRIVE UNITS

Earle S. MacPherson, Huntington Woods, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application November 6, 1951, Serial No. 255,008

2 Claims. (Cl. 180—64)



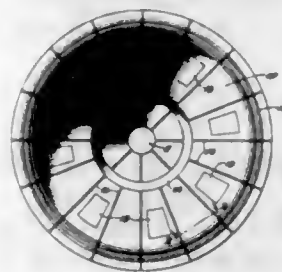
2. In a motor vehicle chassis, a frame, front steerable wheels and rear driving wheels, a power unit, a pair of laterally spaced resilient mounts adjacent the front wheels supporting the opposite sides of said power unit upon said frame, a transmission unit rigidly connected to the rearward end of said power unit and extending rearwardly therefrom, a resilient mount supporting said transmission unit upon said frame intermediate the front and rear ends of said transmission unit, said transmission unit having a bifurcated portion at its rearward end, a torque tube extending rearwardly of said vehicle and having a bifurcated portion at its forward end pivotally connected to the bifurcated end portion of said transmission unit for pivotal movement about a transverse horizontal axis with said axis being located a substantial distance rearwardly of said last-mentioned resilient mount, a differential housing rigidly secured to the rearward end of said torque tube, differential mechanism within said housing, axles extending outwardly from said differential mechanism to the rear driving road wheels, a frame cross member extending transversely across said frame above said differential housing, a pair of transversely aligned resilient mounts depending from said frame cross member and connected at their lower ends to said differential housing, and springs between said frame and said rear wheels, said springs transferring the horizontal propelling and retarding forces to said frame and said interconnected differential housing, torque tube, transmission unit and power unit transferring driving and braking torque to said frame and dividing this latter torque between the resilient mounts supporting the power unit, transmission unit and differential housing.

## 2,716,462 REINFORCED ACOUSTIC DIAPHRAGMS AND METHOD OF MAKING THE SAME

Joseph B. Brennan, Cleveland, Ohio

Application October 25, 1952, Serial No. 316,874

10 Claims. (Cl. 181—32)



1. An acoustic diaphragm having a concave body portion and a peripheral mounting rim extending laterally of the body portion, said body and rim portions being integrally formed of felted fibrous material in a relatively thin flexible continuous sheet, and a plurality of separate filaments extending radially across the rim and body portions and circumferentially spaced from each other, each of said filaments being formed by a strip of resinous plastic material adhesively secured to the fibrous sheet.

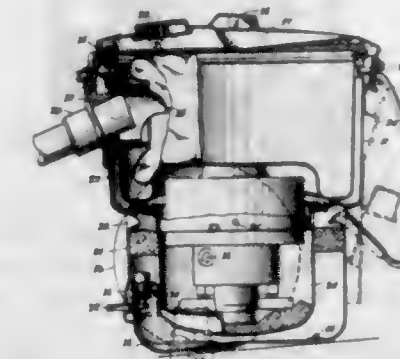
2,716,465

## VACUUM CLEANER ASSEMBLY

Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to Lewyt Corporation, Brooklyn, N. Y., a corporation of New York

Application March 26, 1954, Serial No. 419,007

7 Claims. (Cl. 183—37)



1. A vacuum cleaner assembly including, in combination, a tub-shaped casing having front, side, rear and base surfaces, wheels having their lower peripheral portions disposed to project below the base surface and journaled one adjacent each of the side surfaces at points between the front and rear surfaces of said casing, said wheels having their upper peripheral portions extending throughout substantially one-half of the height of the casing, a support adjacent said rear surface projecting below said base surface, the casing being rockable around said wheels to elevate said support from the floor, a collar having its axis downwardly and outwardly directed from the front surface of said casing below the upper edge thereof adapted to receive a hose whereby in response to a pull on said hose the casing tends to overbalance in the direction of the front surface and whereby the hose will be displaced in a direction to contact the floor to limit the extent of said overbalancing, and thereby tend to maintain the casing in an upright position, said casing being formed with an air-discharge opening, a motor-blower unit disposed adjacent the casing base to cause a flow of air from said inlet opening to said discharge opening, a filter also disposed within said casing and through which air passes in its flow therethrough, said filter being positioned within the upper end of said casing in line with said unit and the center of gravity of said assembly being positioned between a horizontal plane tangent to the top of the wheels and a horizontal plane through the center of the wheels and to the rear of a vertical plane passing through the center of the wheels which is perpendicular to said two horizontal planes.

2,716,466

## MEANS FOR POSITIONING AN ELEVATOR PLATFORM AT PREDETERMINED LEVELS

Leo K. Sanders and Vaughn A. Sanders, Spokane, Wash., assignors to Pigeon Hole Parking, Inc., Spokane, Wash., a corporation of Washington

Application April 13, 1953, Serial No. 348,402

2 Claims. (Cl. 187—76)

1. Means for positioning an elevator platform comprising stops on the guide frame of the elevator at the several predetermined levels, latches each pivotally carried by the platform at a downward incline and movable in a vertical arc below horizontal into and out of locking engagement with said stops; a bar extending above each said latch in spaced parallel relation to each pivot of the latch; a bolt threaded through each said bar and disposed

4. The method of making acoustic diaphragms which comprises forming a continuous felted fibrous sheet into a diaphragm with a concave body portion and a peripheral mounting rim extending laterally of the body portion, depositing resinous material on the sheet in the form of a plurality of spaced filaments extending radially across the rim and body portions of the diaphragm, and setting the resinous material.

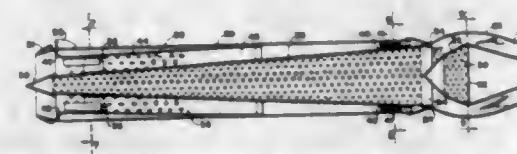
2,716,463

## MUFFLER

Eddy D. Latulippe, Englewood, N. J., assignor to Turbo-sonics, Inc., Newark, N. J.

Application September 27, 1954, Serial No. 458,497

11 Claims. (Cl. 181—55)



1. An adjustable muffler for internal combustion engines comprising, an elongated housing having inlet and outlet ports and arranged to conduct exhaust gases there-through, an acoustical trap mounted on the inside surface of said housing and comprising a spaced metal partition having a plurality of perforations, a perforated metal cone in axial alignment with said housing and adjustably movable in a direction parallel to the housing axis, said cone terminating at its base in a solid ring which fits into a constricted portion of said housing to form an adjustable gate, and a conical baffle mounted adjacent to the outlet port in axial alignment with said housing.

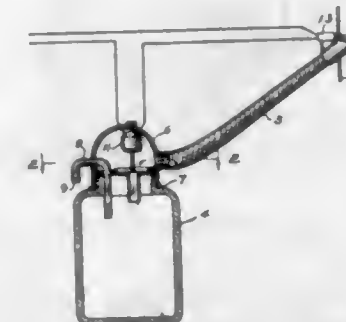
2,716,464

## POWER OPERATED ASH DISPOSAL RECEPTACLE

Frank G. Weisbecker, Glenside, Pa.

Application September 22, 1953, Serial No. 381,531

2 Claims. (Cl. 183—36)

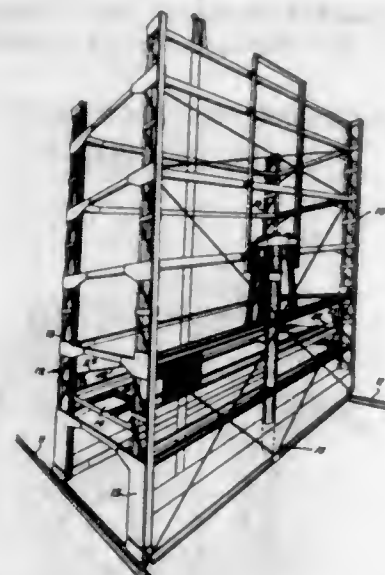


1. A device intended principally for use on a motor vehicle for facilitating the disposal of cigar ashes, cigarette ashes, and the like, comprising: an open ended ash receiving member; an ash disposal receptacle; a screened vent for said receptacle; closed conduit means connecting the interior of said member and said receptacle; an electrically driven air pump housed within said receptacle for effecting a reduction in air pressure within said member and conduit; means for connecting said pump to a source of electricity, said means including a manually operable microswitch; and an arm attached to said switch for operating the same, said arm being positioned to at least partially overlie the open end of said ash receiving member, whereby light contact of said arm with the end of a cigar or cigarette is effective to initiate operation of said motor and pump to draw ashes from said ash receiving member into said receptacle.

697 O. G.—43



to contact its corresponding latch to limit the sweep of the latch toward horizontal; and adjustable means cor-

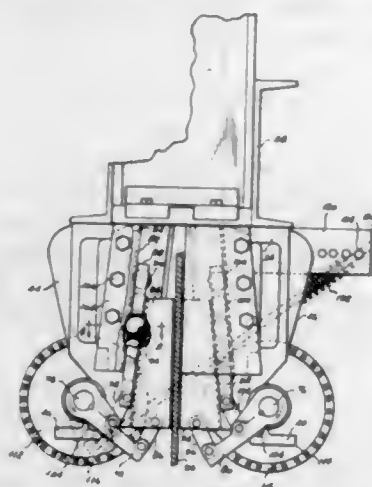


relating said latches for simultaneous movement and adapted for manual operation of the latches.

2,716,467

### ELEVATOR CAR FLEXIBLE GUIDE CLAMP SAFETY

Clarence R. Callaway, Fort Myers, Fla., assignor to Watson Elevator Company, Inc., New York, N. Y., a corporation of New York  
Application October 7, 1952, Serial No. 313,551  
14 Claims. (Cl. 187-90)

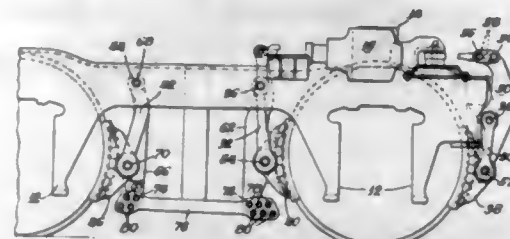


1. In an elevator car flexible guide clamp safety assembly a car, guide rails for the car, a pair of levers carried by the car pivoted intermediate their ends, a spring positioned between the inner pair of lever ends urging them away from each other, means for limiting the movement of the inner lever ends under the influence of the spring, means for positioning the outer lever ends on opposite sides of a guide rail and spaced therefrom, a pair of shafts, means for mounting the shafts on the car for rotation, an arm secured to each shaft for rotation therewith, means for connecting the shafts to rotate in opposite directions, a bearing element carrier positioned between one outer lever end and the guide rail, another bearing element carrier positioned between the other outer lever end and the guide rail, bearing elements carried by the carriers, means for attaching respective carriers to respective arms, a clamping block positioned between one carrier and the guide rail, another clamping block positioned between the other carrier and the guide rail, means for attaching the clamping blocks to respective arms, means responsive to a predetermined speed of descent of the elevator car for rotating the shafts to lift the bearing element carriers and the clamping blocks whereby to clamp the guide rail between the clamping blocks, the construction be-

ing such that the clamping thrust will move the outer ends of the levers away from each other against the action of the spring.

2,716,468

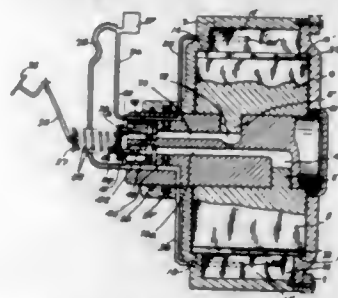
**CLASP BRAKES FOR RAILWAY TRUCKS**  
Edward J. Simanek, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey  
Application November 12, 1953, Serial No. 391,543  
7 Claims. (Cl. 188-56)



5. In a brake rigging for a railway car truck, a frame, wheel and axle assemblies having adjacent wheels, a hanger pivoted to the frame and carrying a first brake shoe assembly on the lower end thereof engageable with the tread of one wheel, a second hanger pivoted to the frame and carrying on the lower end thereof a second brake shoe assembly engageable with the tread of the other wheel, a generally vertical live-brake lever pivoted intermediate its ends to the first brake shoe assembly, a dead brake lever fulcrumed to the frame and pivoted intermediate its ends to the second brake shoe assembly, a strap having selectable vertically variable connections at opposite ends thereof to the lower ends of said brake levers, and power means operatively connected to the live brake lever.

2,716,469

**FLUID BRAKES FOR ROTARY MEMBERS**  
René Jean Louis Gassot, Paris, France  
Application August 22, 1952, Serial No. 305,740  
Claims priority, application France October 23, 1947  
5 Claims. (Cl. 188-90)

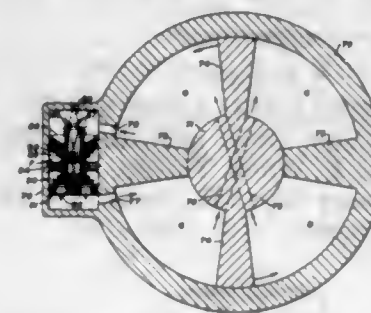


1. A hydraulic brake which comprises, in combination, a sealed drum for attachment to a rotatable member, such as a wheel, a non-rotatable axle member about which said drum is rotatably mounted, a core fixed on said axle and fitting within said drum substantially from wall to wall thereof, said core having a smaller diameter than said drum to form an annular passage therebetween for containing an incompressible fluid, radial slots in said core and extending across the axial width thereof, vanes slidable in said slots and extending the length thereof to substantially span the distance between the walls of said drum, a partition extending on 90° across the width of said drum and dividing the annular passage, cam guides extending inwardly from the sides of said drum, the cam surfaces of said guides coinciding with the free edge of said partition, said guides extending on either side of said partition for a quarter of the circumference of said drum, fluid passageways in said axle member, each connected with one of said core slots, said vanes having plungers extending from their inner edges into said passageways, a master cylinder including a piston, a fluid

connection between said passageways and said master cylinder, whereby said vanes may be operated by fluid pressure from said master cylinder by actuation of said piston, surfaces on the outer ends of said vanes, one of them being constantly subjected to the pressure built up in said passage, operating means for actuating said piston and including a control member and a resilient calibrated device interposed between said control member and said piston for compressing the vane-operating control liquid.

2,716,470

**SHOCK ABSORBERS**  
Nevin S. Focht, Garden City, N. Y.  
Application January 24, 1951, Serial No. 207,474  
11 Claims. (Cl. 188-96)



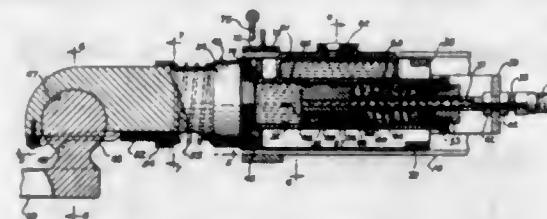
3. In a hydraulic shock absorber, a piston and cooperating cylinder, the piston having a rod passing through both heads of the cylinder, an annular reservoir for hydraulic fluid including a tubular wall surrounding one end of the piston rod, a fluid passage connecting the reservoir and cylinder including a check valve for admitting fluid from the reservoir to the cylinder, an annular piston slidable on the tubular wall and yieldable means for moving the annular piston in a direction to reduce the reservoir volume.

7. A metering valve for shock absorbers comprising a body having an internal cylinder bore and aligned smaller bores continuing and extending beyond the ends thereof, a metering pin reciprocable in the two said smaller bores and an annular piston element reciprocable in the first said bore and having an orifice cooperating with the metering pin, the body having channels for conducting fluid to and from the two ends of the first said bore.

2,716,471

### COMBINED COUPLER AND BRAKE APPLYING DEVICE

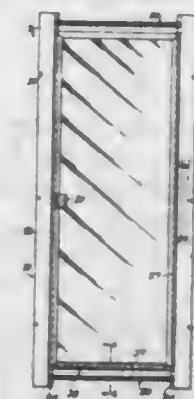
Jesse Long, Chicago, Ill.  
Application January 5, 1949, Serial No. 69,266  
10 Claims. (Cl. 188-112)



1. A combined coupler and brake actuating mechanism comprising a cylinder, a draw bar integral with the cylinder adapted to be attached to a towing vehicle, a piston in said cylinder, means permitting controlled circulation of fluid around said piston, a piston rod on said piston adapted to be connected to a trailing vehicle, said piston rod having a passageway therein adapted to communicate with the trailing vehicle brakes, said piston being movable in one direction to create fluid pressure in the passageway for operating the trailing vehicle brakes, and a pop-valve in the piston operative to relieve said pressure when the piston moves in the opposite direction.

2,716,472

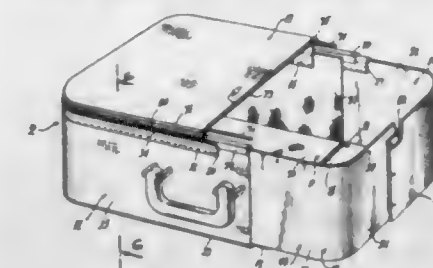
**DOOR CONSTRUCTION**  
Roy W. Tadd, San Gabriel, Calif.  
Application December 15, 1952, Serial No. 325,997  
6 Claims. (Cl. 189-46)



1. In a door framing structure of the character described, comprising a rectangular frame comprised of two Z-shaped stiles and upper and lower tubular rails connecting said stiles at points spaced from their ends, said stiles being oppositely arranged and each provided with a mounting flange, a substantially narrower offset flange, and a connecting web, the latter flanges and webs of the two stiles cooperating to define a door-housing recess, and hinge means at the junction of the connecting web and offset flange of one of said stiles.

2,716,473

**LUGGAGE CONSTRUCTIONS**  
Abraham Droutman, Brooklyn, N. Y., assignor to Droutman Manufacturing Company, Brooklyn, N. Y., a partnership  
Application September 3, 1954, Serial No. 454,160  
8 Claims. (Cl. 190-49)



1. An article of luggage comprising a bottom wall, an upstanding bead along the periphery of said bottom wall, a flexible side wall cover extending along the periphery of said bottom wall outwardly of said bead and secured to the latter below the top of said bead, an upstanding side wall frame having its lower portion extending between said bead and side wall cover, the upper portion of said side wall frame being secured to the upper portion of said side wall cover to maintain said side wall cover in fully distended reinforced condition, a flexible side wall lining extending about the periphery of said bottom wall interiorly of said side wall frame, and a molding strip extending about the upper portion of said side wall cover and frame to maintain said side wall cover and lining in distended condition over said frame.

2,716,474

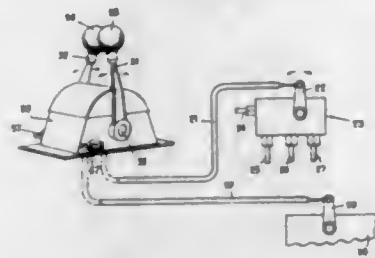
### CLUTCH AND THROTTLE CONTROL FOR ENGINE

Erwin J. Panish, Bridgeport, Conn.  
Application December 17, 1949, Serial No. 133,623  
9 Claims. (Cl. 192-096)

1. A combined clutch and throttle control device for use with an engine having a throttle, reverse gear and clutch means, comprising a base; manually operable clutch and throttle members mounted on said base, said clutch member being movable from a neutral position in



either of opposite directions to either forward or reverse position and said throttle member being movable between idling and operating positions; means for connecting said members respectively to the clutch means and throttle to actuate the same; and locking means controlled by the



clutch member, releasably locking the throttle member in idling position when the clutch member is in neutral position, said locking means releasing the throttle member whenever the clutch member is in forward or reverse position.

#### 2,716,475 IMPACT TOOLS

Walter G. Mitchell, Aurora, Ill., assignor to Thor Power Tool Company, Aurora, Ill., a corporation of Delaware

Original application March 17, 1949, Serial No. 81,966, now Patent No. 2,585,486, dated February 12, 1952. Divided and this application September 7, 1951, Serial No. 245,526

5 Claims. (Cl. 192—30.5)



1. An impact clutch comprising relatively rotatable axially aligned hammer and anvil members having aligned axial bores therein and an aligning shaft in said hammer bore supporting said hammer for rotatable movement thereon and extending into the bore of said anvil for relative movement relative thereto, the portion of the shaft within said anvil bore being of lesser diameter and spaced from the walls of said bore along a major portion of its extent and having a generally cylindrical enlargement of relatively short axial extent in bearing engagement with the walls of said bore whereby said anvil and hammer members may move angularly out of axial alignment to a limited extent without interference with free relative rotation.

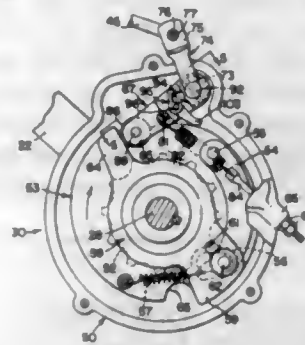
#### 2,716,476 NON-REPEAT MECHANISM FOR CLUTCHES

George D. Hunter, Des Moines, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa

Application February 6, 1953, Serial No. 335,483  
11 Claims. (Cl. 192—62)

1. Non-repeat mechanism for the power lift clutch of an agricultural machine or the like of the type including driving and driven parts and a control member biased to cause disengagement of said parts, said mechanism comprising an operating member movable adjacent said control member, means on one of said members and movable thereon into and out of a position engaging the other member, resilient means acting against said last mentioned means and carried by said control member for urging said movable means into a position intercon-

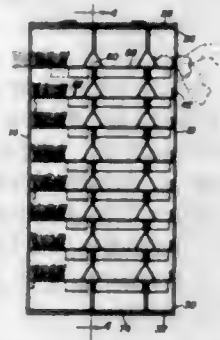
necting said operating and control members, and an extension carried by said movable means and adapted to be



#### 2,716,477 COIN OPERATED DISPENSER

Herbert F. Page, Toledo, Ohio, assignor of fifty per cent to Walter E. White, Toledo, Ohio

Application January 26, 1953, Serial No. 333,105  
10 Claims. (Cl. 194—72)

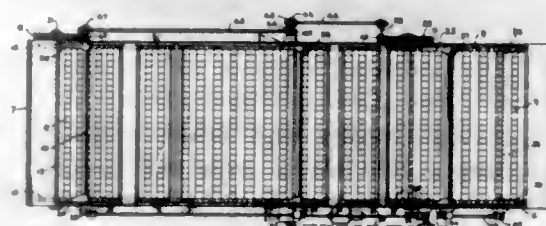


1. An article dispenser comprising a housing including front and rear walls and side walls, an article supporting magazine within said housing, said magazine comprising a zig-zag shaped strip of material having spaced ridges abutting said front and rear walls, said strip having a plurality of spaced rows of article guiding and supporting means formed on the ridges abutting said front wall, weakened portions on one of said side walls aligned with said supporting means for dispensing an article from the housing and coin slots on the other of said side walls aligned with said guide means for insertion of a coin for pressing articles through said weakened portions.

#### 2,716,478 CONVEYORS

Frederick W. Wehmiller, St. Louis County, and James L. Herold, St. Louis, Mo., assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo., a corporation of Missouri

Application July 2, 1951, Serial No. 234,693  
12 Claims. (Cl. 198—19)



1. In a flexible endless conveyor having continuously moving portions and intermittently movable portions, constantly rotating drive wheels for said continuously moving portions, the conveyor forming a closed circuit being long enough to provide for accumulation of excess slack in sections of the conveyor at the entrance of intermittent portions, bending members mounted for pivoting movement transversely of the flexible conveyor at the exit of each of said intermittent portions to forcibly

bend the conveyor and withdraw corresponding portions of the accumulated slack, said bending members being pivoted back and forth predetermined distances to form predetermined transverse bends in the conveyor, thereby imparting predetermined longitudinal movements to the intermittent portions of the conveyor, conveyor slack restraining members movable into and out of bends formed by the slack at said entrance sections, so as to guide and restrain the loose slack portions, and a power transmission device connecting said pivoted bending members to said restraining members, so as to synchronize the movements of said bending and restraining members.

#### 2,716,479 TRANSPORTING APPARATUS

Fred T. Coder, Groveland, Mass., and Elmer G. Kutzelman, Atkinson, N. H., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application February 9, 1954, Serial No. 409,046  
10 Claims. (Cl. 198—19)

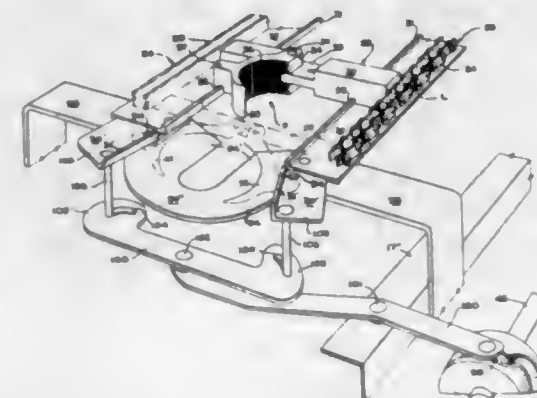


9. An apparatus for transporting articles having spaced projections, in combination with an overhead conveyor movable through a guided path including low portions adjacent supports with intermediate high portions and diagonal connecting portions, the apparatus comprising a frame, means to secure the frame to the conveyor to cause it to follow the path of the conveyor, parallel levers pivotally carried by the frame pivotally connected to the member to support the member, open pockets mounted on the member at spaced positions corresponding to the spacing of the projections on an article and movable with the member free of the projections during a given distance in each low portion of the path of the conveyor, and means to actuate the levers to cause the pockets to receive the projections and thereby lift the article from the support.

#### 2,716,480 CONVEYOR FOR ARTICHOKE PREPARATION MACHINE

Louis Dotta, San Jose, Calif.

Application May 23, 1951, Serial No. 227,848  
7 Claims. (Cl. 198—33)



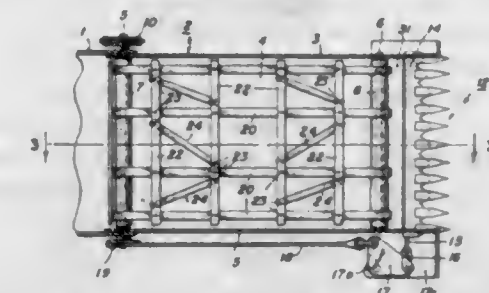
5. Apparatus for preparing artichokes for canning comprising a frame, a pair of endless chains, a plurality of pairs of sprockets arranged in said frame for supporting said chains for movement in a predetermined loop and with their upper reaches extending horizontally across said frame, intermittent drive means connected to one pair of said sprockets for advancing said chains in steps, a plate in said frame for supporting said chains and including an upstanding bead spaced inwardly from each

of said chains, a fruit orienting cup between said plates and below said chains at the initial end of the upper reaches thereof, a plurality of flights between said chains spaced at intervals equal to the steps of advance thereof and comprising a transverse bar having its ends secured to said chains and supported on said plates, a pair of jaws each having trunnions pivotally secured midway the ends of said transverse bar for trailing movement behind the same, whereby said jaws register with said fruit orienting cup between said steps of said chains, a lug on each of said jaws extending onto said plates and having a recessed bottom adapted to ride said bead thereon for maintaining said jaws in closed position, means for mounting the initial portion of said plates for swinging movement away from parallel relation for opening said jaws, a yoke connecting the free ends of said initial portions of said plates for effecting movement thereof toward and from each other, a cam operable in timed relation with said intermittent drive, and a lever pivotally mounted on said frame pivotally connected to said yoke and engaging said cam for opening and closing said jaws while they idle in register with said fruit orienting cup.

#### 2,716,481 DRAPER AND HEADER COMBINATION

Walter R. Dray, Yorkville, Ill.

Application January 19, 1954, Serial No. 404,854  
13 Claims. (Cl. 198—195)



3. In a draper and header combination, a header comprising a pair of side walls connected by an apron to provide a rigid trough-like assembly, rollers mounted transversely of said assembly at the opposite end portions thereof and in a plane adjacent to the plane of the apron, and a draper trained over said rollers and around said apron comprising a plurality of transversely spaced endless parallel belts having their inner surfaces engaged with said rollers, a plurality of longitudinally spaced transversely extending parallel slats secured to the outer surfaces of the belts, means rotating one of the rollers to drive the draper around the rollers, and means for keeping the slats from shifting laterally comprising short flexible braces having their ends connected to adjacent slats.

#### 2,716,482 BULL-BLOCKS

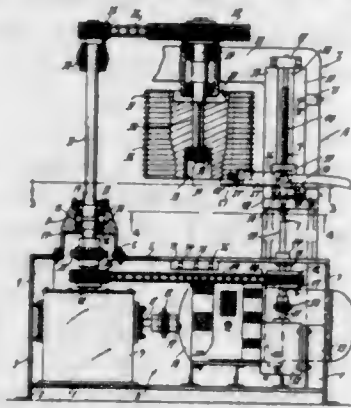
Edward F. Schweich, Clayton, and Sanford A. Silverstein, University City, Mo., and Joseph W. Goldenberg, East St. Louis, Ill., assignors to Lewin-Mathes Company, St. Louis, Mo., a corporation of Missouri

Application January 14, 1952, Serial No. 266,364  
5 Claims. (Cl. 205—3)

1. A bull-block for drawing ductile tubing and the like comprising a base, a frame, driving means associated with the base, a drum operatively mounted for rotation upon the frame and drivingly connected to the driving means, said drum being provided on its peripheral face with a continuous helical groove, a slide-block shiftable mounted on the frame for movement along a path spaced outwardly from the drum and parallel to the axis of rotation thereof, a drawing die carried by the slide-block, a feed-screw journaled at its ends in outwardly spaced parallel relation to the axis of the drum



and being threadedly engaged in the slide-block, and driving means for rotating the screw whereby to cause



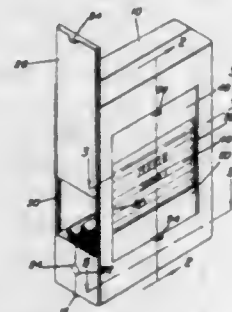
the slide-block to travel along its path in timed relation to the rotation of the drum at a speed which is matched to the pitch of the helical groove.

**2,716,483**  
**COIN HOLDER AND KEY CHAIN DEVICE**  
Walter G. Nauman, Milwaukee, Wis.  
Application March 22, 1952, Serial No. 278,064  
6 Claims. (Cl. 206-0.81)



1. A coil holder and ball key chain combination wherein said coin holder is normally attached to said chain but may be quickly and easily detached therefrom without opening the key chain snap fastener, comprising a thin elongated body having integral top, bottom, side and end walls defining a receptacle therein opened at one end, said open end having a longitudinal key hole slot opening out on the open end providing an inner enlarged aperture of a slightly greater diameter than the diameter of any one of the balls in the key chain and a restricted slot portion the thickness of which is less than the diameter of any one of the balls on the key chain, and a reduced portion on said ball key chain intermediate its ends of a length greater than the thickness of the coin holder, whereby when the reduced portion of the ball key slot chain is aligned in the key opening the coin holder may be separated from the chain.

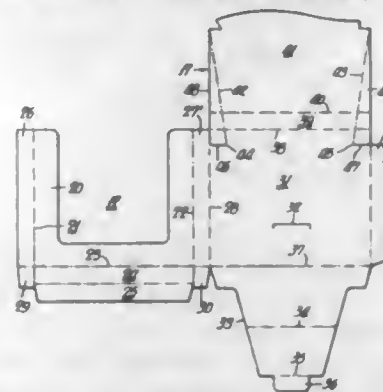
**2,716,484**  
**CIGARETTE CASE AND MEMO ROLL COMBINATION**  
Goldwin A. Wepler, Vanguard, Saskatchewan, Canada  
Application August 10, 1953, Serial No. 373,365  
2 Claims. (Cl. 206-38)



1. A cigarette case comprising a casing split longitudinally into two sections, a cigarette chamber secured to one of said sections, a reel on each side of said chamber and rotatably mounted in said casing, an operating knob on each of said reels, said operating knobs positioned ex-

teriorly of said casing, a memorandum sheet attached to said reels and passing over said chamber, hinge means connecting the sections of the casing together, an access opening in the other of said sections, said opening arranged to provide access to the portion of the sheet passing over the chamber wherein the chamber forms a writing surface, a pair of sliding closures for said access opening for protecting the sheet when not in use, a cigarette opening in said chamber, and a closure for said cigarette opening, said sections having abutting edges with spaced semi-circular notches for journaling said reels, said access opening closures being slidably received in elongated grooves in said other section of the casing.

**2,716,485**  
**COMBINATION SHIPPING AND DISPLAY CARTONS**  
Hanns Ewald Hecker, Hamden, Conn., assignor to The American Rondo Corporation, Hamden, Conn., a corporation of Connecticut  
Application August 10, 1953, Serial No. 373,194  
2 Claims. (Cl. 206-45.25)



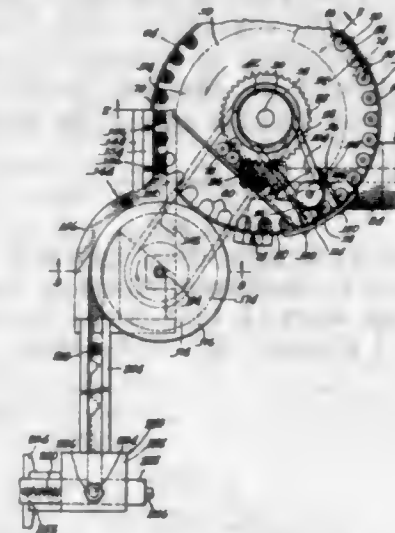
2. A combination shipping and display carton, comprising a front panel having a display opening therein; sides; a back; a top closure panel contiguous to the top of said back and having its side edges in substantially longitudinal alignment with the side edges of said back, said top closure panel being adapted to be moved to erect position when said carton is in display condition; a display panel extending from said top closure panel and having its side edges in longitudinal alignment with the side edges of said top closure panel, said display panel adapted to be folded to cover at least a portion of said display opening; and score lines extending angularly from the sides of the top closure panel, near the top thereof, along the sides of said display panel and said top closure panel, and terminating in said back, near the sides and at the top thereof; said back having slits therein leading from the terminal ends of said score lines to the marginal sides of said back, said slits and score lines defining side flaps on said display panel and said top closure panel located within the border edges of said display panel and said top closure panel and also defining portions of said back panel near the top thereof disconnected from the sides of said carton above said slits, which flaps when folded so that they lie in a plane at an angle to the plane of the display panel and said top closure panel and both of said latter panels are in coplanar relation in an upright position, impart rigidity to said display panel.

**2,716,486**  
**WITHDRAWN**

**2,716,487**  
**NUT AND WASHER ASSEMBLY SELECTOR**  
Linell A. Cox, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois  
Application September 20, 1952, Serial No. 310,700  
17 Claims. (Cl. 209-91)

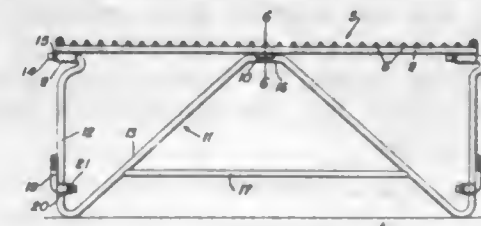
1. Mechanism for separating perfect assemblies of nut elements and washers from improperly assembled and

loose nut elements and washers comprising means for feeding assembled and loose nut elements and washers along a predetermined inclined planar path, rotary means spaced from said path in a direction normal to the plane of said path and rotatable about an axis which is arranged at an angle other than a straight angle relative to the plane of said path, means for rotating said rotary means, and said rotary means having a plurality of portions



spaced different distances from said path and presenting stepped edges which are continuous with the line of travel of the rotary means to continuously traverse said path for engaging and guiding perfect and imperfect assemblies along different paths, the stepped portion of the rotary means closest to said path being spaced thereabove a distance permitting passage thereunder of loose nut elements and washers for feeding along other paths.

**2,716,488**  
**COB CORN SCREEN**  
Bernt J. Fagerberg, Elbow Lake, Minn.  
Application November 7, 1951, Serial No. 255,215  
2 Claims. (Cl. 209-414)

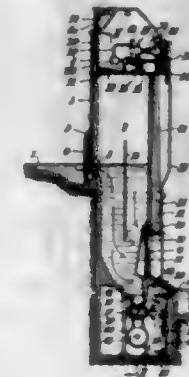


1. A screen construction comprising a rectangular grate, one end of which is adapted to rest on a supporting structure, spaced bearing sleeves secured to the other end of said grate, a supporting stand comprising a pair of upstanding rods and a central connecting portion, generally horizontally extending upper ends on said rods rotatably received in said bearing sleeves, sleeves fixed to the lower ends of said rods, and sleeves secured to said rectangular grate intermediate the ends thereof, U-shaped braces having their ends detachably engaged in said intermediate sleeves and said sleeves fixed to said legs, said central connecting portion having a flat surface thereon contacting the bottom of said grate.

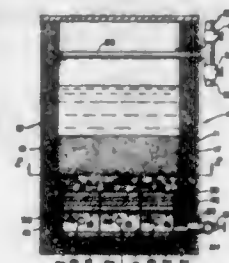
**2,716,489**  
**APPARATUS FOR SEPARATING SOLIDS FROM A LIQUID BODY**  
Alben Warren Way, Philadelphia, Pa.  
Original application May 7, 1946, Serial No. 667,937, now Patent No. 2,586,447, dated February 19, 1952. Divided and this application November 8, 1951, Serial No. 255,342  
3 Claims. (Cl. 210-43)

1. In apparatus for separating solids from a liquid including a screened retention chamber wherein a sub-

stantially homogeneous concentrate is formed by gradual accumulation of finely divided solids, valve means for controlling the admission of successive batches of solids-laden liquid into said chamber and the discharge of the concentrate therefrom in successive batches, a screen permitting the flow of liquid while preventing the flow of solid matter from said chamber, a nozzle projecting water against the outflow of said screen to prevent its clogging, said nozzle being movable across said



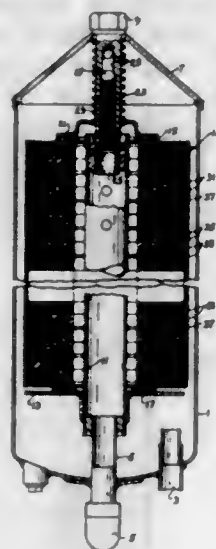
**2,716,490**  
**FILTER CONSTRUCTION**  
Eugene D. Barstow, Cuyahoga Falls, Ohio  
Application January 24, 1951, Serial No. 207,602  
5 Claims. (Cl. 210-130)



1. In filtration apparatus comprising a tank rectangular in cross-section and divided into an upper filter chamber and a lower reservoir chamber, which chambers are separated by a plurality of porous plates integrally joined to form a partition which supports filter media adapted to filter water passing downwardly therethrough and to be cleaned by backwash water passing upwardly therethrough, said reservoir chamber comprising a rectangular shaped self-contained unit formed with a bottom and all four of its side walls integral with said bottom, said backwash water being admitted to said reservoir chamber above said bottom, said bottom and side walls of said unit being formed separately from the bottom and side walls of said tank but being arranged in said tank in a manner to prevent any of said water from getting between said tank bottom and said reservoir chamber bottom, and supporting means for said porous plates integral with said unit bottom and extending completely across said reservoir chamber, said supporting means being secured to two opposite side faces of said plates co-extensive with the area of said faces, and constituting the sole means for anchoring said plates against backwash pressure.

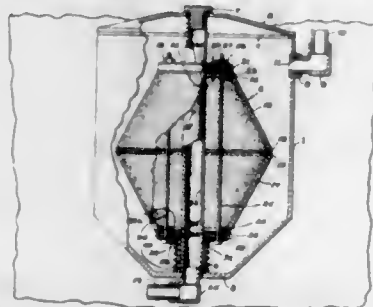


**2,716,491**  
**FILTER FOR LIQUIDS**  
 Southwick W. Briggs, Washington, D. C.  
 Application September 9, 1950, Serial No. 184,025  
 10 Claims. (Cl. 210-169)



1. A refill cartridge for a filter comprising a number of pieces of porous wallboard material, each having a relatively dense, grooved inlet surface layer and a channelled discharge surface layer, said grooves serving to rupture the dense inlet surface layer so that liquid may enter the porous wallboard, said pieces being assembled in pairs with the discharge surface layers in contact, a filtrate passage, said channels communicating with the filtrate passage, said grooves being spaced from the passage and the periphery of the piece, a spacer mounted between adjacent pairs of pieces, having a hub portion in contact with the ungrooved inlet surface layer adjacent the passage to form a seal therewith, said spacer serving to hold said inlet surface layers apart for passage of liquid thereto.

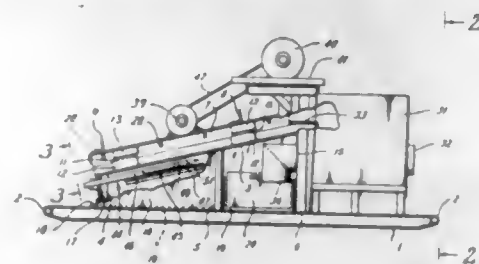
**2,716,492**  
**FILTERING DEVICE**  
 John Wesley Schroeder, Monterey Park, Calif.  
 Application October 25, 1954, Serial No. 464,498  
 4 Claims. (Cl. 210-178)



1. An oil filtering device for use in filtering impurities from the oil in a lubricating circuit of an internal combustion engine comprising: an outer receptacle having an inlet opening therein for establishing communication between the interior of the receptacle and the lubricating circuit; a hollow support stem projecting through the interior of the receptacle and being supported thereby; separable filtering elements which when arranged in abutment with each other form an enclosed hollow porous shell having openings at its opposite ends, said shell through the medium of the openings being telescopically positioned on the stem, said stem having an opening therein for establishing communication between the interior of the shell and the interior of the stem and being open at one end for providing an outlet having communication with the lubricating circuit; and means for simultaneously urging the filtering elements into abutment with each other whereby to form the hollow shell and to effect a seal at each of the open ends of the filtering ele-

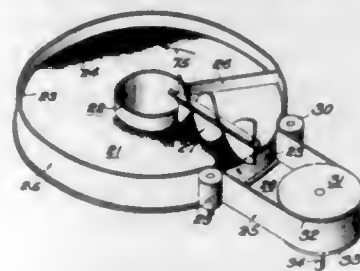
ments between the filtering elements and the outer surface of the stem, said means including tension bolts projecting through the interior of the shell; supporting washers at each end of the shell; resilient and compressible sealing washers sandwiched between each set of supporting washers, all of said washers having openings therein through which the hollow stem projects; and fastening means at the ends of the bolts for applying tension against the washers in a direction axially of the stem to urge the washers into tight engagement with the ends of the filtering elements, whereby to compress the sealing washers so as to constrict the openings therein and thereby effect a seal of said washers against the outer surface of the stem.

**2,716,493**  
**MUD SCREENING DEVICE**  
 Frank E. Hutchison, Houston, Tex.  
 Application April 13, 1953, Serial No. 348,307  
 7 Claims. (Cl. 210-196)



1. In a drilling mud screening device of the vibratory type, the combination of an inclined screen having its lower surface substantially free of mechanical obstructions throughout its length, a liquid collecting tank disposed beneath the screen to receive the liquid portion of a drilling mud falling through the screen, and a movable tray member underlying the lower half of the screen positioned between the screen and the collecting tank and adjustable longitudinally relative to the screen to intercept the liquid falling through the overlying portion of the screen, said tray member being somewhat less in length than the screen and the forward end of the tray member projecting beyond the forward end of said tank arranged to discharge the intercepted liquid outside the confines of said tank.

**2,716,494**  
**ROTARY TABLE FILTER**  
 Robert W. Hursh, Coatesville, Pa., assignor to Lukens Steel Company, Coatesville, Pa., a corporation of Pennsylvania  
 Application June 25, 1953, Serial No. 363,960  
 13 Claims. (Cl. 210-202.5)



1. Apparatus for removing solid filtered material from a relative flat horizontal filter comprising a horizontally disposed rotary filter bed having a peripheral portion, said bed being adapted to receive a layer of solid material thereon, a discharge station located adjacent the periphery of the filter bed, and material removing means extending across said bed and adjacent to said discharge station whereby to move said material in a horizontal direction toward said discharge station, said bed and peripheral

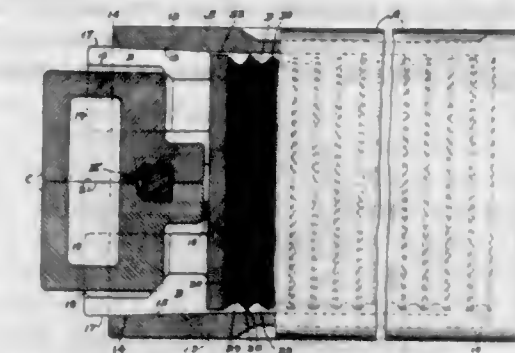
portion forming an unobstructed horizontal passageway for the material moved by said removing means from said bed to said discharge station, said material removing means comprising a plow, said plow having means for moving material across said bed at a constant force at all radii of the bed and comprising a material moving surface, the contour of which is a spiral, and means to rotate said bed, said means comprising at least one pulley mounted adjacent said discharge station and spaced from said bed, guide means mounted adjacent each side of said discharge opening, an endless belt trained around the periphery of said bed and said pulley and between said edge and said guide means, said belt extending above the upper surface of said bed to form a wall around that portion of said bed engaged by said belt, and means to drive said pulley.

**2,716,495**  
**STORAGE, DISPLAY AND SELF SERVICE STAND**  
 Carl E. Prevette and Howard C. Prevette, Champaign, Ill.  
 Application November 9, 1953, Serial No. 390,850  
 2 Claims. (Cl. 211-148)



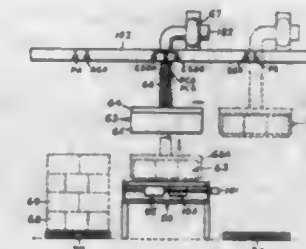
1. A stand for display, storage and self-service of articles, said stand comprising a generally rectangularly shaped base having front, rear and side legs, a pair of end walls each including oppositely disposed upstanding front and rear legs and a top leg connecting the front and rear legs at their upper ends, a plurality of vertically spaced side rails secured to and spanning said front and rear legs, a pair of upstanding closely associated laterally spaced rails secured to and spanning the side rails of each of said end walls, and spaced forwardly from the rear legs of the respective end walls, a generally rectangularly shaped rear wall including top, bottom and end legs, means securing said rear wall between the laterally spaced end walls extending upwardly from the base forwardly of the rear rods of the end walls, said means including a plurality of vertically spaced cross rails secured to and spanning the end legs of said rear wall and with the end portions of each of said cross rails terminating in an upturned end disposed beyond the adjacent end legs of the rear wall, the vertical spacing of said cross rails corresponding to the vertical spacing of the side rails of the end walls, said end portions of the cross rails being disposed between said laterally spaced upstanding rails at the underside of corresponding side rails of the end walls and with their upturned ends detachably fitting against the outer sides of said side rails of the end walls, article supporting means supported by and spanning the front and rear legs of said base, the bottom leg of the rear wall abuttingly engaging and being supported by the said article support means, and means detachably securing the lower ends of the front and rear legs of the end walls to the base for anchoring the rear and side walls in upstanding relationship with the base.

**2,716,496**  
**SHOCK ABSORBING MECHANISMS FOR RAILWAY DRAFT RIGGINGS**  
 Eric G. Forsell, Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware  
 Application March 25, 1953, Serial No. 344,535  
 4 Claims. (Cl. 213-34)



1. In a friction shock absorbing mechanism, the combination with a casing having opposed walls, said walls containing elongated key receiving slots extending lengthwise of the casing; of friction shoes slidably telescoped within the casing; a two-part split wedge in wedging engagement with said shoes; yielding cushioning means within the casing pressing against said shoes to wedge the two parts of the wedge together; and a key connecting the wedge to the casing, said key extending through said slots and being embraced between said parts of the wedge, and said parts of the wedge and key having cooperating shoulders holding the key against endwise displacement.

**2,716,497**  
**APPARATUS FOR HANDLING MATERIALS**  
 Eugene A. Wahl, Glen Ridge, and Ralph J. Winters, Nutley, N. J., assignors to P. Ballantine & Sons, Newark, N. J., a corporation of New Jersey  
 Application December 9, 1953, Serial No. 397,855  
 8 Claims. (Cl. 214-6)



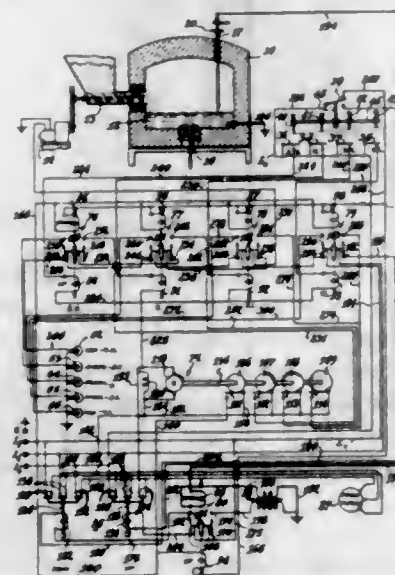
1. Apparatus for loading a multiplicity of units onto a portable platform, comprising a table having an area thereof adapted to support successively a plurality of groups of said units, the units included in each group being in patterned relation forming a tier, means for forming successive tiers on said area, a hollow movable head having a depending flexible curtain adapted to encircle the units forming a tier and to engage in substantially air-tight manner the sides of the units forming the periphery of a tier, means to create a predetermined suction within said head whereby said curtain engages said units in said substantially air-tight manner, means for moving said head together with an engaged tier of units from said area to a position over said portable platform, and means to release the suction within said head whereby said engaged tier is deposited on said platform.

**2,716,498**  
**AUTOMATIC GLASS LEVEL CONTROL APPARATUS**  
 Gordon E. Childs, Fairmont, W. Va., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
 Application April 26, 1952, Serial No. 284,568  
 5 Claims. (Cl. 214-18.2)

1. In combination for a glass furnace, a probe assembly for measuring the existing glass level in said

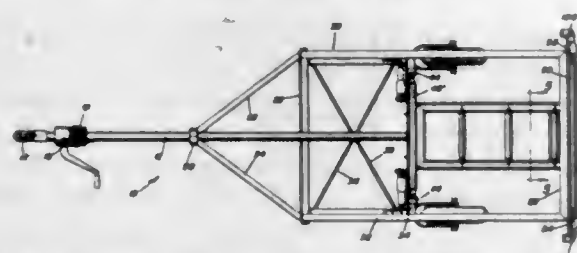


glass furnace and an electric control mechanism for adjusting the batch feeding rate to maintain a desired level in said furnace, said probe assembly having a probe normally located at a relatively small distance above the maximum level to which the glass may rise, means moving said probe during each of predetermined time intervals toward and away from said glass, and a gaging unit having a plurality of gaging contacts movable with said probe, a gaging switch beneath each contact, said gaging contacts being arranged at levels vary-



ing from relatively low to relatively high so as to successively close their gaging switches as the probe descends, said electric control mechanism energizing a driving means continually during each interval when the reciprocation is large, for a major portion of each interval when the reciprocation is smaller, for about half of each interval when the amount of reciprocation indicates normal glass level, for a still less proportion of each interval when the reciprocation is relatively small, and not at all when the reciprocation indicates a very high glass level.

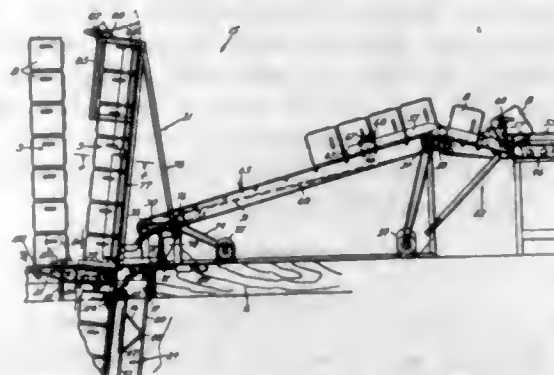
**2,716,499**  
**BOAT TRAILER INCLUDING LOADING RAMP AND WHEEL MOUNT**  
Isaac H. Grant, Panama City, Fla.  
Application August 14, 1953, Serial No. 374,290  
1 Claim. (Cl. 214-84)



A boat trailer comprising a wheeled frame, a pair of angle members extending with and secured to said frame, a transverse rod secured to said angle members adjacent the rear of said frame, a support secured to said members at the rear of said frame and having an upper surface extending at an acute angle relative to said frame, a ramp having a peripheral frame having a vertically extending flange with rollers attached thereto and having a peripheral outwardly extending flange slidably received on said angle members, said ramp having hooks attached thereto for engaging said retaining means with the forward end of said ramp supported by said support, a drawbar secured to said frame, and a winch on said drawbar for dragging a boat up said ramp and onto said frame, and securing means attached to said frame for securing a boat on said frame, said frame having rearwardly extending wheel supports and cushioning means extending between said wheel supports and said frame.

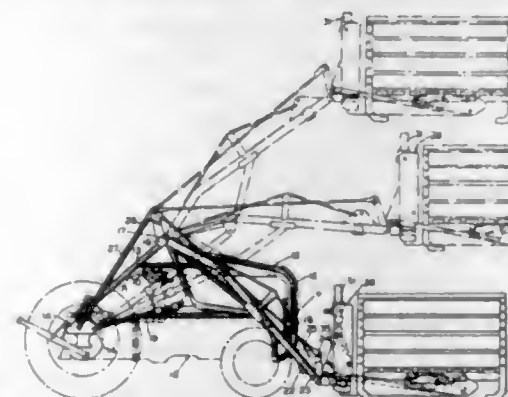
**2,716,500**  
**ARRANGEMENT FOR TRANSFERRING UPRIGHT STACKS OF BOXES INTO RECLINED POSITION**  
Glenn M. Criger, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware  
Continuation of application Serial No. 8,374, February 14, 1948. This application July 9, 1951, Serial No. 235,765

3 Claims. (Cl. 214-306)



1. Arrangement for transferring a stack of boxes from an upright to a reclined position for delivery to a box dumping mechanism comprising in combination an inclined conveyor adapted to receive a stack of boxes in reclined position and deliver them upwardly to the box dumping mechanism; a rocker having an elongated frame and a ledge provided at one end of said frame and extending substantially at right angles thereto, said rocker being pivotally mounted adjacent the lower end of said conveyor for movement from a substantially upright initial position in which said ledge is adapted to support a stack of boxes in upright condition to a second position wherein said frame is parallel to and closely above said conveyor, said frame defining an opening of sufficient size to permit the passage of said stack therethrough; gate means pivotally supported from said frame; spring means engaging said gate means in a manner effective to enable said gate means to support a stack of boxes as said rocker is reclined into said second position; and means effective, upon said rocker reaching said second position, to retract said gate means against the urgency of said spring means so that the entire stack may simultaneously drop through said frame onto said conveyor and said rocker may return past the dropped stack to its initial position.

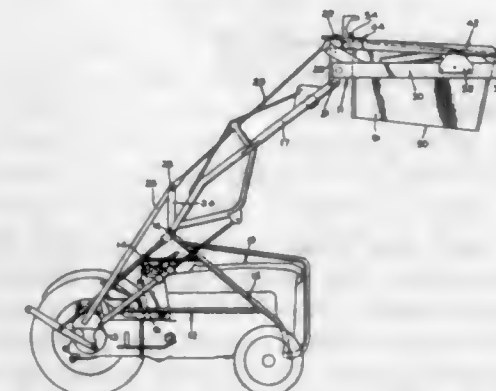
**2,716,501**  
**PALLET HANDLING AND DUMPING APPARATUS**  
Harold L. Gelger, Birmingham, Mich., assignor, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application November 1, 1952, Serial No. 318,202  
16 Claims. (Cl. 214-313)



1. In an apparatus for handling a palletized receptacle having a raised bottom wall and a fixed laterally extending trunnion underneath said wall, comprising a vertically movable lift arm insertable beneath said wall, a dumping arm carried by said lift arm for engagement with said trunnion and pivotally movable relative to said lift arm, means on said dumping arm defining a re-entrant recess

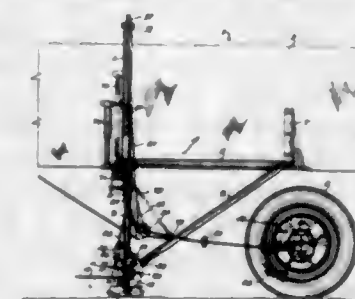
normally positioned adjacent to but longitudinally spaced from said trunnion, means carried by one of said arms for longitudinal movement there along into engagement with said receptacle to shift the same on said dumping arm causing entry of said trunnion into said recess, and means for pivotally moving said dumping arm relative to said lift arm to arcuately move said trunnion for dumping said receptacle.

**2,716,502**  
**RECEPTACLE HANDLING DEVICE**  
Raymond W. Wilson, Ferndale, Mich., assignor, by mesne assignments, to Ford Motor Company, Dearborn, Mich., a corporation of Delaware  
Application June 10, 1953, Serial No. 360,641  
4 Claims. (Cl. 214-313)



1. A receptacle handling device for use with a receptacle having laterally projecting trunnions, comprising a pair of laterally spaced lift arms, means for elevating and lowering said lift arms, a dumping arm overlying each of said lift arms respectively and pivotally connected thereto for movement with said lift arms and for independent movement relative thereto, means operatively interposed between associated lift arms and dumping arms for effecting such relative movement, said dumping arms being adapted to engage the receptacle trunnions to elevate the receptacle and to partially invert the same upon relative lift arm-dumping arm movement, and a latching structure for preventing displacement of said receptacle from said dumping arms, including an articulated linkage pivoted to said lift arms in spaced relation to the pivoted connection of said dumping arms thereto and pivoted to said dumping arms in spaced relation to the dumping arms-trunnions engagement, and a latching extension carried by said linkage to overlie one of said trunnions.

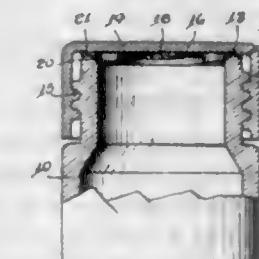
**2,716,503**  
**SELF LOADING VEHICLE APPARATUS**  
Cecil H. Goddard, Expanse, Saskatchewan, Canada  
Application December 27, 1954, Serial No. 477,751  
4 Claims. (Cl. 214-359)



1. Loading apparatus for a vehicle having a load-receiving box and a driving wheel comprising a frame, means for swingably mounting said frame on the vehicle, a fork rotatably carried in said frame, a fork rotating member fixed to the fork, a pair of stops carried by said member and defining the rotative limits of said fork, stop engaging means carried by the frame, a spring connected to said member and urging said fork in one direc-

tion of rotation for placing one of said stops in engagement with said stop engaging means, a reel mounting bracket for attachment to said wheel, a reel mounted on said bracket, clutch mechanism arranged to drivably connect said reel and bracket, a cable having one end connected to said member and its other end connected to said reel, said cable having intermediate engagement with said frame, manually operable means for actuating said clutch mechanism, said reel being rotatable to wind said cable thereon in response to actuation to said clutch mechanism, said cable, in response to initial winding movement, imparting rotative movement in the other direction to said member and fork to place the other of said stops in engagement with said stop engaging means, said cable in response to subsequent winding movement imparting swinging movement to said fork and frame, and means carried by said reel and operable by said cable for releasing said clutch mechanism.

**2,716,504**  
**CONTAINER CLOSURES**  
Jean R. L. Martin, New York, N. Y., assignor to Coty, Inc., Wilmington, Del., a corporation of Delaware  
Application April 27, 1951, Serial No. 223,269  
1 Claim. (Cl. 215-40)



The combination with a bottle having a threaded neck, and a bevelled lip on the inner top edge thereof, of a cap and liner for sealing the neck of the bottle, said liner being disposed along the underside of said cap and being of thin, resilient plastic material, a central hollow arch formed on said liner and adapted to be urged into substantially planar shape by the underside of the cap when the cap is screwed on the bottle neck, an annular channel surrounding said arch, and an annular shoulder comprising the outer wall of said channel, said shoulder being inclined upwardly from the floor of said channel and complementarily to the bevel of said lip, said shoulder normally loosely abutting said lip, said shoulder being urged further outwardly to press snugly against said lip as said arch is urged into substantially planar shape by the screwing action of said cap, and a planar lip on said liner surrounding said shoulder and being firmly held against the top edge of the bottle as said cap is screwed on the bottle neck.

**2,716,505**  
**RECEPTACLE OF SHEET METAL**  
Hilding Linde, Kalmar, Sweden  
Application January 23, 1952, Serial No. 267,761  
Claims priority, application Sweden January 27, 1951  
2 Claims. (Cl. 220-69)



1. In a method of manufacturing a receptacle of sheet metal composed of a jacket part, a bottom part and a supporting bottom ring, the steps comprising pressing the

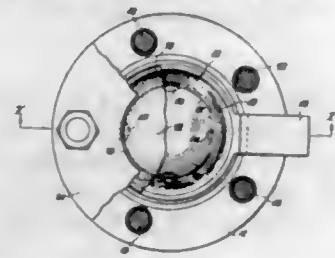


peripheral portion of the bottom part upwardly so as to form an extension of the jacket part in a butt joint between said parts and a smooth inner surface at the joint, grinding the abutting edges of said parts to a plane form, uniting the both parts by means of a welding seam along the outside of the butt joint, placing thereafter the bottom ring around the bottom part in such a position that its upper edge is located immediately below the level of the butt joint, and welding the upper edge of the bottom ring and said welding seam together.

2,716,506

# RUPTURE DISC ASSEMBLY FOR HIGH PRESSURE VESSELS

Lester L. Fike, Independence, Mo., assignor to L. L. Fike Metal Products Co., Independence, Mo.  
Application January 16, 1953, Serial No. 331,591  
4 Claims. (Cl. 220-89)



1. In a safety device for pressure systems having a relief opening, a frangible, concavo-convex diaphragm yieldably responsive to pressures and suctions acting thereon, and means mounting said diaphragm in sealed relation with said opening, the improvement of which comprises structure for preventing said diaphragm from buckling in one direction and bursting in response to pressure acting thereon on the convex side thereof and suction acting thereon on the concave side thereof, said structure including a device of bendable material having an arcuate slot, presenting a rigid, concavo-convex member and a rigid annulus surrounding the member and integrally joined thereto along a single line of bend between the ends of the slot for swinging movement of the member relative to the annulus on said line of bend, the convex side of said member being disposed in complementally seated engagement with said diaphragm on said concave side of the diaphragm for swinging movement on said line of bend in a direction toward the diaphragm in response to pressure on said concave side of the diaphragm; a number of inwardly extending ears on the annulus traversing the slot and engaging the member on its concave side for supporting the member against swinging movement on said line of bend in a direction away from the diaphragm in response to pressure on said convex side of the diaphragm and suction on said concave side of the diaphragm; and means rigidly mounting said annulus.

2,716,507

# LIQUID DISPENSERS

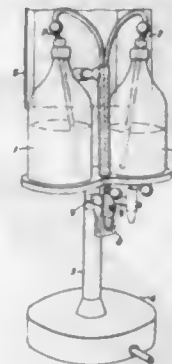
Kendal Henry Graves, London, England, assignor to W. H. Heath Limited, London, England, a British company

Application September 5, 1951, Serial No. 245,153  
Claims priority, application Great Britain  
September 7, 1950

2 Claims. (Cl. 222-129.2)

1. In an apparatus for mixing liquids such as water and fruit essence in desired proportions and for dispensing the resulting mixture comprising a base, a tubular column mounted on the base, means providing a tubular laterally-extending mixing chamber mounted on said column, said chamber having an inlet end toward the column and a mixture-delivery end away from the column, a pipe for supplying water under pressure to the inlet end of the tubular mixing chamber, said pipe extending through said base and column and connected

into the inlet end of the tubular mixing chamber, a valve in said pipe for adjusting the pressure of the water supplied therethrough to the chamber, a mixture delivery valve at the delivery end of said mixing chamber, a fruit essence inlet connection opening into the lower portion of the mixing chamber at its inlet end, a tray supported by said column above the mixing chamber, a fruit essence bottle supported on said tray, a tube for the delivery of fruit essence from the bottle to the essence inlet connection, one end of said tube extending into the fruit essence in the bottle and the other end being connected to said inlet connection, the arrange-

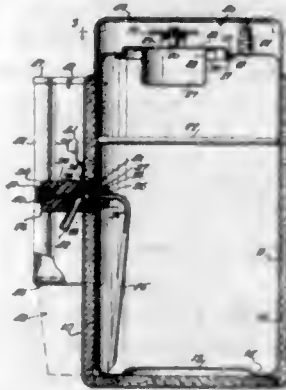


ment being such that when the delivery valve is opened and the pressure in the mixing chamber relieved water under pressure flows from the water pipe across the outlet of the essence inlet connection at the inlet end of the mixing chamber and induces a flow of fruit essence into the mixing chamber where it is mixed with the incoming water from said pipe, and a non-return valve in the fruit essence inlet connection for preventing the flow of mixture from the mixing chamber into the fruit essence delivery tube and bottle when the mixture delivery valve is closed and pressure builds up in the mixing chamber.

2,716,508

# PORTABLE BEVERAGE DISPENSER

Jack J. Booth, Dallas, Tex.  
Application December 11, 1950, Serial No. 200,194  
1 Claim. (Cl. 222-131)

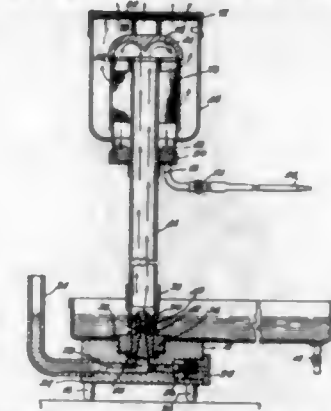


A portable dispenser for precooled beverages, comprising a tank having an annular trough in its bottom and an opening in its top, a closure for said opening, a peripheral seal for said closure, means for drawing said seal into sealing engagement with the underside of the top of said tank, an insulating shell encasing the walls and bottom of said tank and terminating short of the top thereof, a CO<sub>2</sub> gas inlet valve in said tank top, a dispensing valve communicating with the interior of said tank, above its midsection, a beverage pick-up tube connected to said dispensing valve within said tank and extending into said annular trough, an annular bead formed in the wall of said tank defining a beverage level indicator above said dispensing valve, valve means for automatically exhausting excess gas from said tank when the pressure in said tank exceeds a predetermined value, and an insulated cover having an annular flange frictionally engaging the upper portion of said tank and effective to conceal said closure, said inlet valve and said valve means.

2,716,509

# FLUID HANDLING APPARATUS

Waldo A. Saul, Lexington, Mass.  
Application July 30, 1953, Serial No. 371,287  
6 Claims. (Cl. 222-173)

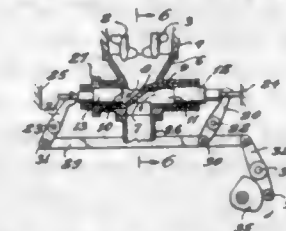


1. An apparatus of the class described comprising a fluid container, a fluid dispensing head mounted in spaced relation above the container, said fluid dispensing head being formed with a fluid reservoir having a dispensing outlet, means for producing a flow of fluid material from the container through the dispensing head, said means including a base member mounted at the underside of the said fluid container, a tubular body supported and extending upwardly into the fluid container element, a suction member received in the tubular body and having openings formed therein for permitting passage of a fluid from the said container element into the suction member, and said base member having conduit means therein for conducting a stream of compressed gas through the suction element.

2,716,510

# DOSING APPARATUS

Wilhelm Massmann, Dusseldorf, Germany, assignor to Benz & Hilgers Maschinenfabrik, Dusseldorf, Germany, a firm  
Application August 16, 1950, Serial No. 179,809  
Claims priority, application Germany August 22, 1949  
8 Claims. (Cl. 222-227)



1. A dosing apparatus for easily-moulded and like materials comprising in combination a container, a dosing cylinder at one end of said container, conveyor means within said container adapted for feeding material under pressure from said container to said dosing cylinder, said dosing cylinder being divided into two entirely separate dosing chambers and being rotatable upon its own longitudinal axis so as to bring each said dosing chamber successively into a filling position and then into an emptying position, adjustable means for dosing the said material into one of the chambers of the said cylinder being in the filling position and pressure means for emptying the said material from the other of the chambers of the said cylinder being in the emptying position, and said container having a dispensing outlet alternately in communication with either one of said dosing chambers.

2,716,511

# LIQUID-DELIVERY TUBE

Leon M. Leathers, Athens, Ga., assignor to L. M. Leathers' Sons, Athens, Ga., a partnership  
Application April 24, 1953, Serial No. 351,005  
16 Claims. (Cl. 222-529)

1. A liquid-delivery tube useful for conducting liquid from a bulk-liquid container to a discharge outlet of a

liquid dispenser apparatus, said tube comprising an elongated tubular wall having an inlet end adapted to be attached to said container and a delivery end adapted to be inserted into said discharge outlet, said wall defining a fluid-flow passage extending from said inlet end to said

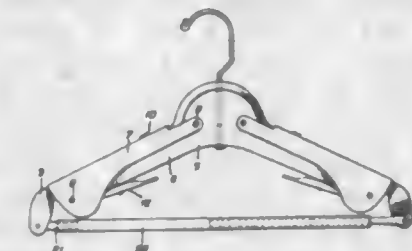


delivery end, a hood-like flange extending from and surrounding said wall adjacent said delivery end whereby said flange can overlie the mouth of a discharge outlet into which said delivery end is inserted, and a removable protective covering enclosing said delivery end.

2,716,512

# ADJUSTABLE COAT HANGER

Henry L. Needles, Wethersfield, Conn.  
Application September 22, 1953, Serial No. 381,725  
3 Claims. (Cl. 223-89)

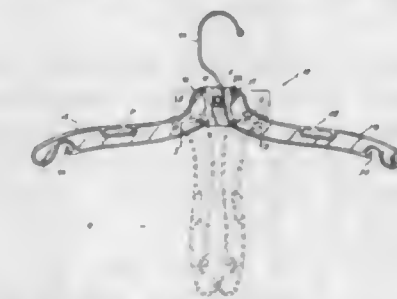


1. A garment hanger comprising a pair of oppositely extending, downwardly sloping fixed arms, an inverted channel-shaped guide secured on top of each fixed arm, an extension arm slidable inwardly and outwardly between each fixed arm and each guide, one of the arms of each pair of fixed and slidably related extension arms having a row of recesses therein, a locking dog carried by each of the other of said pair of fixed and slidably related extension arms and lockably engaged in a selected recess, and spring means supported by each guide and urging a related dog in locked position.

2,716,513

# GARMENT HANGER

Paul Braunstein, New York, N. Y.  
Application December 5, 1952, Serial No. 324,291  
1 Claim. (Cl. 223-94)

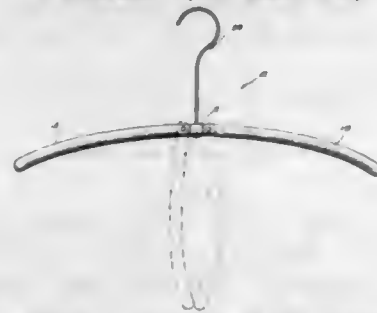


A garment hanger comprising an upstanding support fabricated wholly of resilient material, said support being



provided with opposed slots extending longitudinally of and inwardly from the side edges thereof, a pair of arms arranged in end to end spaced relation and each having the facing end extending into the corresponding one of said slots and pivotally connected to said support for movement from the end to end spaced relation position to a collapsed side by side position, a hook projecting from the upper end of said support for engagement with a supporting rod, and interengaging means on the facing ends of said arms and on said support for holding said arms in the end to end spaced relation position, said interengaging means including a nub spaced above the pivotal connection of said arms and projecting from the side of the facing end of each of said arms and engageable with a complementary opening formed inwardly from the free end of said support when said arms are in the end to end spaced relation position for holding said arms in the latter position.

**2,716,514**  
**GARMENT HANGER**  
Paul Braunstein, New York, N. Y.  
Application December 5, 1952, Serial No. 324,292  
1 Claim. (Cl. 223—94)



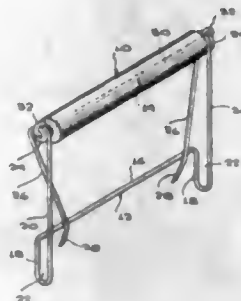
A garment hanger comprising an upstanding support, a pair of vertically disposed ribs projecting from opposite sides of said support, a pair of arms arranged in end to end spaced relation and having the facing ends bifurcated, each of the bifurcated ends of said arms embracingly receiving the corresponding one of said ribs and pivotally connected thereto for movement of said arms from the end to end spaced relation position to a collapsed side by side position, a hook projecting from the upper end of said support for engagement with a supporting rod, and interengaging means on the facing ends of said arms and on said support for holding said arms in the end to end spaced relation position, said means including a spring biased detent carried by the portion between the legs of the bifurcation of each of said arms and engageable with a notch formed in the edge of the corresponding one of said ribs when the arms are in the end to end spaced relation position for holding said arms in the latter position.

**2,716,515**  
**FAST-THREADING NEEDLE WITH TRAILING FLEXIBLE LINK**  
Leon Marcoff Moghadam, Washington, D. C.  
Application January 14, 1955, Serial No. 481,869  
2 Claims. (Cl. 223—102)



1. In a device of the class described comprising a needle, a resilient threading loop comprising a pair of strands, one end of the pair of strands attached to said needle at the end of the needle remote from the point, the free end of the pair of strands of the loop being twisted together at that end of the threading loop remote from the attachment to said needle, said twists being larger adjacent the threading loop and being smaller remote from the threading loop providing means for engaging and clamping threads of varying sizes.

**2,716,516**  
**HANDLE ATTACHMENT FOR BAG CONTAINERS**  
Sydney R. Weston, Washington, D. C.  
Application June 24, 1952, Serial No. 295,245  
1 Claim. (Cl. 224—45)



A handle attachment for a bag container comprising a spring wire bent to form a straight bight at its medial portion, a downwardly extending short leg portion connected at each end of said bight, a long leg portion connected to each short leg portion at its end remote from said bight, said long leg portion being upwardly extending to form with said short leg portion a slot open upwardly and longitudinally disposed relative to said bight, each of said long leg portions being bent on itself to form a coil at its upper end remote from said slot, a locking arm integral with and connected at its upper end to said coil and being disposed downwardly substantially longitudinally with said long leg portion, each of said locking arms so formed being biased by said coil toward said bight and normally meeting said bight at a point inwardly from and adjacent to its connection with said short leg portions, each of said locking arms terminating in an angularly pointed finger bent toward said bight and being adapted and arranged to penetrate the folded-over upper end of a bag container having its folded-over portion received in said slots at each end of said bight and being supported by said bight in the groove formed by the folded-over portion and the remainder of the upper end of the bag container, said fingers being adapted and arranged to prevent displacement of the folded-over portion from said slots, and a handle disposed between said long leg portions including a straight wire formed with a loop at each end, each of said loops loosely engaging one of said coils for support thereof.

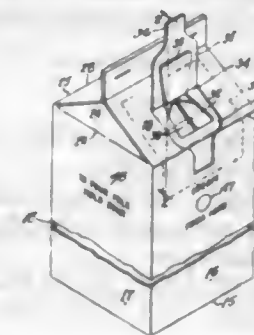
**2,716,517**  
**FILLING NOZZLE FOR APPARATUS FOR FILLING CONTAINERS WITH LIQUID**  
Charles Tollberg, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York  
Application July 6, 1951, Serial No. 235,547  
12 Claims. (Cl. 226—124)

1. A filling nozzle for container filling apparatus having a filling platform and a superposed liquid reservoir, at least one of which is vertically movable, said nozzle being adapted to depend from the reservoir and comprising: a vertically movable assembly having a vent passage and a liquid passage extending there-through, said liquid passage having a discharge outlet adjacent the lower end of said assembly for positioning within and adjacent the bottom of a container to be filled and said vent passage having an inlet above said discharge outlet for positioning within and adjacent the mouth of the container; means on said assembly engageable by the container for raising said assembly; normally closed valve means controlling said liquid passage and being opened by the terminal up-

ward movement of said assembly; normally closed valve means controlling said vent passage and being opened by the initial upward movement of said assembly; and means forming a normally-expanded contractible chamber in communication with said vent passage above said vent passage valve means, said chamber being mounted at least in part on said assembly for expansion and contraction upon upward and downward movements, respectively, of said assembly.



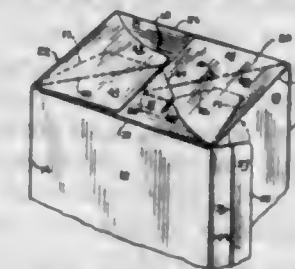
**2,716,518**  
**PAPER MILK CONTAINER WITH CREAM SEPARATING ATTACHMENT**  
Carl N. Bergstrom, Portland, Oreg.  
Application July 28, 1954, Serial No. 446,260  
4 Claims. (Cl. 229—7)



1. In a milk container having opposed pairs of flexible side walls and an inwardly foldable top including at least one section hingedly secured to one of said side walls, a cream separator comprising gate means hingedly secured along the bottom edge transversely to the inner surface of at least one of the side walls to which a top section is hingedly secured, a spaced distance below the foldable top and pivotable between elevated position adjacent the container side wall and lowered position transversely of the container, the gate means being so proportioned that when in said lowered position it divides the container into upper and lower compartments, at least one edge of the gate means being tapered inwardly intermediate its end to form a bypass between the lowered gate means and the adjacent container wall of the other opposing pair of side walls, and actuator means hingedly connected at its lower end to the gate means and extending upwardly therefrom for engagement at its upper end with the foldable top section which is hinged to the same side wall as the gate means, the actuator means thereby being movable vertically by movement of the foldable top, the combined length of the associated top section and actuator means being greater than the length of the gate means which is hingedly connected to the same side wall as the corresponding top section, and the actuator means being proportioned in length sufficient to move the gate means into said lowered position upon inward folding of the container top, said bypass being subject to closing under inward pressure against the side walls of the

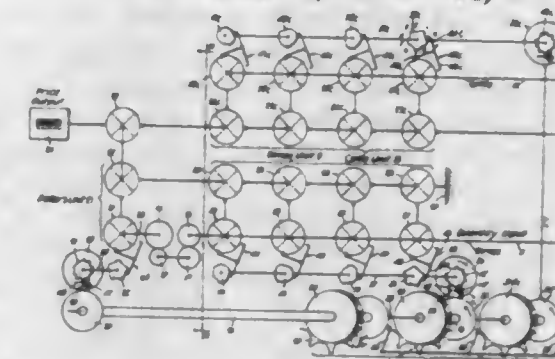
container adjacent the tapered edges of the gate means to seal the said upper and lower compartments from each other, the container having a pouring spout disposed above the lowered position of the gate means, whereby to permit removal of the contents of the upper compartment when the said bypass is closed.

**2,716,519**  
**COLLAPSIBLE CARTON**  
Bennie A. Rafoth, Appleton, and George E. Wanda, Neenah, Wis., assignors to Marathon Corporation, Menasha, Wis., a corporation of Wisconsin  
Application March 16, 1953, Serial No. 342,656  
2 Claims. (Cl. 229—39)



1. A paperboard blank for forming a collapsible carton comprising a single blank suitably cut and scored to provide opposed pairs of carton side walls arranged to form a rectangular sleeve when folded and connected, each of said side walls having hingedly connected to the bottom end edge thereof a bottom flap, said bottom flaps being adapted to form a bottom closure for the carton when secured together and the carton side walls are formed into such sleeve, one alternate pair of said bottom flaps each being scored diagonally and in the same direction to provide a bottom glue panel hinged to a bottom flap along such diagonal score line, each of said glue panels extending toward a different one of the other alternate pair of bottom flaps and having its surface which will lie to the interior of the carton adapted to be adhered to that surface of the bottom flap toward which it extends which will lie to the exterior of the carton, one of the bottom flaps of the other of said alternate pairs being of dimension to substantially close the bottom end of the rectangular sleeve, and the other bottom flap of said other alternate pair having an inwardly-extending V-shaped notch in that edge thereof opposite its hinge connection to a side wall and a slit extending inwardly from the apex of the notch, a bottom flap of said one alternate pair being adapted to interlock within said notch and said slit when the blank is assembled to form said sleeve and bottom closure.

**2,716,520**  
**SALE PRICE COMPUTING MECHANISM**  
Donald S. Kellogg, Great Neck, N. Y., and Russell Walker, Nutley, N. J., assignors to The W. L. Maxson Corporation, New York, N. Y., a corporation of New York  
Application January 18, 1950, Serial No. 139,204  
14 Claims. (Cl. 235—61)



1. In a multiplying machine, the combination with a single primary multiplier input member through which

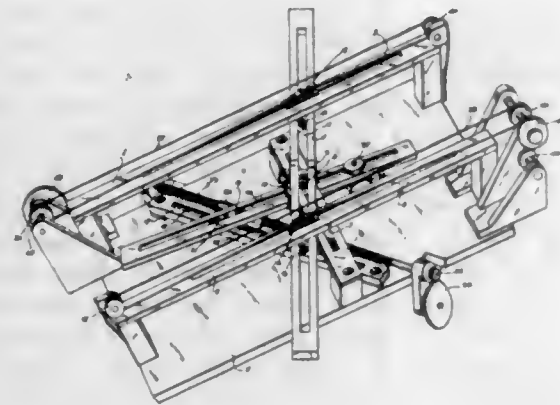


the entire multiplier is continuously run in and a single product output member, of a single selective gear transmission train between said members to transmit the input to the output member in any one of a multiplicity of selected ratios, said transmission train comprising a plurality of decimal denomination transmission units connected to have constant relative weights of 10 to 1, each of said units including an input shaft and an output shaft and a set of differentials interposed between the input and output shafts, each differential having a characteristic individual input value, said values within a portion at least of the decimal units forming the terms of a continuous geometrical series whose common ratio is 2, said differentials adapted to be coupled for input purposes either individually or in combination, means constantly connecting the input shaft of each decimal denomination unit to be driven from the primary input member in a fixed characteristic ratio, and multiplicand setting means including a separate and independent setting mechanism for each of said denomination units each disposed to act upon the differentials of a single decimal unit and each rotatable to change the connection between the input and output shafts of its associated decimal unit by successive increments of one digit in that denomination.

2,716,521

## MECHANICAL MULTIPLIER

William C. Brown, Ottawa, Ontario, Canada  
Application September 8, 1953, Serial No. 379,050  
10 Claims. (Cl. 235—61)



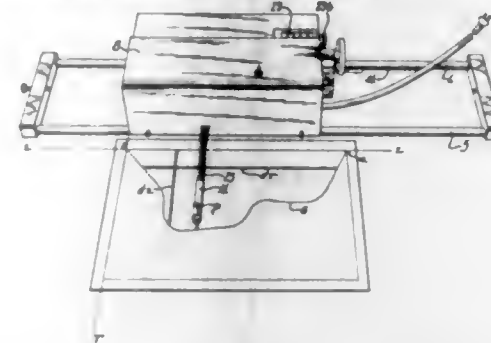
1. A combined mechanical multiplier and divider comprising two rigidly held, parallel, main guide members; two main carriages respectively mounted for movement parallel to one another along each of said main guide members; an input drive means serving to cause said movement of one of said main carriages; said movement of the other of said carriages serving to operate an output drive means; a cross guide member rigidly mounted along a straight line crossing both of said main guide members; a variable-ratio, drive-transmitting member extending across both of said main guide members, slidably pivotally connected to each of said main carriages and pivotally connected to said cross guide member by a pivot member adjustable along the length of said cross guide member; a secondary guide member rigidly mounted along a line crossing both of said main guide members other than the line along which said cross guide member is lying; a secondary carriage mounted for movement along said secondary guide member; a ratio-varying member rigidly connected to said pivot member, slidably pivotally connected to said secondary carriage on one side of said pivot member and pivoted at a point on the other side of said pivot member; and drive means serving to move said secondary carriage along said secondary member.

2,716,522

## CALCULATOR FOR COMPUTING VOLUMES OF REVOLUTION

Murray D. Brald, Mentor, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application October 9, 1953, Serial No. 385,211  
10 Claims. (Cl. 235—61)



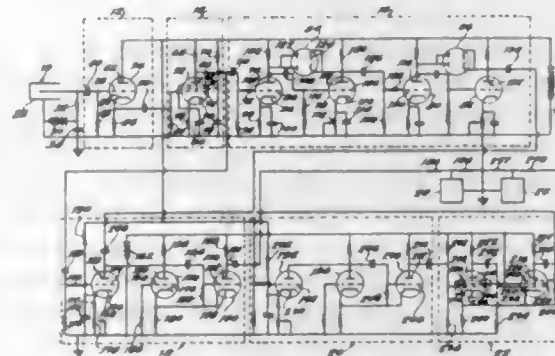
1. A calculator for the automatic computation of the volume of revolution of a curve  $S$  about an axis  $x$  and having a varying radius  $r$ , which comprises a tracer point for tracing said curve, said tracer being connected to the disk and the ball carriage of a ball and disk integrator to provide a varying output at a rotating output shaft, a rail means for carrying said integrator in a direction parallel to the  $x$  axis, means for moving said carriage and said integrator along said rail, a second ball and disk integrator having its ball carriage connected to the output shaft of the first integrator and having its disk geared to said rail to correlate the rotation of said disk with the travel of said carriage relative to said rail, and a revolution counter secured to the output shaft of said second integrator for indicating the volume of revolution of said curve upon completion of the tracing thereof.

2,716,523

## DEVICE FOR COUNTING ALPHA AND BETA PARTICLES

Garth E. Driver, Richland, Wash., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application June 15, 1951, Serial No. 231,735  
10 Claims. (Cl. 235—92)



9. A device for detecting alpha and beta particles from a common source comprising, in combination, means for producing an electrical pulse for each alpha and beta particle emanating from said source, a first multivibrator connected to the means for producing electrical pulses having sufficient sensitivity to be triggered only by the alpha particle produced pulses and producing pulses of uniform time duration, a second multivibrator connected to the means for producing electrical pulses having sufficient sensitivity to be triggered by both the alpha and beta particle produced pulses and producing electrical pulses of shorter time duration than the first multivibrator, and a gated multivibrator connected to the first and second multivibrators, said gated multivibrator being triggered by the pulses produced by the second multivibrator and inactivated by the pulses produced by the first multivibrator, whereby the pulses produced by the first multivibrator are responsive to the alpha particles emanating

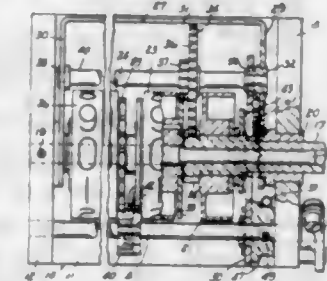
from the source and the pulses produced by the gated multivibrator are responsive to the beta particles emanating from the source.

2,716,524

## NUMERAL WHEEL ALIGNING MECHANISM

Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root, Incorporated, Hartford, Conn., a corporation of Connecticut

Application June 2, 1952, Serial No. 291,271  
14 Claims. (Cl. 235—139)



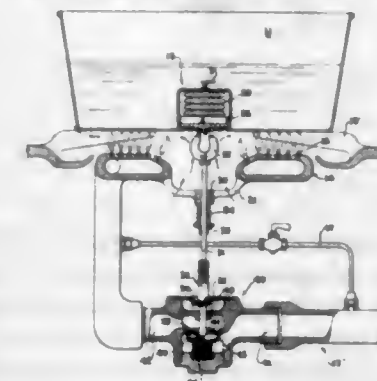
1. In a counter, first and second counterwheel units mounted for relative rotation about a common axis, a first gear element mounted for rotation with said first unit, a second gear element mounted for rotation with said second unit, a transfer gear unit in mesh with said first and second gear elements, means for supporting said transfer unit for planetary movement about said common axis, a series of numbers carried by said counter units, cam means rotatable with said first counter unit having spaced portions individually corresponding to the various numbers on said first unit, and means associated with said transfer unit supporting means and engageable with said spaced portions to govern the planetary movement of said transfer unit about said common axis.

2,716,525

## AUTOMATIC TEMPERATURE CONTROL FOR BURNERS

Harlow V. Ayres, San Jose, Calif.

Application April 16, 1951, Serial No. 221,307  
8 Claims. (Cl. 236—20)



7. In a cooking appliance including a source of heat communicating with a fuel supply line and means for supporting a non-magnetic vessel containing fluid over said source of heat, the combination with a regulator in said fuel supply line and operatively associated with a magnetically attractable means mounted in said appliance below and for movement toward and from the bottom wall of said vessel, of an independent mobile temperature responsive unit comprising an inverted cup-like container having its open bottom resting on the bottom wall of said vessel and within the fluid contained in said vessel, said cup-like container having a perforated base wall opposite its open end, a temperature responsive bellows having one end thereof secured to the base wall of said cup-like container for suspension therefrom within the side wall of said container, a magnetic element secured to the opposite end of said bellows within said vessel for movement by said bel-

lows toward and from the bottom wall of said vessel to shift the field currents of said magnet element into and out of a zone in which they are effective or ineffective to respectively attract or release the magnetically attractable means to thereby cut off or admit the flow of fuel from said fuel supply line to said source of heat.

2,716,526

## RENEWABLE TIP PULVERIZER HAMMER

John H. Baker, Park Forest, Ill., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware

Application September 17, 1952, Serial No. 309,993  
8 Claims. (Cl. 241—197)



1. A hammer of the character described, comprising a head portion having a passage extending through the portion from top to bottom for receiving a hammer shank, the head portion and shank having a recess respectively and which are disposed in communicating relation when the head portion is operatively positioned on the shank, at least one key member adapted for location in the communicating recesses whereby to interfit with the head portion and shank for holding the head portion on the shank in a manner to prevent movement of the head portion along the shank in a certain direction, and a pin adapted to have location in an opening in the shank for locking the head portion on the shank in said operative position.

2,716,527

## APPARATUS FOR AIRCRAFT-REFUELLING IN FLIGHT AND AIRCRAFT-TOWING

Cecil Hugh Latimer-Needham, Broadstone, England, assignor to Flight Refuelling Limited, London, England, a British company

Application August 21, 1951, Serial No. 242,803  
Claims priority, application Great Britain  
August 29, 1950  
3 Claims. (Cl. 244—3)



1. Apparatus for coupling and uncoupling two aircraft in flight, for example, for flight refueling or/and towage purposes by means of a self-engaging plug and socket coupling; said apparatus comprising a funnel-like coupling socket member recessed into an opening in the structure of one of the aircraft to be coupled together, means supporting said socket member within said structure with the axis of the socket member substantially parallel to the line of flight but susceptible of slight universal pivotal movement about an inwardly disposed portion of said socket member; means retaining said socket member against projection thereof substantially beyond the boundary surface of said aircraft structure, sealing



means between the margins of the mouth of said socket member and the adjacent margins of the opening in the aircraft structure, said sealing means being adaptable and conformable to the limited universal pivotal movement of the socket member to maintain the seal during such movement, spring loaded latch members mounted on said socket, an extending telescopic boom mounted on the other of said aircraft, boom mounting means including a universal joint and spring centering means tending to hold the boom substantially parallel to the line of flight, and a coupling plug mounted on the extremity of said boom and having a circumferential groove engageable by said spring loaded latch members on said socket member upon bringing the plug and socket member into cooperative relationship.

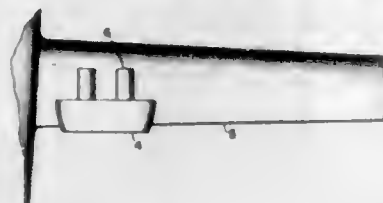
2,716,528

# WING-MOUNTED JET NOZZLE FOR AIRCRAFT PROPULSION AND SUSTENTATION

David M. Hammock, Falls Church, Va.

Application December 17, 1953, Serial No. 398,831

1 Claim. (Cl. 244—12)



In combination with a sustaining airfoil, a jet device mounted thereon and arranged to discharge fluid rearwardly of said airfoil, said device comprising an inner nozzle and an outer annular nozzle, said annular nozzle having an intake end and a discharge end and being coaxial of and encompassing said inner nozzle, whereby a discharge of energized fluid from said inner nozzle will induce a flow of air through said annular nozzle, said intake end being located adjacent the rear portion of the upper surface of said airfoil, whereby to produce a rearward flow of air over the upper surface of said airfoil into said intake end when energized fluid is discharged from said inner nozzle.

2,716,529

# SEALS FOR CLOSURES OF PRESSURIZED COMPARTMENTS

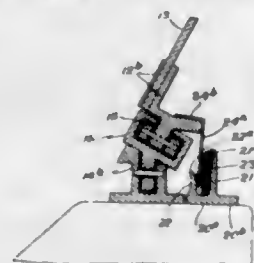
Waclaw Czerwinski, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation

Application January 29, 1953, Serial No. 333,855

Claims priority, applications Canada and Great Britain

June 17, 1952

8 Claims. (Cl. 244—121)



1. Sealing means for an opening in a pressurized compartment comprising a closure for the opening having its rim cooperating in fitting relationship with the rim of the opening, generally parallel spaced apart walls on one of the rims and defining a channel, a flexible blade projecting from the other rim into the channel to touch one of the walls, and an expansible element disposed in the channel between the blade and the other wall and expansible to press the blade against the first-mentioned wall to provide a seal between the rims.

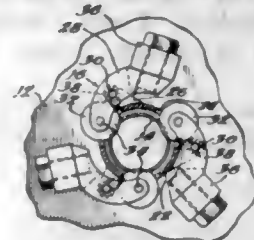
2,716,530

# SUPPORT FOR A TUBE CUTTING DEVICE

Paul E. Lowe and Henry J. Bellarts, Richland, Wash., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application April 17, 1952, Serial No. 282,786

1 Claim. (Cl. 248—14)



Apparatus for supporting a rotatable tube cutter and motive means therefor, said apparatus comprising a yoke, adjustable screws at the apex and ends of the yoke, seats connected with the screws and being engageable with tubes above and at opposite sides of the yoke, the seats on the screws at the ends of the yoke facing outwardly away from the yoke, the seat on the screw at the apex of the yoke facing inwardly of the yoke, a cross member secured to the yoke, and means for supporting the motive means on the cross member.

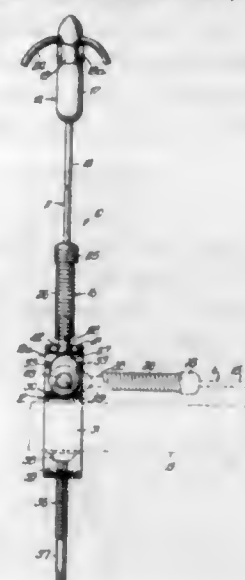
2,716,531

# CORD HOLDER

Leonard Johnson, Chicago, Ill.

Application April 22, 1953, Serial No. 350,414

1 Claim. (Cl. 248—51)



In an ironing cord holder for engagement to an ironing board; a clamp of generally C-shaped contour of thin metal bar stock having a lower leg, an upper leg, and means for securing said clamp to an ironing board; an upright member integral with the end of said upper leg, said upright member including a flat section, an angularly bent section above said flat section, and a return bent end at right angles to said flat section, said return bent end being provided with a notch; a fitting member having a round cross section shank and a flattened end portion which is thinner than the diameter of the shank; a pin for pivotally securing said fitting member to said upright member with the flattened end abutting said upright member flat section and with said shank adapted to be held in upright, latched position in said notch, whereby said angularly bent section prevents contact between said shank and said upright member except in said notch; a spring on said pin for urging said fitting member against said upright member; and a pair of lugs extending from the lateral margins of said upright member disposed below said return bent end adapted to coact with said fitting member and said spring to yieldingly prevent upward pivoting of said shank of said fitting member out of unlatched position.

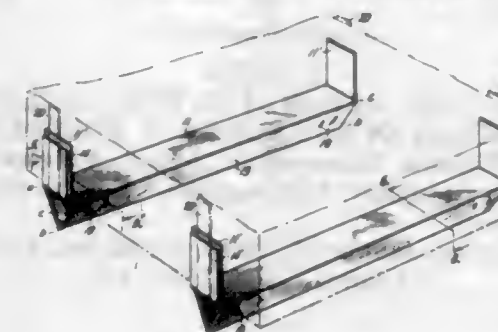
2,716,532

# DISPOSABLE SKIDS

Paul V. Wyson, Jr., Kansas City, Kans., and William S. Callaway, Kansas City, Mo., assignors to Gustin-Bacon Manufacturing Company, a corporation of Missouri

Application January 21, 1950, Serial No. 139,844

2 Claims. (Cl. 248—120)



1. A disposable tubular skid adapted to be secured across the bottom of an article to be carried by means of a flexible strap threaded through the tube and encircling the article comprising a rigid tube constructed of fiberboard and having a triangular cross section, said tube being open at both ends, one wall of said tube adapted to engage said article and being of double thickness throughout the length of the tube, and outwardly projecting double thickness flaps integral with the ends of said one wall and adapted to lie between the article and the straps.

2,716,533

# DISPLAY FITTINGS AND STANDS

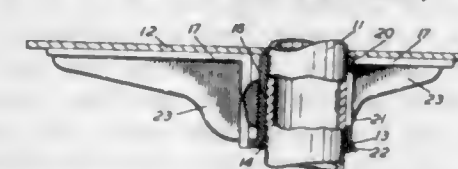
Alfred Freeman, Isham, England, assignor of one-half to Richard Gent Limited, Wellingborough, England, a British company

Application October 21, 1950, Serial No. 191,335

Claims priority, application Great Britain

October 24, 1949

2 Claims. (Cl. 248—221)



1. A display fitting assemblage for use with an upright comprising a resilient deformable ring frictionally retained on the upright at the desired location, a sleeve having an outer face and an inner face fitted around the upright above the ring, the inner face of the sleeve having an internal chamfer adapted to receive said ring, the outer face of the sleeve having dove-tail slots disposed annularly in spaced relationship therearound, each slot tapering downwardly from the upper end of the sleeve, a plurality of load bearing arms, each formed at one end with an upwardly tapered rib of dove-tail cross-section, each in removable interlocking engagement with one of the said slots, and a support plate with a central bore surrounding the upright and resting on said load bearing arms whereby a load on said plate forces the arms into tighter engagement with the sleeve and causes the sleeve to deform the ring and the fitting thereby to be more tightly gripped on said upright.

2,716,534

# VOLUMETRIC FILLING MACHINE

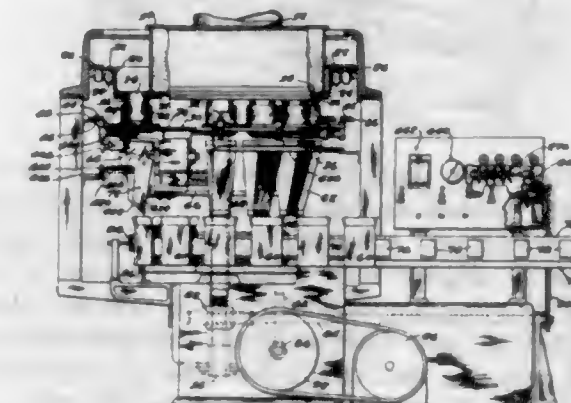
Thomas P. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application September 9, 1953, Serial No. 379,116

23 Claims. (Cl. 249—18)

1. In a machine of the character described, in combination, a plurality of measuring chambers mounted to be continuously moved in a closed path, check weighing

means operative during one period of operation and mounted to be continuously moved in a closed path, means for delivering a measured load from one of the measuring chambers to said check weighing means during the continuous movement of both, means operative during a succeeding period of operation for varying the volume of said plurality of measuring chambers in the event that the check weighing operation indicates a deviation



tion from a predetermined weight of the weighed load beyond predetermined limits, and means for selectively controlling said volume varying means to produce a relatively small volume variation when the check weighing operation indicates a relatively small weight deviation from a predetermined weight, and to produce a relatively large volume variation when the check weighing operation indicates a relatively large weight deviation beyond said predetermined limits.

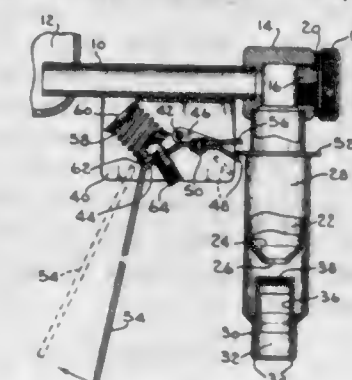
2,716,535

# DISPENSING VALVE

Edward C. Ehke, Milwaukee, Wis., assignor to A P Controls Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application February 18, 1952, Serial No. 272,180

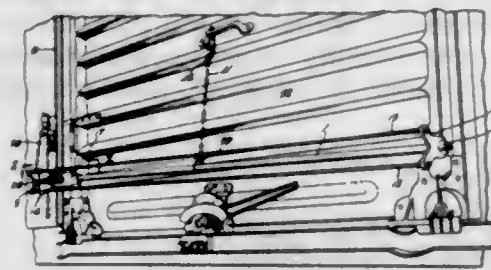
3 Claims. (Cl. 251—156)



1. A liquid dispensing valve comprising, in combination, a depending supply tube having an orifice at its lower end, a sleeve slidably mounted on the exterior of said tube for rectilinear movement and depending below said orifice, a valve support fitting in the lower end of said sleeve, a valve head at the upper end of said support adapted to cooperate with said orifice to regulate flow from the supply tube, said support cooperating with said sleeve to direct flow from the orifice out the lower end of the sleeve, a fulcrum fixed with respect to the supply tube, a lever mounted on said fulcrum and having one end in the form of a yoke, a flange on the upper end of the sleeve and normally projecting into the yoke, the other end of the lever being positioned for manual actuation, said lever being movable about the fulcrum to move the yoke in an arcuate path to move the sleeve towards and from the valve seating position and being movable to an extreme position in which the yoke is moved out of the rectilinear path of movement of the flange to permit removal of the sleeve from the tube for cleaning and means biasing the lever in a direction to move the sleeve towards the valve seating position.

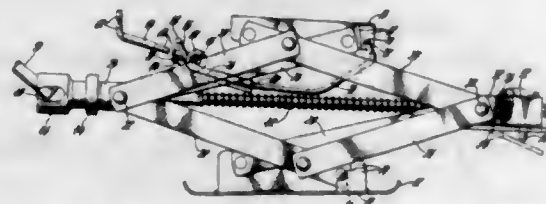


**2,716,536**  
**DOOR JACK**  
 Odlin Edmond Gonzales, Temple City, Calif.  
 Application June 25, 1953, Serial No. 364,173  
 2 Claims. (Cl. 254—106)



1. A door jack comprising: a slide bar; a pry plate rigidly fixed to each end of said slide bar, and extending laterally therefrom, each of said pry plates including longitudinally aligned load engaging portions; a tie rod extending between and rigidly fixed to said pry plates in parallelism with said slide bar at the side thereof opposite said load engaging portions; a movable pry plate slidably mounted on said slide bar intermediate its ends; a jack housing formed integral with said movable pry plate and slidably mounted on said slide bar; and a lever operated inching device mounted within said housing.

**2,716,537**  
**SCISSORS JACK**  
 David A. Galonska, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
 Application June 8, 1949, Serial No. 97,895  
 13 Claims. (Cl. 254—122)



1. A jack having a top pad and a bottom pad with facing inner sides, a linkage connected between said top and bottom pads, means to expand said linkage to raise said top pad, a guide and handle member having an inner portion pivoted to the inner side of one of said pads and extending between said pads, said member having an end portion pivoted to the inner portion beyond said pads and being foldable over the outer side of said one pad.

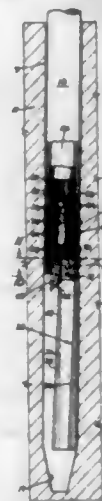
**2,716,538**  
**SOIL LOOSENING IMPLEMENT**  
 William G. Arrowood, Hawthorne, Calif.  
 Application February 18, 1953, Serial No. 337,532  
 4 Claims. (Cl. 254—131.5)



1. An implement of the class described, comprising: a U-shaped support element having an upper horizontal step portion, a lower horizontal rest portion and a vertical connecting portion, said step portion having an aperture therein, the intersection of said rest portion and said connecting portion being arcuate and providing a fulcrum by which the element can be pivoted upon the ground; a vertical stem extending downwardly through said aper-

ture with its lower end abutting said rest portion, the portion of the stem at said aperture being retained therein by welding and said lower end being secured to said rest portion by welding; and a relatively narrow, substantially vertical blade welded to the ends of said step and rest portions and extending below said support element, the lower end of said blade having a sharp cutting edge.

**2,716,539**  
**METHOD AND APPARATUS FOR DEFLECTING BORE HOLES IN SUB-SURFACE FORMATIONS**  
 Albert F. Pickard, Minneapolis, Minn., assignor to E. J. Longyear Company, Minneapolis, Minn., a corporation of Delaware  
 Application January 7, 1950, Serial No. 137,426  
 4 Claims. (Cl. 255—1.6)



1. The method of deflecting substantially square bottom bore holes of predetermined diameter which comprises determining the amount and angular direction of deflection of said bore hole from a predetermined bore hole direction, drilling the bottom of said hole to a taper, lowering into the bottom of the original hole a guide for deflecting a bit of smaller diameter from the direction of the hole at the point of placement of said guide and orienting said guide angularly for directing said smaller diameter bit in the desired bore hole direction, boring with a smaller diameter bit through the guide thus placed and through the taper and thence onward so as to produce a smaller diameter extension of said bore hole in said desired direction below said taper, removing said smaller diameter bit and guide and reaming out said smaller diameter hole to said predetermined bore hole size.

**2,716,540**  
**BOTTOM ANCHORED DRAIN HOLE DRILLING EQUIPMENT**  
 John S. McCune and William E. Hanks, Long Beach, Calif., assignors to Oilwell Drain Hole Drilling Co., Long Beach, Calif., a corporation of California  
 Application March 31, 1952, Serial No. 279,553  
 1 Claim. (Cl. 255—1.6)

Drain hole drilling apparatus comprising a whipstock section adapted to be lowered into a well and having an inclined face for deflecting a drill bit laterally of said well, a bottom support section carried by and beneath said whipstock section during lowering and adapted to rest on the bottom of said well and support the whipstock section therein, said whipstock section being movable vertically relative to said support section between a pair of upper and lower positions for drilling drain holes at a pair of different elevations, a sliding connection between said sections guiding them for said relative vertical movement and comprising a tubular barrel carried by one section and a plunger carried by the other section and slidably received within said barrel, an enlarged head on said plunger within the barrel, a shoulder on said barrel engageable by said plunger head to prevent vertical separation of the sections, a shear pin extending into said barrel

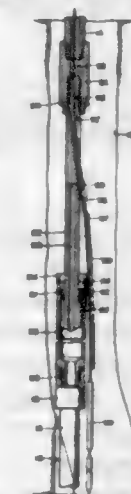
and plunger and initially supporting said whipstock section from said support section in said upper position, said pin being preformed to shear by force exerted against the

other to permit limited deflection of each element relative to its adjacent elements, whereby the drill pipe section may undergo a flexing movement, said connecting means also securing the elements to each other so that rotation may be transmitted through said elements, a flexible hose



whipstock section, and shoulders on said sections engageable to support the whipstock section in said lower position.

**2,716,541**  
**METHOD AND APPARATUS FOR RECOVERING DRILL PIPE FROM WELLS**  
 Edwin H. Helm, Odessa, Tex., assignor to The Dia-Log Tubular Survey Company, Whittier, Calif., a partnership  
 Application January 19, 1953, Serial No. 332,044  
 5 Claims. (Cl. 255—1.8)



1. The method of recovering a drilling string which has become immovably lodged in a key seat which comprises ascertaining the point along the length of the drilling string where it is stuck in the well, detaching the free portion of the drilling string above the stuck point from the stuck portion and removing it from the well, attaching a sub having an opening in its wall to the free portion, running the free portion and sub back into the well and connecting the sub to the stuck portion, lowering an explosive down through the free portion and out through the opening in the sub and down on the exterior of the drilling string to a point opposite the stuck portion, exploding the explosive on the exterior of the drilling string opposite the stuck portion, and removing the stuck portion from the well that has thus been freed by the free portion.

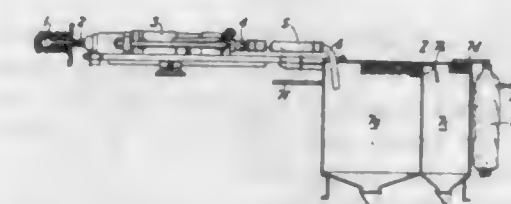
**2,716,542**  
**FLEXIBLE DRILL COLLARS**  
 Ralph W. Goble, Denver, Colo., assignor, by mesne assignments, to Oilwell Drain Hole Drilling Company, Long Beach, Calif., a corporation of California  
 Application January 23, 1952, Serial No. 267,810  
 4 Claims. (Cl. 255—28)

1. A flexible drill pipe section including, a plurality of elements, means for connecting the elements to each



extending axially through said section, a fitting connected to each end of the hose and slidable within the end portion of the bore of the pipe section, and means providing a seal between each fitting and said bore of the pipe section.

**2,716,543**  
**ROCK DRILLING APPARATUS**  
 Arthur T. Holman, Truro, and Morris Oram and Eric Basil James, Camborne, England, assignors to Holman Brothers Limited, Camborne, England, a British company  
 Application June 18, 1951, Serial No. 232,172  
 Claims priority, application Great Britain  
 June 19, 1950  
 5 Claims. (Cl. 255—50)



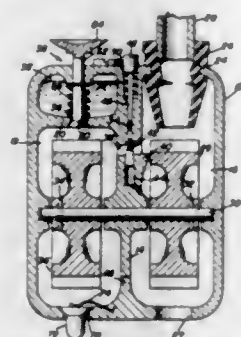
5. A drilling and dust eduction system for mines comprising in combination, a drill bit having a cutting face and at least one interior opening therein communicating with its cutting face, a drill steel having a longitudinal passage aligned with said opening, said opening being smaller in diameter at its entry than the longitudinal passage in the drill steel, a percussive drill carrying said drill steel on the forward portion thereof, a passage extending in a straight line completely through said percussive drill aligned with and having the rear portion thereof of larger cross-sectional area than the cross-sectional area of the longitudinal passage in said drill steel, a dust separator located at a position remote from said percussive drill, a conduit running from said percussive drill to said separator, said conduit having a greater cross-section than said longitudinal passage, and a vacuum generator associated with said dust separator to maintain a partial vacuum throughout said system.

**2,716,544**  
**MIXING VALVE**  
 William M. Exley, Jr., and Arthur W. Howe, Savannah, Ga.  
 Application May 12, 1954, Serial No. 429,199  
 6 Claims. (Cl. 259—10)

1. A lather making and dispensing device comprising a hollow casing, means dividing said casing into first and second chambers, said casing having water inlet and outlet ports opening into said first chamber for passing

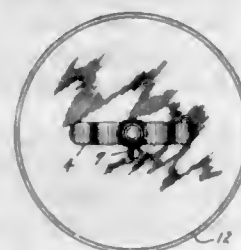


liquid therethrough, means associated with said dividing means for diverting a stream of water into said second chamber from said first chamber, a first water wheel rotatably mounted in said first chamber in the path of the liquid passing through the first chamber, a mixing



wheel rotatably mounted in said second chamber and drivingly connected to said water wheel, means for admitting soap to said second chamber for mixing with the stream of water entering this chamber and forming a lather upon rotation of the mixing wheel, and means for dispensing lather from the casing.

**2,716,545**  
**CHURN AGITATOR**  
Nell Collum Dorrough, Cullman, Ala.  
Application March 23, 1953, Serial No. 343,985  
1 Claim. (Cl. 259—134)

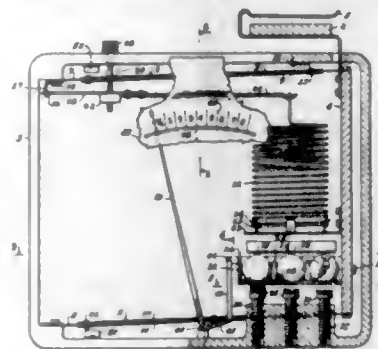


An agitator assembly of the character described for use in combination with a churn comprising, three pieces of tube mounted together telescope fashion, one tube piece being the upper and the largest in diameter, one tube piece being the middle and of less diameter than the upper piece and being of a size to fit slidably in the upper piece, one tube piece being the lower end of less diameter than the middle piece and being of a size to fit slidably within the middle piece, two wing screws mounted in the upper piece and adapted for manual setting to hold the middle piece in fixed position in the upper piece, a wing screw mounted in the middle piece and adapted for manual setting to hold the lower piece in fixed position in the middle piece, a two-wing dasher with a wing screw mounted in its side and attached adjustably on the upper tube piece, a four wing dasher with a wing screw in its side and attached adjustably on the lower tube piece, a second two wing dasher with a wing screw in its side and attached adjustably on the lower end of the lower piece of tube.

**2,716,546**  
**WEIGHING MECHANISMS**  
William Stelzer, Summit, N. J.  
Application April 5, 1954, Serial No. 421,042  
8 Claims. (Cl. 265—68)

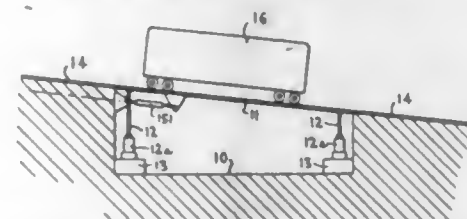
1. An automatic weigher comprising a vertically movable load carrying member for supporting a load to be weighed, a resistant comprising at least one spring having a small rate of increase of force to produce a lifting force to oppose the gravitational force acting on said load carrying member, a plurality of counterweights adapted to be supported by said load carrying member, stationary supporting means arranged to receive said counterweights so that during the descent of said load carrying member said counterweights are successively deposited on said

stationary supporting means to gradually relieve said load carrying member of the burden of said counterweights, each of said counterweights being lighter in weight than a standard unit of weight, the difference in weight between a standard unit of weight and one counterweight being equal to the rate of increase in

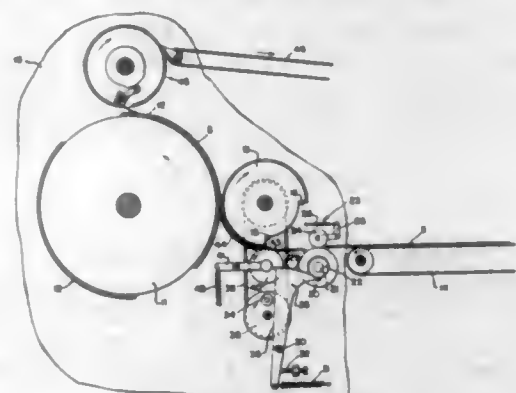


force of said resistant due to the movement of said load carrying member between the deposition of a counterweight and the subsequent deposition of said one weight, and indicating means related to the position of said load carrying member to be indicative of the weight of said load in standard units of weight.

**2,716,547**  
**IN-MOTION WEIGHING OF VEHICLES AND APPARATUS THEREFOR**  
Arthur L. Thurston, Wantagh, N. Y., assignor to Revere Corporation of America, Wallingford, Conn., a corporation of New Jersey  
Application December 16, 1954, Serial No. 475,800  
6 Claims. (Cl. 265—71)



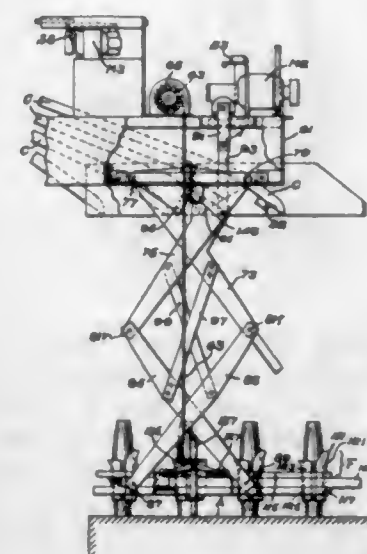
**2,716,548**  
**ROTARY PRINTING PRESS SHEET FEEDING DEVICE**  
Oscar A. Fors, Chicago, Ill., assignor to Steelograph, Inc., a corporation of Illinois  
Application January 31, 1952, Serial No. 269,293  
5 Claims. (Cl. 271—53)



2. An intermittent sheet feeder for a rotary printing press having a plate cylinder and a pressure cylinder,

comprising: a feed roll provided with a driven gear; an idler member constantly yieldingly urged into contact with the feed roll with the contacting portions being positioned in the path of advancing sheets; a feed roll drive including a pivoted bar having a driving connection with said driven gear; driving mechanism for oscillating said bar in timed relation to the rotation of the pressure cylinder; and a gripping roll yieldingly urged into contact with the pressure cylinder with a pressure exceeding the pressure between the feed roll and idler member to grip and advance each sheet to the printing cylinders in opposition to rearward rotation of the feed wheel.

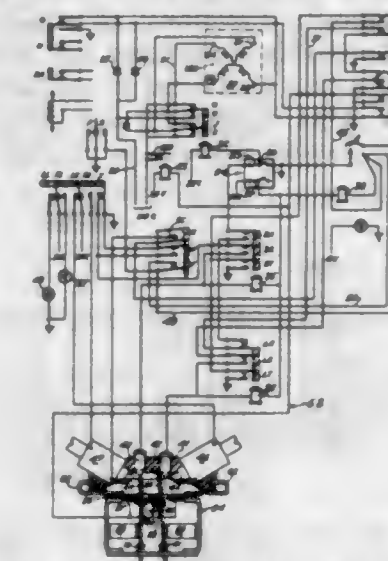
**2,716,549**  
**PIN SETTING MACHINE**  
Frank W. Anderson, North Weymouth, Mass., assignor to Murphy Automatic Pinsetter Co., Inc., Somerville, Mass., a corporation of Massachusetts  
Application December 16, 1949, Serial No. 133,386  
5 Claims. (Cl. 273—43)



1. A pin-setting machine comprising an overhead support above the rear end of the alley, a setter frame having pin holders, the frame being suspended from said support by an expansible and collapsible linkage at either side thereof which is pivotally connected to said frame and support at two horizontally spaced points at either side thereof, power means on the support having driving connections for each linkage to one of the adjacent links thereof for expanding the linkages to move the setter down to the alley through successive parallel positions and for collapsing the same to retract it to raised position adjacent the support, means for supplying pins to the pin holders in the raised position of the setter frame and means for releasing them to the alley in the down position of the frame.

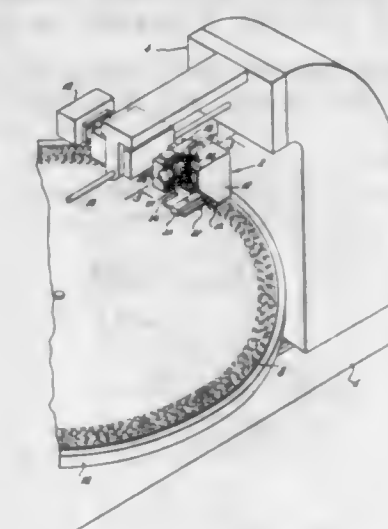
**2,716,550**  
**SELECTORS FOR AUTOMATIC PHONOGRAPHS**  
Herman G. Jensen, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois  
Application December 9, 1949, Serial No. 132,147  
19 Claims. (Cl. 274—10)

1. In an automatic phonograph having relatively movable player and magazine units, power means for effecting the relative movement thereof, means for terminating said relative movement, and record playing means including a reversibly driven member for playing either side of a record, in combination, a pair of displaceable contacts for each record, each of said contacts corresponding individually to one side of a record, a pair of contact members each arranged to engage the actuated contacts corresponding to one side of the records to actuate said terminating means and to initiate the playing means and effect the drive of said member in direc-



tion to play the corresponding side of the corresponding record, a pair of electromagnetic means each associated with one of said contact members and arranged to return an actuated contact cooperating with said contact member to non-actuated position, and means controlled

**2,716,551**  
**RECORD CUTTING STYLUS SUSPENSION**  
William S. Bachman, Southport, Conn., assignor, by mesne assignments, to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York  
Application February 17, 1951, Serial No. 211,558  
4 Claims. (Cl. 274—24)



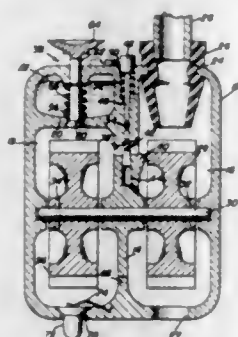
1. A suspension for a phonograph record cutting head comprising a lever pivoted for rotation about a horizontal axis, a record groove cutting head arranged on the lever, a counterweight arranged on the lever to provide at the cutting head a desired net downward force due to gravity, a bearing in the lever having its axis displaced from and substantially parallel to the axis of rotation of the lever, a lever arm journaled in the bearing, an advance ball arranged on the lever arm for engagement with the surface of a record disk being cut, a weight on the lever arm in the vicinity of the advance ball, and a viscous lubricant applied at the bearing.

**2,716,552**  
**SUMP OUTLET VALVE FOR MANURE SPREADERS**  
Elmer W. Johnson, Nelson, Minn.  
Application December 18, 1952, Serial No. 326,716  
2 Claims. (Cl. 275—3)

1. In a manure spreader having a hopper provided with a bottom sump outlet, a disk valve pivoted to said hopper



liquid therethrough, means associated with said dividing means for diverting a stream of water into said second chamber from said first chamber, a first water wheel rotatably mounted in said first chamber in the path of the liquid passing through the first chamber, a mixing

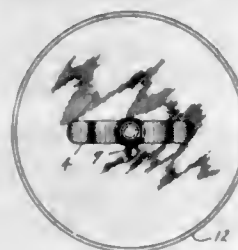


wheel rotatably mounted in said second chamber and drivingly connected to said water wheel, means for admitting soap to said second chamber for mixing with the stream of water entering this chamber and forming a lather upon rotation of the mixing wheel, and means for dispensing lather from the casing.

2,716,545

**CHURN AGITATOR**

Nell Collum Dorrrough, Cullman, Ala.  
Application March 23, 1953, Serial No. 343,985  
1 Claim. (Cl. 259—134)



An agitator assembly of the character described for use in combination with a churn comprising, three pieces of tube mounted together telescope fashion, one tube piece being the upper and the largest in diameter, one tube piece being the middle and of less diameter than the upper piece and being of a size to fit slidably in the upper piece, one tube piece being the lower end of less diameter than the middle piece and being of a size to fit slidably within the middle piece, two wing screws mounted in the upper piece and adapted for manual setting to hold the middle piece in fixed position in the upper piece, a wing screw mounted in the middle piece and adapted for manual setting to hold the lower piece in fixed position in the middle piece, a two-wing dasher with a wing screw mounted in its side and attached adjustably on the upper tube piece, a four wing dasher with a wing screw in its side and attached adjustably on the lower tube piece, a second two wing dasher with a wing screw in its side and attached adjustably on the lower end of the lower piece of tube.

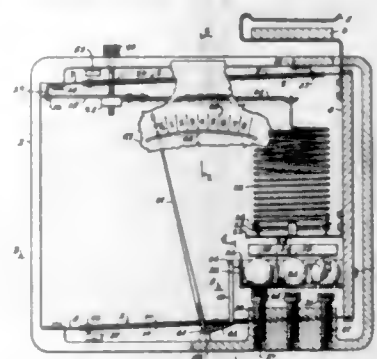
2,716,546

**WEIGHING MECHANISMS**

William Stelzer, Summit, N. J.  
Application April 5, 1954, Serial No. 421,042  
8 Claims. (Cl. 265—68)

1. An automatic weigher comprising a vertically movable load carrying member for supporting a load to be weighed, a resistant comprising at least one spring having a small rate of increase of force to produce a lifting force to oppose the gravitational force acting on said load carrying member, a plurality of counterweights adapted to be supported by said load carrying member, stationary supporting means arranged to receive said counterweights so that during the descent of said load carrying member said counterweights are successively deposited on said

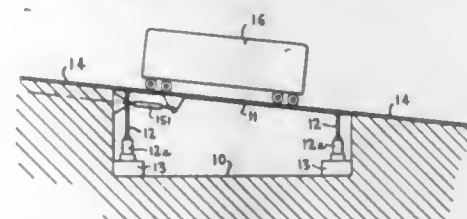
stationary supporting means to gradually relieve said load carrying member of the burden of said counterweights, each of said counterweights being lighter in weight than a standard unit of weight, the difference in weight between a standard unit of weight and one counterweight being equal to the rate of increase in



2,716,547

**IN-MOTION WEIGHING OF VEHICLES AND APPARATUS THEREFOR**

Arthur L. Thurston, Wantagh, N. Y., assignor to Revere Corporation of America, Wallingford, Conn., a corporation of New Jersey  
Application December 16, 1954, Serial No. 475,800  
6 Claims. (Cl. 265—71)

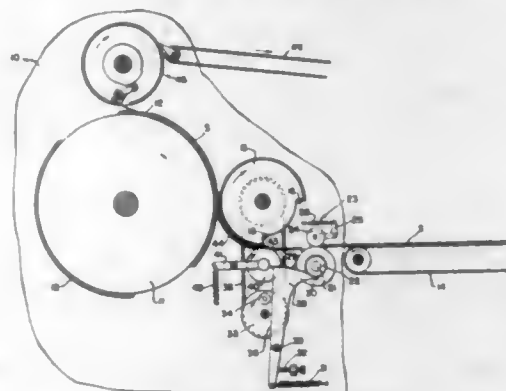


1. The method of weighing a rolling vehicle while in motion along the weighrails of a weighbridge, which comprises so inclining the weighrails as to cause the vehicle to roll therealong under the influence of gravity, and while said vehicle is so moving exerting on the weighrails a measurable force proportional to and substantially opposite to the weight of the vehicle to be weighed, and exerting on the weighrails a second force at all times parallel to the weighrails.

2,716,548

**ROTARY PRINTING PRESS SHEET FEEDING DEVICE**

Oscar A. Fors, Chicago, Ill., assignor to Steelograph, Inc., a corporation of Illinois  
Application January 31, 1952, Serial No. 269,293  
5 Claims. (Cl. 271—53)



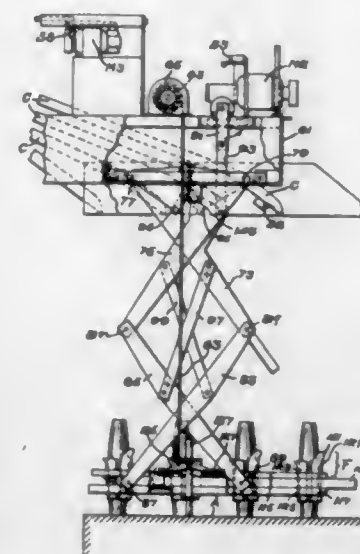
2. An intermittent sheet feeder for a rotary printing press having a plate cylinder and a pressure cylinder,

comprising: a feed roll provided with a driven gear; an idler member constantly yieldingly urged into contact with the feed roll with the contacting portions being positioned in the path of advancing sheets; a feed roll drive including a pivoted bar having a driving connection with said driven gear; driving mechanism for oscillating said bar in timed relation to the rotation of the pressure cylinder; and a gripping roll yieldingly urged into contact with the pressure cylinder with a pressure exceeding the pressure between the feed roll and idler member to grip and advance each sheet to the printing cylinders in opposition to rearward rotation of the feed wheel.

2,716,549

**PIN SETTING MACHINE**

Frank W. Anderson, North Weymouth, Mass., assignor to Murphy Automatic Pinsetter Co., Inc., Somerville, Mass., a corporation of Massachusetts  
Application December 16, 1949, Serial No. 133,386  
5 Claims. (Cl. 273—43)



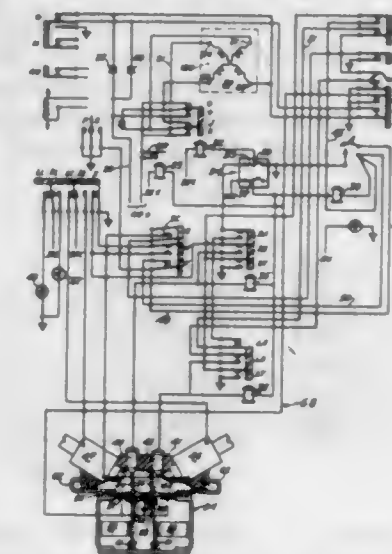
1. A pin-setting machine comprising an overhead support above the rear end of the alley, a setter frame having pin holders, the frame being suspended from said support by an expansible and collapsible linkage at either side thereof which is pivotally connected to said frame and support at two horizontally spaced points at either side thereof, power means on the support having driving connections for each linkage to one of the adjacent links thereof for expanding the linkages to move the setter down to the alley through successive parallel positions and for collapsing the same to retract it to raised position adjacent the support, means for supplying pins to the pin holders in the raised position of the setter frame and means for releasing them to the alley in the down position of the frame.

2,716,550

**SELECTORS FOR AUTOMATIC PHONOGRAPHS**  
Herman G. Jensen, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois  
Application December 9, 1949, Serial No. 132,147  
19 Claims. (Cl. 274—10)

1. In an automatic phonograph having relatively movable player and magazine units, power means for effecting the relative movement thereof, means for terminating said relative movement, and record playing means including a reversibly driven member for playing either side of a record, in combination, a pair of displaceable contacts for each record, each of said contacts corresponding individually to one side of a record, a pair of contact members each arranged to engage the actuated contacts corresponding to one side of the records to actuate said terminating means and to initiate the playing means and effect the drive of said member in direc-

tion to play the corresponding side of the corresponding record, a pair of electromagnetic means each associated with one of said contact members and arranged to return an actuated contact cooperating with said contact member to non-actuated position, and means controlled

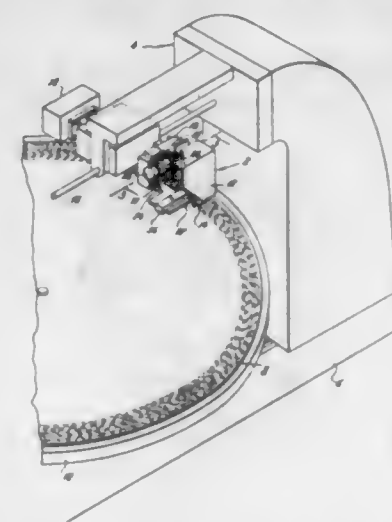


by said playing means when said member is operating to effect the playing of said corresponding side of the corresponding record for energizing the associated electromagnetic means to return the effective displaced contact to its normal position.

2,716,551

**RECORD CUTTING STYLUS SUSPENSION**

William S. Bachman, Southport, Conn., assignor, by mesne assignments, to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York  
Application February 17, 1951, Serial No. 211,558  
4 Claims. (Cl. 274—24)



1. A suspension for a phonograph record cutting head comprising a lever pivoted for rotation about a horizontal axis, a record groove cutting head arranged on the lever, a counterweight arranged on the lever to provide at the cutting head a desired net downward force due to gravity, a bearing in the lever having its axis displaced from and substantially parallel to the axis of rotation of the lever, a lever arm journaled in the bearing, an advance ball arranged on the lever arm for engagement with the surface of a record disk being cut, a weight on the lever arm in the vicinity of the advance ball, and a viscous lubricant applied at the bearing.

2,716,552

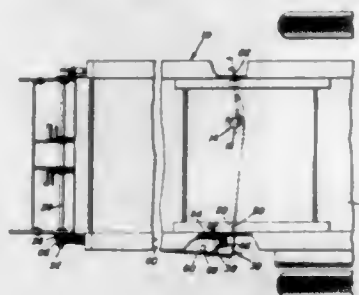
**SUMP OUTLET VALVE FOR MANURE SPREADERS**

Elmer W. Johnson, Nelson, Minn.  
Application December 18, 1952, Serial No. 326,716  
2 Claims. (Cl. 275—3)

1. In a manure spreader having a hopper provided with a bottom sump outlet, a disk valve pivoted to said hopper



and horizontally swingable in opposite directions to open and close said outlet, a rod pivoted to said valve and pivotally and slidably connected to said hopper for endwise movement in opposite directions to correspondingly swing said valve, and a pivoted upright lever on the hopper swingable in opposite directions; an attachment for said spreader for operatively connecting said lever to said rod for endwise movement of the rod in opposite directions by swinging of the lever in opposite directions comprising a triangular plate having corners, a pivotal mounting for



one corner of the plate attachable to the hopper, a pitman having one end pivoted to another corner of said plate and its other end pivotally attachable to said lever for movement of said pitman in opposite directions by said lever to pivot said plate in opposite directions, a pair of stops attachable to said rod in spaced relation, and a link having one end pivoted to another corner of said plate and its other end pivotally and slidably attachable to said rod between said stops whereby pivoting of the plate in opposite directions will correspondingly move said rod.

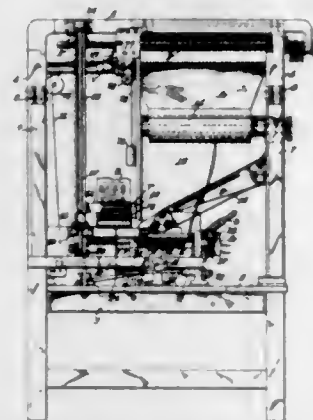
2,716,553

# TYPOGRAPHICAL COMPOSING, PRINTING AND DISTRIBUTING MACHINE

Joseph V. Weckbaugh, Greenwich, Conn., assignor to Mergenthaler Linotype Company, a corporation of New York

Application June 19, 1951, Serial No. 232,338

31 Claims. (Cl. 276—2)



1. In a patrix line composing and printing machine equipped with assembling devices and including in combination, an elongated receiving channel wherein the patrices together with collapsible spacers, are assembled in line under the influence of said devices, a stop for locating the composed line in the printing position, unitary means operable to advance the composed line in said channel until it is arrested by the stop, and also to effect justification of the patrix line by collapsing the spacers therein preparatory to the printing operation, means dependent upon the proper justification of the line to inaugurate the machine cycle of operation.

25. In a patrix line composing and printing machine, the combination of a magazine, a series of patrix releasing escapements therefor, a corresponding series of patrix selecting solenoids, said solenoids being divided into a plurality of groups, and a group of escapement actuating solenoids, one for each group of patrix selecting solenoids, and means for energizing any one of the patrix selecting solenoids and any one of the escapement actuating solenoids in effecting the release of a patrix from the magazine.

29. In or for a patrix line composing and printing machine equipped with assembling and distributing mechanism, a channeled magazine wherein the patrices are stored according to character, said magazine comprising an upper storage section and a lower storage section disposed in offset relation to each other, and a shorter intermediate magazine section through which the patrices pass from the upper to the lower section, said lower section being provided with means at its discharge end for retaining the patrices therein after their passage thereto from the upper section.

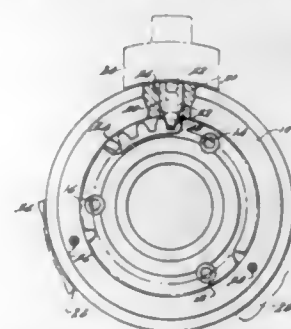
2,716,554

# EQUALIZING AND LOCATING JAW DEVICE FOR GEARS

Earl R. Lowe, East Detroit, Mich.

Application October 16, 1952, Serial No. 315,065

14 Claims. (Cl. 279—1)



1. In combination with a chuck having a plurality of jaws, means for locating and holding a gear workpiece in said chuck, said means comprising a plurality of sleeve members each sleeve member having opposed tapered surfaces on one end portion thereof and an axial bore communicating with diametrically opposed openings in each of said tapered surfaces, a first spherical member rotatably fitted in said sleeve member and partially projecting through said openings, said openings having sufficient diameter to permit said first spherical member to move laterally with respect to the axis of said sleeve, a second spherical member rotatably fitted in the opposite end portion of said bore, and a pin member interposed between said first spherical member and said second spherical member, said holding means being adapted to hold a gear workpiece substantially at the pitch line thereof.

2,716,555

# POWER OPERATED CHUCK DEVICE

Walker E. Rowe, Georgetown, S. C.

Application August 19, 1953, Serial No. 375,263

5 Claims. (Cl. 279—56)



1. In a device of the character described, a support, a spindle journaled upon the support for rotation and having a screw threaded part, a sleeve having screw threaded engagement with said screw threaded part of the spindle and rotatable therewith and shiftable axially of the spindle when held against rotation, said sleeve including a part having a tapering bore, tapering jaw sections contained within the tapering bore part of the sleeve and shiftable radially inwardly and outwardly when the sleeve moves axially of the spindle, a single radial stop element

only carried by the sleeve and projecting radially thereof, a reciprocatory element connected with said support and shiftable radially into and out of engagement with the single stop element of the sleeve and coaxing therewith to lock the sleeve against rotation with the spindle, and means for turning the spindle in opposite directions.

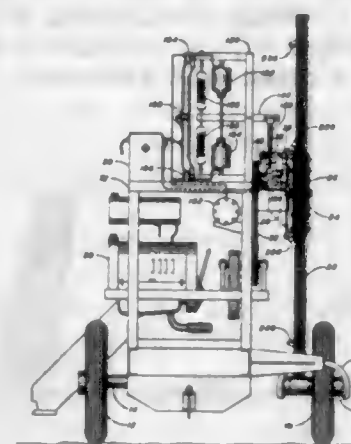
2,716,556

# LEVELING CONTROL FOR AGRICULTURAL MACHINES

Arthur E. Williams, Albany, Calif.

Application June 23, 1954, Serial No. 438,789

4 Claims. (Cl. 280—6)



1. A control device for the actuating mechanism of the leveling apparatus of an agricultural machine comprising a pendulum mounted to swing in a case which is rigidly attached to said machine, a liquid in said case and contacting said pendulum to damp the swinging motion thereof relative to said case, said pendulum having an opening of adjustable size formed through it and submerged in said liquid to adjust the effect of the damping liquid thereon, a pair of electric switches mounted in said case and operated alternatively by said pendulum in accordance with the direction of relative angular displacement of said pendulum to said case, a pressure fluid valve connected to each of said electric switches for operation thereby, each said valve being connected to a respective pressure fluid power cylinder to admit a pressure fluid thereto and exhaust a pressure fluid therefrom, said power cylinders being connected in opposed relationship to said actuating mechanism of said leveling apparatus to control the operation of said apparatus in alternative directions in accordance with the relative displacement of said pendulum to said case.

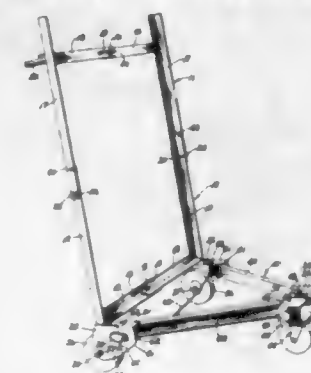
2,716,557

# EXTENSIBLE AND FOLDABLE HAND TRUCK

Charles L. Gould, Fresno, and Elwin L. Carr, Sanger, Calif.

Application July 13, 1953, Serial No. 367,588

6 Claims. (Cl. 280—34)



1. A hand truck comprising a substantially horizontal load supporting base, a transverse back frame having a lower portion transversely hinged on substantially horizontal pivot pins to the aft portions of said base, co-

engaging lock means associated with the back frame and the base for interlocking the back frame in upright position relative to the base, tension means yieldably urging the aft portions of the base against the lower portion of the frame to maintain coengagement of said lock means whereby said back frame is releasably secured in a normal upright position substantially right angularly related to said base, control means connected to the tension means manually operable to release said tension means to disengage said lock means and permit the back frame to be pivoted on said pivot pins forwardly and downwardly upon the base, and ground wheels supporting the truck.

2,716,558

# ARTICLE CARRYING AND ROLLING-TRANSPORT DEVICE

Anna K. Sullivan, Los Angeles, Calif.

Application December 28, 1953, Serial No. 400,695

4 Claims. (Cl. 280—36)



1. An article carrying and transporting device, comprising: a bag of thin-sheet flexible material having a bottom wall portion and an encompassing side-wall portion defining a hollow interior region, said bag having a port at the top thereof extending downwardly into the hollow interior region of the bag; a stiff base member positioned within the hollow interior region of the bag overlying the bottom wall portion thereof; at least four laterally spaced rotatable ball caster means positioned beneath the bottom portion of the bag on the opposite side thereof from the base member and adapted to rest upon an underlying supporting surface for relative movement therealong; at least four aperture means at laterally spaced points in the bottom portion of said bag corresponding to the laterally spaced locations of the underlying caster means; at least four connection means at laterally spaced locations corresponding to the laterally spaced locations of the aperture means and the underlying caster means, each connection means being rotatably connected with respect to the corresponding caster means and selectively removably extending through the corresponding aperture means into fixed engagement with the base member at a different laterally spaced point, said caster means, connection means and base member thereby comprising an effectively unitary structure which can be readily removed, as a unit, from said bottom portion of said bag and which can be readily replaced, as a unit, with respect to said bottom portion of said bag with said base member repositioned above said bottom portion of said bag and with said caster means repositioned below said bottom portion of said bag with said connection means extending through said aperture means; and handle means positioned adjacent said port means.

2,716,559

# REVERSIBLE HANDLE FOR LAWN MOWERS AND THE LIKE

Eugene L. Boyce, Lincoln, Miss., assignor to Johnston Lawn Mower Corporation, Brookhaven, Miss., a corporation of Iowa

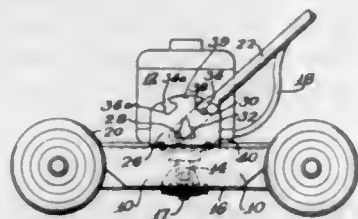
Application January 19, 1953, Serial No. 332,050

3 Claims. (Cl. 280—47.36)

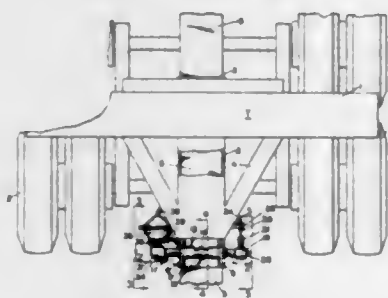
1. In a reversible handle, a handle member and a bracket for mounting said handle member, said bracket



having an opening and a pair of notches one for the handle member projecting in one direction and the other for the handle member projecting in an opposite direction, said handle member having a projection in said opening and a projection to enter either of said notches selectively, each of said notches having an entrance portion and a pair of opposite seat portions, said entrance portions be-

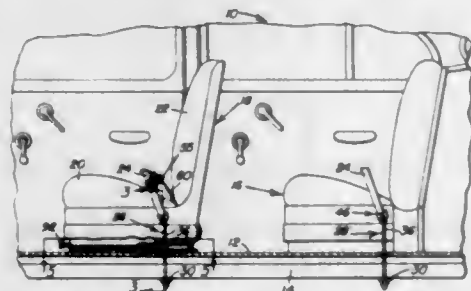


**2,716,560**  
**TRAILER TONGUE CLAMP**  
Perry E. Clippell, Mehama, Oreg.  
Application July 15, 1954, Serial No. 443,475  
2 Claims. (Cl. 280—142)



1. In combination, a trailer having a hollow tongue receiving frame, a tongue slidably carried within the frame, tongue engaging means positioned within the frame, a cam journaled on said frame and operatively connected with the tongue engaging means, spring-urged means biasing the cam rotatively to actuate the tongue-engaging means, and pressure operated means for counterrotating the cam in opposition to said spring-urged means for releasing the tongue-engaging means.

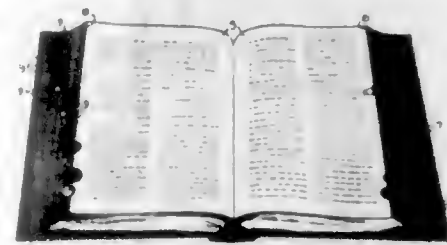
**2,716,561**  
**VEHICLE SAFETY BELT ATTACHMENT**  
Ben E. Beran, Hebron, Nebr.  
Application March 30, 1953, Serial No. 345,460  
5 Claims. (Cl. 280—150)



1. In combination with a vehicle having a frame and a seat, means fastened to the frame at each side of the seat

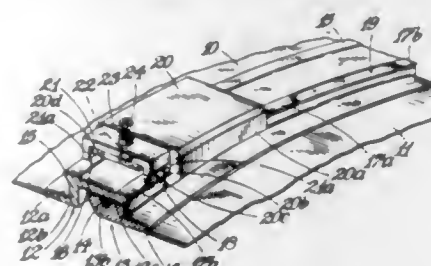
and secured to opposite ends of a flexible restrainer for holding a person from displacement from the seat, means for maintaining said restrainer in snug engagement with a person in the seat, said last means comprising a flexible member secured at one end substantially medially of said restrainer and secured at its other end to said frame, said flexible member being slidably secured at one end to said restrainer, and carriage means transversely movably secured to said frame to which the opposite end of said flexible member is secured.

**2,716,562**  
**THUMB INDEX FOR BOOKS AND THE LIKE**  
Karl L. Schiff, Philadelphia, Pa.  
Application June 11, 1952, Serial No. 292,888  
4 Claims. (Cl. 283—42)



1. Thumb index for a book and the like composed of a multitude of stacked sheets; notches cutting transversely to said sheets into and extending part way across one free margin of said book and the like, and each notch providing an indicia-bearing end face; at least some of said notches being arranged in a row extending generally at an angle across at least part of said free margin; adjacent notches in said row having their said end faces oppositely directed, extending into different parts of said edge, and being of a length providing good visibility of their said indicia-bearing end faces, so that in any open position of said book and the like certain ones of said indicia-bearing end faces are turned toward and the others away from an onlooker thereby permitting the convenient locating of all indicia.

**2,716,563**  
**GAS SEALING JOINTS**  
Ronald Seneschall, Castle Donington, England, assignor to Rolls-Royce Limited, Derby, England, a company of Great Britain  
Application February 2, 1953, Serial No. 334,430  
Claims priority, application Great Britain February 21, 1952  
7 Claims. (Cl. 285—129)



1. A joint for use in gas-conveying ducting comprising two ducting parts having at adjacent ends co-operating, annular gas-seal members adapted to permit relative angular movement of the ducting parts whilst maintaining the gas seal, and adapted to be brought into co-

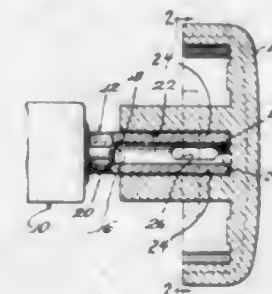
operation by the one being engaged within the other by a substantially axial relative movement thereof, the inner gas seal member having an abutment formed by an axially-facing surface directed away from the outer gas seal member and means for retaining the gas-seal members axially in co-operation including axially and oppositely-projecting circumferential flanges on the outer gas-seal member, a retaining piece adapted to engage said flanges in a manner to be restrained against radial disengagement therefrom, at least one of the flanges having a discontinuity to permit radial movement of the retaining piece to a position in which the retaining piece embraces the said gas seal members and from which the retaining piece is movable circumferentially into engagement with the flanges, and said retaining piece having an axially-facing abutment to co-operate with said abutment of the inner gas seal member to limit axial separation of the gas-seal members, and locking means to prevent circumferential movement of the retaining member on the flanges.

**2,716,564**  
**ARRANGEMENT FOR ATTACHING A DRILL CROWN TO A DRILL STEEL OR DRILL STEELS TO EACH OTHER**  
Bengt Erik Ragnwald Löfqvist, Sandviken, Sweden, assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden, a joint-stock company of Sweden  
Application August 31, 1950, Serial No. 182,583  
Claims priority, application Sweden, September 27, 1949  
8 Claims. (Cl. 285—174)



1. In connecting arrangements, a sleeve having an open end and an opening through one side, a shaft inserted in said sleeve and having a depression in one side in position to be opposite the opening through the side of the sleeve, the depression being comprised of two longitudinally successively arranged recesses in said shaft, said recesses being separated by a ridge, an elongated locking element arranged with one of its ends in each of said recesses respectively and having a thickness greater than the smallest distance between the ridge and the plane of the inner surface of the sleeve, the longitudinal extent of said opening being smaller than the longitudinal extent of said depression and also smaller than the longitudinal extent of said locking member in coupled position.

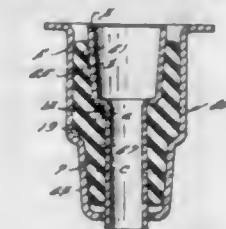
**2,716,565**  
**HANDLE FASTENING MEANS**  
Philip S. Harper and Henry H. Nadasdy, Chicago, Ill., assignors to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois  
Application December 28, 1948, Serial No. 67,604  
4 Claims. (Cl. 287—53)



1. In combination, a valve operating handle having a D-shaped socket, and a rotatable valve stem of metal having some resilience and having an outer end portion inserted into said socket, said end portion of the stem being hollow, D-shaped and of a normal substantially

uniform external size but slightly smaller than said socket so that the exterior of the stem engages the walls of the socket, the end portion of said stem being slotted axially in a generally radial plane to provide a pair of similar finger-like elements, and said finger-like elements having opposed integral rigid abutment portions normal to the axis of the stem and extending substantially into contact across the slot near the outer ends of said elements, said elements being sprung apart beyond the normal size of the stem prior to insertion of the stem into the handle socket to provide a resilient and frictional and readily detachable connection between the stem and the handle assembled thereon, and said abutment portions being substantially in contact upon insertion of the elements into the socket, thereby to prevent movement of said elements toward each other beyond a point whereat the stem dimension would be reduced substantially below its normal size upon application of excessive torque to said stem through the handle and thus to prevent the resilient holding action of said elements from being rendered ineffective.

**2,716,566**  
**RUBBER MOUNTINGS**  
Leon F. Thiry, Montclair, N. J.  
Application July 19, 1949, Serial No. 105,499  
14 Claims. (Cl. 287—85)



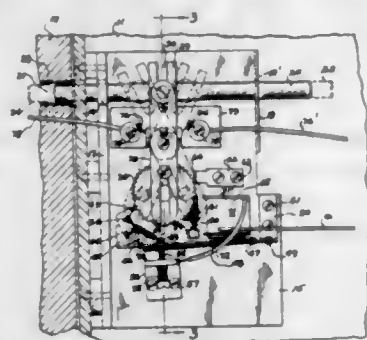
1. In a flexible joint or mounting having an axis along which and about which movement occurs, the combination of inner and outer longitudinal rigid and relatively rotatable members, the outer member having first and second annular surfaces and a first transverse shoulder joining them and the inner member having third and fourth annular surfaces and a second transverse shoulder joining them and being axially separated from the first shoulder, said annular surfaces being substantially coaxial with said axis, a rubber annulus between the members and intimately engaged to a substantial length of each of said surfaces to prevent relative slippage of the rubber and said surfaces, said members being arranged so that the first surface is opposite the third surface and the second shoulder and the fourth surface is opposite the second surface and the first shoulder, said rubber annulus having end portions of substantial length located respectively between said first and third surfaces and between said second and fourth surfaces and in said intimate non-slipping engagement therewith, said rubber annulus having an intermediate portion between said end portions, located between and substantially completely filling the space between the shoulders and annular surfaces to provide an intermediate zone of rubber which will be deformed by the shoulders into end zones defined by said opposed surfaces against the resistance of said end portions therein when load is applied to reduce the distance between said shoulders, said end zones and end portions of rubber being of such length relative to the intermediate zone that they provide a substantial part of the resistance of the joint or mounting to longitudinal deflection.

**2,716,567**  
**DOOR LOCK**  
Joseph A. Turcott, Detroit, Mich.  
Application February 25, 1953, Serial No. 338,750  
5 Claims. (Cl. 292—144)

1. In combination, a support, a longitudinally reciprocal latch bolt mounted on the support, a lever

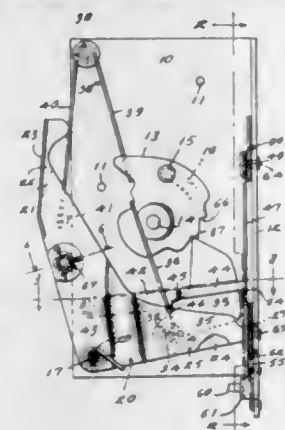


pivotal intermediate its ends upon said support and pivotally and slidably joined at one end to a central portion of said bolt, a power rotated wheel



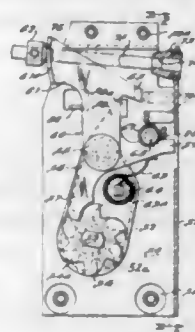
journaled on said support, and means eccentrically connecting said wheel to the other end of said lever for reciprocally tilting the same about its pivotal mounting for positively opening and closing said bolt.

**2,716,568**  
**ELECTRICALLY CONTROLLED VEHICLE DOOR LOCK**  
Richard T. Davies, Catasauqua, Pa.  
Application August 7, 1953, Serial No. 372,967  
8 Claims. (Cl. 292—229)



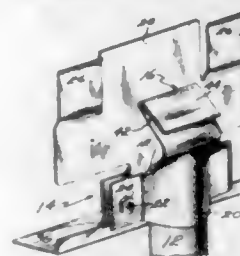
1. In combination with a vehicle door locking and latching mechanism including a frame, a latch bolt, an element carrying the latch bolt turnably supported on the frame, spring means urging said element to rotate in one direction for swingably moving the latch bolt to a released position, a detent swingably supported on the frame and spring urged into engagement with said latch bolt carrying element to prevent rotation of said element under the biasing action of said spring means for retaining the latch bolt in a latching position, a first lever swingably supported on the frame and adapted to be swung in one direction to effect release of the detent, and a first spring urging said lever to swing in the opposite direction to an inoperative position; a second lever swingably supported on the frame about an axis common to the axis of swinging movement of the first lever, a bar connected to the second lever and movable into engagement with the detent for swinging the detent to a position out of engagement with the latch bolt carrying element upon swinging movement of the second lever in a direction corresponding to the first mentioned direction of swinging movement of said first lever, a second spring urging the second lever to swing in the opposite direction to an inoperative position for disengaging the bar from the detent, an electrical locking unit comprising a housing supported on a side of the first lever and remote from said second lever, a coupling element slidably mounted in the housing and extending slidably through the first lever, a third spring urging the coupling element into engagement with the second lever for coupling said levers, and an electromagnet disposed in the housing, said coupling element constituting the core of the electromagnet and being retracted when the electromagnet is energized for uncoupling the levers.

**2,716,569**  
**DOOR LOCK**  
John H. Roethel, Coral Gables, Fla., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan  
Original application April 19, 1950, Serial No. 156,804.  
Divided and this application March 12, 1954, Serial No. 415,831  
9 Claims. (Cl. 292—280)



2. A door latch mechanism comprising a support formed with a plate portion for disposition at the door jamb and a flange portion extending angularly from said plate portion, a latch device pivotally mounted on said plate portion and having tooth-like abutments, a detent release member pivotally mounted on said plate portion, detent means having a pivotal mounting on said plate portion to provide for swinging movement of the detent means independently of said release member, bell crank means pivotally mounted on said support for swinging said detent means, said detent means being engageable with any one of said abutments at one side of its pivotal axis for holding the latch device in door latching position and said release member having a portion at the opposite side of said pivotal axis engageable by outer manually operable means to swing the release member in one rotative direction, said release member having a part engageable with said detent means upon swinging motion of the release member in said rotative direction thereby to swing said detent means in the same rotative direction out of holding position with respect to said latch device, a blocking portion on said release member, lever means pivotally mounted on said support and including an arm having a blocking portion swingable upwardly and downwardly relative to said first named blocking portion, said lever means and said bell crank means being movable independently of each other about a common pivot axis, and inner manually operable means for swinging said arm upwardly to dispose its said blocking portion in opposing relation to said first named blocking portion thereby to block detent release movement of said release member.

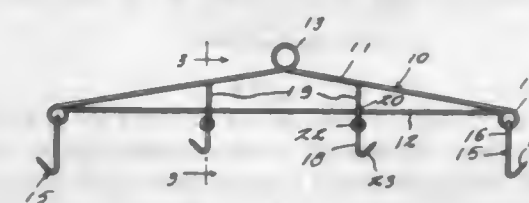
**2,716,570**  
**REACH EXTENDING IMPLEMENT**  
Carl Beeman, New York, N. Y.  
Application October 23, 1950, Serial No. 191,635  
2 Claims. (Cl. 294—22)



1. A reach extending implement for maneuvering an inverted shoe box and cover assembly in overhead locations by supporting engagement solely with the box overlapping lip of said cover, including in combination with a long reaching pole whose axis extends from a handle end thereof to a box cover reaching end thereof, a claw adapted to saddle an overlapping upstanding lip of said box cover having a butt portion detachably

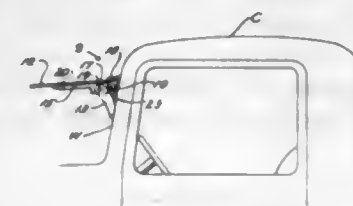
mounted on said maneuvering end of said pole and having a thin wide stiff leaf portion extending from said butt portion doubled over to form a sharp return bend, said leaf portion at the mounted side of said bend standing at an acute angle of nearer 45 degrees than 90 degrees relative to said axis of said pole thereby to form a substantially flat ledge inclined at said acute angle on which the outer surface of said cover lip can rest, and said leaf at the free side of said bend forming a flat tongue paralleling said flat ledge at a minimum spacing therefrom to be admissible to said cover lip, whereby said tongue can be inserted between the shoe box and the box facing surface of said cover lip.

**2,716,571**  
**GAMBREL**  
John Silva, Yreka, Calif.  
Application February 17, 1953, Serial No. 337,339  
2 Claims. (Cl. 294—79)



1. A gambrel comprising a bar bent to form a centrally disposed suspension eye for said bar, a pair of downwardly diverging oppositely extending legs integrally formed from said bars, loops bent in the lower end of each of said legs, a cross bar welded at its opposite ends to said loops, a vertically extending member welded to each of said legs intermediate said eye and said loop, said members having their lower ends welded to said cross bar, and eyes formed on the lower ends of said members for receiving and supporting additional hooks.

**2,716,572**  
**RAINSHIELD FOR AUTOMOBILE WINDSHIELDS**  
Armand J. Soucy, Bristol, Conn.  
Application June 15, 1953, Serial No. 361,607  
2 Claims. (Cl. 296—95)

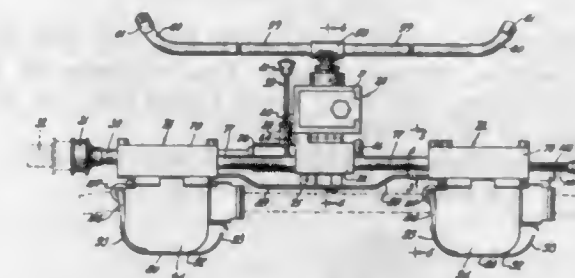


1. In a rainshield for a windshield of a motor vehicle parked in a drive-in theater, a flexible transparent rectangular waterproof panel, a pair of brackets secured on the short ends of said panel, a pair of rubber suction cups adjustably secured to the rear ends of said brackets, and a pair of curved flat pointed brace arms adjustably mounted in abutment with the outer sides of said brackets and having their free pointed extremities in engagement with the windshield so as to control the angular position of said rainshield with respect thereto.

**2,716,573**  
**TRAVELING LAWN SPRINKLER**  
William D. Egly, South Bend, and Columbus W. Harris Elkhart, Ind.; said Harris assignor to said Egly  
Application May 31, 1951, Serial No. 229,174  
14 Claims. (Cl. 299—50)

1. A sprinkler comprising a water reactance unit, a pair of ground-engaging members, connecting means actuated by said water reactance unit and connected to said ground-engaging members to move said unit and members relative to each other, each ground-engaging mem-

ber including a pair of gripping jaws adapted to grip therebetween an elongated guide member and urged toward each other to gripping position upon application of forces tending to move the ground-engaging member



in one direction along said guide member and urged away from each other to released position upon application of forces tending to move the ground-engaging member in the other direction along said guide member.

**2,716,574**  
**HORTICULTURAL IRRIGATION APPARATUS**  
Jocelyn L. H. Chase, Shepperton, England, assignor to Chase Protected Cultivation Limited, Shepperton, England  
Application July 9, 1954, Serial No. 442,414  
Claims priority, application Great Britain July 17, 1953  
8 Claims. (Cl. 299—106)



1. A flexible tube for use in continuous horticultural irrigation, the tube having holes at intervals along its length, and a double headed stud fitted into each of the holes, each stud having an approximately spherical inner head, extending a substantial distance into the bore of the tube, a generally flat outer head, a waist between the inner and outer heads and making sealing engagement with the hole in the tube, the stud being formed with a through axial passage consisting of a fine metering hole in the inner head leading into a seepage hole of larger diameter emerging in the outer head.

**2,716,575**  
**CONSTRICTION VALVE FOR FLUIDIZED SOLIDS**  
Herbert H. Vickers, Union, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware  
Application January 31, 1952, Serial No. 269,197  
5 Claims. (Cl. 302—17)



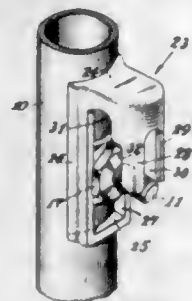
1. A valve assembly for controlling the flow of a stream of finely divided fluidized solids therethrough comprising a tubular outer rigid housing, a tubular elastic lining impervious to fluid substantially adjacent to the entire inner surface of said housing when the valve is in normal open position to permit free flow of the fluidized solids therethrough, the edges of said lining being sealed against said housing to provide a substantially airtight region between the outer surface of said lining in the housing and the inner surface of the housing, means for effecting accumulation of the solids in the form of a core within



the lining, and means for constricting the lining to compact the confined core into a mass substantially impervious to fluid under pressure.

2,716,576

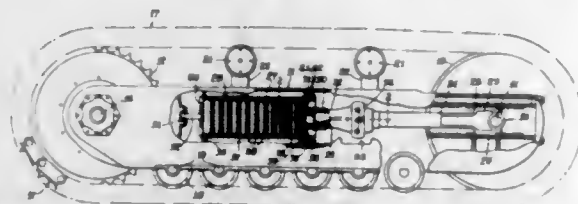
**SECTIONAL SCAFFOLD FRAME BRACE LOCKS**  
Nicholas Nordone, Miami Shores, Fla., assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y., a corporation of New York  
Application June 16, 1954, Serial No. 437,101  
2 Claims. (Cl. 304-40)



1. In an automatic lock for detachably securing one or more braces to the upright of a sectional scaffold, in combination: a threaded stem anchored in the upright at one end thereof, a guide member on said stem adjacent the upright, said guide member having two vertical walls parallel with the axis of the upright, a nut on said stem for retaining said guide member against the upright, and a brace locking member having a frame mounted for vertically reciprocating movement along said vertical walls of said guide member with said nut extending over the lateral portions of said frame for retaining the same on said guide member and adjacent the upright, said brace locking member further including a forked portion spaced from said frame and integral therewith at the upper extremity thereof, said forked portion having an open slot in the lower extremity thereof for reception of the other end of said stem on downward movement of said brace locking member by gravity thereof, said brace locking member having at least one inverted step like cutout between said frame and said forked portion thereof for reception of one or more braces supported by said stem between said nut and said forked portion of said brace locking member, said frame being of a length in excess of the length of said guide member whereby to expose said other end of said stem on upward movement thereof together with said forked portion to permit insertion of one or more braces onto said stem or removal of braces therefrom.

2,716,577

**TENSIONING APPARATUS FOR ENDLESS TRACKS OF CRAWLER VEHICLES**  
Harry A. Land, Algonquin, Ill., assignor to International Harvester Company, a corporation of New Jersey  
Application May 3, 1952, Serial No. 285,880  
5 Claims. (Cl. 305-9)

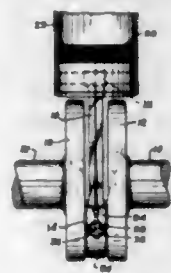


1. In a track tensioning apparatus for an endless track mounted on a crawler tractor track frame constituting a casing providing an opening affording access to the interior of such frame, a track idler assembly retractively advanceable lengthwise of the frame at an end thereof to exert tensioning force against the track, an elastically retractible force reaction structure in the frame in spaced relation axially thereof from the idler assembly and

including an hydraulic ram cylinder having a side wall in registry with the casing opening and extending endwise toward such idler assembly, a ram plunger connected with the idler assembly for movement therewith lengthwise of the frame and projecting reciprocally into the cylinder for endwise adjustment therein, means including a passage having a fluid inlet in registry with the frame casing opening and leading through the cylinder wall for conducting fluid under pressure into the cylinder to adjust the plunger therein attendant to advancing the idler assembly, the cylinder side wall having an exterior groove extending transversely of the cylinder and of a depth radially of the cylinder to form a slot in such side wall in registry with the frame casing opening, the plunger having a series of teeth spaced lengthwise thereof in registry with said slot, a toothed element insertable in said groove to project teeth of such element through said slot into mesh with teeth of the plunger for maintaining selected plunger adjustments, and means for releasably holding the toothed element in said groove.

2,716,578

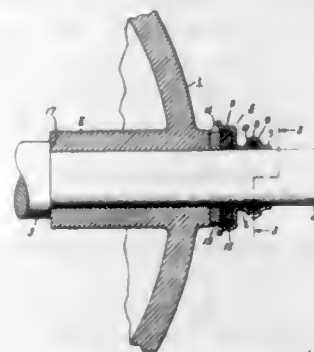
**SPLIT CONNECTING ROD CONSTRUCTION**  
Roy T. Hurley, Westport, Conn., assignor to Curtiss-Wright Corporation, a corporation of Delaware  
Application February 27, 1953, Serial No. 339,425  
13 Claims. (Cl. 308-23)



1. A split-bearing construction comprising first and second bearing halves each having an internal bearing surface of semi-circular cross-section; and means for securing said bearing halves together to form an internal bearing surface of circular cross-section; said means comprising a pair of projections rigid with each bearing half with the projections of each pair being disposed, one at each end of its bearing half, adjacent to the corresponding projections on the other bearing half; and a pair of rings, one for and disposed in tension about the two adjacent projections at each junction of said bearing halves.

2,716,579

**THRUST COLLAR**  
Julius H. Staak, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York  
Application November 5, 1952, Serial No. 318,934  
4 Claims. (Cl. 308-163)

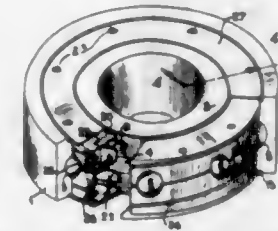


1. In combination with a rotatable shaft, a thrust collar arranged on said shaft having spaced apart sleeve portions embracing said shaft and an enlarged portion connecting said sleeve portions and defining an annular cavity with said shaft, and an annulus of resilient material

positioned in said cavity, said enlarged portion being crimped at at least one location on its outer periphery displacing said resilient annulus at said location thereby causing the remaining portions of said annulus to expand into tight engagement with said enlarged portion and said shaft whereby said thrust collar is secured to said shaft.

2,716,580

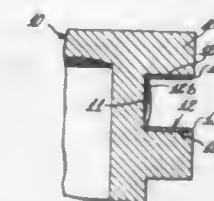
**ROLLER BEARING**  
Pierre C. de Pagter, Ann Arbor, Mich.  
Application October 3, 1951, Serial No. 249,460  
10 Claims. (Cl. 308-201)



1. In an annular ball bearing having coaxial inner and outer rings with confronting raceways and a plurality of balls riding along said raceways, shield means comprising paired annular shields spacing said inner and outer rings and spaced by said balls, each annular shield having inner and outer flanges closely juxtaposed respectively with the inner circumferential surface of the outer ring and outer circumferential surface of the inner ring, circumferentially spaced portions of said flanges being recessed and fitting closely around said balls in bearing relation, thereby holding said balls in circumferentially spaced relation, a flange of each shield having ledge portions intermediate said balls and abutting the corresponding ledge portions of the other shield, and means connecting said abutting edge portions to hold said paired shields in assembled relation.

2,716,581

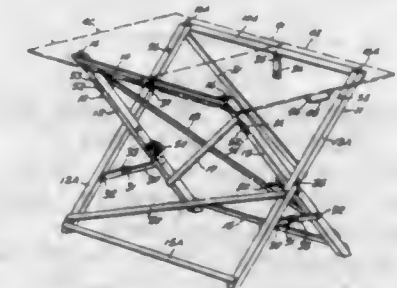
**PISTON**  
Arthur Townhill, East Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio  
Application October 13, 1951, Serial No. 251,168  
3 Claims. (Cl. 309-14)



1. A piston having a reinforced ring groove which comprises a piston body having a peripheral groove therearound near the head end thereof, a resilient split channel ring of better wearing material than said piston body seated in said groove, said ring being adapted to be expanded over the head of the piston for snapping into said groove and having a closing tension reclaiming any gap between the ends thereof, said channel member having an inner web and side legs projecting outwardly therefrom, said side legs terminating inwardly from the periphery of said piston, said piston having portions of the body member deformed over the outer ends of the side legs to hold the channel ring in the groove, and said inner web urging said side legs into uniformly tight surface engagement with the side walls of the groove.

2,716,582

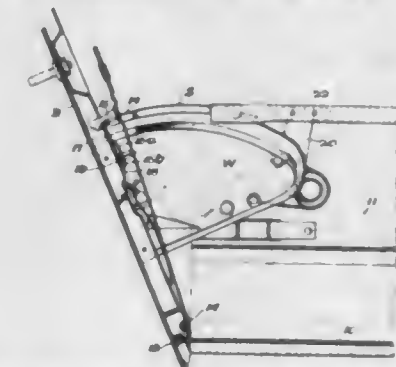
**PORTABLE FOLDING TABLE HAVING NESTING TOP AND FRAME**  
Nathan Rosenfeld, Los Angeles, Calif.  
Application May 7, 1953, Serial No. 353,480  
5 Claims. (Cl. 311-83)



1. A folding table structure, comprising: a pair of rectangular frame members, each having spaced upright leg elements and cross-strips extending between their upper ends and between their lower ends, one of said frame members being narrower than the other frame member and disposed therein with the corresponding leg elements in juxtaposition and in crossing relation; means pivotally connecting the adjacent leg elements of said frame members for pivotal movement from an open, crossing relation to a closed, coplanar relation, all of the cross-strips of said frame members being disposed at the outer sides of their leg elements, the upper ends of the leg elements of the narrower frame member abutting the upper cross-strip of the other frame member when said frame members are in folded relation; a pair of diagonal braces extending between the leg elements of each frame member, said braces of each pair being secured against opposite sides of the leg elements so as to be disposed laterally at opposite sides of the common plane of the several leg elements when the latter are in folded relation, the leg elements of said narrower frame member defining the sides of a vertical space of a width equal to the thickness of the leg elements between the folded frame members; a table top removably supported upon the upper ends of said leg elements of said frame members; interengaging means on said leg elements and said table top for locating and retaining said table top laterally with respect to said frame members; and releasable means extending between the upper cross-strips of said frame members and operative to retain the members in folded relation.

2,716,583

**DRAWER CONSTRUCTION**  
Clarence W. Straubel, Loganbrooke, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio  
Application September 3, 1952, Serial No. 307,682  
9 Claims. (Cl. 312-303)



1. A filing cabinet drawer including side walls provided at their tops with downwardly opening channel formations, a drawer front swingable between closed and open positions relative to the drawer and including side wings, the top marginal portions of which travel in the front portions of said channel formations during



opening and closing movements of the drawer front, and shield elements of inverted U-shape in cross section attached to said wings and disposed over the top marginal portions of said wings, said shield elements being movable with the wings and having portions free of the wings in sliding engagement with the interior of said channel formations.

2,716,584

### DOUBLE HERMETIC SEAL FOR GASEOUS DISCHARGE LAMPS

Theodore C. Retzer, Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application December 16, 1953, Serial No. 398,500  
1 Claim. (Cl. 316-19)

The method of making a double hermetic seal between an end tube and an electrode assembly comprising assembling an upper and lower vitreous washer about a thin refractory feathered edge metal disc of said electrode assembly, assembling an upper end tube assembly about said washers, said disc and said electrode assembly and a lower end tube assembly about said electrode assembly and in engagement with said lower washer, sealing in a protective atmosphere the bottom portion of a skirt tube of said upper end tube assembly to said lower end tube assembly, hermetically sealing in a pro-

TECTIVE atmosphere the lower relatively soft glass end of a graded seal portion of said lower end tube assembly to a bead on said electrode assembly, exhausting said now hermetically sealed end tube electrode assembly,



collapsing said skirt tube and said washers about said disc to form a hermetic seal thereat, and also collapsing said upper end tube assembly and a portion of said lower end tube assembly onto a refractory ribbon wrapped conductor of said electrode assembly.

## CHEMICAL

2,716,585

### OVER-DYEING STOCKINGS TO PRODUCE TWO-COLOR AND OMBRE EFFECTS

Sidney Bailey, Jr., Philadelphia, Pa.  
Application November 3, 1954, Serial No. 466,469  
5 Claims. (Cl. 8-14)



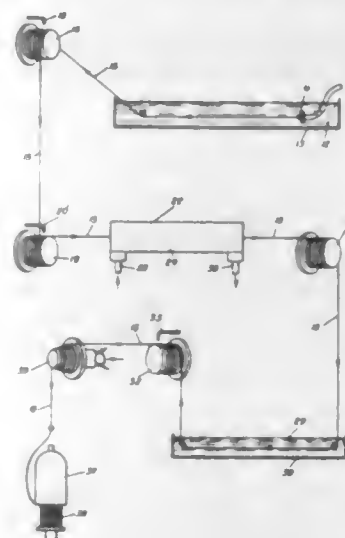
1. A method of ombré dyeing stockings knitted principally of nylon to provide a distinctive color for one end portion of the stocking which is contrastingly different from that of the remaining portion of the stocking and which colors coalesce in a zone of transition by imperceptible change of one color to the other, which comprises initially dyeing the stocking in its entirety in a liquid dye bath to the distinctive color desired for said end portion thereof, in then drying the stocking, and in thereafter over-dyeing said remaining portion of the stocking by first immersing said remaining portion of the stocking in a liquid over-dye bath and then withdrawing the stocking therefrom, said over-dye bath being compatible with said first-mentioned dye bath and providing a dye color which is contrastingly different from and has the capacity of completely obliterating said distinctive color of the portion of the stocking which is immersed in said over-dye bath, and controlling the rate of immersion and rate of withdrawal of said remaining portion of the stocking in said over-dye bath, so as to provide for migration by capillary action of the over-dye through the stocking upwardly beyond the level

of said over-dye bath into said zone of transition immediately adjoining said distinctively colored end portion of the stocking.

2,716,586

### WET SPINNING OF ACRYLONITRILE POLYMERS

John M. Terpay, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware  
Application September 8, 1951, Serial No. 245,697  
15 Claims. (Cl. 18-54)

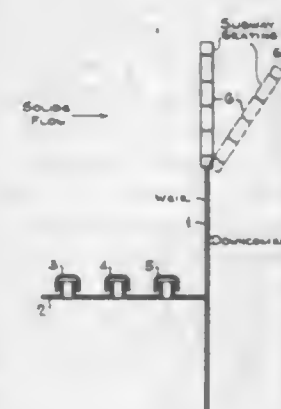


1. The method of forming an acrylonitrile polymer fiber comprising the steps, forming a spinning solution comprising ethylene carbonate, water in an amount between about 2.5% and 18.5% by weight and a polymer of acrylonitrile containing in the polymer molecule at least about 80% by weight of acrylonitrile; extruding the resulting spinning solution into a coagulating liquid comprising water and ethylene carbonate; maintaining the ethylene carbonate concentration in said coagulating liquid between about 10% and 50% by weight, and the total of the water and the ethylene carbonate in said coagulating liquid comprising at least about 95% by weight thereof.

2,716,587

### PROCESS AND APPARATUS FOR CONTACTING SOLIDS AND VAPORS

George O. Hillard, Jr., Baton Rouge, La., assignor to Esso Research and Engineering Company, a corporation of Delaware  
Application November 14, 1950, Serial No. 195,676  
3 Claims. (Cl. 23-1)



1. In an operation wherein downflowing fluidized solids countercurrently contact upflowing gases in a series of superimposed contact chambers in a contacting vessel said chambers being separated by means of perforated plates and wherein a dense phase of fluidized solids extends across the top of each plate, and wherein upflowing vapors pass through said perforations into and through said dense phase, the improvement which comprises passing fluidized solids from the dense phase of one plate to the dense phase of a lower plate by means of a downcomer, and flowing said solids into said downcomer from the upper volume of said dense phase in a multiplicity of discrete streams at different initial levels some of which are appreciably below the top of said dense phase whereby entrainment of gases by said solids in said downcomer is substantially prevented.

2,716,588

### METHOD OF PREPARATION OF METAL SALTS

James D. Hall, Shaker Heights, Ohio  
No Drawing. Application October 8, 1954,  
Serial No. 461,296  
32 Claims. (Cl. 23-125)

1. The method of rapidly and economically converting a corrosion resistant alloy of at least one metal above and at least one metal below hydrogen in the electromotive force series into metal compounds which comprises the steps of introducing a corrosion resistant alloy containing said metals into an aqueous solution containing in excess of about 0.5% by weight of an acid selected from the group consisting of formic acid, acetic acid, sulphuric acid, hydrofluoric acid, nitric acid, hydrochloric acid, phosphoric acid, and passing sulphur dioxide into the solution, whereby the insoluble sulphides are precipitated and the soluble salts of the acid selected are retained in the solution.

2,716,589

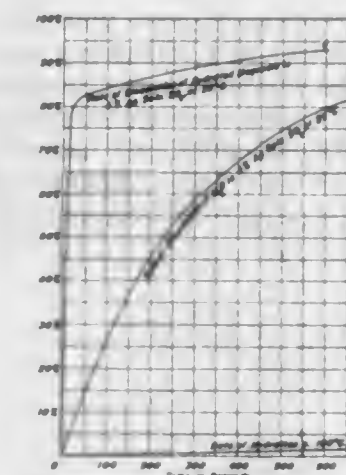
### PROCESS OF RE-FORMING MAGNESIUM BISULFITE SOLUTION

Alva C. Byrns, Concord, Calif., assignor to The Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware  
Application April 20, 1951, Serial No. 221,993  
5 Claims. (Cl. 23-131)

1. In the process described for preparing cellulose pulp which includes the steps of adding magnesia to neutralize digestion liquor and of reacting a water slurry of recovered magnesia with sulfur dioxide-containing gases to form magnesium bisulfite, the improvement compris-

697 O. G.—45

ing admixing magnesium hydroxide containing on the ignited basis at least 95.0% MgO and not over 1.5% CaO

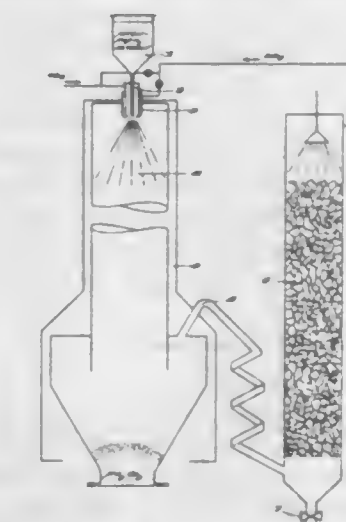


with said water slurry of recovered magnesia in an amount to compensate for MgO lost in the process.

2,716,590

### PRODUCTION OF HYDROCYANIC ACID

Otto Bretschneider, Frankfurt am Main, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt, Germany  
Application June 17, 1952, Serial No. 293,906  
Claims priority, application Germany June 23, 1951  
6 Claims. (Cl. 23-151)



1. In a process for the continuous production of hydrocyanic acid by heating an alkali metal carbonate, carbon and nitrogen in the presence of finely divided iron as a catalyst to produce a crude cyanided product which besides alkali metal cyanide contains, alkali metal carbonate, carbon and finely divided iron and recovering hydrocyanic acid from such product, the steps which comprise extracting the crude cyanided product with water to form an aqueous extract containing alkali metal cyanide and alkali metal carbonate, atomizing the extract and introducing the atomized extract into a zone maintained at a temperature between 150° and 300° C. in the presence of carbon dioxide to form gaseous hydrocyanic acid and solid alkali metal carbonate, collecting the solid alkali metal carbonate formed in said zone and recycling it to the step in the process wherein the crude cyanided product is produced.

2,716,591

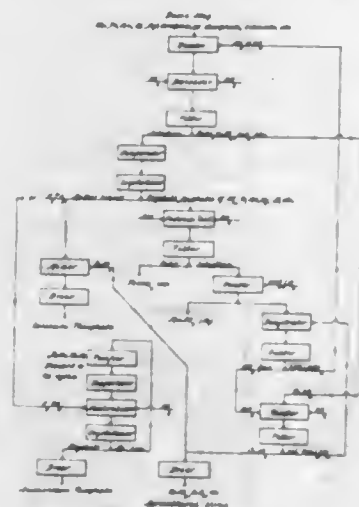
### METHOD OF RESOLVING PHOSPHATIC COMPLEXES

Alfred M. Thomsen, San Francisco, Calif.  
Application August 16, 1951, Serial No. 242,170  
2 Claims. (Cl. 23-165)

1. The method of resolving a basic iron, manganese and phosphorus containing slag which comprises: react-



ing said slag with ammonium bisulphate until the resident metals shall have been substantially converted into sulphates with attendant formation of phosphoric acid; forming a water solution of said phosphoric acid and water soluble sulphates, and separating the same from the insoluble residue containing the substantially insoluble sulphates; evaporating and crystallizing said solution to obtain a motor liquor containing substantially all the phosphoric acid with but little sulphate and a crystal product consisting essentially of sulphates of the resident



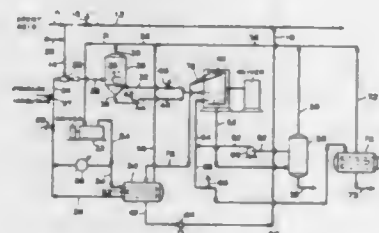
metals, separating said crystals from the mother liquor; dissolving said crystals in water and precipitating the iron from the solution by aeration and the addition of ammonia; separating said iron precipitate; precipitating the manganese resident in the resultant solution by adding carbonated ammonia and removing the manganese precipitate thus obtained; dehydrating and heating the resultant solution, containing essentially ammonium sulphate to produce ammonium bi-sulphate and recycling the bi-sulphate solution to the head of the process to react with slag.

2,716,592

## METHOD OF PURIFYING SULFURIC ACID

Joseph F. Skelly, New York, N. Y., and Samuel R. Stiles, Cresskill, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application September 23, 1952, Serial No. 310,974  
16 Claims. (Cl. 23—172)



1. A process of purifying sulfuric acid contaminated with at least one impurity selected from polar and non-polar impurities which comprises supplying from a source other than said contaminated acid a low viscosity organic liquid which is chemically inert and immiscible with sulfuric acid to a crystallization zone to form a liquid medium therein, supplying the contaminated acid to the crystallization zone, dispersing contaminated acid into the liquid medium in the crystallization zone which is maintained at a temperature sufficient to crystallize sulfuric acid, separating the acid crystals thus formed from the remaining liquid and melting the acid crystals to produce an acid of improved purity.

### 2,716,593 STABILIZATION OF SULFUR TRIOXIDE WITH LIQUID SILICON COMPOUNDS

Irving Litant, Flushing, N. Y., and Robert V. Townend, Arlington, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 4, 1952,

Serial No. 324,131

19 Claims. (Cl. 23—174)

1. The method of stabilizing material of the group consisting of liquid sulfur trioxide and oleum of  $\text{SO}_3$  strength such that  $\text{SO}_3$  polymers tend to form, which method comprises incorporating therewith in amount sufficient to stabilize said material but less than 1% by weight of the free  $\text{SO}_3$  content thereof, a monomeric compound of the formula  $\text{X}-\text{M}-\text{Y}$ , wherein X is at least one of the substances selected from the group consisting of chlorine, fluorine, methyl, and methoxy, M is selected from the group consisting of the silicon atom and the fully X and Y substituted disiloxane nucleus, and Y is at least one of the substances selected from the group consisting of  $\text{Cl}_a$ ,  $\text{F}_a$ ,  $(\text{CH}_3)_b$ , and  $(\text{OCH}_3)_b$ , a being an integer from 0 to 3 which is 0 when M is the silicon atom and b being an integer from 0 to 3 which is 0, 1 or 2 when M is the disiloxane nucleus, the otherwise unfilled valence bonds of the silicon atoms in the molecule being filled by hydrogen atoms.

2,716,594

### STABILIZATION OF SULFUR TRIOXIDE WITH METHYL SILICONES

John E. Harris, Jr., Linwood, Pa., Richard N. Smith, Claymont, Del., and Harold G. McCann, West Hyattsville, Md., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 4, 1952,

Serial No. 324,132

20 Claims. (Cl. 23—174)

1. The method of stabilizing material selected from the group consisting of sulfur trioxide and oleum of free  $\text{SO}_3$  strength such that  $\text{SO}_3$  polymers tend to form, which comprises incorporating therewith in amount sufficient to stabilize the free  $\text{SO}_3$  content thereof but insufficient to dilute substantially said free  $\text{SO}_3$  content, a polymeric siloxane substituted by a radical from the group consisting of methyl and methoxy, in which all silicon valences unfilled by said radical are satisfied by hydrogen.

2,716,595

### MANUFACTURE OF RED HYDROUS FERRIC OXIDE

Benjamin Harrison Marsh, Santiago, Chile, assignor to C. K. Williams & Co., East St. Louis, Ill., a corporation of Delaware

No Drawing. Application January 28, 1949,

Serial No. 73,453

8 Claims. (Cl. 23—200)

7. A process for the production of red to purple ferric oxide pigments from metallic iron as the primary source which comprises dissolving an iron salt in water, introducing oxygen into the resulting aqueous iron salt solution having an ion concentration on one side of neutrality, until oxidation substantially ceases, changing the ion concentration of the reaction mass to the other side of neutrality, again introducing oxygen into the reaction mass until oxidation substantially ceases, again changing the ion concentration of the reaction mass back to a pH value on the original side of neutrality, again introducing oxygen into the reaction mass until oxidation substantially ceases, the alteration of the ion concentration being effected on the one hand by the addition of an alkali and on the other hand by the addition of a soluble iron salt, thereby forming a hydrated ferric oxide seed in the reaction solution, contacting the resulting seed in an iron salt solution with metallic iron and introducing oxygen into the solution

during said contact whereby said iron is oxidized and a red iron oxide is obtained, discontinuing the oxidation when the desired shade of red to purple is obtained and separating said iron oxide from the liquid mass and any remaining metal, thereby obtaining an iron oxide of the said range of color of pigment grade.

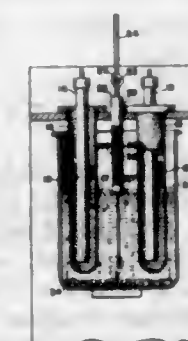
2,716,596

### DETERMINATION OF TIN ON TINPLATE

Delbert P. Robertson, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware

Application January 18, 1952, Serial No. 267,118

8 Claims. (Cl. 23—230)



1. The method of determining the amount of tin on a sample of tinplate having a ferrous metal base comprising the steps of arranging the sample as an anode in a bath of an electrolytic cell, the reactive constituent of the bath consisting essentially of aqueous hydrochloric acid, passing an electric current through the sample and the bath thereby electrolytically converting the tin to stannous ions, simultaneously bubbling an inert gas through the bath thereby preventing oxidation of stannous ions, and thereafter titrating the stannous chloride-containing bath solution with iodine to determine the amount of tin on the sample.

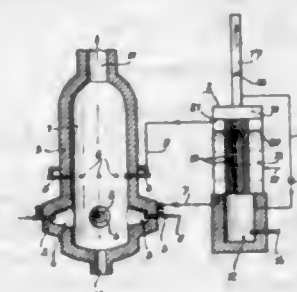
2,716,597

### METHOD AND APPARATUS FOR THE PRODUCTION OF COMBUSTIBLE GASES FROM LIQUID FUELS

Willy Linder, Essen, Germany, assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application June 12, 1951, Serial No. 231,096

9 Claims. (Cl. 48—62)



1. A process for the production of combustible gases from fuel which is liquid at ordinary temperatures comprising preheating said fuel, suspending a portion of said preheated fuel in free-oxygen-containing gas, injecting said suspension into a reaction chamber maintained at a temperature above the ignition temperature of said fuel, subjecting at least a portion of said suspended fuel to ignition and combustion to form hot gaseous combustion products, separately injecting an additional portion of said preheated fuel into the reaction chamber at a point spaced above the point of introduction of said suspension and substantially immediately contacting the additional portion of said preheated fuel with the hot gaseous combustion products, thereby subjecting said

additional portion of fuel to cracking, and withdrawing combustible gases from the upper portion of the reaction chamber.

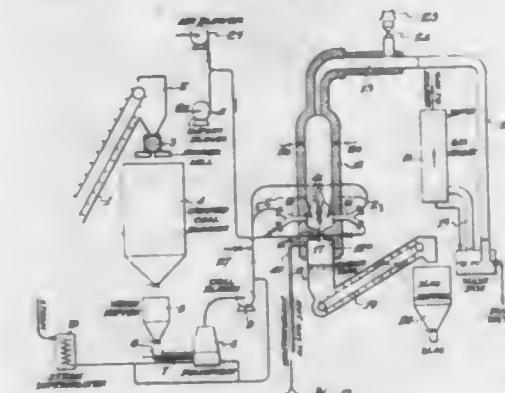
2,716,598

### PREPARATION OF CARBON MONOXIDE AND HYDROGEN BY PARTIAL OXIDATION OF CARBONACEOUS SOLIDS

Douglas V. Moses, Charleston, W. Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application February 6, 1951, Serial No. 209,593

5 Claims. (Cl. 48—206)



1. In a continuous process for the preparation of carbon monoxide and hydrogen, by the partial combustion with an oxidizing gas containing at least 90% oxygen of pulverized coal at a temperature sufficient to melt the ash to molten slag, conducted in a vertically disposed cylindrical combustion zone, the steps which comprise premixing the pulverized coal, steam and an oxidizing gas containing at least 90% oxygen by a two-step process, in the first step of which the pulverized coal is premixed with steam and in the second step of which the two-component mixture of the first step is mixed with substantially 90% oxygen, passing the resulting mixture through a plurality of opposed burners situated in a plane to which the axis of the zone is substantially perpendicular, intersecting the flames from the burners within the combustion zone and substantially in the plane of the burners, discharging the slag in a molten state from the combustion zone, passing a portion of the gaseous products of combustion from the zone with the slag, effecting the intersection of the flames above and in proximity to the slag as it is discharged from the zone, and maintaining the molten slag in a free-flowing state during its discharge by direct heat exchange with the intersecting flames and by direct heat exchange with the gaseous products being discharged with the slag.

2,716,599

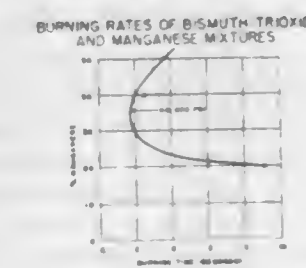
### DARK BURNING IGNITER COMPOSITION

Raymond H. Heiskell, Compton, Calif.

Application December 1, 1949, Serial No. 130,584

8 Claims. (Cl. 52—2)

(Granted under Title 35, U. S. Code (1952), sec. 266)



2. A highly stable dark burning igniter composition comprising from 85 to 45% of bismuth trioxide, from 15 to 55% manganese, and up to 10% of a binder.

3. A highly stable dark burning igniter composition comprising from 85 to 45% of bismuth trioxide, from 15 to 55% manganese, and up to 10% of a lubricant.



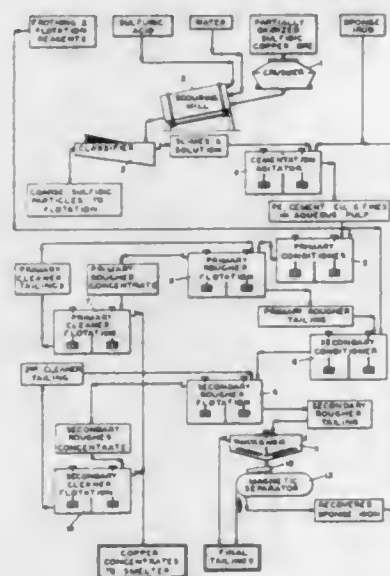
2,716,600

**METHOD OF RECOVERING COPPER FROM SULFIDIC COPPER ORE**

Frederick F. Frick, Anaconda, Mont., Carroll Paul Donohoe, Naco, Ariz., and Kurt Felix Ruckwardt, Anaconda, Mont., assignors to Anaconda Copper Mining Company, New York, N. Y., a corporation of Montana

Application August 29, 1950, Serial No. 181,964

2 Claims. (Cl. 75—2)



2. In a process of the character described, in which a pulp of sulfidic copper ore slimes in an acidic aqueous medium containing dissolved copper is treated with metallic iron to precipitate the dissolved copper as metallic cement copper, and in which the acidic pulp is thereafter subjected to froth flotation in an acid circuit to produce a concentrate of sulfide copper and cement copper suitable for smelting, the improvement which comprises treating said acidic pulp with an amount of granular metallic iron substantially in excess of that required to precipitate the dissolved copper, retaining such excess of metallic iron suspended in the acidic pulp during the subsequent flotation operation, whereby loss of metallic copper by re-solution during progress of the flotation operation is minimized, recovering a tailing containing unconsumed metallic iron from the flotation operation, separating the metallic iron from said tailing, and employing such separated metallic iron in the precipitation treatment of a further quantity of said pulp.

2,716,601

**LOW TEMPERATURE REDUCTION OF IRON OXIDES IN THE PRESENCE OF HALIDE**

Henry L. Crowley, South Orange, N. J., assignor, by mesne assignments, to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

No Drawing. Application May 8, 1950, Serial No. 160,829

2 Claims. (Cl. 75—34)

1. The process of making non-pyrophoric iron in discrete particles, which comprises subjecting an iron oxide containing material to the action of a gaseous reducing agent containing hydrogen at a temperature within the range of 500 to 600° C. and in the presence of a hydrogen halide other than the fluoride in amount less than theoretically required to convert a substantial amount of the iron oxide to the corresponding iron halide, then subjecting the resulting material to the action of a gaseous reducing agent containing hydrogen but in the absence of any hydrogen halide at a temperature within the range of 500 to 600° C., and thereafter cooling the reduced material in a non-oxidizing atmosphere and thereby producing a non-pyrophoric iron powder.

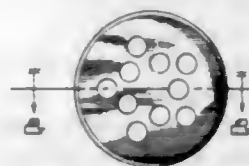
2,716,602

**COMPOSITION FOR TREATING NODULAR IRON**

Elbert E. Ensign, Ypsilanti, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application May 11, 1951, Serial No. 225,853

4 Claims. (Cl. 75—53)



3. A refractory body comprising a porous body of sand bonded together by an at least partially cured phenolic type resin and carrying a magnesium type flux and a waterproofing agent.

2,716,603

**METHOD OF PRODUCING MAGNESIUM AND MAGNESIUM ALLOYS**

Edward F. Emley and William Unsworth, Clifton Junction, near Manchester, England, assignors to Magnesium Elektron Limited, Clifton Junction, near Manchester, England, a British company

Application March 4, 1952, Serial No. 274,748

Claims priority, application Great Britain

March 8, 1951

6 Claims. (Cl. 75—67)

1. A process for improving the corrosion resistance of magnesium base alloys containing zirconium wherein the magnesium base alloy is introduced into a container which is rotated at a speed high enough to produce a comparatively sharp separation of the undesirable suspended particles in the alloy, the rotation is continued until the alloy solidifies whereupon it is removed from the container, and the outer skin containing the particles is removed.

2,716,604

**PROCESS FOR PRODUCING NODULAR IRON**

Harold N. Bogart and Robert B. Melmoth, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

No Drawing. Application June 15, 1951, Serial No. 231,896

5 Claims. (Cl. 75—130)

1. The process of producing cast iron castings having free carbon in the nodular form comprising applying a magnesium type flux to the stream of molten iron containing a nodularizing residual of magnesium as the molten iron is poured into the final mold.

2,716,605

**ACID RESISTANT SILVER-PALLADIUM-GOLD ALLOYS**

Johannes Schatz, Frankfurt am Main, Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany

Application December 15, 1952, Serial No. 326,038

Claims priority, application Germany December 22, 1951

2 Claims. (Cl. 75—173)

1. An acid resistant alloy composed of 35 to 70% of silver, 15 to 50% of palladium, 5 to 20% of gold and 0.2 to 0.9% of chromium.

2,716,606

**FOOD WHIPPING AGENT**

Bernard A. Patterson, Chicago, Ill.

No Drawing. Application December 26, 1952, Serial No. 328,124

8 Claims. (Cl. 99—14)

1. A whipping agent for cakes, pies, meringues and the like foodstuffs which comprises an alkali metal caseinate, lactose, and a phosphate, said agent having a pH value of from 6.8 to 7.2.

2,716,607

**BEVERAGE-BREWING BAG**

Clifford M. Waline, Oakland, Calif.

Application March 9, 1951, Serial No. 214,689

1 Claim. (Cl. 99—77.1)



In a beverage-brewing bag comprising upper and lower panels fashioned from a poriferous material having interstices through which a liquid will pass while filtering out sediment from a brewable substance contained within the bag, the bag further including a marginal wall interconnecting these panels, each panel having intersecting creases therein extending inwardly of the bag laterally of the panels with the creases in one panel arranged in registration with the creases in the other panel, said intersecting creases being formed by portions of the panels extending substantially laterally of the panel surfaces to a base interconnecting said portions below the surfaces of said panels and substantially midway between the two panels, and fastening means extending along said bases and interconnecting said bases to provide barriers for dividing the interior of the bag into a plurality of separate compartments, the facing portions of the compartments being disposed closely adjacent each other with the facing portions of said panels forming said compartments and forming each crease being separated at said base by a distance substantially equal to the lateral width of the fastening means and each compartment containing a quantity of the brewable substance.

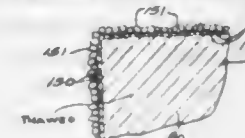
2,716,608

**METHOD OF HANDLING FROZEN MEATS AND FISH**

Gerald H. Renish, Racine, Wis.

Application June 18, 1951, Serial No. 232,128

9 Claims. (Cl. 99—194)



1. In the preparation of pre-frozen flesh for cooking, the subsequent step of breaching the flesh while it remains frozen, at least sufficiently to preclude substantial loss of natural juices, the breaching providing an absorbent for such juices as they escape during thawing and also serving to reduce evaporation.

2,716,609

**STERILIZING CANNED FOODS**

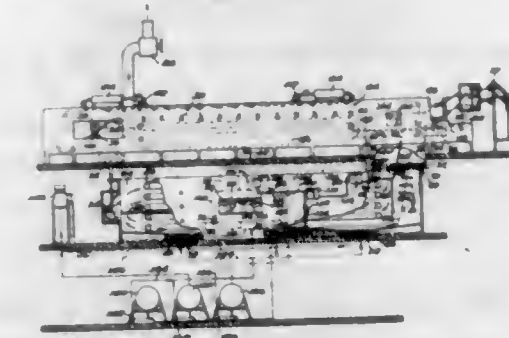
Robert H. Stimpson, Pittsburgh, and James B. Anderson, Mount Lebanon Township, Allegheny County, Pa., assignors to H. J. Heinz Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application February 19, 1951, Serial No. 211,612

6 Claims. (Cl. 99—214)

1. A method of sterilizing and cooking food products in closed containers comprising continuously conveying the containers through a chamber having a top opening at one end thereof for ingress and egress of the containers, continuously vaporizing a liquid non-azeotropic mixture of trichloroethylene and perchloroethylene within the chamber at a rate to maintain a constant volume of vapors within the chamber at atmospheric pressure and of a specific gravity from four to six times that of air, circulating the vapors in a closed circuit within the cham-

ber at a velocity sufficient to maintain the vapors at a uniform temperature while completing the circuit of the chamber, automatically and selectively supplying one of the hydrocarbons to the liquid mixture being evaporated for maintaining the mixed vapors at a pre-selected temperature, heating the containers and contents



by condensing the circulating vapors in contact with the containers for a period sufficient to raise the food to the desired temperature within a range of 189° to 250° F. for sterilizing and cooking the food, then cooling the containers emerging from the chamber to arrest the cooking of the contents.

2,716,610

**AUTOMOBILE POLISH COMPOSITIONS**

Dominick Russo and Henry H. Cooke, Elizabeth, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,077

2 Claims. (Cl. 106—3)

1. An automobile polish having approximately the following weight per cent composition:

Oil soluble petroleum sulfonate (450-550 mol. wt.) of a metal selected from the group consisting of sodium and potassium	0.1
Camphor oil	3.0
Spindle oil	8.4
Bentonite	2.0
Water-soluble emulsifying agent selected from the group consisting of medium chain alcohol sulfates, sulfonated ester derivatives, and sulfonated aromatic derivatives	0.33
Diatomaceous earth	12.50
Water	73.67
	100.00

2,716,611

**RUST PREVENTIVE COMPOSITION**

Charles E. Paxton, Jamesburg, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application October 30, 1951, Serial No. 253,963

5 Claims. (Cl. 106—14)

1. A rust inhibiting composition consisting essentially of a major proportion of mineral base solvent oil, about 2 to 8% by weight based on the total composition of, microcrystalline wax of melting point between 140° and 190° F. and penetration below 40 mm./10 at 77° F., ASTM, as a primary film forming agent, and 0.2 to 3% of a long chain fatty acid partial ester of polyhydric alcohol as a surface active and synergistic rust inhibiting agent, said fatty acid portion of the partial ester containing from about 12 to 22 carbon atoms and said polyhydric alcohol portion is selected from the group consisting of sorbitan, mannitan and pentaerythritol.



2,716,612

## COMPOSITION FOR SILICONE-TREATED ARTICLES

Lewis Marks, Jackson Heights, and Allison M. Stern, New York, N. Y., assignors to Polymer Industries, Inc., Astoria, N. Y., a corporation of Delaware  
No Drawing. Application August 28, 1951,  
Serial No. 244,102  
4 Claims. (Cl. 106—146)

1. A composition for adhering materials to silicone-treated surfaces consisting essentially of 347 parts of water, 650 parts of soluble yellow tapioca dextrine, 3 parts of phenol, and 500 parts of a 60% aqueous solution of hydrogen fluoride.

2,716,613

## WATER SOLUBLE ADHESIVE AND A PROCESS OF MAKING IT

William Schoen, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware  
No Drawing. Application June 1, 1951,  
Serial No. 229,541  
7 Claims. (Cl. 106—163)

7. An improved dry water-soluble adhesive composition consisting essentially of ammoniated water-soluble material obtained from the reaction product of the hydrolysis of lignocellulose under elevated temperature and pressure in the presence of moisture, said composition having a fixed nitrogen content of from about 1% to about 2.5%.

2,716,614

## VISCOSSE COMPOSITION AND REGENERATED CELLULOSE BANDS

William Grogan O'Connell, Buffalo, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware  
No Drawing. Application September 28, 1951,  
Serial No. 248,885  
8 Claims. (Cl. 106—164)

6. Viscose containing from 20% to 65% by weight, based on the weight of cellulose in the viscose, of particles of wet-ground, heat-treated mica, 80% of said particles measuring between 20 and 100 microns, and up to 4% by weight of stainless steel flake.

2,716,615

## A DRY FILM COMPOSED OF CARBOXYMETHYL CELLULOSE AND DIPROPYLENE GLYCOL

Robert S. Voris, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware  
No Drawing. Application April 6, 1951,  
Serial No. 219,757  
1 Claim. (Cl. 106—189)

As a new composition of matter, a substantially dry film consisting essentially of the free acid form of carboxymethylcellulose having at least about 0.5 carboxymethyl substituent group per anhydroglucose unit in the cellulose, and a plasticizing amount up to equal proportions by weight based on said carboxymethylcellulose of dipropylene glycol distributed uniformly therethrough and compatible therewith, said film characterized by being insoluble in water and in organic solvents.

2,716,616

## TREATED BITUMINOUS AND AGGREGATE COMPOSITIONS

John L. Rendall and Donald R. Husted, St. Paul, Minn., assignors to Minnesota Mining and Manufacturing Company, St. Paul, Minn., a corporation of Delaware  
No Drawing. Application May 23, 1949,  
Serial No. 94,933  
4 Claims. (Cl. 106—273)

1. A composition comprising a bituminous material as the dominant ingredient and having blended therewith

from 0.05 to 2% of the condensation product of (1) a chlorinated liquid petroleum hydrocarbon, composed predominantly of C<sub>9</sub> to C<sub>30</sub> hydrocarbons, and containing 5–30% of combined chlorine, and (2) a liquid alkylene-polyamine; said condensation product being substantially free of chlorine and being composed mainly of mono-substituted hydrocarbon alkylene-polyamines containing a terminal primary amino (—NH<sub>2</sub>) radical, said alkylene-polyamine groups being largely joined to non-terminal carbon atoms of the hydrocarbon molecules.

2,716,617

## FELTED FIBROUS CELLULOSIC STRUCTURAL BOARD HAVING RIGIDIFIED PORTION AND METHOD OF MAKING SAME

Herbert F. Austin, Jr., Great Neck, Moses Konigsberg, Roslyn, John M. Morrison, New York, and Frank C. Campins, Pelham, N. Y., assignors, by direct and mesne assignments, to Jam, Wichita, Kans., a partnership  
No Drawing. Application February 7, 1951,  
Serial No. 209,916  
12 Claims. (Cl. 117—37)

10. A process for preparing a rigidified, fibrous, felted, cellulosic, structural board which comprises applying to surface portions of a preformed, porous, soft board a sufficient amount of a high penetrating small particle size, low viscosity, and high solids concentration resin dispersion to produce upon drying in said board a rigid portion, extending from the surface inwardly for a substantial depth in the area of said application.

2,716,618

## PROCESS OF COLORING GLASS FABRICS

Richard W. Stenzel, Palos Verdes Estates, and Herman Plaut and George G. Buchanan, Los Angeles, Calif.  
No Drawing. Application September 5, 1951,  
Serial No. 245,256  
5 Claims. (Cl. 117—65)

1. A process of coloring glass fabrics comprising treating the fabric with an aqueous metallic salt solution, heating the treated fabric to a temperature between 900° F. and 1200° F., to thereby form a layer of an oxide of said metal adhering to the glass surface, cooling the fabric, treating said coated fabric with a second solution containing an anion capable of reacting with said metal oxide to form a colored compound, and heating said treated fabric at a temperature between 900° F. and 1200° F., to thereby form the colored compound adhering to said glass fabric.

2,716,619

## PROCESS FOR COATING ASBESTOS-CEMENT PRODUCTS

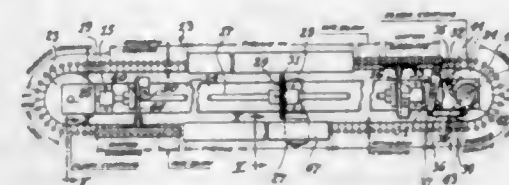
Howell S. Jobbins, Livingston, N. J., and Walter J. Schwarz, New Orleans, La., assignors to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts  
No Drawing. Application August 19, 1952,  
Serial No. 305,298  
16 Claims. (Cl. 117—72)

1. A process for preparing a non-blooming asbestos-cement product with a temporary coating which comprises applying to the surface of an asbestos-cement sheet a transparent substantially colorless solid water insoluble synthetic resin in a dilute liquid carrier, drying the sheet to drive off the liquid carrier, said resin being applied in an amount such that when dried the resin has a thickness of from 0.1 to 2.0 mills.

2,716,620

## MACHINE AND METHOD FOR COATING BULBS

James H. Green, Verona, and Stanley A. Lopenski, Pompton Plains, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application January 26, 1952, Serial No. 268,412  
10 Claims. (Cl. 117—94)



1. A machine for automatically coating bulbs comprising a conveyor, means for driving said conveyor and causing it to index from station to station, means on said conveyor for holding a series of bulbs with their axes vertical, means disposed at one station along said conveyor for spraying enamel on the exterior surfaces of said bulbs, one by one, as they are stationary and indexed thereat, and means at succeeding stations for drying and baking the enamel on said bulbs.

2,716,621

## INTERIOR FINISH FOR CEDAR CHESTS

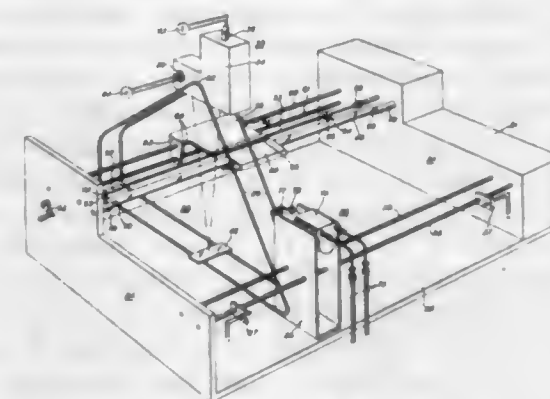
Ernest C. Crocker, Belmont, Mass., assignor, by mesne assignments, to The Lane Company, Inc., Altavista, Va., a corporation of Virginia  
No Drawing. Application August 27, 1951,  
Serial No. 243,920  
11 Claims. (Cl. 117—161)

1. A method of finishing an interior cedar aroma exuding surface with a finish permeable to and nonabsorptive of cedar aroma comprising applying initially in fluid form to said surface unplasticized chlorinated rubber.

2,716,622

## METHOD AND APPARATUS FOR SPRAY COATING ARTICLES

Orrington C. Foster, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application October 6, 1952, Serial No. 313,297  
12 Claims. (Cl. 117—201)

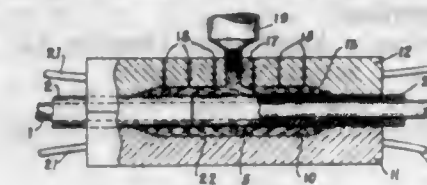


1. The method of accurately depositing a small quantity of fluent material upon an article in a predetermined quantity including the steps of continuously directing a quantity of fluent material at the article, interposing a transparent slide directly between the article and fluent material source, oscillating the slide in the path of the fluent material directed toward the article to collect a sample of the material, measuring the light transmission of the sample, and shielding the article from further deposit when the light transmission of the sample falls to a prescribed level.

2,716,623

## METHOD OF INSULATING A SHORT SECTION OF AN ELECTRIC CABLE

Kenneth Tator, Coraopolis, Pa.  
Application March 13, 1951, Serial No. 215,274  
9 Claims. (Cl. 154—2.22)



1. The method of insulating the exposed portion of an electric conductor at a gap in the original insulation of an electric cable, said method comprising fitting a mold around the exposed portion of the conductor and the adjacent ends of the original insulation, filling the mold with a mobile liquid plastisol at room temperature, heating the mold until the plastisol solidifies into a flexible solid, and removing the cable from the mold thereby exposing the plastisol to room temperature.

2,716,624

## WITHDRAWN

2,716,625

## METHOD OF MAKING A SURGICAL PAD

William M. Scholl, Chicago, Ill.  
Original application December 21, 1950, Serial No. 202,034. Divided and this application March 29, 1952, Serial No. 279,335  
8 Claims. (Cl. 154—79)



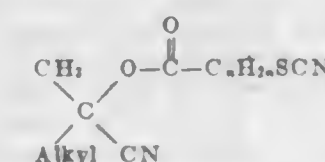
1. The method of making surgical pads, including the steps of placing a sheet of double-faced adhesive tape on a backing plate, cutting individual pad-shaped pieces from said sheet, removing the waste material, placing a sheet of cushioning material over said pieces, and cutting pad-shaped units from the cushioning material sheet over said pieces.

2,716,626

## THIOCYANO FATTY ACID ESTERS OF METHYL ALKYL KETONE CYANOHYDRINS AND INSECTICIDES CONTAINING THEM

Henry Martin, Zurich, Switzerland, assignor to Cilag Limited, Schaffhausen, Switzerland, a Swiss company  
No Drawing. Application December 30, 1952,  
Serial No. 328,813  
Claims priority, application Switzerland January 11, 1952  
3 Claims. (Cl. 167—22)

1. New thiocyno fatty acid esters of cyanohydrins of methyl alkyl ketones of the general formula



wherein Alkyl is a lower alkyl radical and  $n$  is an integer from 1 to 5.



2,716,627

**1-ARYL DERIVATIVES OF 2-NITROISOPROPYL-PHENYLALKANES AND INSECTICIDAL COMPOSITIONS CONTAINING THE SAME**

Arnold N. Johnson, Passaic, N. J., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application October 12, 1953, Serial No. 385,695

16 Claims. (Cl. 167—30)

1. The compounds represented by the formula:



wherein R is selected from the group consisting of methyl and ethyl and Ar is selected from the group consisting of tolyl, xylyl, ethylphenyl and isopropylphenyl.

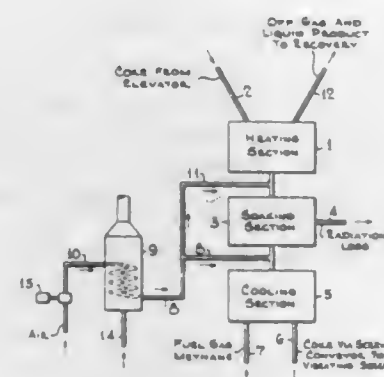
2,716,628

**DESULFURIZATION OF PETROLEUM COKE**

John Weikart, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

Application November 13, 1950, Serial No. 195,185

2 Claims. (Cl. 202—31)



1. A process for desulfurizing petroleum coke by heat soaking the coke at a temperature of about 2500° to 3000° F. including the steps of passing the coke through a heating zone, a heat soaking zone, and a cooling zone, in the said cooling zone contacting hot coke from the heat soaking zone with a fuel gas comprising principally methane, in the said heat soaking zone contacting coke from the said heating zone with the said fuel gas from the cooling zone in the presence of oxygen whereby oxidation of the coke is minimized by the preferential combustion of the fuel gas providing temperatures of 2500° to 3000° F., and maintaining the coke in the heat soaking zone for a period sufficient to decompose sulfur compounds, and in the heating zone contacting coke with hot effluent gases from the heat soaking zone, said process further being characterized by use of an excess of fuel gas beyond that required for combustion to provide a heat transfer medium between said zones.

2,716,629

**METHOD FOR PREVENTING AMMONIUM CARBAMATE ACCUMULATION IN UREA SYNTHESIS LIQUOR STILL**

Shinjiro Kodama, Kyoto, Kyoto Pref., and Toshihide Goto, Daisuke Komiyama, Tadanao Ota, and Nobuo Zen, Niihama-shi, Ehime Pref., Japan

Application April 13, 1954, Serial No. 422,984

4 Claims. (Cl. 202—39.5)

1. In a method for synthesizing urea which includes the steps of reacting ammonia and carbon dioxide to form a urea- and ammonia- containing solution, heating said solution whereby water, ammonia and carbon dioxide vapors are liberated, passing said vapors successively through a stripping zone and an enrichment zone of a

distilling column, removing ammonia from the final stage and recycling the ammonia, the improved method of in-



surging carbon-dioxide free ammonia which comprises adding water to the enrichment section of said column.

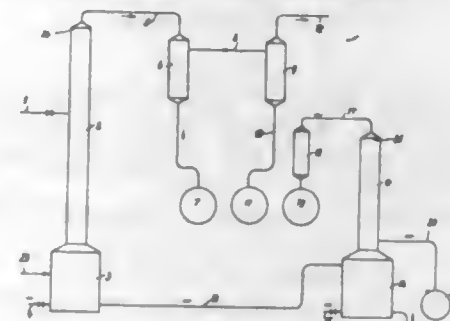
2,716,630

**DISTILLATION OF TALL OIL**

Willy Johann Albrecht Spangenberg, Hamburg-Blankenese, and Karl Hans Wilhelm Culemeyer, Hamburg-Langenhof, Germany, assignors to Willy Spangenberg & Co., Hamburg-Eidelstedt, Germany, a firm

Application January 26, 1951, Serial No. 207,883

9 Claims. (Cl. 202—52)



1. A two-stage process for obtaining substantially pure fatty acids and resin acids from tall oil containing the same as well as comparatively non-volatile and unsaponifiable components which comprises in the first stage subjecting the tall oil to distillation in comparatively thin layers under substantially high vacuum with the aid of wet steam, the distillation temperature being maintained above the boiling point of the fatty acids therein and below that of the resin acids content, said temperature being within the approximate range of 230° C. to 240° C., conducting the vapors evolved by the said distillation to a rectification zone for fractionally separating vapor constituents, maintaining a dephlegmation zone, at a temperature of approximately 200° C., at the outlet end of the rectification zone, whereby components condensed in the said rectification zone return to the distillation zone containing tall oil residue, conducting the vapors evolved from the rectification zone to a first zone of condensation maintained at a temperature approximately within the range of 150° C. to 180° C., thereby condensing fatty acids of approximately 18 C atoms, conducting the vapors evolved from said first condensation zone to a second condensation zone maintained at a temperature below that of the first condensation zone for separating additional fatty acids having a lower number of C atoms, subjecting the remaining volatile components from the said second condensation zone to further condensation, said final condensation being adapted to produce a vacuum below approximately 5 mm. Hg, the vacuum during all of the aforesaid treatment, including that in the distillation, rectification and condensation zones, being maintained below approximately 20 mm. Hg; and in the second stage, conducting the tall oil residue, comprising resin acids and the comparatively non-volatile unsaponifiable components of the tall oil, from the first stage distillation treatment to a second distillation zone, subjecting the said residue in the latter zone to distillation with

the aid of wet steam in comparatively thin layers under substantially high vacuum, the temperature in the distillation zone being maintained approximately within the temperature range of 290° C. to 310° C., conducting the vapors evolved by the said distillation to a rectification zone for fractionally separating vapor constituents, maintaining a dephlegmation zone at a temperature approximately within the range of 190° C. to 200° C., at the outlet end of the latter rectification zone, whereby the relatively volatile components, including any fatty acid constituents, are separated from the resin acids condensed in said rectification zone, conducting the said volatile components to a condensation zone for recovering fatty acids, and conducting the resin acids from a point approximately adjacent the inlet end of the rectification zone to collect the same, the vacuum conditions during the aforesaid second stage of treatment being maintained below approximately 20 mm. Hg.

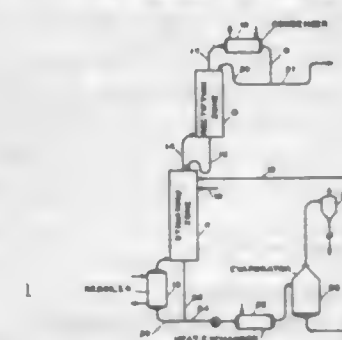
2,716,631

**NITRIC ACID CONCENTRATION**

Robert J. Bechtel, New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application November 3, 1951, Serial No. 254,768

7 Claims. (Cl. 202—68)



1. The method of concentrating a weak aqueous nitric acid solution which comprises fractionally distilling said nitric acid solution in a stripping zone and a rectifying zone, the introduction of said nitric acid solution being made to said stripping zone; introducing a concentrated aqueous solution of an alkaline earth metal nitrate to said stripping zone not below the point of introduction thereto of said nitric acid solution; passing vapors of nitric acid and water from the top of said stripping zone to said rectifying zone; passing a liquid solution of nitric acid and water from the bottom of said rectifying zone to the top of said stripping zone; recovering substantially all of the nitric acid entering said stripping zone in a concentrated aqueous solution from the top of said rectifying zone; and recovering a dilute aqueous solution of said metal nitrate substantially free of nitric acid from the bottom of said stripping zone.

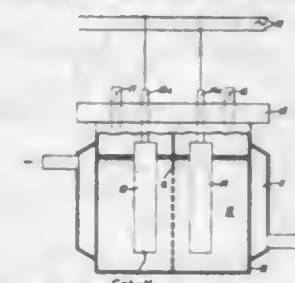
2,716,632

**ELECTROLYTIC METHOD OF PRODUCING FLUORINE OR FLUORINE OXIDE**

Willard T. Grubb, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 21, 1952, Serial No. 272,747

4 Claims. (Cl. 204—60)



1. The method of electrolytically generating a gas selected from the class consisting of fluorine and OF<sub>2</sub> with

697 O, G.—46

an alternating current which comprises positioning a first electrode composed substantially of cobalt in an electrolyte containing HF, an alkali fluoride and up to about 1% water, by weight, positioning a second electrode substantially free of cobalt in said electrolyte, compartmenting said electrodes by means of a diaphragm placed between said electrodes, subjecting said electrodes to an alternating potential, and withdrawing gases generated at the electrodes through separate withdrawal means for each of said gases generated.

2,716,633

**POLYMERIZABLE COMPOSITIONS**

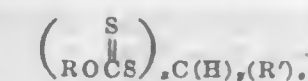
Vaughn Arthur Engelhardt, Claymont, Del., and Marvin Leroy Peterson, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 22, 1954,

Serial No. 445,182

12 Claims. (Cl. 204—158)

1. A composition comprising a photopolymerizable ethylenically unsaturated organic compound and, as a photoinitiator therefor, from 0.1% to 10% of a compound of the formula



wherein R is an alkyl radical, x and z are positive integers from 1 to 2, inclusive, y is an integer from 0 to 2, inclusive, the sum of x+y+z equals 4, and R' is an organic radical whose free valence bond is on a doubly bonded carbon atom, said double bond being joined to an atom of the group consisting of carbon and oxygen atoms.

2,716,634

**TRANSPARENT RUST PREVENTIVE CUTTING OIL COMPOSITION**

James F. Black, Roselle, and John D. Oathout, Cranford, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application March 17, 1953,

Serial No. 342,958

13 Claims. (Cl. 252—33.4)

1. A water soluble composition suitable for use in aqueous cutting oils and rust preventatives consisting essentially of a mixture of one part by weight of an oil-soluble alkali metal petroleum sulfonate, in the range of 0.5 to 2.0 parts by weight of a mineral lubricant base stock, in the range of 0.02 to 0.4 part by weight of a rust inhibitor selected from the group consisting of alkali metal nitrites and alkali metal chromates, and in the range of 0.02 to 0.4 part by weight of an acidic material selected from the group consisting of alkali metal dihydrogen phosphates and long chain aliphatic monocarboxylic acids having about 12–22 carbon atoms in the aliphatic chain.

2,716,635

**VULCANIZATION OF RUBBER**

Arnold R. Davis, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application December 23, 1952,

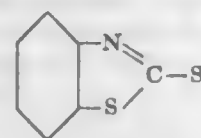
Serial No. 327,671

20 Claims. (Cl. 260—3)

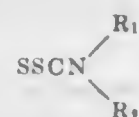
1. A composition obtained by milling together an unvulcanized vulcanizable rubber and an accelerator obtained by reacting 1–4 mol parts of formaldehyde, 1–4 mol parts of a thiazole selected from the group consisting of mercaptobenzothiazole, mercaptothiazoline and benzothiazolyl disulfide, and one mol part of the diarylguani-



dine salt containing the radical selected from the group consisting of



and



in which R<sub>1</sub> is selected from the group consisting of H, alkyl, aryl, alkoxyalkyl and thiazyl-substituted alkyl, and R<sub>2</sub> represents an aryl radical; but when R<sub>1</sub> is a radical selected from the group consisting of alkyl, aryl, alkoxyalkyl and thiazyl-substituted alkyl, then R<sub>2</sub> represents a radical selected from the group consisting of alkyl, aryl and alkoxyalkyl; and in which R<sub>1</sub> and R<sub>2</sub> taken together with the nitrogen constitute a heterocyclic ring.

2,716,636

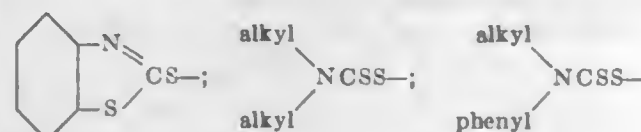
#### VULCANIZATION OF RUBBER

Arnold R. Davis, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

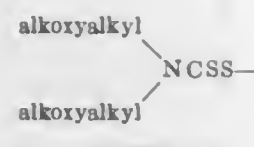
No Drawing. Application December 23, 1952, Serial No. 327,674

16 Claims. (Cl. 260—3)

1. A composition obtained by milling together an unvulcanized vulcanizable rubber and an accelerator which is a reaction product of 1-6 mols of formaldehyde, 1-6 mols of a member selected from the group consisting of mercaptobenzothiazole and mercaptothiazoline, and one mol of an addition product which may be represented by the formula A<sub>2</sub>Zn(B)<sub>2</sub> in which "A" represents a diarylguanidine, "x" represents the integers one and two, and "B" represents a radical selected from the group consisting of



and



2,716,637

#### SIMULATED SNOW COATING

Albert L. Bunting, Dearborn, Mich., assignor to Continental Filling Corporation, Danville, Ill., a corporation of Illinois

No Drawing. Application October 13, 1952, Serial No. 314,565

5 Claims. (Cl. 260—23)

1. A self-spraying pressurized artificial snow-forming composition consisting essentially of a solution, said solution comprising a minor proportion not exceeding about 12% of a thermoplastic material selected from the group consisting of polymerized methyl acrylate, alkyl methacrylate polymers, polystyrene, and ethyl cellulose, and a minor proportion not exceeding about 12% of a free fatty acid selected from the group consisting of stearic acid and palmitic acid, said material and said acid being dissolved in a major proportion of a solvent-propellant consisting essentially of a pressure-liquefiable, normally gaseous, halogen-substituted aliphatic hydrocarbon containing at least one fluorine atom.

#### 2,716,638 DIVINYLTETRAMETHYLDISILOXANE AND POLYMERS THEREFROM

Merrill Cohen, Jamaica Plain, Mass., and John R. Ladd, Alplaus, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application November 22, 1952, Serial No. 322,150

11 Claims. (Cl. 260—46.5)

1. Divinyltetramethyldisiloxane.

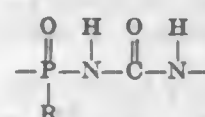
#### 2,716,639 POLYMERS FROM UREA AND CHLOROALKYL PHOSPHONYL DICHLORIDES

Alfred Coles Haven, Jr., Hancock's Bridge, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 2, 1954, Serial No. 441,171

5 Claims. (Cl. 260—77.5)

5. A process for the preparation of a polymeric chloroalkylphosphonamide containing in the polymer chain the recurring structural unit



wherein R is a chloroalkyl radical selected from the group consisting of chloromethyl, dichloromethyl and trichloromethyl radicals which comprises heating a chloroalkylphosphonyl dichloride of the formula RPOCl<sub>2</sub>, wherein R has the values defined above, with urea at a temperature of about 200 to 300° C. until the evolution of hydrogen chloride ceases.

2,716,640

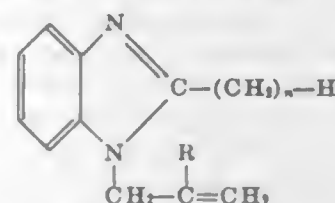
#### FIBER FORMING COPOLYMER

Alfred B. Craig and George E. Ham, Dayton, Ohio, assignors, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application November 21, 1950, Serial No. 196,941

7 Claims. (Cl. 260—85.5)

1. A polymeric composition comprising from 85 per cent to 98 per cent by weight of acrylonitrile in polymeric form, and from two to 15 per cent by weight of a compound having the structural formula



wherein R is a radical of the group consisting of hydrogen, chlorine, and methyl and n is a small whole number from 0 to 4, inclusive.

#### 2,716,641 PROCESS OF POLYMERIZING OLEFINICALLY UNSATURATED COMPOUNDS

Franciscus Johannes Fredericus van der Plas and Christiaan Pieter van Dijk, Amsterdam, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 9, 1951, Serial No. 250,574

Claims priority, application Netherlands

October 27, 1950

12 Claims. (Cl. 260—91.7)

1. In a process for producing polymer of a vinylidene compound which is at least only partially miscible with water wherein drops of monomer of the vinylidene compound are continuously introduced into submerged contact with a vertical column of a liquid aqueous medium at polymer-producing temperature for said vinylidene com-

pound, said aqueous medium containing a water-soluble peroxy polymerization catalyst and an emulsifying agent for formed polymer of said vinylidene compound; and wherein said drops are conducted through said column of aqueous medium while maintaining the rate of introduction of said monomer drops such that a majority of the introduced monomer passes clear through the aqueous medium in monomeric form, the movement of the drops through said aqueous medium being effected primarily by difference in density of said drops and the medium, which medium is free of mechanically induced agitation; and further wherein the drops of the vinylidene compound which have passed through the aqueous medium are collected into an integral monomer phase which is maintained in contact with the aqueous medium; the improvement which comprises also introducing continuously into said aqueous medium a substantial amount of an aqueous emulsion of said vinylidene compound.

2,716,642

#### TREATMENT OF POLYVINYLCHLORIDE WITH LITHIUM ALUMINUM HYDRIDE

John Daniel Cotman, Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 12, 1952, Serial No. 309,386

4 Claims. (Cl. 260—92.8)

1. A process for the preparation of thermoplastic polymeric materials consisting of a multiple carbon-to-carbon chain and containing only carbon, hydrogen and chlorine atoms, said chlorine atoms being randomly distributed on the carbon-to-carbon chain which comprises reacting a homopolymer of vinyl chloride having a degree of polymerization in excess of 100, with lithium aluminum hydride, said reaction being carried out in solution in an anhydrous aliphatic ether under anhydrous and oxygen-free conditions.

2,716,643

#### HYDROXYLATED RESINS FROM POLYVINYL CHLORIDE

John Daniel Cotman, Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 12, 1952, Serial No. 309,387

4 Claims. (Cl. 260—92.8)

1. A saturated thermoplastic polymeric material consisting of a multiple carbon to carbon chain and containing only carbon, hydrogen, chlorine and oxygen atoms, said oxygen being present as part of a hydroxyl group and said chlorine atoms and hydroxyl groups being randomly distributed on the carbon to carbon chain, said material having been prepared by reacting a homopolymer of vinyl chloride with lithium aluminum hydride in the presence of from 0.05 to 0.5 mol of oxygen per mol of homopolymer, said reaction having been carried out in solution in an anhydrous ether.

2,716,644

#### POLYMERIZATION OF VINYL CHLORIDE WITH TRITHIOFORMALDEHYDE REGULATOR

Verne G. Simpson, Wyckoff, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 26, 1952, Serial No. 322,809

4 Claims. (Cl. 260—92.8)

1. The method which comprises polymerizing vinyl chloride at 25° C. to 60° C. in the presence of a free radical producing polymerization initiator and 0.1 to 8%, based on the weight of the vinyl chloride monomer, of trithioformaldehyde.

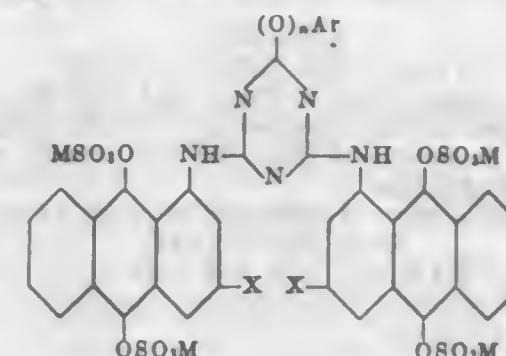
#### 2,716,645 SOLUBLE ESTERS OF YELLOW TRIAZINE VAT DYES

Isalah Von, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 23, 1951, Serial No. 227,929

9 Claims. (Cl. 260—249)

1. A soluble sulfuric ester of a leuco vat dyestuff of the formula



in which M is a cation, n is a number selected from the group consisting of 0 and 1, X is selected from the group consisting of H and Cl, and Ar is an aryl radical of the benzene and naphthalene series, said sulfuric ester being characterized by an atomic ratio of sulfur to nitrogen linked to carbons of the triazine ring of at least 0.7.

2,716,646

#### PROCESS FOR PREPARING AROMATIC NITRILES

Albert V. Willett, Jr., Wilmington, and John R. Pailthorp, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 29, 1951, Serial No. 244,252

7 Claims. (Cl. 260—294.9)

7. A process for preparing alpha-cyanopyridine which comprises reacting alpha-chloropyridine with at least one mol of hydrogen cyanide, said reaction being carried out in vapor phase at temperatures of about 700° C. in the presence of a nickel oxide catalyst supported on aluminum oxide, the mixed vapors being contacted with the catalyst at space velocities of 250 volumes per hour.

2,716,647

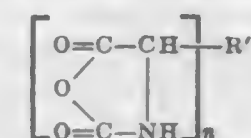
#### N-CARBOXY ANHYDRIDE OF α-AMINO ACIDS

George A. Richardson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

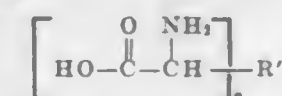
No Drawing. Application July 30, 1952, Serial No. 301,791

14 Claims. (Cl. 260—307)

1. A method of preparing N-carboxy anhydrides of α-amino acids having the structural formula:



which comprises suspending an α-amino acid having the structural formula:



wherein n is an integer from one to two and R' is an organic radical, free from non-benzenoid unsaturation, having n valency bonds and a molecular weight of less than 350, said R' radical being inert to gaseous sulfur



dioxide and phosgene under the instant processing conditions, in an inert anhydrous organic liquid; contacting the suspension with sulfur dioxide at a temperature between about 10° C. and about 25° C.; thereafter contacting the suspension with phosgene at a temperature between about 15° C. and about 60° C.; and recovering the resultant N-carboxy anhydrides of the  $\alpha$ -amino acid from the reaction mixture.

2,716,648

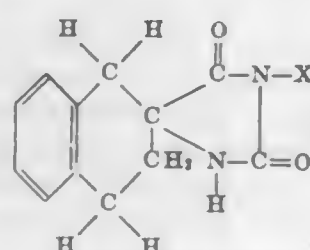
## HYDANTOIN DERIVATIVES

Leonard H. Jules, John A. Faust, and Melville Sahyun, Santa Barbara, Calif., assignors, by mesne assignments, to Cutter Laboratories, Inc., Berkeley, Calif., a corporation of California

No Drawing. Application May 27, 1954,  
Serial No. 432,944

4 Claims. (Cl. 260—309.5)

1. A 7,8-benzo-1,3-diazaspiro(4.5)decane-2,4-dione having the formula:



wherein X is selected from the group consisting of hydrogen, lower-alkyl and alkali metals.

2,716,649

## ACID PASTING OF PHTHALOCYANINE PIGMENTS

Robert E. Brouillard, Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 5, 1951,  
Serial No. 230,084

8 Claims. (Cl. 260—314.5)

1. A process comprising milling with forces predominantly shearing in nature, a mixture comprising a phthalocyanine pigment and a quantity of an acid selected from the group consisting of sulfuric, chloracetic, phosphoric, chlorosulfonic and lower alkyl sulfonic acids, sufficient to produce with the pigment a doughy, kneadable mass, and drowning the milled mixture in water, said acid having a concentration ranging from 68 to 100 per cent by weight and being employed in a ratio of 2 to 5 parts by weight to each part of pigment.

2,716,650

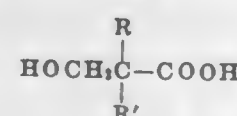
## PREPARATION OF TROPIC ACID AND RELATED COMPOUNDS

Frederick F. Blicke, Ann Arbor, Mich., assignor to Regents of The University of Michigan, Ann Arbor, Mich., a corporation of Michigan

No Drawing. Application January 19, 1951,  
Serial No. 206,920

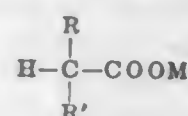
14 Claims. (Cl. 260—332.2)

9. The process for preparing an acid having the formula



wherein R is a member of the class consisting of aromatic hydrocarbon groups of 1-2 rings having less than 15 carbon atoms, thienyl groups, and lower-alkylated thienyl groups; and R' is a member of the class consisting of hydrogen, lower-alkyl groups, lower-alkoxy groups, thienyl groups, lower-alkylated thienyl groups, and aromatic hy-

drocarbon, aromatic hydrocarbon-oxy, and aromatic hydrocarbon-lower-alkyl groups wherein the aromatic radical comprises 1-2 rings having less than 15 carbon atoms, which comprises reacting a compound having the formula



wherein M is a cation, with magnesium and a lower-alkyl halide, reacting the resulting organometallic compound with formaldehyde, and hydrolyzing the resulting complex.

2,716,651

3-(4-CHLORO-7-HYDROXY-3-METHYL-PHTHALIDE-3)-(5,6,8-TRIHYDROXY- $\alpha$ -TETRALONE AND METHOD OF PREPARING THE SAME

Coy W. Waller, Nanuet, and Carl F. Wolf, Spring Valley, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 11, 1952,  
Serial No. 314,407

3 Claims. (Cl. 260—343.3)

1. The new compound 3-(4-chloro-7-hydroxy-3-methyl-phtalide-3)-(5,6,8-trihydroxy- $\alpha$ -tetralone.

2,716,652

## PRODUCTION OF ISODIBENZANTHRONE

Willy Braun, Heidelberg, and Gerhard Treuge, Ludwigshafen (Rhine-Opau), Germany, assignors to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany

No Drawing. Application January 28, 1954,  
Serial No. 406,877

Claims priority, application Germany February 3, 1953  
2 Claims. (Cl. 260—358)

1. An improved process for the production of isodibenzanthrone which comprises heating a mixture of Bz-1-bromobenzanthrone and sodium sulfide in the presence of a small amount of sulfur in a melt of an alkali metal acetate selected from the class consisting of sodium acetate, potassium acetate and a mixture thereof, at about from 140° to 160° C. to produce Bz-1-Bz-1'-dibenzanthronyl sulfide, adding a member of the class consisting of sodium hydroxide, potassium hydroxide and mixtures thereof to the resulting mixture, and heating at about 210° to 215° C.

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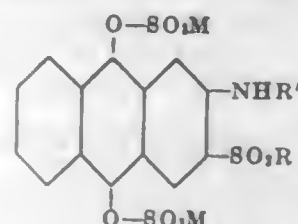
## SOLUBLE VAT DYE INTERMEDIATES

William B. Hardy, Bound Brook, and Harry E. Westlake, Jr., Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 21, 1952,  
Serial No. 289,202

11 Claims. (Cl. 260—371)

1. Leuco sulfuric acid half esters of the formula



wherein R represents an alkyl group of not more than four carbon atoms, R' represents a radical selected from the group composed of hydrogen and an acyl radical, and M is a monovalent cation.

2,716,654

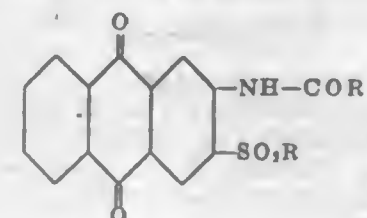
## 2-ACYLAMINO-3-ALKYLSULFONYL ANTHRAQUINONES

Harry E. Westlake, Jr., Somerville, and William B. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 21, 1952,  
Serial No. 289,203

8 Claims. (Cl. 260—372)

1. Compounds of the general formula



wherein R represents an alkyl radical of not more than four carbon atoms, R'CO represents an acyl radical.

2,716,655

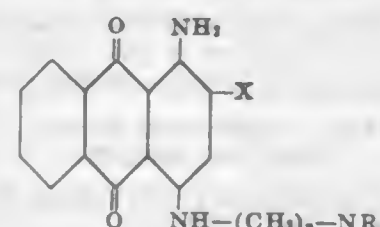
## DYES AND DYE INTERMEDIATES OF THE ANTHRAQUINONE SERIES

Samuel N. Boyd, Jr., Salem, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 12, 1954,  
Serial No. 403,637

6 Claims. (Cl. 260—381)

1. The compounds of the general formula:



wherein X stands for a halogen of the group consisting of chlorine and bromine, R stands for an alkyl group of from 1 to 4 carbon atoms, and n stands for an integer of the group consisting of 2 and 3, and their alkyl ammonium salts.

2,716,656

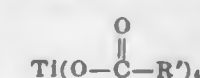
## ORGANO TITANIUM-SILICON COPOLYMER PREPARATION

Thomas Boyd, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 21, 1953,  
Serial No. 332,529

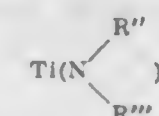
5 Claims. (Cl. 260—429)

1. A process for copolymerizing monomeric tetraorgano derivatives of orthotitanic acid with monomeric organo silicon derivatives which comprises slowly adding with agitation to an anhydrous organic solvent solution of a mixture of said titanium and silicon monomers a mixture of water with an excess of an organic solvent capable of at least partially dissolving the water, said water-solvent mixture containing from 0.5 to 1.5 mols of water per mol of said monomer mixture, said silicon monomer having the formula  $\text{Si}(\text{OR})_4\text{R}'(4-n)$  wherein each R is a monovalent hydrocarbon radical and n is an integer of 1 to 4 inclusive, said titanium monomer being taken from the group consisting of tetra-esters, tetra-anhydrides and tetra-amides of orthotitanic acid, said tetraesters having the formula  $\text{Ti}(\text{OR})_4$  wherein R is a monovalent hydrocarbon radical, said tetra-anhydrides having the formula



wherein R' is taken from the group consisting of alkyl and

aryl radicals and said tetra-amides having the formula



wherein R'' is taken from the group consisting of hydrogen and alkyl and aryl radicals and R''' is taken from the group consisting of alkyl and aryl radicals.

2,716,657

## METHOD OF PRODUCING ORTHOPHOSPHORIC ACID ESTERS

Horst Bretschneider, Frankfurt am Main, Germany, assignor to Metallgesellschaft AG, Frankfurt am Main, Germany, a German corporation

No Drawing. Application October 17, 1950, Serial No. 190,670. In Germany February 26, 1949

Public Law 619, August 23, 1954

Patent expires February 26, 1969

4 Claims. (Cl. 260—461)

1. A method for the production of orthophosphoric acid esters which comprises reacting organic hydroxyl compounds with phosphorus oxychloride in the presence of phosphorus trichloride.

2,716,658

## PURIFICATION OF TRICRESYL PHOSPHATE

Jacob Rosin, Maplewood, N. J., assignor to Montrose Chemical Company, a corporation of New Jersey

No Drawing. Application August 30, 1952,  
Serial No. 307,373

3 Claims. (Cl. 260—461)

1. The process for treating crude tricresyl phosphate, consisting of washing the reaction mixture with a dilute aqueous alkaline solution in the presence of about 1% based on the weight of tricresyl phosphate of an amphoteric metal until the aqueous wash is free from phenolic materials, neutralizing the mixture, drying and filtering it.

2,716,659

## ARYLURETHANS OF HEXYLRESORCINOL

Frank J. Kreysa, Richmond Hill, and Peter Claude Hereld, East Meadow, N. Y., assignors to Chemo Puro Manufacturing Corporation, Long Island City, N. Y., a corporation of New York

No Drawing. Application October 2, 1952,  
Serial No. 312,864

6 Claims. (Cl. 260—471)

1. An aryl carbamate of hexylresorcinol selected from the group consisting of (a) 1-n-hexylresorcinol-2,4-N-phenyl carbamate, (b) 1-n-hexylresorcinol-2,4-N-1-naphthyl carbamate, (c) 1-n-hexylresorcinol-2,4-N-2-naphthyl carbamate, (d) 1-n-hexylresorcinol-2,4-N-diphenyl carbamate, (e) 1-n-hexylresorcinol-2,4-N-p-nitrophenyl carbamate.

2,716,660

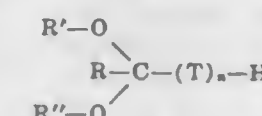
## ACETAL TELOMERS

Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 27, 1950,  
Serial No. 197,829

16 Claims. (Cl. 260—484)

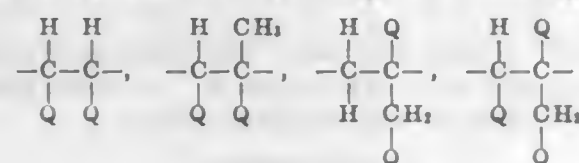
1. The telomeric composition.



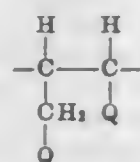
wherein R is selected from the group consisting of hydrogen, alkyl, cycloalkyl and aralkyl radicals, said



hydrocarbon radicals containing up to 7 carbon atoms and being free from non-benzenoid unsaturation; R' and R'' are hydrocarbon radicals containing up to 7 carbon atoms, which are free from non-benzenoid unsaturation; T is a divalent radical selected from the group consisting of



and



wherein Q is the radical  $-\text{COOR}'''$  and R''' is a hydrocarbon radical, free from non-benzenoid unsaturation, containing up to 8 carbon atoms; and n is an integer from 2 to 20.

2,716,661

#### RECOVERY AND UPGRADING OF NAPHTHENIC ACIDS

James H. McAteer, Cranford, N. J., assignor to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application September 7, 1951,

Serial No. 245,633

5 Claims. (Cl. 260-514)

1. A process for recovering and upgrading naphthenic acids, which comprises the steps of contacting a solution of aqueous naphthenates having a pH of 8.5 to 10.5 and a maximum naphthenate concentration of 1 normal with a solution of naphthenic acids in an organic solvent in the absence of added mineral acid, said naphthenic acids in the organic solvent containing a substantial proportion of individual acids having acid numbers greater than those of the weaker naphthenic acids making up the aqueous naphthenate solution; separating the resulting mixture into an organic phase containing said weaker naphthenic acids freed by the naphthenic acids of greater acid number and an aqueous phase containing the upgraded naphthenates; and acidifying the aqueous phase separated from the organic phase with a strong mineral acid after separation from the organic phase to convert the upgraded naphthenates to naphthenic acids.

2,716,662

#### POLYCYCLIC DIBASIC ACIDS

Charles A. Cohen, Roselle Park, and Louis A. Mikeska, Westfield, N. J., assignors to Esso Research and Engineering Company, a corporation of Delaware

No Drawing. Application January 24, 1952,

Serial No. 268,122

11 Claims. (Cl. 260-514)

1. A process for producing reaction products of sodium and a compound selected from the group consisting of cyclopentadiene and alkyl derivatives of cyclopentadiene which comprises reacting finely divided sodium having an average particle size less than 50 microns in diameter with said compound in the presence of less than 1 molar equivalent based on the sodium of a substantially anhydrous aliphatic alcohol activator.

7. Disodium dicyclopentadienyl.

9. A process for the production of dicyclopentadienyl dicarboxylic acid which comprises reacting finely dispersed sodium having an average particle size of less than 50 microns in diameter with a monomeric cyclopentadiene selected from the group consisting of cyclopentadiene, alkyl-substituted cyclopentadienes and mixtures thereof

in the presence of less than one molar equivalent based on the sodium of substantially anhydrous aliphatic alcohol to obtain a reaction product containing the disodium dicyclopentadienyl derivative of said cyclopentadiene, converting the reaction product to disodium dicyclopentadienyl dicarboxylic acid by treating the reaction product with  $\text{CO}_2$  at superatmospheric pressure, and converting the disodium dicyclopentadienyl dicarboxylic acid to the free acid by hydrolysis of the disodium salt.

2,716,663

#### HYDRAZIDES OF PHENYL SUBSTITUTED DIHYDROXYBENZOIC ACIDS

Floyd L. Beman, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application July 9, 1953,

Serial No. 367,087

5 Claims. (Cl. 260-559)

5. A compound selected from the group consisting of (a) the hydrazides and phenyl hydrazides of 3-phenyl-2,5-dihydroxybenzoic acid, 4-phenyl-2,5-dihydroxybenzoic acid, 5-phenyl-2,3-dihydroxybenzoic acid and 6-phenyl-2,5-dihydroxybenzoic acid, and (b) the acid addition salts of said hydrazides and phenyl hydrazides.

2,716,664

#### REMOVAL OF SELENIUM IN ALDEHYDE MANUFACTURE

David James Hadley, Epsom Downs, and Robert Heap, Sutton, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application June 15, 1950,

Serial No. 168,378

Claims priority, application Great Britain July 14, 1949

3 Claims. (Cl. 260-604)

1. In a process for the manufacture of unsaturated aldehydes by the oxidation of olefines with molecular oxygen over heavy metal catalysts in the presence in the reaction zone of elementary selenium, the steps of cooling the gaseous reaction mixture issuing from the reactor whereby deposition and removal of selenium and selenium compounds contained in such mixture is effected, and then conducting the thus-cooled gaseous reaction mixture over gas adsorption charcoal before the gaseous mixture is released to the atmosphere, whereby residual selenium and selenium compounds are removed from said mixture.

2,716,665

#### MANUFACTURE OF UNSATURATED ALDEHYDES

David James Hadley, Epsom Downs, and Charles Albin Woodcock, Beckenham, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application July 27, 1951,

Serial No. 239,002

Claims priority, application Great Britain August 25, 1950

8 Claims. (Cl. 260-604)

1. Process for the manufacture of unsaturated aldehydes by the catalytic oxidation of olefines of the general formula  $\text{R}-\text{C}(\text{CH}_3)=\text{CHR}_1$  wherein R and  $\text{R}_1$  represent substituents selected from the group consisting of hydrogen, a saturated straight chain alkyl group and a saturated branched chain alkyl group which comprises reacting the olefine in the vapour phase at a temperature of about 200-400° C. with molecular oxygen in the presence in the reaction zone of elementary selenium and a solid contact material which has been produced by

precipitating cupric silicate by the addition of an aqueous alkali metal metasilicate solution to an aqueous cupric salt solution in equimolecular proportions and mixing the resulting precipitate with an aqueous suspension of silicic acid in a ratio of 2:12 moles of silica to one mole of copper.

2,716,666

#### PRODUCTION OF ANTHRANYL VINYL ETHERS

Walter Reppe, Ludwigshafen (Rhine), Germany, assignor to Badische Anilin- & Soda-Fabrik Aktiengesellschaft, Ludwigshafen am Rhine, Germany

No Drawing. Application January 9, 1953,

Serial No. 330,588

Claims priority, application Germany January 12, 1952

9 Claims. (Cl. 260-612)

9. An anthranyl-(9) vinyl ether selected from the class consisting of anthranyl-(9) vinyl ether and 1,4-dimethyl-anthranyl-(9) vinyl ether.

2,716,667

#### CHLORINE SUBSTITUTED (1-ARYL-2-NITRO-ALKYL) PHENOLS AND METHOD OF PRODUCING SAME

Edward B. Hodge, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application September 25, 1952,

Serial No. 311,538

10 Claims. (Cl. 260-619)

1. As a new composition of matter, a compound selected from the group consisting of the compounds represented by the formula



wherein R is selected from the group consisting of methyl and ethyl, Ar is selected from the group consisting of phenyl, p-tolyl, 4-chlorophenyl, and 2,4-dichlorophenyl, and n is an integer from 1 to 3, and alkali metal salts thereof.

## ELECTRICAL

2,716,670

#### ALKALINE PRIMARY CELLS

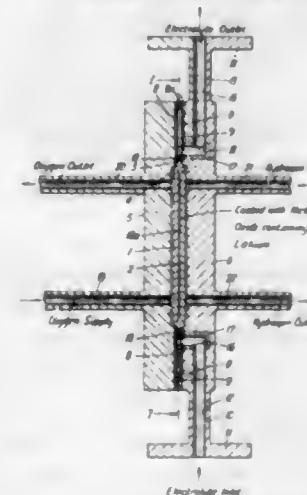
Francis Thomas Bacon, Little Shelford, England, assignor to E. R. A. Patents Limited, Leatherhead, Surrey, England

Application January 11, 1954, Serial No. 403,393

Claims priority, application Great Britain

January 16, 1953

8 Claims. (Cl. 136-86)



1. An electrical primary cell comprising a container, an electrode of nickel mounted in said container and having a coating of nickel oxide in which lithium is incorporated and an alkaline electrolyte in contact with said electrode.

2,716,668

#### POLYHALOGENOMETHANES

Robert Neville Haszeldine, Cambridge, England

No Drawing. Application September 15, 1953,

Serial No. 380,349

Claims priority, application Great Britain

November 10, 1952

1 Claim. (Cl. 260-653)

A halogenomethane selected from the group consisting of chlorofluoriodomethane and bromofluoriodomethane.

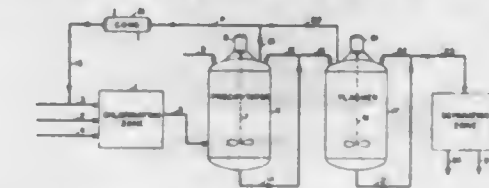
2,716,669

#### CONTINUOUS PRECIPITATION OF CHLORINATED RUBBER

William H. F. Fravel, Metuchen, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application February 25, 1953, Serial No. 338,861

7 Claims. (Cl. 260-772)



1. The continuous process for preparing chlorinated rubber in finely divided form which comprises continuously introducing a solution of chlorinated rubber into a first zone containing a body of hot water maintained at a temperature not more than 10° C. above the boiling point of the solvent in said solution, maintaining the consistency of the resulting slurry substantially constant within the range of 1% to 20% by weight, precipitating chlorinated rubber in said body of water and evaporating only a portion of the solvent from said chlorinated rubber, continuously passing resulting slurry of chlorinated rubber in water to a second zone maintained at a temperature above the temperature of said body of water, and evaporating additional solvent from chlorinated rubber in said second zone.

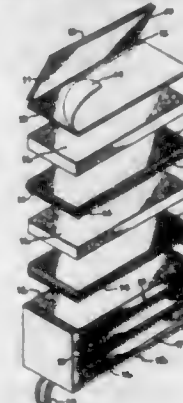
2,716,671

#### CUPROUS CHLORIDE MAGNESIUM PRIMARY BATTERIES

James M. Dines, Joplin, Mo., assignor to The Eagle-Picher Company, Cincinnati, Ohio, a corporation of Ohio

Application May 3, 1952, Serial No. 285,920

2 Claims. (Cl. 136-90)



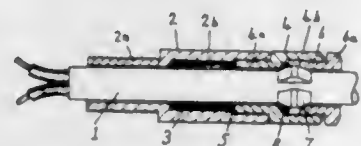
1. An electrolytic battery comprising a plurality of relatively thin waferlike cells of like dimensions, said cells disposed in a stack face to face with the positive electrode of each cell, except one end cell, adjacent to the negative electrode of the adjoining cell, each cell comprising a platelike cuprous chloride positive electrode, a sheet magnesium negative electrode and a bibulous pad for holding aqueous electrolyte, said pad disposed between the electrodes of the cell in facial



engagement with each, cell partitions disposed between adjacent cells, said cell partitions constituted by plastic adhesive tape affixed to the faces of the sheet magnesium electrodes which face toward the adjacent cells, an electrical connection between each taped magnesium electrode and the cuprous chloride electrode of the adjacent cell, and means securing the elements of the stack together longitudinally of the stack, said means comprising a tough, resilient thermally set plastic bonded to the plastic adhesive tape affixed to the magnesium electrodes.

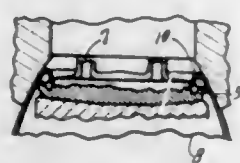
#### 2,716,672 SEALING GLANDS

Charles James Henry Stevens, Welling, England, assignor to Johnson and Phillips Limited, London, England, a British company  
Application July 22, 1952, Serial No. 300,265  
4 Claims. (Cl. 174-77)



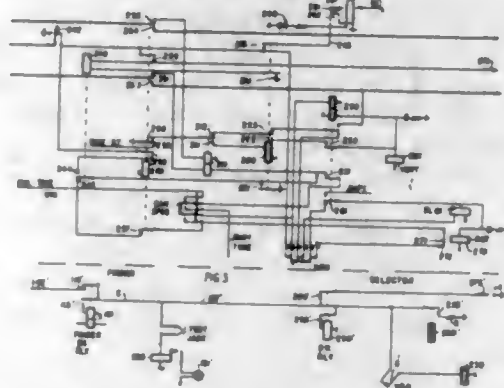
1. A sealing gland, for use on an elongated body, such as a metal sheathed electric cable, comprising a first tubular surround adapted to surround said body, and formed to provide, between itself and said body, a first clearance open at one end and substantially closed at the other end, packing material within said first clearance, a second tubular surround adapted to surround said body and formed at one end to enter the open end of said first clearance, and also formed to provide, between itself and said body, a second clearance which is open at the other end, a split bushing within said second clearance, means for forcing said first and second tubular surrounds axially relative to each other, whereby said one end of said second tubular surround moves into said first clearance and said packing material is thereby compressed to form a seal around said body, a third surround adapted to surround said body, and means for forcing said third surround and said second tubular surround axially relative to each other, thereby axially compressing said split bushing positively and unyieldingly between the surfaces of the second and third surrounds, and, by cam action, causing it to grip said body.

2,716,673  
SUSPENSION INSULATOR CAP  
E. Estay Culbertson, Detroit, Mich.  
Application December 12, 1949, Serial No. 132,576  
1 Claim. (Cl. 174-188)



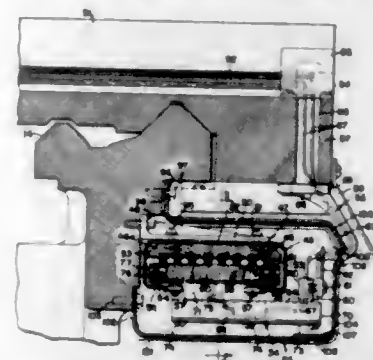
A lightweight suspension insulator cap for use with outside electric lines and adapted to seat an insulator encased in bonding cement, comprising a suspending member, a skirt affixed to said suspending member, and a circular liner disposed within said skirt, said liner including a series of alternately opening spaced slots along the edges thereof for compensating the difference in expansion and contraction characteristics between the skirt and the insulating member, and a plurality of inwardly extending minute projections on said liner to provide a better mechanical bond with the bonding cement and a better distribution of the load on said skirt.

2,716,674  
IDENTIFICATIONS OF LINE PERMANENTS  
Frederick L. Kahn, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware  
Application December 16, 1953, Serial No. 398,573  
8 Claims. (Cl. 179-27)



1. In a telephone system, a group of lines, a group of finder switches, a control lead in each of said finder switches, a glow discharge lamp connected in each finder to its control lead, a selector individually connected to each of said finder switches, a checking key common to said selectors, means responsive to a calling condition existing on one of said lines for operating one of said finders to find said line and seize the individually connected selector, means in said selector operated responsive to said seizure for operatively connecting the control lead of said one finder to said key; a circuit including a source of current, said key, said selector, said connecting means and said control lead of said one finder for operating the lamp in said one finder in response to the manual operation of said key in case said selector is seized but not operated; and means in said selector for opening said circuit in response to switching through operation of said seized selector under control of said calling line thereby preventing the operation of said lamp, even though said key is manually operated.

2,716,675  
ELECTRICAL FEED RAIL STRUCTURE FOR LATHES  
William G. Hoelscher, Cincinnati, Ohio, assignor to American Tool Works, Cincinnati, Ohio, a corporation of Ohio  
Application January 26, 1950, Serial No. 140,608  
2 Claims. (Cl. 191-23)



1. An electrical feed rail structure for a metal turning lathe wherein a carriage having a traverse motor thereon moves on a longitudinal bed, comprising an elongated feed rail housing, said housing having vertical side walls and an open bottom facing downwardly, said open bottom delineated by a pair of inwardly turned, longitudinal flanges residing in a horizontal plane along opposite sides of and for the full length of the housing, a longitudinally movable trolley disposed in the housing and supported upon said flanges, electrical feed rails secured to and extending longitudinally within said housing above the trolley, the trolley having spring-pressed, contact shoes engaged under pressure against the feed rails, an ex-

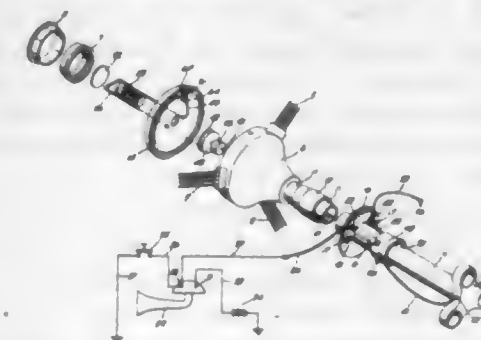
ternal protective housing extending longitudinally and substantially enclosing the feed rail housing, the external housing having one of its vertical side walls spaced outwardly beyond one of the vertical side walls of the feed rail housing and having a horizontal bottom wall spaced downwardly from the bottom flanges of the feed rail housing, said spaced bottom and side walls providing a longitudinal passageway between the housings which is right angular in cross section having vertical and horizontal passageway portions, the outwardly spaced side wall of the external housing having a slot extending longitudinally thereof and located in a plane adjacent the top of the feed rail housing, a tubular cable chute for movement along the passageway, the chute having a lower end portion projecting laterally through said slot into the vertical passageway portion, a cable housing secured to the bottom of the trolley, the cable housing disposed horizontally below the open bottom of the feed rail housing and projecting laterally across the horizontal passageway portion and outwardly beyond the side wall of the feed rail housing, and a vertical lug member extending downwardly from the end portion of the cable chute and through the vertical passageway portion, the lower end of the lug member being attached to the outwardly projecting portion of the cable housing, the trolley being movable by the cable chute and lug member, whereby the trolley is engaged against the feed rails; and electrical terminals in the feed rails and contact shoes.

2,716,676  
SELECTIVE CIRCUIT CONTROLLER  
Fred Ernest, Los Angeles, Calif.  
Application March 10, 1952, Serial No. 275,806  
17 Claims. (Cl. 200-6)



1. In a circuit controller: a resilient contact arm; means anchoring the arm at one portion therealong; a contact member cooperating with the arm at another portion remote from said anchored portion; said arm having an intermediate offset portion; means against which said offset portion may rest; and an operator movable to depress the arm on either side of the offset portion for causing said remote portion of the arm to flex correspondingly in either direction about the offset portion.

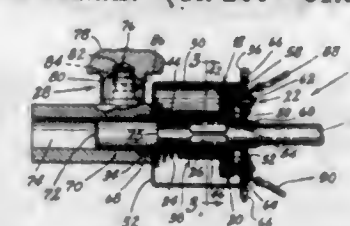
2,716,677  
SIGNALING SYSTEM AND CIRCUIT  
Walter R. Stafford, North Hollywood, Calif.  
Application December 6, 1952, Serial No. 324,480  
5 Claims. (Cl. 200-61.54)



1. In a steering column switch assembly for energizing a horn from a battery, the combination of an exposed rotatable steering shaft, a pair of fixedly positioned brushes

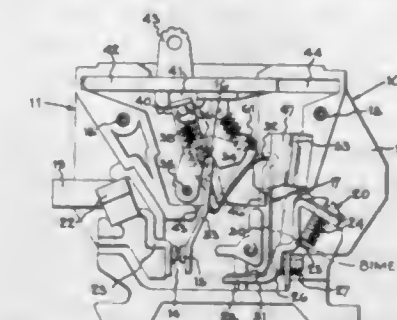
around said shaft, one of said brushes contacting said shaft, a rotatable collar on said shaft insulated from said shaft, said other brush contacting said collar, a conducting plate at one end of said shaft and insulated therefrom, a conductor from said collar to said plate, a depressible conductor electrically connected to said rotatable shaft, and means for moving said depressible conductor in contact with said conducting plate.

2,716,678  
SWITCH MECHANISM  
Glenn T. Randol, Mountain Lake Park, Md.  
Continuation of application Serial No. 292,550, June 9, 1952. This application March 17, 1954, Serial No. 416,808  
9 Claims. (Cl. 200-61.89)



4. Switch mechanism for controlling the opening and closing of an electrical circuit, said mechanism including in combination: a pair of diametrically opposed stationary contacts; a cooperating movable contact assembly for simultaneously engaging said contacts; a reciprocable rod and an elongated split sleeve member frictionally associated therewith for moving the contact assembly out of engagement with said contacts to open the circuit when said rod is actuated in one direction, and for moving said assembly into engagement with said contacts to close the circuit when said rod is actuated in the opposite direction; means for normally maintaining said movable contact assembly in engagement with said stationary contacts when the reciprocable rod is inactive; and lost-motion means compensating for a slight initial movement of said rod in one direction without affecting said normally existent disposition of the contact assembly.

2,716,679  
CIRCUIT BREAKER  
William H. Middendorf, Covington, Ky., assignor to The Wadsworth Electric Manufacturing Company, Inc., Covington, Ky., a corporation of Kentucky  
Application May 11, 1954, Serial No. 429,094  
6 Claims. (Cl. 200-88)



1. In a circuit breaker having a spring actuated release arm, means for normally restraining said release arm, said means comprising a bimetallic strip, a magnetic core mounted on the free end of said bimetallic strip, an armature pivotally secured to one portion of said core and having a free end normally in spaced relationship with another portion of said core, means restricting the movement of the free end of said armature toward said bimetallic strip but permitting the movement of said armature away from said bimetallic strip, said core being adapted for cooperative engagement with said release arm, said bimetallic strip being flexed in response to a continued moderate current overload away from said arm, and the portion of said core spaced from said armature

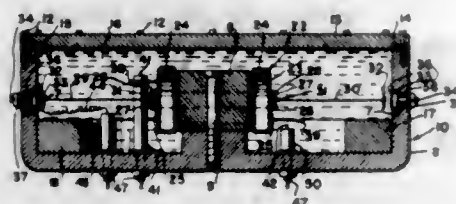


being drawn to said armature upon an excessive current overload, whereby said core is disengaged from said arm to effect the release thereof.

2,716,680

**GALVANOMETER RELAY**

David S. Muzzey, Jr., Washington, D. C.  
Application April 11, 1950, Serial No. 155,315  
6 Claims. (Cl. 200—110)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

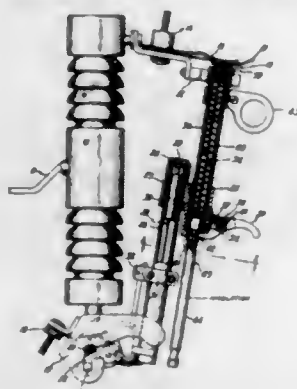


1. A highly sensitive relay of the character disclosed comprising a casing, a movable coil form suspended within said casing and constructed and arranged to be rotated as a current passes therethrough, a pair of spring clips secured to the casing, a pair of fine wires secured to said form and said clips respectively for rotatably supporting and supplying restoring torque to the coil as the coil is rotated, a quantity of liquid of low viscosity disposed within and completely filling said casing, and a pair of mutually spaced hollow floats forming a part of said coil form and secured on opposite ends thereof and to said wires respectively for floating said coil at neutral buoyancy within the liquid and for minimizing the gravitational and inertia forces on the wires due to high acceleration.

2,716,681

**CIRCUIT INTERRUPTING DEVICE**

Sidney R. Smith, Jr., Stockbridge, Mass., assignor to General Electric Company, a corporation of New York  
Application October 27, 1953, Serial No. 388,622  
6 Claims. (Cl. 200—120)



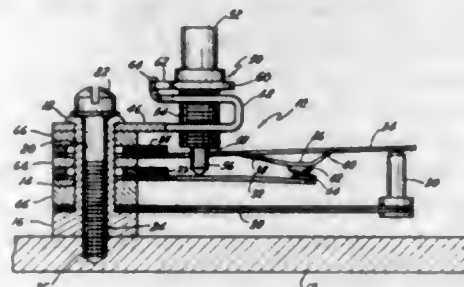
1. A circuit interrupting device comprising two electrical insulating material electrical arc interrupting tubes, each of said tubes having a metallic contact portion at opposite ends thereof, the contact portion at one end of one of said tubes in electrical contact with the contact portion at one end of the other of said tubes, said tubes rigidly connected together adjacent said one end contact portions, the contact portions at the other ends of said tubes are spaced from each other, said tubes adapted to span two spaced metallic terminal contact portions whereby said other end contact portions make electrical contact with said terminal contact portions, said one tube having a fusible element therein electrically connecting the contact portions at opposite ends of said one tube, said other tube having a movable metallic contact therein, said movable contact disposed adjacent one of the contact portions of said other tube and adapted to make electrical contact therewith, said movable contact electrically connected by a flexible electrical conductor to another of the contact portions of said other tube and biased for movement

inward of said other tube away from said one contact portion towards said another contact portion, said flexible electrical conductor and said fusible element connected in electrical series circuit relationship.

2,716,682

**POSITIVE OPENING AND CLOSING SWITCH WITH WIPING ACTION**

Edmond G. Franklin, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware  
Application September 2, 1953, Serial No. 377,999  
5 Claims. (Cl. 200—138)

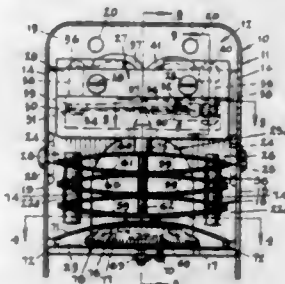


5. A thermal switch comprising first and second contact arms having first and second contacts respectively adapted to engage and disengage each other, thermally responsive means engaging and moving one arm with respect to the other and thereby engaging and disengaging said contacts in response to predetermined temperature changes, the first arm having a contact support on which the first contact is mounted, and a pair of inclined struts arranged at an obtuse angle with respect to each other constituting the sole connection of the contact support to the contact arm and having a cross-section limited with respect to the current passing through the contacts for causing substantial expansion and contraction of the struts by heating and cooling in response to the changes in current carried by the struts on engagement and disengagement of the contacts, one of said struts being longer than the other to cause a greater amount of expansion of said longer strut.

2,716,683

**THERMALLY-RESPONSIVE CONTROL DEVICES FOR ELECTRIC SWITCHES**

Edmund A. Kathe, Columbus, Ohio  
Application September 21, 1954, Serial No. 457,340  
5 Claims. (Cl. 200—138)



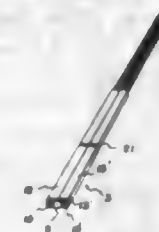
1. In a thermostatically controlled snap-action electric switch, a frame, a guide rod secured to said frame, an expansible bimetallic member floatingly guided by said rod and adapted to bodily respond to changes in the ambient temperature, a snap-action switch mechanism carried on said frame adjacent said bimetallic member, said switch mechanism having a base and including a thin, metallic switch arm secured at one of its ends to said base and being free at its other end to move to an open and closed switch position, means engageable with said bimetallic member and urged into operable contact with said switch arm intermediate its ends by said bimetallic member, means engageable with said member for varying the expansible characteristics thereof to regulate the upper degree of temperature at which said arm of the

switch will move to its open position, means for limiting the extent of movement of the switch arm between its open and closed positions, and means for regulating said limiting means according to a low degree of temperature at which a reduction in pressure on said switch arm will cause the free end of said arm to snap to its closed position.

2,716,684

**ELECTRICAL SENSING BRUSH AND METHOD OF MAKING SAME**

Ralph W. Barnes, East Stroudsburg, Pa.  
Application October 15, 1953, Serial No. 386,267  
4 Claims. (Cl. 200—166)

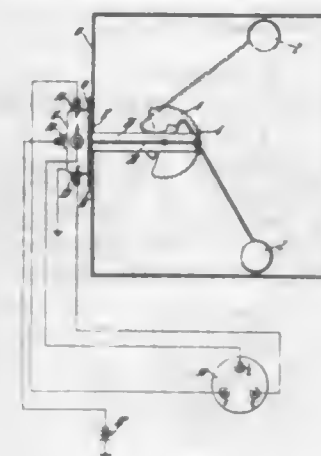


1. An electrical sensing brush including a plurality of contact wires and a ferrule in which said wires are fixed to extend therefrom, said ferrule being formed of a unitary section of electrical conductive pliable material having a longitudinally extending spacer rib formed integral with the strip, a wall extending longitudinally of said section on each side of said rib in spaced relation thereto providing wire receiving channels between said rib and said walls, and means bendably attached to each wall and adapted to bend into position over and closing the channels and confining portions of the wires within the channels.

2,716,685

**VARIABLE RESISTOR FOR LIQUID LEVEL TELEMETRIC SYSTEM**

Homer R. Hastings, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application January 16, 1953, Serial No. 331,687  
7 Claims. (Cl. 201—48)



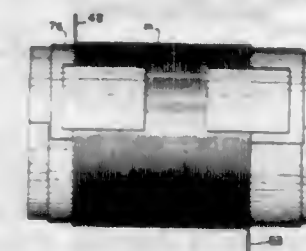
1. In a tank unit of an electric liquid level telemetric system, a cup which is peripherally adapted to fit around an opening in a tank, a bearing fixed to said cup, a conductive shaft protruding from said cup with one end journaled in said bearing, a float connected to said shaft and arranged to rotate the same, a dielectric member fixed to said shaft to rotate therewith, an annular resistance element supported by said member within said cup for rotation with said member and shaft, conductor means fixed to one side of said element and connected to ground through said shaft, a second conductor means leading into the said cup and forming a fixed electrical connection with the other side of said element, multiple contact leads passing through the wall structure of said cup having sliding and spaced contacts with said element, and said multiple leads being adapted to be connected to an indicator.

2,716,686

**ELECTRIC CONTROL APPARATUS**

Robert J. Ehret, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware  
Original application May 5, 1950, Serial No. 160,158, now Patent No. 2,694,169, dated November 9, 1954. Divided and this application November 23, 1953, Serial No. 393,680

3 Claims. (Cl. 201—63)

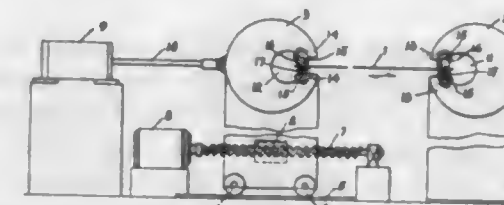


1. A reset delay unit comprising a pair of similar resistors, a metallic container enclosing said resistors, heat insulating material isolating one of said resistors from said container and from the other resistor, and electrical heating means for heating said container and thereby heating said resistors at dissimilar rates.

2,716,687

**APPARATUS FOR TREATING METAL SHEETS**

Robert V. Lackner, Pittsburgh, Pa., assignor to Loftus Engineering Corporation, Pittsburgh, Pa., a corporation of Maryland  
Application January 29, 1953, Serial No. 334,001  
5 Claims. (Cl. 219—1)



1. In an apparatus for working metal sheets comprising a pair of stands mounted for movement relative to each other to stretch a metal sheet positioned therebetween and respectively provided with a pair of spaced and elongated operating members mounted for rotation about spaced parallel axes, the invention herein described wherein each of said operating members is provided with a jaw for gripping engagement with an edge of a sheet to be stretched by said stands, at least one of the gripping jaws on each of said pair of operating members being continuous from end to end and constituting an electrode, and an electrical circuit having terminal connections with said electrodes for circulating a heating current through a sheet engaged by said jaws.

2,716,688

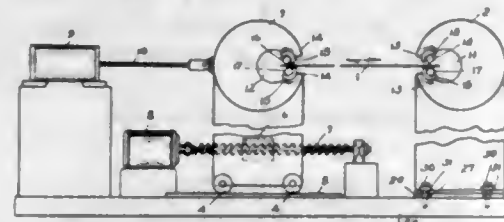
**SHEET LEVELING APPARATUS**

Robert V. Lackner, Pittsburgh, Pa., assignor to Loftus Engineering Corporation, Pittsburgh, Pa., a corporation of Maryland  
Application June 2, 1953, Serial No. 359,101  
2 Claims. (Cl. 219—1)

1. In an apparatus for working metal sheets comprising a pair of heads mounted for movement relative to each other to stretch a metal sheet positioned therebetween and respectively provided with a pair of spaced and elongate operating members mounted for rotation



about spaced parallel axes, the invention herein described wherein each of said operating members is provided with a jaw comprising an electrode for gripping engagement with an edge of a sheet to be stretched by said heads, said electrode being in electrical communication with its

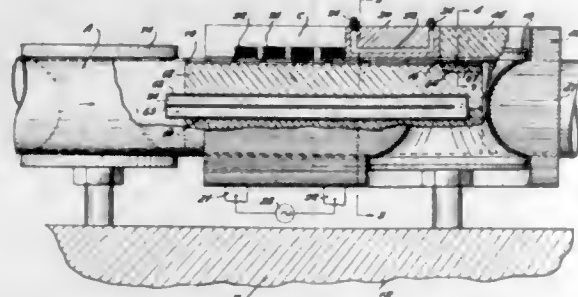


associated operating member and head, means for electrically insulating one head from the other, and an electrical circuit having terminal connections with said electrodes for circulating a heating current through a sheet engaged by said jaws.

2,716,689

**HIGH-FREQUENCY INDUCTION SEAM WELDING**  
Alfred C. Body, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Application May 25, 1951, Serial No. 228,294  
13 Claims. (Cl. 219-6)



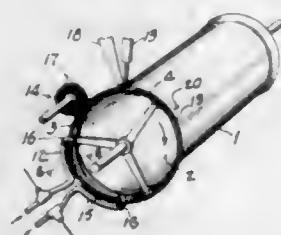
2. In a continuous seam-welding machine adapted to advance a longitudinally-split tube along a predetermined path with edges of the tube in spaced relationship and then move said edges into abutting relationship at a predetermined point in said path of movement, said machine including high-frequency energized inducing means disposed in advance of said point for inducing high-frequency currents to flow in the tube and between the edges at said point, the improvement which comprises magnetically-permeable means having a relatively high electrical resistance at least in a circumferential direction disposed about the portions of said tube circumferentially spaced from said edges between at least the exit end of said inducing means and the plane of said point.

2,716,690

**METHOD OF PREPARING GALVANIZED PARTS FOR WELDING**

Harold Lund, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application July 8, 1950, Serial No. 172,732  
6 Claims. (Cl. 219-10)



1. In a method of making a welded galvanized article, the steps of arranging an induction heating element closely adjacent a predetermined weld area on a galvanized component part of said article, applying a relatively

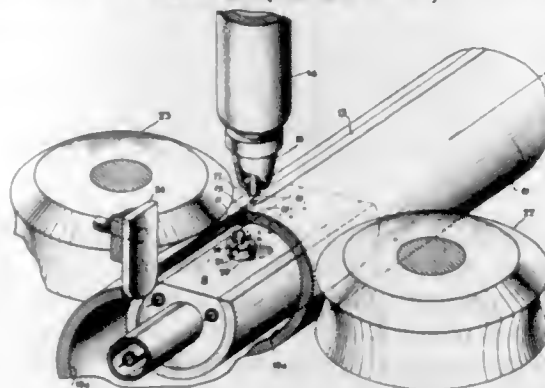
high frequency inducing current to said element for a time interval sufficient to cause induction heating of said predetermined area and substantial zinc removal therefrom but insufficient to cause zinc removal from adjoining areas, and making a weld between said exposed predetermined area and a corresponding area of a complementary galvanized part to unite the article.

2,716,691

**METHOD AND APPARATUS FOR WELDING TUBING**

Howard J. Bowman, East Troy, Wis., assignor to Trent Tube Company, East Troy, Wis., a corporation of Wisconsin

Application February 4, 1954, Serial No. 408,221  
5 Claims. (Cl. 219-10)



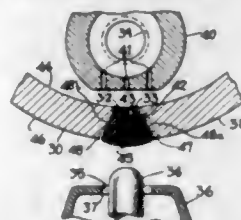
1. Apparatus for welding metal tubing having a longitudinally extending seam of abutting edges disposed at an angle to the horizontal, comprising: means for feeding said tubing progressively past a pair of arc welding units mounted, respectively, above and below the pass line of said seam, said upper welding unit mounting a non-consumable welding electrode positioned above the center line of said seam and directed downwardly thereagainst in slightly spaced relation, and said lower welding unit mounting a non-consumable welding electrode positioned below the center line of said seam and directed upwardly thereagainst, in slightly spaced relation, each said welding unit being provided with means for enveloping said welding electrode with an atmosphere of an inert gas, directed against said seam during welding.

2,716,692

**METHODS FOR PRODUCING WELDED SEAM TUBING**

Elmer W. Williams, Muskego, and Howard J. Bowman, East Troy, Wis., assignors to Trent Tube Company, East Troy, Wis., a corporation of Wisconsin

Application February 16, 1954, Serial No. 410,680  
6 Claims. (Cl. 219-10)



1. The method of welding metal tubing formed with a longitudinally extending seam of abutting edges, which comprises: disposing said tubing with said seam below the horizontal midsection of the tubing, and while so disposed, progressively feeding the same past an arc electrode disposed below the centerline of said seam, while energizing said electrode to fusion arc weld said abutting edges together, and concurrently applying sufficient squeezing pressure to said abutting edges to impart to the resulting weld joint an inner surface substantially flush with the inner arcuate contour of the tubing, and to impart to the outer surface of the weld joint a substantially convex arcuate configuration in transverse section.

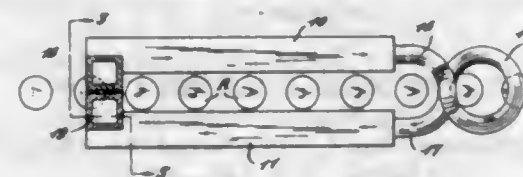
2,716,693

**HIGH-FREQUENCY INDUCTOR**

James B. Wadhams, Cleveland, Ohio, assignor to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio

Original application August 19, 1949, Serial No. 111,288, now Patent No. 2,655,588, dated October 13, 1953.  
Divided and this application January 12, 1953, Serial No. 332,451

3 Claims. (Cl. 219-10.41)



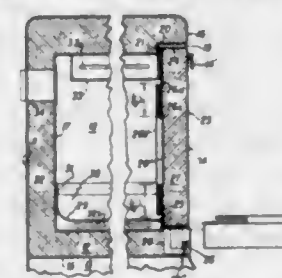
2. The method of heating the end of an elongated workpiece which comprises moving the piece along a predetermined path normal to its longitudinal length, inductively preheating the end of such workpiece by a relatively unconcentrated high-frequency magnetic field to a temperature approaching the Curie point of the metal and then inductively heating such preheated end by an induction field of relatively high intensity to a higher temperature.

2,716,694

**COMBINATION ELECTRIC AND ULTRA-HIGH FREQUENCY HEATING APPARATUS**

George W. Schroeder, Sandy Hook, Conn., assignor to General Electric Company, a corporation of New York

Application June 16, 1951, Serial No. 232,005  
10 Claims. (Cl. 219-10.55)



3. An ultra-high frequency oven comprising a metal oven liner defining an oven cavity, said oven liner having two holes and an access opening formed therein and mutually spaced-apart, two antennas respectively projecting through said two holes into said cavity, an ultra-high frequency generator electrically connected in multiple to said two antennas, a door mounted for movements between open and closed positions with respect to said access opening, a metal door liner carried by said door and establishing electrical contact with said oven liner when said door occupies its closed position, and means including a choke of  $\frac{1}{4}$  wave length of the ultra-high frequency energy permeating said cavity carried by said door liner adjacent to said oven liner for preventing the escape of ultra-high frequency energy from said access opening when said door occupies its closed position, said choke including a metal plate carried by said door liner and movable therewith and electrically connected thereto, said plate being spaced laterally inwardly with respect to the central portion of said door liner and disposed in said cavity adjacent to said access opening and spaced radially inwardly from said oven liner when said door occupies its closed position.

2,716,695

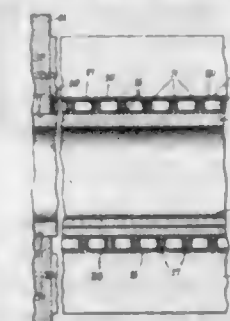
**INDUCTION HEATING UNIT**

Norman J. Cutliff and Emmett V. Brogan, Louisville, Ky., assignors to International Harvester Company, a corporation of New Jersey

Application April 12, 1952, Serial No. 281,991  
4 Claims. (Cl. 219-10.79)

4. An induction heating unit comprising a pair of longitudinally spaced supports having center openings in

longitudinal alignment, a refractory tube extending longitudinally between said supports, an induction heater supported on said tube, said heater including a hollow induction coil having a plurality of interconnected coil turns encircling said tube, said coil turns having portions longitudinally spaced with respect to each other, a plurality of circumferentially disposed strips of insulating material disposed about said coil, said strips having longitudinally



spaced folds extending inwardly to the axis of the coil into the spaces formed by the spaced turns portions to provide insulation therebetween, a plurality of longitudinally extending supporting members of non-conducting material circumferentially disposed about said coil, said supporting members having end portions connected to said supports, and portions on said supporting members engaging said insulating strips for maintaining said folds in position.

2,716,696

**BASEBOARD TYPE ELECTRIC WALL HEATER**  
Theodore W. Glynn, Kingsport, Tenn., assignor to Blue Ridge Glass Corporation, Kingsport, Tenn., a corporation of New York

Application October 26, 1954, Serial No. 464,699  
10 Claims. (Cl. 219-34)



1. A baseboard type electric wall heater, comprising an I-beam having upper and lower flanges connected by a vertical web, a vertical glass heater plate mounted between said flanges in front of said web and provided on its rear surface with an electrical resistance heating element, and a heat barrier panel mounted between said flanges behind the web.

2,716,697

**THRIFT COOKER**

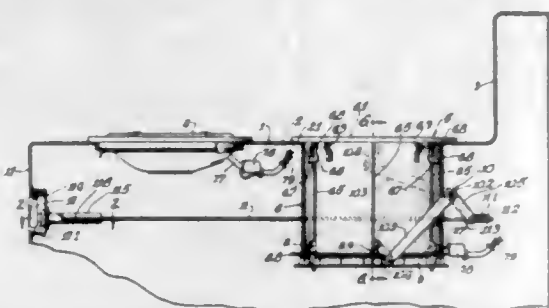
William D. Grannan, Des Plaines, Ill., assignor to General Electric Company, a corporation of New York

Application March 31, 1953, Serial No. 345,868  
11 Claims. (Cl. 219-37)

1. A cooking appliance, comprising means providing a cylindrical well extending downwardly from a cooking top, a guide ring disposed within said well and arranged for movement therein between an upper position disposed adjacent the cooking top and a lower position substantially below said cooking top, heating means carried by said guide ring, cooperating latching means carried by said guide ring and said well-providing structure to releasably retain said guide ring in its raised position, crank means carried by said cooking appliance and engaging with said guide ring to raise and lower said guide ring

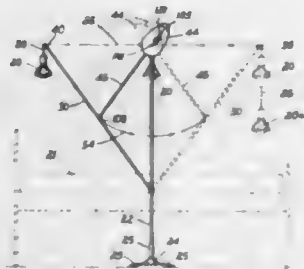


to its respective upper and lower positions within said well, means accessible at the front of said cooking appliance to rotate said crank means in the desired direction, and means effective upon operation of said crank



rotating means in a direction effecting a further upward movement of said guide ring from its normal raised position to release said latching means for return of said ring and thereby carried heating element to its lower position in said well.

**2,716,698**  
**RECIPROCATING SUPPORT MECHANISM FOR THERAPEUTIC LAMP OR THE LIKE**  
Clayton J. Brukner, Troy, Ohio  
Application January 3, 1949, Serial No. 68,874  
12 Claims. (Cl. 240—1)



7. Apparatus for supporting a therapeutic lamp for back and forth movement with respect to a user to give substantially uniform coverage over a relatively large area, comprising a base, an elongated boom, means connecting one end of said boom to said base for oscillating movement in an arc about a predetermined axis, means at the other end of said boom for supporting said lamp thereon in operative position with respect to the user, drive means including a motor carried by said base for causing said oscillating movement of said boom about said axis, means cooperating with said base to maintain said boom in inclined relation with said axis throughout the full range of said oscillating movement thereof, and means connected with said boom and effective on said supporting means in response to said oscillating movement of said boom for compensating for said oscillating movement in such manner as to guide said lamp along a substantially straight line path at a substantially uniform distance from the user.

**2,716,699**  
**DECORATIVE LAMP STRUCTURE**  
James H. Boden, Denver, Colo.  
Application June 16, 1952, Serial No. 293,732  
3 Claims. (Cl. 240—10)



1. A lamp including, in combination, the following elements: a base, a skeleton thereon simulating that of a

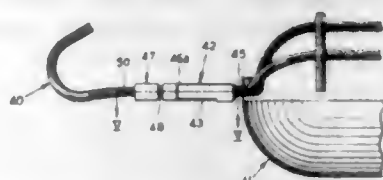
member of the animal kingdom and including two legs, a rigid standard upstanding the base and supporting the skeleton and forming one of its legs, the elements of said skeleton simulating the other limbs being formed of bendable material, the standard being offset within the skeleton body to center the upper end of the standard between the shoulders, said upper end carrying a lamp socket and a seat surrounding the socket and a hollow, head-simulating member of translucent material releasably secured in said seat.

**2,716,700**  
**FLASHLIGHT CONSTRUCTION**  
Ivan E. La France, Oakland, Calif.  
Application May 1, 1953, Serial No. 352,459  
5 Claims. (Cl. 240—10.66)



1. A flashlight construction comprising a tubular battery casing; first and second electrical lamps mounted at opposite ends of said casing; an electrically conductive partition member disposed interiorly of said casing; a first battery disposed in said casing to the first side of said partitioning member having one of its terminals electrically connected with said partition member and having its other terminal electrically connected to the filament of said first lamp; a second battery disposed in said casing to the second side of said partitioning member with one of its terminals electrically connected to said partitioning member and having its other terminal electrically connected to the lamp filament of said second lamp; first means including a manually operative switch mechanism for selectively opening and closing a first circuit from said first battery through said first lamp filament and back to said first battery; and second means including said manually operative switch element for selectively opening and closing a second circuit, independent of said first circuit, from said second battery via said second lamp filament and back to said second battery.

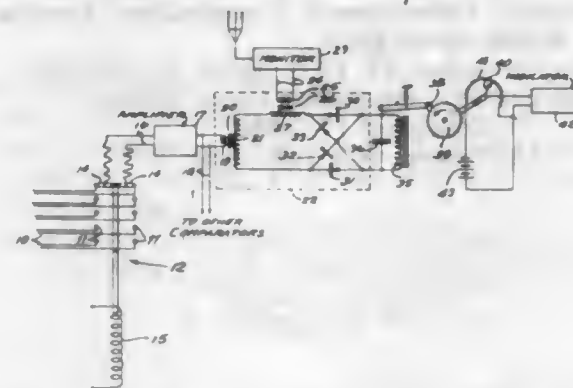
**2,716,701**  
**SEPARABLE SUSPENSION DEVICE FOR AN EXTENSION LAMP**  
Rodger F. Becker, Kalamazoo, Mich.  
Application December 6, 1949, Serial No. 131,398  
3 Claims. (Cl. 240—54)



1. In an extension lamp having a handle with a reflector secured thereto, the combination comprising: a lamp guard secured to said reflector; said guard having a rod extending therefrom remote from said handle; an elongated bar having a longitudinal opening therethrough, the free end of said rod being secured within one end of said opening, and said bar having a pair of diametrically opposed slots in opposite sidewalls thereof communicating with said opening near the other end thereof; a pin snugly and slidably receivable into the other end of said opening, said pin having a lateral groove therearound; a pair of resilient strips secured to said sidewalls and having flanged ends extending through said slots for separable engagement with the walls of said groove, said ends and groove being the sole means resisting disengagement between said pin and said bar while permitting rotation

therebetween; and a lamp suspension device and means securing said pin thereto; whereby the imposition of predeterminable, oppositely directed, forces upon said lamp and said suspension device effects a disengagement between said pin and said bar.

**2,716,702**  
**AUTOMATIC RADIO PROGRAM RATING SYSTEM**  
Gibson Reynolds, New York, N. Y., assignor to William D. Horn, New York, N. Y.  
Application August 20, 1951, Serial No. 242,698  
1 Claim. (Cl. 250—2)



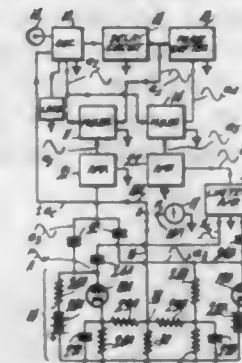
A broadcast program rating system for determining the number of home receivers of a selected group which are receiving a given broadcast program, comprising a central monitor station having a plurality of lines connected to carry signals from said home receivers to said central monitor station, a plurality of monitor radio receivers at said central monitor station permanently tuned to receive the selected broadcast programs to be rated, a comparator circuit connected to each of said monitor receivers and having means producing an output signal in response to correlation between a pair of applied signals, means connecting said lines in timed sequence to said comparator circuits whereby the signal carried by each line is compared with the signal from each monitor receiver by said comparator circuits, and accumulator means in the output of each comparator circuit to respond to the total number of coincidences between the monitored program and the programs received by said lines, said accumulator means including a stepping relay connected to drive the contact arm of a potentiometer and means connected to said potentiometer to indicate the position thereof.

**2,716,703**  
**TELEVISION ANTENNA**  
James M. Kane, Los Gatos, Calif.  
Application May 15, 1952, Serial No. 287,902  
1 Claim. (Cl. 250—33.51)



An antenna for high frequency use having in combination a spaced rigid transmission line, said transmission line having at right angles thereto more than one driven element, each of said driven elements being loosely coupled to the transmission line, and parasitic elements insulated from said transmission line, said rigid transmission line furnishing the sole support for the driven and parasitic elements, and wherein the spacing of one of said driven elements on the transmission line acts as a shorted matching stub for another of said driven elements on said transmission line.

**2,716,704**  
**FREQUENCY STABILIZATION OF OSCILLATORS**  
Lowell E. Norton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application May 25, 1950, Serial No. 164,053  
The terminal fifteen years of the term of the patent to be granted has been disclaimed  
9 Claims. (Cl. 250—36)



1. Apparatus for producing an electrical effect of sense reversing upon change in algebraic sign of the frequency deviation of an oscillator which comprises means for mixing oscillations generated by said oscillator and respectively transmitted in separate paths having different transmission-velocity characteristics so to produce a low frequency component, means for effecting quadrature phase shift of oscillations delayed in one of said paths, means for mixing the oscillations so delayed and shifted in phase with oscillations transmitted in the other of said paths to produce a second low frequency component, a phase detector, and means for impressing said low frequency components upon said phase detector to produce a unidirectional output of polarity dependent upon the phase relation of said components.

**2,716,705**  
**RADIATION SHIELD**  
Walter H. Zinn, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission  
Application March 27, 1945, Serial No. 585,158  
3 Claims. (Cl. 250—108)



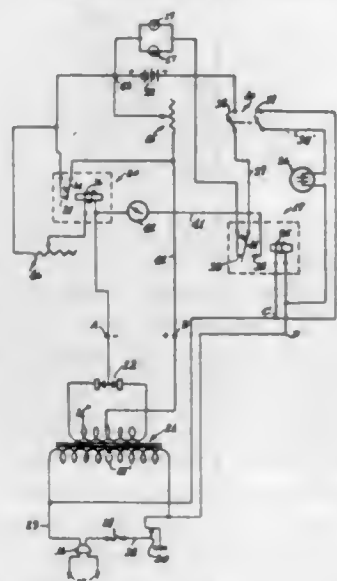
1. A radiation shield comprising a pair of spaced layers of concrete, a plurality of spaced layers of paraffin disposed between the layers of concrete, and a layer of paraffin intermixed with steel shot disposed between each of the layers of paraffin.

**2,716,706**  
**AUTOMATIC EMERGENCY ELECTRICAL SYSTEMS**  
Max Palmer, Jackson Heights, N. Y., assignor to Hobby & Brown Electronic Corporation, Rockville Center, N. Y., a corporation of New York  
Application May 20, 1954, Serial No. 431,077  
5 Claims. (Cl. 307—66)

1. In an electrical system of the character described, a source of power to supply energy to a circuit, a storage battery, auxiliary electrical apparatus to be operated by said battery, means operated by said source, adapted to charge said battery; said means having output terminals, a first relay comprising an electro-magnet electrically connected whereby it is actuated by said power source, spaced first and second contact points and a spring-loaded armature positioned between said contact points; said first armature being normally in contact with said first contact point while the said first electro-magnet is deactuated and adapted to be moved by said electro-



magnet when the latter is actuated, to a position where said armature is in contact with the second contact point and away from the first contact point, a second relay comprising a second electro-magnet, a third contact point and a second spring-loaded armature positioned between said third contact point and the second electro-magnet; said second armature being normally in contact with the third contact point and when the current flowing through the second electro-magnet is sufficient to actuate such electro-magnet to move the second armature; said second armature is moved to a position where it is away from said third contact point, a resistance; the terminals of said resistance being respectively electrically connected

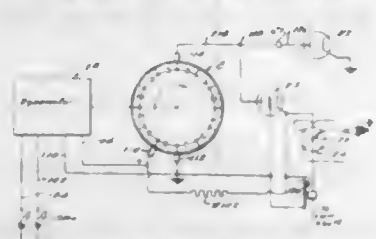


to the second armature and the third contact point; one terminal of the storage battery being electrically connected to one terminal of the auxiliary apparatus, to one terminal of said resistance and to one terminal of the second electro-magnet; the other terminal of the second electro-magnet being electrically connected to one of said output terminals and to the first contact point; the other terminal of said resistance being electrically connected to the other of said output terminals; the other terminal of said storage battery being electrically connected to the first armature and the other terminal of the auxiliary apparatus being electrically connected to the first contact point.

2,716,707

### CONDENSER IMPULSE GENERATOR AND METHOD

John A. Kuecken, Detroit, Mich.  
Application January 16, 1951, Serial No. 206,217  
39 Claims. (Cl. 307—110)



33. In an apparatus of the character described, a source of polyphase alternating current energy, a transformer for each of said phases of said source, each said transformer comprising a primary winding individually connected to its respective said source phase and secondary winding having an intermediate tap, a plurality of electric valves of the type in which current is permitted to flow or such current flow terminated between a pair of main electrodes by a control element in accordance with a bias potential placed between said element and a first of said main electrodes, means connecting corresponding ones of said main electrodes individually with end terminals of said secondary windings, a pair of output terminals, conducting means connecting the corresponding other ones of said main electrodes together and to one

of said output terminals, conducting means connecting said intermediate taps together and to the other of said output terminals, a phase displacing network energized with an alternating potential synchronous with said source, and circuit means energized by said displacing network and having output connections connected between said elements and said first main electrodes of said valves for controlling the periods of conductivity of said valves.

2,716,708

### APPARATUS FOR LAUNCHING ULTRASONIC WAVES

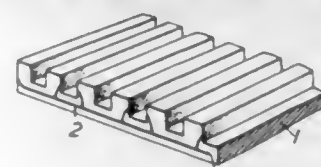
Geoffrey Bradfield, Surbiton, England, assignor to National Research Development Corporation, London, England, a British corporation

Application November 13, 1951, Serial No. 255,938

Claims priority, application Great Britain

November 17, 1950

12 Claims. (Cl. 310—9.6)

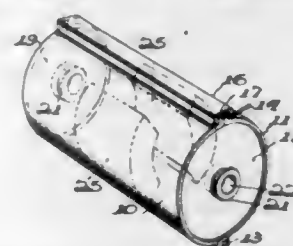


1. Apparatus for launching ultrasonic waves in a medium comprising a slab of piezoelectric material divided by a plurality of grooves into an array of discrete piezoelectric elements and means for applying electrical potentials separately to these discrete elements to excite them into vibration, the said potentials being applied in such phases that adjacent discrete elements of the array oscillate in anti-phase.

2,716,709

### CASINGS FOR ELECTRIC MOTORS, GENERATORS, AND THE LIKE

Walker Elliott Rowe, Georgetown, S. C.  
Application July 31, 1953, Serial No. 371,454  
6 Claims. (Cl. 310—254)



1. A device of the character described comprising hingedly connected casing sections which are substantially semi-circular in cross section and having grooves formed in their inner faces near the ends of the casing sections, substantially circular end plates separate from the casing sections and engageable within the grooves when the casing sections are closed and having aligned bores to receive an armature shaft or the like, dove-tailed extensions carried by the casing sections adjacent to corresponding edges of the same, and a locking key having a dove-tailed groove formed therein for receiving said dove-tailed extensions and adapted to hold the casing sections closed about said end plates.

2,716,710

### DYNAMOELECTRIC MACHINE STATOR CONSTRUCTION

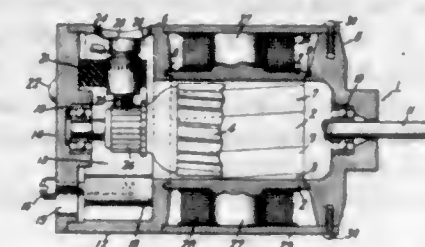
Paige W. Thompson and Albert L. Olson, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York

Application April 15, 1953, Serial No. 348,885

12 Claims. (Cl. 310—258)

1. In a dynamoelectric machine, a stator assembly comprising a plurality of elongated equally spaced apart longitudinally disposed pole piece members defining a bore for the rotor of said machine, and a pair of end

flange members formed of cast non-magnetic material respectively encasing the ends of said pole piece members



and being integrally joined by said cast non-magnetic material filling the spaces between said pole piece members.

2,716,711

### MAGNETRONS

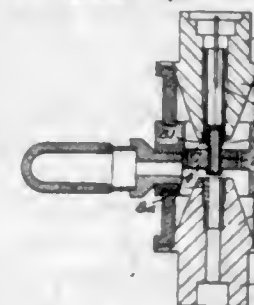
Frederick Charles Thompson, Danbury, Maurice Esteron, Great Baddow, and Arthur James Young, Danbury, England, assignors to English Electric Valve Company Limited, London, England, a company of Great Britain

Application December 27, 1951, Serial No. 263,643

Claims priority, application Great Britain

January 11, 1951

4 Claims. (Cl. 313—30)

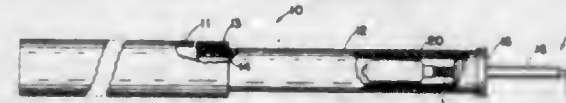


1. A magnetron structure comprising an axial cathode structure having a cathode on a cathode support tube, an anode structure concentrically surrounding said cathode, a pair of magnetic pole pieces, one adjacent each end of said cathode and adapted to provide magnetic lines of force threading said cathode in a direction substantially parallel to the axis of said cathode, an evacuated envelope of which part is constituted by said anode structure and parts by said pole pieces, one of said pole pieces being tubular, and a sheath of magnetic material mounted within, and electrically insulated from, said one tubular pole piece, said cathode support tube having its end inserted into the end of said sheath adjacent to said cathode supporting said cathode from said sheath and electrically connecting said cathode to said sheath.

2,716,712

### HIGH VOLTAGE INDICATOR

Focsaneanu Alexander, Flushing, N. Y.  
Application October 16, 1952, Serial No. 315,087  
2 Claims. (Cl. 313—110)



1. A monopolar high voltage indicator for sensing the presence of high voltage comprising: a hollow cylindrical support made of insulating material; a gaseous discharge lamp mounted within said support adjacent to one of its ends; said lamp including a single rod-type electrode within an envelope, an ionizable gas at reduced pressure and a globule of mercury within the envelope, an open-ended insulating tube surrounding said electrode, and a lens section formed integral with said envelope partially covering one end thereof; a conductive probe which extends beyond the end of the cylindrical support and is connected to the single electrode in the lamp; and viewing means for observing the lamp through the cavity formed by the hollow cylindrical support.

2,716,713

COLD ELECTRODE PULSE LAMP STRUCTURE  
Edward B. Noel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York  
Application March 22, 1950, Serial No. 151,098  
6 Claims. (Cl. 313—185)



1. A high pressure electric discharge lamp comprising a light-transmitting envelope containing an ionizable gaseous filling, a pair of massive electrodes oppositely mounted in alignment within said envelope and defining a high intensity arc path, at least one of said electrodes having a tapered tip portion comprising refractory metal and alkaline earth metal, and a refractory insulating cover fitting snugly over said tapered tip portion and having a small perforation at its apex for stabilizing the path of the arc occurring between said electrodes.

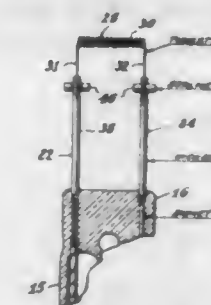
2,716,714

### INCANDESCENT ELECTRIC LAMP

Edward T. Adams, Long Island City, N. Y., and Isaac S. Goodman, Belleville, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 20, 1951, Serial No. 242,606

1 Claim. (Cl. 313—271)



A filament structure for a lamp comprising a nickel leading-in conductor, an alloy member secured to said conductor in the zone of expansion of said structure, said member having about 5.5% chromium, 42.0% nickel and the balance iron and a tungsten filament secured to said member.

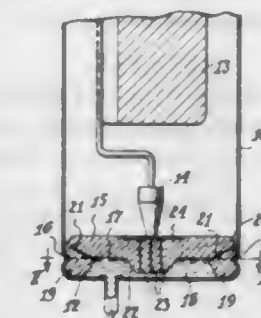
2,716,715

### VAPOR-ELECTRIC DEVICES

Alfred H. Laidig, Essex County, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 28, 1952, Serial No. 290,587

7 Claims. (Cl. 313—328)



1. A sponge cathode comprising a body portion of a

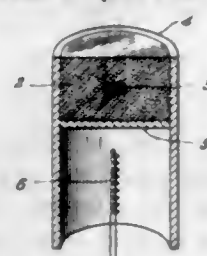


sponge material having a reservoir next one face thereof, and having capillary passages open to said reservoir and extending therefrom in said body portion.

2,716,716

# CATHODE CONTAINING A SUPPLY OF AN ELECTRON-EMISSIVE MATERIAL

Ray C. Hughes, Ardsley, and Patrick P. Coppola, Irvington-on-Hudson, N. Y., assignors, by mesne assignments, to North American Phillips Company, Inc., New York, N. Y., a corporation of Delaware  
Application November 29, 1951, Serial No. 258,891  
7 Claims. (Cl. 313—346)

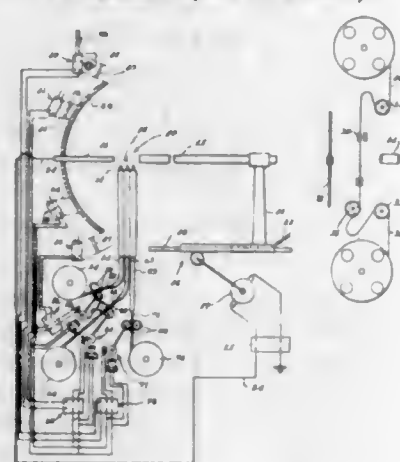


1. A dispenser type cathode comprising a body of sintered tungsten having a porous portion, and a supply of an electron-emissive material consisting of an alkaline earth azide and an alkaline earth formate disposed within said body, said electron-emissive material being reactable by heat to form the corresponding alkaline-earth oxide without forming products which oxidize the tungsten.

2,716,717

# CONTROL OF COLOR FOR PROJECTOR ARC LIGHTS

W. Robert Dresser, Long Hill, Conn., assignor to The Vitarama Corporation, Huntington, N. Y., a corporation of New York  
Application July 21, 1954, Serial No. 444,814  
9 Claims. (Cl. 314—21)



1. Apparatus for controlling the color of an arc light including electrodes between which an arc is discharged, at least one of the electrodes being a consumable electrode, automatic means for feeding the consumable electrode, color sensitive means for monitoring the light from the arc, means for feeding color modifying material into the arc, and automatic control apparatus for the material feeding means operated by the light sensitive means.

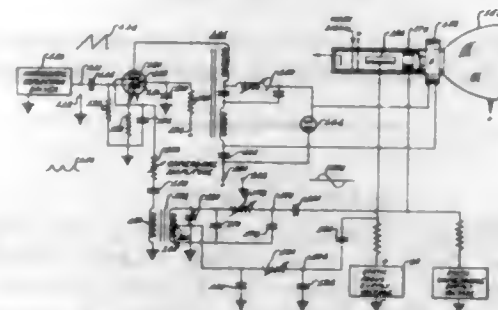
2,716,718

# DYNAMIC ELECTRON BEAM CONTROL SYSTEMS

Richard W. Sonnenfeldt, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application April 29, 1953, Serial No. 351,777  
10 Claims. (Cl. 315—22)

1. In a cathode ray beam deflection system the combination of: a source of cathode ray beam deflection signal; a signal amplifying means having an input circuit and an output circuit; signal coupling means from said

source of deflection signal to said amplifier input circuit; primary cathode ray beam control means coupled with said amplifier output circuit for deflecting electron beam components in accordance with said deflection signal; means coupled with said signal amplifier for developing a derivative signal in accordance with said deflection signal; a series resonant tuned circuit connected in shunt with said last named means, said series resonant circuit being tuned to the fundamental of said deflection signal;

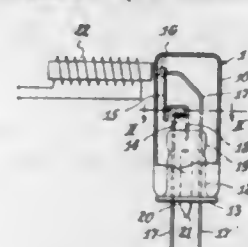


voltage step up means magnetically coupled to said series resonant circuit, said voltage step up means including a winding having a predetermined inductance value; capacitance means connected in shunt with said winding to form a parallel resonant circuit whose frequency of resonance is substantially in the range of the fundamental of said deflection signal; secondary cathode ray beam control means; and signal coupling means connected from said voltage step up winding to said secondary beam control means.

2,716,719

# SYNCHRONIZED FLUORESCENT LAMP STARTER

Dewey D. Knowles, Verona, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania  
Application April 25, 1951, Serial No. 222,818  
2 Claims. (Cl. 315—103)



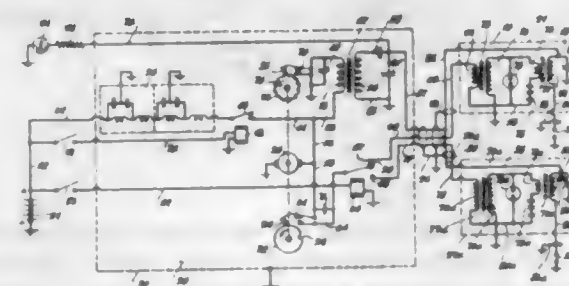
1. In combination a synchronized starter for alternating current operation and a low pressure discharge device having two spaced electrodes at least one of which is a directly heated electrode, said starter comprising a coil connected to one end of said directly heated electrode for providing a magnetic field force and a normally closed vacuum starting switch adjacent said coil for fast opening at the maximum value of magnetic field force when maximum current is flowing to achieve a maximum inductive surge to start the arc in said device, said switch having an envelope, a stem sealed to said envelope and having at least two leading in and supporting conductors connected to said other end of said directly heated electrode and to said other electrode and a dummy supporting conductor, a resilient bimetallic element on said dummy conductor and having a spring force to yieldingly hold said element in normally closed position against the contact end of one of said conductors, an armature on said bimetallic element disposed within said magnetic field of said coil so that the magnetic field alone will hold the bimetallic element in the open position once contact has been broken, heating means connected electrically across said other conductor and said dummy conductor and operable to induce by heat a force on said bimetallic element tending to produce armature and bimetallic element movement to an open position only when the difference between said spring force on said bimetallic ele-

ment and the opposed combined induced force and the maximum value of magnetic field force on said armature on said bimetallic element is infinitely small on a particular half cycle of alternating current operation and hence only when maximum current is flowing through said coil on the next succeeding half cycle.

2,716,720

# ENGINE IGNITION APPARATUS AND PROCEDURE

John V. McNulty, Norwich, N. Y., assignor to General Laboratory Associates, Inc., Norwich, N. Y., a corporation of New York  
Application May 22, 1951, Serial No. 227,721  
25 Claims. (Cl. 315—180)



1. In engine ignition apparatus, in combination, a rotatable member, means actuated thereby and including an electrical supply circuit, for establishing successive, spaced, current impulses in said circuit, condenser means, means connected to said circuit and said condenser means and successively energized by said impulses for supplying corresponding, charging impulses to said condenser means, said last-mentioned means including means adapted to inhibit discharge of said condenser means while said successive charging impulses are supplied thereto, a second means actuated by said rotatable member and including a current supply circuit, for establishing a triggering current impulse in said last-mentioned supply circuit, said second impulse-establishing means being timed with said first impulse-establishing means to establish the triggering impulse after at least a predetermined number of said first-mentioned charging impulses have been supplied to the condenser means, and means connected to said second supply circuit and including an output circuit adapted to extend to an ignition spark gap, for converting said triggering impulse into a high voltage sparking impulse in said output circuit, said output circuit being connected with said condenser means, for discharge of said condenser means in said output circuit when said sparking impulse causes a spark through the ignition gap.

2,716,721

# STABILIZATION OF ELECTROLYTIC CAPACITORS

Charles C. Houtz, Bernardsville, and David A. McLean, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application June 20, 1952, Serial No. 294,650  
15 Claims. (Cl. 317—230)

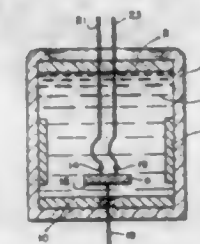


1. An electrolytic capacitor comprising a pair of electrodes at least one of which is formed of a film-forming metal having a dielectric surface coating of an oxide of said metal and a glyco-borate electrolyte in contact with said electrodes, said electrolyte having dissolved therein between .05 per cent and 10 per cent by weight of paratitroso diphenylamine.

2,716,722

# TEMPERATURE STABLE SOLID STATE ELECTRONIC DEVICES

Jerome Rothstein, Red Bank, N. J.  
Application September 2, 1954, Serial No. 453,974  
14 Claims. (Cl. 317—235)  
(Granted under Title 35, U. S. Code (1952), sec. 266)

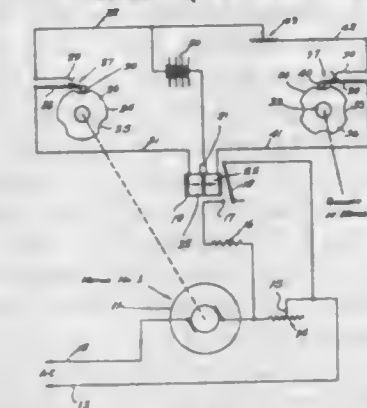


1. A solid state electronic device comprising a substantially rigid container consisting of a material having a relatively low coefficient of expansion, a semiconductor body within said container, electrodes in contact with said semiconductor body, a substance in said container having a relatively high coefficient of expansion, and a pressure transmitting medium whereby the pressure caused by the expansion of said substance due to a rise in temperature is transmitted to the semiconductor body by said medium.

2,716,723

# SYNCHRONIZING MEANS FOR ELECTRIC MOTORS

Ivan W. King, St. Joseph, Mo.  
Application August 4, 1953, Serial No. 372,317  
5 Claims. (Cl. 318—74)



1. Synchronizing means for a pair of electric motors having respective shafts comprising a first resistance connected in the armature circuit of one motor, a second resistance, circuit means for at times connecting said second resistance in shunt with the first resistance and including a pair of relay contacts, a relay controlling said contacts, a first cam on the shaft of one motor, a second cam on the shaft of the other motor, first and second windings wound in opposition on said relay, said windings having a common terminal, said windings cooperating to control said contacts, a source of current, respective normally open switches, means whereby said cams intermittently close said switches, and respective circuits including said switches connecting said source of current to the respective windings through said common terminal.

2,716,724

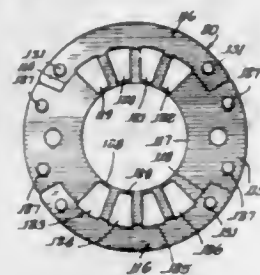
# ELECTRIC MOTOR

Kurt Burian, Chicago, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois  
Application November 27, 1950, Serial No. 197,723  
14 Claims. (Cl. 318—220)

1. A cylindrical laminated motor stator comprising, a laminated main stator member having a central cylindrical opening for receiving a motor rotor, a substantially cylindrical exterior provided with a pair of opposed arcuate recesses and a plurality of opposed winding slots opening into the recesses and closed from the central cylindrical



opening by a thin wall for receiving motor windings, and a pair of laminated sub-stator members of arcuate con-

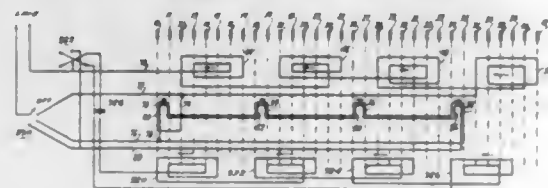


figuration received in the arcuate recesses of the main stator member for completing the magnetic circuit of the stator.

2,716,725

## DYNAMOELECTRIC MACHINES

Stanley Witt, St. Louis, Mo., assignor to Century Electric Company, a corporation of Missouri  
Application June 8, 1953, Serial No. 360,133  
13 Claims. (Cl. 318—220)

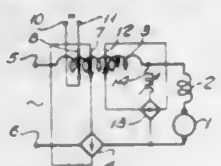


1. A multi-speed electric motor that has a rotor, a stator, a plurality of wind-receiving slots in said stator, a main running winding that has the turns thereof formed as spaced groups of turns, said spaced groups of turns being disposed in groups of slots in said stator that are spaced apart by intermediate slots, said spaced groups of turns generating wound poles at said groups of slots and generating consequent poles at said intermediate slots, and a selectively energizable winding that has the turns thereof formed as spaced groups of turns, said spaced groups of turns of said selectively energizable winding being disposed in said intermediate slots, said spaced groups of turns of said selectively energizable winding generating wound poles at said intermediate slots and generating consequent poles at said spaced groups of slots, said spaced groups of turns of said selectively energizable winding generating wound poles that have the polarity of the consequent poles of said main running winding and generating consequent poles that have the polarity of the wound poles of said main running winding.

2,716,726

## ELECTRIC MOTOR CONTROL DEVICE

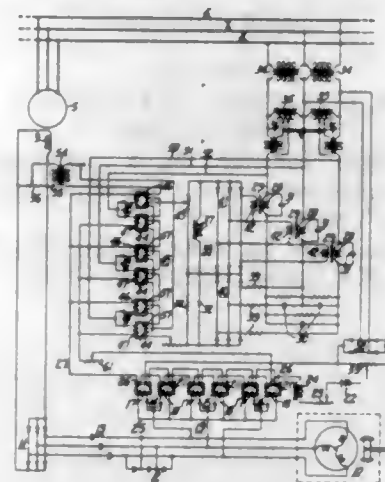
Uno Lamm, Ludvika, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden  
Application May 1, 1951, Serial No. 223,879  
Claims priority, application Sweden May 6, 1950  
4 Claims. (Cl. 318—249)



1. An electric motor system with a series motor and means for regulating the speed of the motor to a substantially constant value, comprising a series field winding for the motor, a transducer in series with said winding, and means for controlling said transducer by the difference between direct current components one of which components is derived from the voltage across the motor and another of which components is derived from the current traversing the motor.

2,716,727  
EXCITATION AND REGULATING SYSTEM FOR ALTERNATORS

Sterling Beckwith, Lake Forest, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.  
Application December 26, 1952, Serial No. 328,104  
8 Claims. (Cl. 322—28)

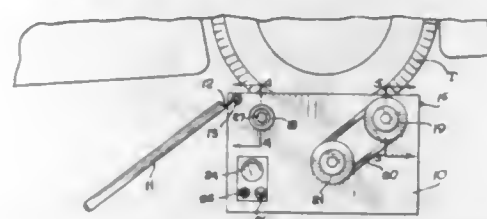


8. In a regulating system for maintaining substantially constant the output voltage of three phase alternating current generator having a field winding, the combination comprising three phase alternating current exciter having a stator winding and a laminated unwound rotor, said exciter operating at a frequency substantially greater than the frequency of said alternating current generator, a three phase rectifier having input and output terminals, said rectifier output terminals connected to said field winding of said generator, said rectifier input terminals connected directly to said stator winding of said exciter, capacitors connected to said exciter stator winding to supply magnetizing current thereto and to prevent collapse of exciter terminal voltage upon short circuit in the output circuit of the generator, a first three phase magnetic amplifier comprising alternating current windings connected across said exciter stator winding, said first magnetic amplifier having control windings, a second three phase magnetic amplifier comprising alternating current windings connected to receive alternating current energy from the output of said generator and pass direct current to said control windings of said first magnetic amplifier, a voltage reference network responsive to the output of said generator, said second magnetic amplifier having control windings connected in circuit relation with the output of said voltage reference network to vary the output of said second magnetic amplifier to cause said alternating current windings of said first magnetic amplifier to absorb variable amounts of lagging magnetizing current from said capacitors to cause said exciter to vary its output voltage for varying the excitation current to said field winding of said generator.

2,716,728

## PORTABLE ELECTRICAL GENERATORS

Kenneth S. Lester, Mountain Lakes, N. J.  
Application February 26, 1953, Serial No. 338,956  
3 Claims. (Cl. 322—40)



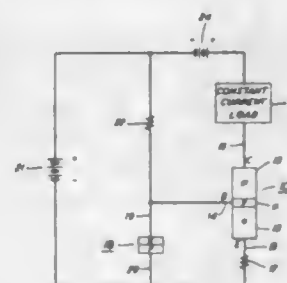
1. A portable generating unit comprising a case, a portable electrical generating unit disposed in said case and a pair of rollers rotatably supported in the sides of said case, said rollers being spaced apart so as to receive

the tire of an automobile between them and at least one of said rollers being mechanically connected to said generating unit so as to actuate said unit and produce electrical power therefrom, and a swingable cover for said case, said cover being pivoted to said case at one end thereof and being swingable to a position where its front end rests on a supporting floor so that the cover may serve as a ramp whereby the automobile tire may be driven up the ramp and onto the rollers of the casing.

2,716,729

## TRANSISTOR CIRCUITS WITH CONSTANT OUTPUT CURRENT

William Shockley, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York  
Application November 24, 1951, Serial No. 258,071  
4 Claims. (Cl. 323—7)

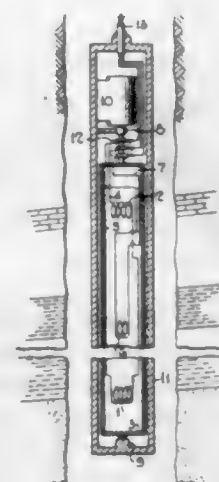


4. In combination, a transistor of the junction type and having a base, an emitter and a collector, a PN diode and a resistance connected in series between said emitter and base, said resistance being large in comparison to the emitter to base resistance, means connected between said emitter and collector and across said diode biasing said diode in the current range where the voltage across said diode is substantially independent of the current flowing therethrough, and a load circuit connected between said collector and base and including an auxiliary biasing source.

2,716,730

## APPARATUS FOR MAGNETIC WELL LOGGING

Philip S. Williams, Tulsa, Okla., assignor to Esso Research and Engineering Company, a corporation of Delaware  
Application July 24, 1952, Serial No. 300,580  
7 Claims. (Cl. 324—8)

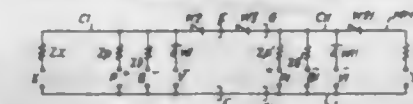


1. Apparatus for magnetically logging a borehole comprising means for developing a signal dependent on the difference in intensity and direction of the horizontal components of the natural magnetic fields existing at at least two vertically spaced points in the borehole, means for simultaneously developing a signal dependent on the horizontal component of the earth's magnetic field at an adjacent level, and means for comparing the said signals.

2,716,731

## ELECTRICAL MODULATORS

Thomas Harold Flowers, Mill Hill, London, and John Edward Flood, London, England  
Application October 23, 1950, Serial No. 191,584  
Claims priority, application Great Britain November 1, 1949  
17 Claims. (Cl. 332—9)

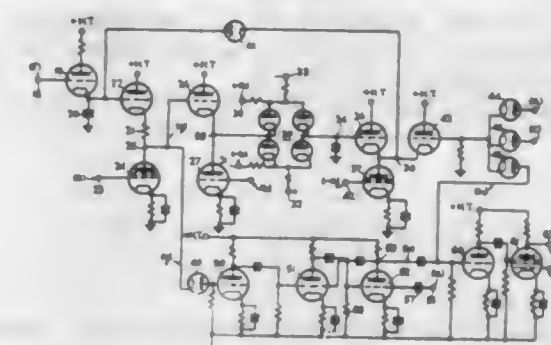


1. An electric pulse modulator comprising first and second rectifiers in series connection and the same polarity in the series connection, a common lead, a shunt channel bridged across the junction of the two rectifiers and the common lead, an input pulse train source and a first bias source each in series with an impedance and bridged across the junction of the two rectifiers and the common lead, a further bias source having one side connected to the common lead and the other side connected to the end of the first rectifier remote from the second rectifier, and a series channel bridged across the end of the second rectifier remote from the first rectifier and the common-channel, the E. M. F.'s in the series channel and the further bias source when taken in the circuit including the two rectifiers in series being such at all times as to urge backward current through the rectifiers, and in which the resultant current from the shunt channel, the first bias source and the input pulse train source has the polarity of forward current flow through the second rectifier only in the presence of a pulse from the input pulse train source.

2,716,732

## PULSE-CODE SIGNALLING SYSTEMS

Brian Leonard Garner, Staines, England, and Maurice Moise Levy, Ottawa, Ontario, Canada, assignors to The General Electric Company Limited, London, England  
Application December 2, 1950, Serial No. 198,772  
Claims priority, application Great Britain December 5, 1949  
12 Claims. (Cl. 332—11)



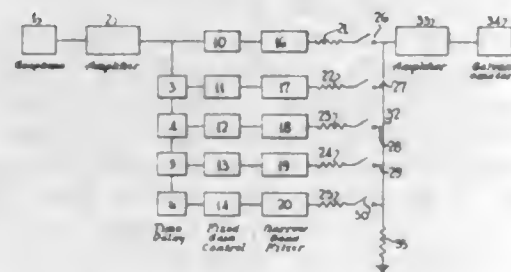
1. Apparatus for generating a pulse code signal representative of a voltage level with respect to a datum level, said apparatus comprising first storage means for initially storing the said voltage level, means for generating a signal formed by a train of pulses of progressively decreasing amplitude, means for continuously subtracting the said signal from the level stored by the first storage means, sense determining means for determining whether the remainder of this subtraction is the same sign as, or the opposite sign to, the said voltage level with respect to the datum level, second storage means for successively storing the levels obtained by subtracting the peaks of successive pulses of said train from the level stored by the first storage means, means to reduce the level stored by the first storage means to each new level stored by the second storage means provided that the level stored by the second storage means is not the result of a subtraction, as determined by the sense determining means, which caused the said remainder to be the opposite side of the datum level



to the said voltage level, and means for generating pulse signal elements which correspond one to each of the first-named pulses of the said train and distinguish between those first-named pulses which give rise to resultant voltages of the same sign as the said voltage level with respect to the datum level and those which rise to resultant voltages of the opposite sign.

2,716,733

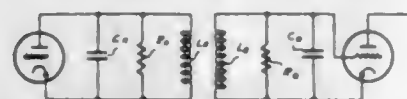
**VARIABLE BANDWIDTH BAND-PASS FILTER**  
James J. Roark, Tulsa, Okla., assignor to Esso Research and Engineering Company, a corporation of Delaware  
Application May 10, 1950, Serial No. 161,177  
7 Claims. (Cl. 333-75)



1. A variable bandwidth bandpass filter network comprising a series of sharply tuned narrow bandpass filter sections of overlapping bandwidths, increasing in bandpass frequency through the series, all of said filter sections being connected to a common input, each of said filter sections having substantially constant time delay for all frequencies within its pass band, time delay means associated with the narrow filter sections adapted to supply increasingly long time delay with increased individual bandwidth frequency and to add the outputs of said filter sections in phase when said outputs are combined, means for connecting the outputs of selected adjacent filter sections and means associated with the output of each filter section adapted to isolate said filter section from the other filter sections with which it is combined.

2,716,734  
FILTER

Lawrence Harris, Brooklyn, N. Y., assignor, by mesne assignments, to Norden-Ketay Corporation, New York, N. Y., a corporation of Illinois  
Application July 19, 1951, Serial No. 237,615  
6 Claims. (Cl. 333-77)

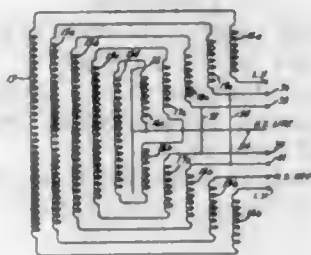


1. A coupling filter having a predetermined band width of pass band, including in combination a first tuned circuit having a first capacitance and a first inductance connected in parallel, a second tuned circuit having a second capacitance and a second inductance connected in parallel, the first circuit being tuned to the same frequency as the second circuit, said circuits being coupled together with a predetermined coefficient of coupling to form a filter network having a double-peaked characteristic curve with a predetermined variation in gain over the pass band, said network having a resonant frequency different from the frequency of the tuned circuits and different from the mid-frequency of the pass band, the peaks of the characteristic curve being substantially of the same amplitude and occurring substantially symmetrically with the mid-frequency, the network having an input terminating resistance and an output terminating resistance, said terminating resistances being different from the respective input and output characteristic image impedances at mid-frequency, the ratio of the input terminating resistance to the input characteristic image impedance at mid-frequency being predeter-

mined and equal to the ratio of the output terminating resistance to the output characteristic image impedance at mid-frequency.

2,716,735

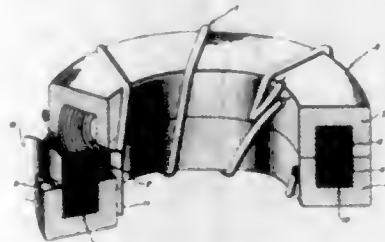
**ELECTRICAL INDUCTION APPARATUS**  
Stanley B. Williams, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York  
Application November 20, 1953, Serial No. 393,361  
7 Claims. (Cl. 336-70)



1. Electrical induction apparatus comprising a magnetic core having a winding leg, and a high voltage winding surrounding said winding leg and including an inner group of a plurality of coaxial cylindrical layers of conductive turns and an outer group of a plurality of coaxial cylindrical layers of conductive turns radially surrounding the inner group, each layer of turns of the outer group consisting of two sets of turns axially spaced from each other near the center of the layer, the lengths of the layers of turns of each group progressively decreasing toward the other group, the axial spacing of the two sets of turns in each layer of the outer group progressively increasing outwardly, the lengths and spacings of the layers of conductive turns and the specific capacitances of the insulation between the layers being proportioned to produce a capacitance network for initially distributing a high transient voltage substantially uniformly throughout the winding, said layers being connected so that the voltages of successive layers of each group are of progressively increasing magnitude toward the other group.

2,716,736

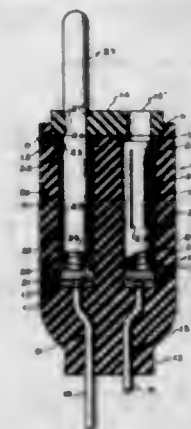
**SATURABLE REACTOR**  
Harold B. Rex, Falls Church, Va.  
Application December 8, 1949, Serial No. 131,882  
1 Claim. (Cl. 336-155)  
(Granted under Title 35, U. S. Code (1952), sec. 266)



A variable reactance device comprising a multiturn spiral coil of substantially ribbon-shaped high permeability conducting material, insulating means disposed between adjacent turns of said coil, a high permeability nonconducting ferrite toroidally-shaped core having a substantially continuous outside surface constructed of two symmetrical solid sections with a continuous groove therein forming an annular space within the core body for receiving a high permeability coil, said spiral coil being enclosed within said core with the conducting material of said ribbon-shaped coil in direct contact with said core, means penetrating said core for providing electrical connections to the opposite ends of said spiral coil, and a toroidal coil of nonpermeable conducting material wound around said score.

2,716,737

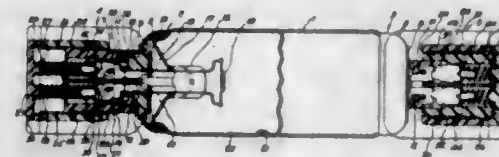
**ELECTRIC CABLE SAFETY CONNECTORS**  
Garland A. Maberry, Rossmore, W. Va.  
Application June 17, 1952, Serial No. 293,896  
7 Claims. (Cl. 339-31)



5. A plug-in connector comprising a body having parallel bores therein, a screw threaded base at the bottom of each bore, a sleeve positioned at one end on one of said bases and extending along the corresponding bore, a sleeve socket having an inner screw threaded end adapted to be received in a said base, and an insulating bushing mounted in the body and receiving the other ends of the said sleeve and socket.

2,716,738

**LAMP HOLDERS FOR TUBULAR LAMPS**  
John M. Pistey, Fairfield, Conn., assignor to General Electric Company, a corporation of New York  
Application August 30, 1954, Serial No. 452,851  
7 Claims. (Cl. 339-50)



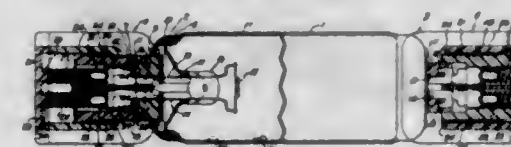
1. A lampholder comprising walls defining an open-ended housing, a hollow contact support member mounted in said housing, said member having a transverse partition recessed from its outer end and defining with the walls of said member an outwardly opening cavity, the surface of said partition facing away from said cavity having inwardly slanting portions, and said partition having a contact-receiving slot therethrough, said holder comprising also a pair of flat spaced electrical contacts extending through the slot in said partition and terminating within said cavity, the forward end portions of said contacts being cam-shaped and the rearward ends thereof having transverse portions, and springs mounted within said housing and biasing said contact outwardly with their transverse portions pressed against the said slanted surface portions of said partition to hold said contacts in outwardly divergent positions, and a longitudinally extending partition mounted within the said support member to insulate each spring and contact from the other, whereby a wiping electrical contact is made between said holder contacts and the terminals of a lamp base suitably shaped to engage the cam-shaped ends of said contacts and thereby to cause displacement of said contacts from their divergent positions into parallel positions against the force of said springs on insertion of a lamp base into the cavity of said contact support member.

2,716,739

**LAMP BASE AND HOLDERS FOR DOUBLE ENDED ELECTRIC-DISCHARGE LAMPS**  
Eugene Lemmers, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York  
Application September 15, 1953, Serial No. 380,279  
20 Claims. (Cl. 339-52)

1. A base for an electric lamp having a glass envelope and a flexible metal wire inlead of appreciable stiffness

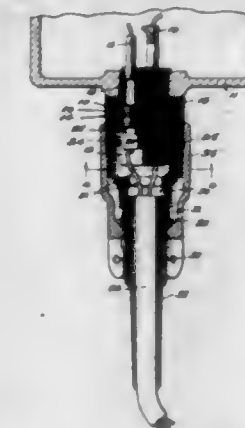
extending from said envelope, said base comprising a body member of electrically insulating material having an inlead receiving passage therethrough and having a groove communicating with said passage and extending transversely thereto across an exposed face of said member for receiving a bent-over outer end portion of an inlead extending along said passage, the walls of said passage being spaced



apart to accommodate therebetween the inlead of the lamp and an inserted electrical contact of a lamp holder and being shaped to support the accommodated inlead in position for electrical engagement with the accommodated contact, the groove in said body member being substantially deeper than the diameter of the accommodated wire inlead to protect the bent-over end portion of said inlead from accidental contacts.

2,716,740

**EXPLOSION-PROOF CORD CONNECTOR**  
Willard E. Parish, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York  
Application August 1, 1951, Serial No. 239,769  
2 Claims. (Cl. 339-89)



1. An explosion-proof cord connector comprising a cylindrical body formed of insulating material and being threaded externally at one end for flamtight engagement with a housing, the outer end of said body being formed with a plurality of axially extending recesses, a current carrying member arranged in register with each of said recesses and extending through the body in flamtight relation thereto, a terminal member positioned in each of said recesses, said terminal members being attached to the outer ends of said current carrying members respectively, a second series of axially extending recesses formed in the body intermediate said first mentioned recesses an insulating shell encircling the outer end of said body and being formed with axially extending ribs on its inner surface positioned in the recesses of said second series, a cord grip sleeve engaging the outer end of said shell, an outer shell encircling said insulating shell and being threaded on the body intermediate the ends thereof, said outer shell being operable upon threaded engagement with the body to move said cord grip sleeve against said insulating shell and to move the latter against the body.

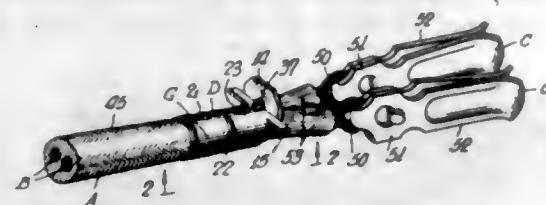
2,716,741

**STRAIN RELIEF DEVICE**  
George Ustin, Palisades Park, N. J., assignor to Continental Copper & Steel Industries, Inc., New York, N. Y., a corporation of Delaware  
Application June 29, 1951, Serial No. 234,318  
3 Claims. (Cl. 339-103)

1. A strain relief device having a cylindrical wrap-around portion and an outwardly extending right angle



cross section member at one end of said wrap-around portion of a continuous strip of metal, each said device consisting of a V-shaped member with a rounded base and divergent legs with one leg end having a triangular central recess and the other leg end having a sharp tri-



angular point conforming to said recess, said legs engaging a cable with a substantial space between the ends of the legs, a flat cuff at one edge only and at the base of said V-shaped member extending transversely away from the rounded base of the V and laterally beyond the side legs of the V.

2,716,742

## PLASTIC INSULATED BAYONET BASE

Adolph C. Szafran, Euclid, and Robert L. Imboden, Lyndhurst, Ohio, assignors to General Electric Company, a corporation of New York; patent dedicated to the Public insofar as it relates to lamps and lamp parts to the extent stated in document recorded in the United States Patent Office, January 4, 1954, Liber U-238, page 394

Application February 7, 1951, Serial No. 209,738  
7 Claims. (Cl. 339-145)



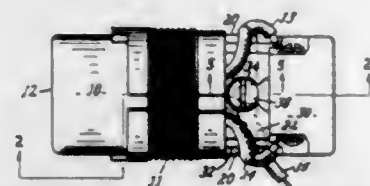
1. A base for electrical devices comprising a cylindrical shell, means on said shell for indexing said base in a socket, a plastic web closing the bottom end thereof, primary bosses projecting from the outer surface of said web and displaced from the center thereof, electrical contacts mounted and exposed on the outer surfaces of said primary bosses, and secondary bosses projecting from said web and abutting against said primary bosses and extending laterally therefrom along a generally arcuate path.

2,716,743

## RECEPTACLE AND SWITCH ASSEMBLY

Willard E. Parish, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York

Application November 15, 1951, Serial No. 256,570  
2 Claims. (Cl. 339-147)



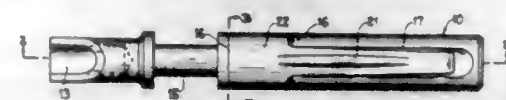
1. A receptacle and switch assembly comprising a receptacle having a plate fixedly secured thereto and extending outwardly from one end thereof, and said receptacle being formed with a ledge extending outwardly from said end in spaced parallel relation to the plate, a

switch supporting plate having a portion adapted for insertion between said first plate and said ledge with the inner end edge of said switch supporting plate engaging the receptacle, and a screw carried by one plate and operable when tightened to restrain relative movement between said switch supporting plate and said first plate.

2,716,744

## SOCKET CONTACT FOR ELECTRICAL CONNECTOR

George J. Swanson, Unadilla, and Edward Kokalas, Sidney, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware  
Application April 1, 1952, Serial No. 279,862  
5 Claims. (Cl. 339-262)

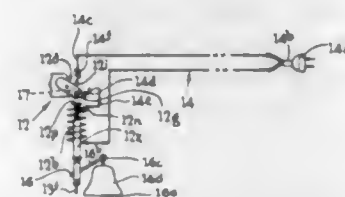


1. An electrical socket contact comprising an elongated cylindrical metallic body having an axial cylindrical bore in one end and terminating short of the other end, an annular external groove adjacent the closed end of said bore and an elongated axially extending slot in the wall thereof around said bore, said slot terminating at one end in said groove and at its other end adjacent the open end of said bore, the wall of said slot at said other end being bevelled externally of the bore, and a contact retainer comprising a cylindrical collar received in said groove and tightly wrapped around and in intimate contact throughout its extent with the bottom surface of the groove, the outer surface of the collar having a diameter not greater than the outer diameter of said body, said retainer further comprising a resilient finger extending from said collar in said slot, said finger having a curved intermediate portion which extends into said bore when the free end portion thereof engages said bevelled surface and being normally under tension urging said free end portion into engagement with said bevelled surface, and said finger also having a longitudinally extending rib in that portion thereof between said curved intermediate portion and said collar.

2,716,745

## ELECTRICALLY OPERATED BELL RINGING DECORATIVE DEVICE

John Petry, Bayside, N. Y., assignor to Raylite Electric Corp., Bronx, N. Y., a corporation of New York  
Application July 1, 1950, Serial No. 171,610  
7 Claims. (Cl. 340-398)



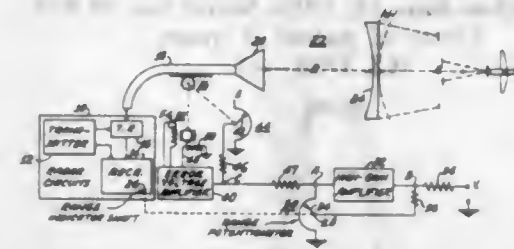
1. In a decorative electrically operated bell-ringing device of the character described including a base, struts upstanding from said base, a bell swingably mounted from said struts, at one level above said base, a solenoid magnet coil connected in an electric circuit supported between said struts over said base at a level above said bell, an armature slidably mounted to extend through said solenoid coil for actuation thereby, a switch positioned over said solenoid coil in the path of movement of the armature for making and breaking said circuit on reciprocation of said armature, a figure carried by said base having an articulatable appendage extending below the level of said bell, and linkage members interconnecting said armature, bell and appendage to ring the bell and

simulate bell ringing movements by said appendage on reciprocation of said armature when making and breaking the circuit through said switch.

2,716,746

## FOCUSING OF RADAR BEAMS FOR A TRACKING RADAR

Richard W. Howery, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware  
Application October 31, 1950, Serial No. 193,106  
12 Claims. (Cl. 343-7.4)



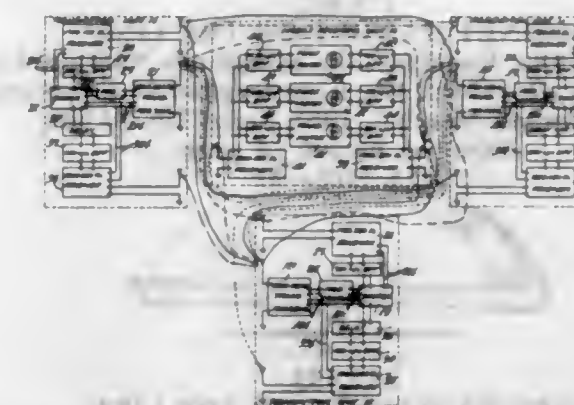
1. A radiant energy echo detection and ranging apparatus comprising a radiant energy transmitter, a receiver to receive and detect echoes of the transmitted energy from radiant energy reflecting objects, and having means to measure the time elapsed between transmission of said energy and reception of the echoed energy thereby to measure the range to a reflecting object, an energy focusing antenna system coupled to at least one of said transmitter and said receiver to focus energy to or from a distant focal point with means to change the distance from said system to said focal point, said last named means being coupled to and responsive to said means to measure the range whereby the distance from the system to said focal point is changed in response to changes in the measured range.

697 O. G.-47

2,716,747

## RADIO LOCATION SYSTEM

Edward J. Crossland, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware  
Application August 26, 1953, Serial No. 376,554  
37 Claims. (Cl. 343-105)



1. A position determining system comprising at least three spaced transmitters for radiating waves of identical frequency to a receiving point, means for rendering said transmitters sequentially operative to radiate to said receiving point at least three position indicating waves at different frequencies, means responsive to at least one of said last-named waves for successively modulating the identical frequency waves radiated by said spaced transmitters with reference signals, and receiving and translating apparatus at said receiving point jointly responsive to said position indicating and reference signals for producing at least three indications respectively representative of the position of said receiving point relative to different ones of said transmitters.



# DESIGNS

AUGUST 30, 1955

175,452

## CABINET HANDLE OR THE LIKE

Vytant P. Aleks, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware  
Application March 7, 1955, Serial No. 34,889  
Term of patent 14 years  
(Cl. D10—8)



175,453

## CABINET HANDLE OR THE LIKE

Dagfinn O. Amdal, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware  
Application March 7, 1955, Serial No. 34,886  
Term of patent 7 years  
(Cl. D10—8)



175,454

## CABINET HANDLE OR THE LIKE

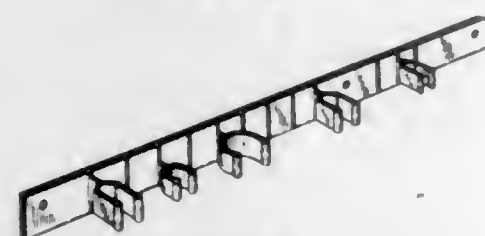
Dagfinn O. Amdal, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware  
Application March 7, 1955, Serial No. 34,887  
Term of patent 7 years  
(Cl. D10—8)



175,455

## TOOL HOLDER

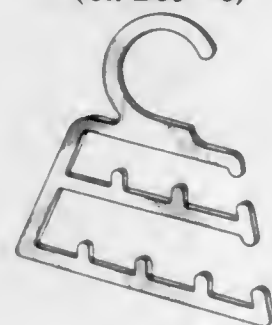
Richard Bartleman, San Francisco, Calif.  
Application October 1, 1954, Serial No. 32,506  
Term of patent 14 years  
(Cl. D54—2)



175,456

## NECKTIE RACK

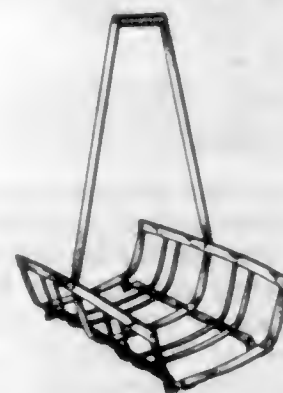
Knut G. Behlefeldt, Los Angeles, Calif.  
Application February 18, 1955, Serial No. 34,569  
Term of patent 14 years  
(Cl. D33—8)



175,457

## HAND BASKET FOR LOGS OR THE LIKE

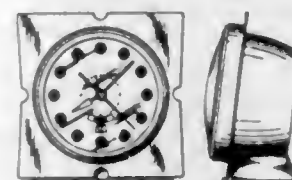
Carl G. Bjorncrantz, Evanston, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York  
Application June 10, 1954, Serial No. 30,919  
Term of patent 7 years  
(Cl. D58—4)



175,458

## CLOCK

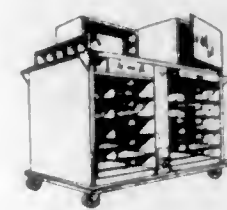
Leo I. Bruce, Framingham Center, Mass., assignor to General Electric Company, a corporation of New York  
Application December 14, 1954, Serial No. 33,537  
Term of patent 3½ years  
(Cl. D42—7)



175,459

## HOT FOOD TRUCK OR SIMILAR ARTICLE

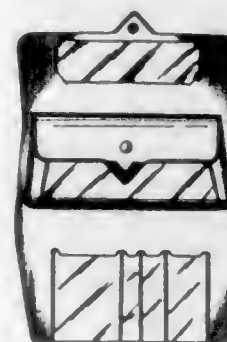
John Morris Carter, Dallas, Tex.  
Application March 14, 1955, Serial No. 35,027  
Term of patent 7 years  
(Cl. D14—3)



175,460

## HANDBAG OR SIMILAR ARTICLE

Herbert S. Chase, Flushing, N. Y., assignor to Bernard Cahn Co., Inc., New York, N. Y.  
Application February 15, 1955, Serial No. 34,525  
Term of patent 3½ years  
(Cl. D87—3)



AUGUST 30, 1955

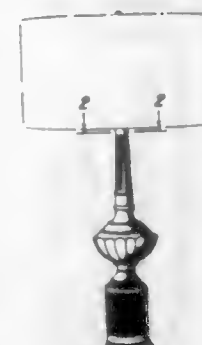
U. S. PATENT OFFICE

683

175,461

## TABLE LAMP

Charles W. Clemens, Nashville, Tenn., assignor to Aladdin Industries, Incorporated, Nashville, Tenn., a corporation of Illinois  
Application March 8, 1955, Serial No. 34,940  
Term of patent 3½ years  
(Cl. D48—20)



175,462

## TABLE LAMP

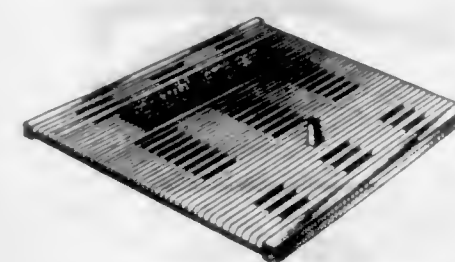
Charles W. Clemens, Nashville, Tenn., assignor to Aladdin Industries, Incorporated, Nashville, Tenn., a corporation of Illinois  
Application March 8, 1955, Serial No. 34,941  
Term of patent 14 years  
(Cl. D48—20)



175,463

## GOLF PRACTICE MAT OR SIMILAR ARTICLE

Joseph Elesh, Chicago, Ill., assignor to Flexi-Mat Corporation, Chicago, Ill., a corporation of Illinois  
Application November 1, 1954, Serial No. 32,876  
Term of patent 14 years  
(Cl. D34—5)



175,464

## MOTOR COACH

Roland E. Gegoux, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware  
Application November 3, 1954, Serial No. 32,936  
Term of patent 14 years  
(Cl. D14—3)



175,465

## COMBINED DIAL AND HANDS FOR A CLOCK OR SIMILAR ARTICLE

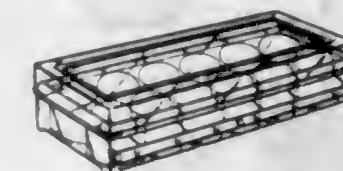
Franklin Eugene Gilson, Upland, Calif.  
Application March 17, 1954, Serial No. 29,584  
Term of patent 3½ years  
(Cl. D42—10)



175,466

## COMBINED SPOOL BOX AND THREAD CUTTERS

Alvah M. Griffin, Manhattan Beach, Calif., assignor to Reynolds Industries, Incorporated, Santa Monica, Calif., a corporation of California  
Application February 24, 1953, Serial No. 23,741  
Term of patent 3½ years  
(Cl. D3—19)



175,467

## WALL PANEL

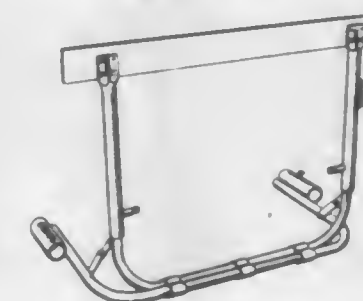
George H. Hake, Alden, N. Y., assignor to George H. Hake Corporation, Buffalo, N. Y., a corporation of New York  
Application May 12, 1955, Serial No. 35,950  
Term of patent 14 years  
(Cl. D13—1)



175,468

## HURDLE

David L. Holmes, Detroit, Mich.  
Application October 22, 1954, Serial No. 32,789  
Term of patent 14 years  
(Cl. D34—5)





175,469

**COMBINATION EYE SHIELD AND SUNSHADE FRONT**

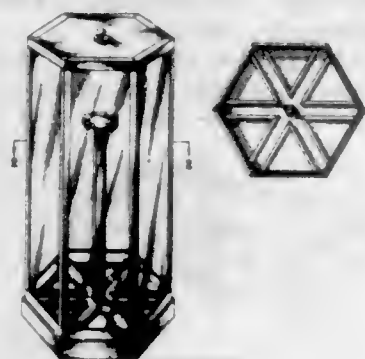
Glade Ives, Kansas City, Mo., and Barbara H. McLennan, Evanston, Ill.; said Ives assignor to Starbright Corporation, Evanston, Ill., a corporation of Illinois  
Application December 13, 1954, Serial No. 33,516  
Term of patent 7 years  
(Cl. D57—1)



175,470

**GUN CABINET**

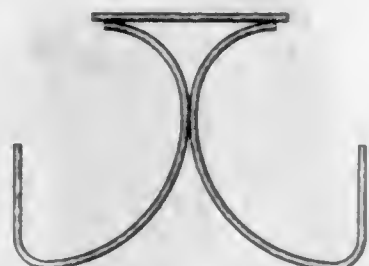
Oscar B. Kahn, Capac, Mich.  
Application February 28, 1955, Serial No. 34,734  
Term of patent 14 years  
(Cl. D33—19)



175,471

**END SUPPORT FOR A TABLE AND BENCH COMBINATION**

George N. Knox, Alliance, Ohio  
Application October 21, 1953, Serial No. 27,264  
Term of patent 14 years  
(Cl. D33—14)



175,472

**ADJUSTABLE FLOOR LAMP**

Bernard Kotzin, Sr., Los Angeles, Calif.  
Application August 30, 1954, Serial No. 32,074  
Term of patent 14 years  
(Cl. D48—20)



175,473

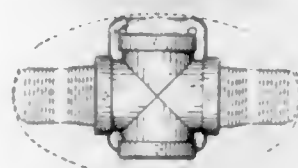
**PULL FOR CABINET DOORS AND THE LIKE**  
Newton S. Leichter, Los Angeles, Calif., assignor to Ajax Hardware Manufacturing Corporation, Los Angeles, Calif., a corporation of California  
Application March 7, 1955, Serial No. 34,900  
Term of patent 7 years  
(Cl. D10—8)



175,474

**SIGNAL LIGHT**

John J. Manning, Grosse Pointe, Mich.  
Application July 29, 1954, Serial No. 31,652  
Term of patent 3½ years  
(Cl. D72—1)



175,475

**STUFFED ANIMAL FIGURE**

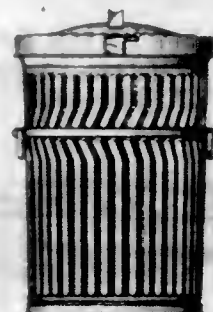
Christine H. Oswald, Falls Church, Va.  
Application May 25, 1955, Serial No. 36,207  
Term of patent 14 years  
(Cl. D34—2)



175,476

**REFUSE CAN**

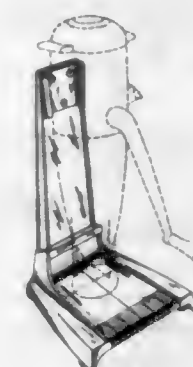
Raymond E. Paddock, Elm Grove, Wis., assignor to New York Shipbuilding Corporation, New York, N. Y., a corporation of New York  
Application September 23, 1954, Serial No. 32,409  
Term of patent 14 years  
(Cl. D58—17)



175,477

**SUPPORTING STAND FOR A DOMESTIC ICE CRUSHER**

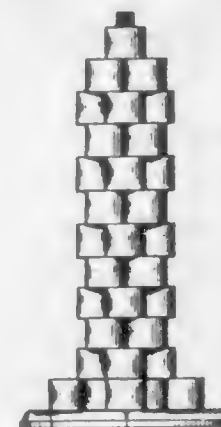
Joseph Palma, Jr., Chicago, Ill., assignor, by mesne assignments, to The Dazey Corporation, St. Louis, Mo., a corporation of Missouri  
Application June 23, 1954, Serial No. 31,129  
Term of patent 14 years  
(Cl. D89—1)



175,478

**LAMP BASE OR SIMILAR ARTICLE**

George M. Passwater, Newport, R. I.  
Application February 11, 1955, Serial No. 34,481  
Term of patent 14 years  
(Cl. D48—20)



175,479

**DISPLAY STAND**

Noel Adolph Petter, Glendale, Calif., assignor to Standard Paper Box Corp., Los Angeles, Calif., a corporation of Delaware  
Application December 27, 1954, Serial No. 33,700  
Term of patent 14 years  
(Cl. D80—9)



175,480

**CIGARETTE HOLDER**

John M. Saunders, Portsmouth, Va.  
Application May 21, 1954, Serial No. 30,598  
Term of patent 7 years  
(Cl. D85—8)



175,481

**PRICE TAG HOLDER FOR COUNTERS**

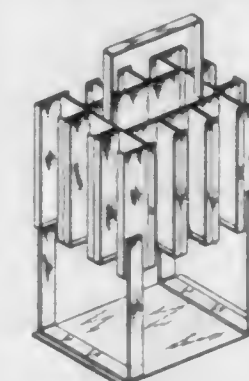
Robert J. Slavsky, Detroit, Mich., assignor to Shaw and Slavsky, Inc., Detroit, Mich., a corporation of Michigan  
Application July 14, 1954, Serial No. 31,417  
Term of patent 14 years  
(Cl. D80—1)



175,482

**TICKET HOLDER**

Louis Stoler, Great Neck, N. Y., assignor to Jos. Freeman & Co., Inc., Brooklyn, N. Y., a corporation of New York  
Application April 21, 1955, Serial No. 35,619  
Term of patent 14 years  
(Cl. D80—9)



175,483

**CABINET HANDLE OR THE LIKE**

Roy A. Stone, Rockford, Ill., assignor to National Lock Company, Rockford, Ill., a corporation of Delaware  
Application March 7, 1955, Serial No. 34,888  
Term of patent 14 years  
(Cl. D10—8)





175,484

**THERMOMETER**

Sidney Ween and Edward P. Dobrin, New York, N. Y.,  
assignors to Weksler Thermometer Corporation, New  
York, N. Y., a corporation of New York  
Application April 16, 1953, Serial No. 24,528  
Term of patent 7 years  
(Cl. D52-7)



175,485

**ONE PIECE TIE DOWN DEVICE OR SIMILAR ARTICLE**

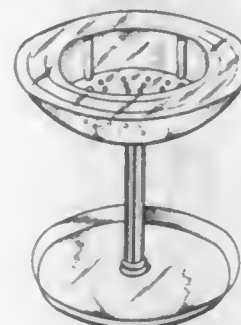
Harry Weiss, Bayside, N. Y.  
Application March 28, 1955, Serial No. 35,246  
Term of patent 7 years  
(Cl. D54-11)



175,486

**WORM FEEDER**

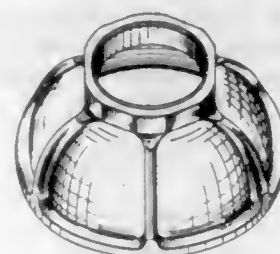
Harding W. Willinger and Herbert N. Nestler,  
New York, N. Y.  
Application April 21, 1954, Serial No. 30,121  
Term of patent 7 years  
(Cl. D91-2)



175,487

**LOCK NUT**

Stephen A. Young, Delphi, Ind.  
Application October 7, 1954, Serial No. 32,575  
Term of patent 14 years  
(Cl. D54-2)

**LIST OF REISSUE PATENTEEES**

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NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Daniels, Lee G. Re. 24,055, Cl. 210-24.  
Johansen, Johannes P., 1/2 to S. L. Johansen. Re. 24,056, Cl. 119-19.  
Johansen, Selmar L.: See—  
Johansen, Johannes P. Re. 24,056.  
Nazewski, Mathew, to Sprague Electric Co. Re. 24,057, Cl. 313-117.  
Sprague Electric Co.: See—  
Nazewski, Mathew. Re. 24,057.

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Boerner, Eugene S., to Jackson & Perkins Co. 1,415, Cl. 47-61.  
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Lemcke, Robert S., and Snyder. 1,414.  
Jackson & Perkins Co.: See—  
Boerner, Eugene S. 1,415.  
Mallerin, Charles. 1,416.  
Krieter, Otto A., to A. N. Pierson, Inc., and American Bulb Co. 1,413, Cl. 47-61.  
Lemcke, Robert S., and J. A. Snyder, to Columbia & Okanogan Nursery Co. 1,414, Cl. 47-62.  
Mallerin, Charles, to Jackson & Perkins Co. 1,416, Cl. 47-61.  
Pierson, A. N., Inc.: See—  
Krieter, Otto A. 1,413.  
Snyder, Jacob A.: See—  
Lemcke, Robert S., and Snyder. 1,414.

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Clemens, Charles W. 175,462.  
Amdal, Dagunn O., to National Lock Co. 175,453, Cl. D10-8.  
Amdal, Dagunn O., to National Lock Co. 175,454, Cl. D10-8.  
Bartleman, Richard. 175,455, Cl. D54-2.  
Behlefeldt, Knut G. 175,456, Cl. D33-8.  
Bjorncrantz, Carl G., to Sears, Roebuck and Co. 175,457, Cl. D58-4.  
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Chase, Herbert S., to Bernard Cahn Co., Inc. 175,460, Cl. D87-3.  
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Clemens, Charles W., to Aladdin Industries, Inc. 175,462, Cl. D48-20.  
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Knox, George N. 175,471, Cl. D33-14.  
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Leichter, Newton S., to Ajax Hardware Mfg. Co. 175,473, Cl. D10-8.  
Manning, John J. 175,474, Cl. D72-1.  
McLennan, Barbara H.: See—  
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Slavsky, Robert J., to Shaw and Slavsky, Inc. 175,481, Cl. D80-1.  
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Weiss, Harry. 175,485, Cl. D54-11.  
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Young, Stephen A. 175,487, Cl. D54-2.



# LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF AUGUST, 1955

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A P Controls Corp.: See—  
Ehlike, Edward C. 2,716,535.  
Abendroth, Guss F., to Esso Research and Engineering Co. 2,716,454, Cl. 166—42.  
Adams, Edward T., and I. S. Goodman, to Westinghouse Electric Corp. 2,716,714, Cl. 313—271.  
Adams, Paul L., W. A. Norman, and C. K. Sitterly, to Carr, Adams & Collier Co. 2,716,447, Cl. 160—40.  
Alexander, Focaneanu. 2,716,712, Cl. 313—110.  
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Davis, Arnold R. 2,716,636.  
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Hecker, Hanna E. 2,716,485.  
American Steel Foundries: See—  
Simanek, Edward J. 2,716,468.  
American Tool Works: See—  
Hoelscher, William G. 2,716,675.  
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Claski, Irving. 2,716,351.  
Anaconda Copper Mining Co.: See—  
Frick, Frederick F., Donohoe, and Ruckwardt. 2,716,600.  
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Anderson, James B.: See—  
Stimpson, Robert H., and Anderson. 2,716,609.  
Arrowood, William G. 2,716,538, Cl. 254—131.5.  
Atkinson, Spencer R., to California Institute Research Foundation. 2,716,283, Cl. 32—14.  
Austenal Laboratories, Inc.: See—  
Reymann, Edward H., and Borella. 2,716,406.  
Austin, Herbert F., Jr., M. Konigsberg, J. M. Morrison, and F. C. Campins, to Jam. 2,716,617, Cl. 117—37.  
Automatic Electric Laboratories, Inc.: See—  
Kahn, Frederick L. 2,716,674.  
Automatic Pump & Softener Corp.: See—  
Whitlock, Robert A., Jr. 2,716,422.  
Ayres, Harlow V. 2,716,525, Cl. 236—20.  
B&L Mfg. Co.: See—  
Linscheld, Arthur A. 2,716,319.  
Bachman, William S., to Columbia Broadcasting System, Inc. 2,716,551, Cl. 274—24.  
Bacon, Francis T., to E. R. A. Patents Ltd. 2,716,670, Cl. 136—86.  
Badische Anilin- & Soda-Fabrik Aktiengesellschaft: See—  
Braun, Willy, and Treuge. 2,716,652.  
Reppe, Walter. 2,716,666.  
Bailey, Sidney, Jr. 2,716,585, Cl. 8—14.  
Baker, John H., to American Brake Shoe Co. 2,716,526, Cl. 241—197.  
Baker Perkins Inc.: See—  
Irving, Henry F. 2,716,290.  
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Wahl, Eugene A., and Winters. 2,716,497.  
Ballauer, Alb C.: See—  
Toney, Ernest W., Ostroff, and Ballauer. 2,716,459.  
Barndollar, Cora M. 2,716,239, Cl. 2—69.5.  
Barnes, Ralph W. 2,716,684, Cl. 200—166.  
Barry-Wehmiller Machinery Co.: See—  
Wehmiller, Frederick W., and Herold. 2,716,478.  
Barstow, Eugene D. 2,716,490, Cl. 210—130.  
Bechtel, Robert J., to Hercules Powder Co. 2,716,631, Cl. 202—68.  
Becker, Rodger F. 2,716,701, Cl. 240—54.  
Beckwith, Sterling, to Allis-Chalmers Mfg. Co. 2,716,727, Cl. 322—28.  
Beeman, Carl. 2,716,570, Cl. 294—22.  
Bell Telephone Laboratories, Inc.: See—  
Foster, Orrington C. 2,716,622.  
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Beman, Floyd L., to The Dow Chemical Co. 2,716,663, Cl. 260—559.  
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Bruckner, Clayton J. 2,716,698, Cl. 240—1.  
Buchanan, George G.: See—  
Stenel, Richard W., Plant, and Buchanan. 2,716,618.  
Bunting, Albert L., to Continental Filling Corp. 2,716,637, Cl. 260—23.  
Burian, Kurt, to G-M Laboratories, Inc. 2,716,724, Cl. 318—220.  
Burndy Engineering Co., Inc.: See—  
Matthysse, Irving F. 2,716,275.  
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Byrns, Alva C., to The Kaiser Aluminum & Chemical Corp. 2,716,589, Cl. 23—131.  
Cady, Percy L., Jr. 2,716,436, Cl. 153—15.  
California Institute Research Foundation: See—  
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Callaway, Clarence R., to Watson Elevator Co., Inc. 2,716,467, Cl. 187—90.  
Callaway Mills Co.: See—  
Colvin, James J. 2,716,326.  
Callaway, William S.: See—  
Wysong, Paul V., Jr., and Callaway. 2,716,532.  
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Austin, Herbert F., Jr., Konigsberg, Morrison, and Campins. 2,716,617.  
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Carr, Adams & Collier Co.: See—  
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Chemo Puro Mfg. Corp.: See—  
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Rothwell, Philip M. 2,716,399.  
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Claski, Irving, to Ampro Corp. 2,716,351, Cl. 74—400.  
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Clausing, Henry G., to Vulcan Corp. 2,716,431, Cl. 144—309.  
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Cline, Edwin L., to Clayton Mfg. Co. 2,716,339, Cl. 73—117.  
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Cohen, Merrill, and J. R. Ladd, to General Electric Co. 2,716,638, Cl. 260—46.5.  
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Columbia Broadcasting System, Inc.: See—  
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Cotman, John D., Jr., to Monsanto Chemical Co. 2,716,643, Cl. 260—92.8.  
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Davis, Arnold R., to American Cyanamid Co. 2,716,636, Cl. 260—8.  
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41—26: 2,716,300	406: 2,716,377	173—28: 2,716,445	228—6: 2,716,506	372: 2,716,654	155: 2,716,736
43—21: 2,716,301	101—38: 2,716,378	174—159—1: 2,716,446	229—10: 2,716,507	381: 2,716,655	31: 2,716,737
57.5: 2,716,302	103—25: 2,716,381	175—40: 2,716,447	230—313: 2,716,508	429: 2,716,656	50: 2,716,738
84: 2,716,303	105—369: 2,716,382	176—61: 2,716,448	231—10.41: 2,716,509	461: 2,716,657	53: 2,716,739
100: 2,716,304	2,716,383	177—68: 2,716,449	232—10.55: 2,716,510	471: 2,716,658	89: 2,716,740
131: 2,716,305		178—110: 2,716,451	233—10.79: 2,716,511	484: 2,716,659	103: 2,716,741
148: 2,716,306				514: 2,716,661	145: 2,716,742
45—82: 2,716,307				559: 2,716,663	147: 2,716,743
46—1: 2,716,309				604: 2,716,664	262: 2,716,744
47—61: P.P.1,413				612: 2,716,665	340—7.4: 2,716,745
P.P.1,415				619: 2,716,667	343—105: 2,716,747
P.P.1,416				653: 2,716,668	
62: P.P.1,414				772: 2,716,669	

## CLASSIFICATION OF DESIGNS

D 3—19: Des. 175,466	D13—1: Des. 175,467	D34—2: Des. 175,475	D48—20: Des. 175,482	D54—11: Des. 175,485	D80—9: Des. 175,479
D10—8: Des. 175,452	D14—3: Des. 175,459	5: Des. 175,476	Des. 175,472	D57—1: Des. 175,480	Des. 175,482
Des. 175,453	Des. 175,464	Des. 175,468	Des. 175,478	D58—4: Des. 175,457	D85—8: Des. 175,480
Des. 175,454	D33—8: Des. 175,458	D42—7: Des. 175,458	D52—7: Des. 175,484	17: Des. 175,476	D87—3: Des. 175,460
Des. 175,473	14: Des. 175,471	10: Des. 175,455	D54—2: Des. 175,455	D72—1: Des. 175,474	D89—1: Des. 175,477
Des. 175,483	19: Des. 175,470	D48—20: Des. 175,461	Des. 175,487	D80—1: Des. 175,481	D91—2: Des. 175,486



# TRADEMARKS

## NOTICES

### Trademark Suits

Notices under 15 U. S. C. 1116; Trademark Act of July 5, 1946

TM 280,405 ("Champion" and design), Engiert Mfg. Co. (Renewed by Gould-National Batteries, Inc.), Electric storage batteries, filed June 28, 1955, D. C., S. D. Calif. (Los Angeles), Doc. 18359-C, *Gould-National Batteries, Inc. v. The Champion Co.*

TM 434,317 (Davy Crockett Frontiersman), The Schwartz Mfg. Co., Outer wearing apparel for men, women and children, filed June 13, 1955, D. C., M. D. N. C. (Greensboro), Doc. 929-G, *Davy Crockett Enterprises, Inc. v. Deep River Hosiery*. Same, filed July 7, 1955, D. C., N. D. Ill. (Chicago), Doc. 55c1008, *Davy Crockett Enterprises, Inc. v. Wells Lamont Corp.* Same, filed July 14, 1955, D. C., S. D. N. Y., Doc. 102/88,

*Davy Crockett Enterprises, Inc. v. Allison Mfg. Co., Inc.* Same, filed July 29, 1955, D. C. N. J. (Newark), Doc. 878/55, *Davy Crockett Enterprises, Inc. v. S. Goldberg & Co., Inc.*

TM 529,080 (Orion), E. I. du Pont de Nemours and Co., Synthetic fiber-forming polymers, etc.; TM 536,272, same, Yarns, filed Oct. 8, 1954, D. C., S. D. N. Y., Doc. 96/100, *E. I. du Pont de Nemours and Co. v. Barclay Woolen Corp.* Consent judgment for injunction (notice June —, 1955).

TM 536,272. (See TM 529,080.)

TM 576,174 (Alumitile), M. F. Druckenbrod, Tile made of aluminum with a baked enamel finish, filed June 29, 1955, D. C., W. D. Mich. (Grand Rapids), Doc. 2730, *Alumitile, Inc. v. Metal Tile Products, Inc.*

## CONDITION OF TRADEMARK APPLICATIONS AS OF AUGUST 5, 1955

Total number of applications awaiting action (excluding renewals and republications)..... 11,078  
Date of oldest new application..... Feb. 1, 1955  
Date of oldest amended application..... Mar. 7, 1955

MERCHANT, JOHN, Executive Examiner		Oldest Application	
TRADEMARK EXAMINING DIVISIONS, EXAMINERS AND TRADEMARK CLASSES UNDER EXAMINATION		New	Amended
I. STERBA, J. R., Classes 4, 5, 12, 13, 14, 16, 19, 21, 23, 24, 25, 26, 27, 28, 30, 33, 35, 44, 52.....		2-1-55	2-16-55
II. SHRYOCK, R. F. (Acting), Classes 2, 6, 18, 22, 46, 51 and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107.....		2-1-55	3-7-55
III. WENDT, C. M. (Acting), Classes 1, 3, 7, 8, 9, 10, 11, 15, 17, 20, 29, 31, 32, 34, 36, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49, 50.....		2-1-55	4-4-55
Renewals (All Classes).....		6-27-55	7-4-55
Republications (All Classes).....		6-8-55	6-30-55

Applications Filed During Week Ended August 5, 1955—385

Registrations Issued..... 358—No. 611,243 to No. 611,600  
Renewals Issued..... 48



## MARKS PUBLISHED FOR OPPOSITION

The following marks are published in compliance with section 12(a) of the Trademark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.  
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 2

SN 679,942. Sherman Paper Products Corporation, Newton, Mass. Filed Jan. 14, 1955.

**CORRO-BAKE**

For Corrugated Paper Trays Used in Baking.  
Use since Oct. 4, 1954.

### CLASS 4

SN 677,234. Julia C. Mobley, d. b. a. Vio-Ra Chemical Laboratories, Atlanta, Ga. Filed Nov. 24, 1954.

*Po-Lite*

For Polish for Silver.  
Use since Oct. 2, 1954.

### CLASS 5

SN 666,981. Permacel Tape Corporation, North Brunswick Township, N. J. Filed May 24, 1954.



The drawing is lined for blue. The trademark consists of a blue tab applied to the end of a roll of pressure-sensitive adhesive tape.

For Pressure-Sensitive Adhesive Tapes.  
Use since Jan. 21, 1952.

SN 678,721. The Gross Photo Supply Co., Toledo, Ohio. Filed Dec. 21, 1954.

**MOUNT-EZE**

For Library Type Adhesives.  
Use since Sept. 30, 1954.

SN 678,889. A. M. Steigerwald Co., Chicago, Ill. Filed Dec. 23, 1954.

**SENSI-STICK**

For Pressure-Sensitive Gummed Labels.  
Use since Dec. 18, 1954.

TM 178

### CLASS 6

SN 658,217. Allied Chemical & Dye Corporation, New York, N. Y. Filed Dec. 21, 1953.

**ARCADIAN**

Applicant claims ownership of Reg. Nos. 249,805, 99,415, and 251,208.

For Pesticides and Organic and Inorganic Nitrogen Compounds and Organic and Inorganic Oxygen Compounds of a Character Adapted for Use as Chemicals and Intermediates for Manufacture of Other Chemicals.  
Use since 1914.

SN 669,015. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed June 28, 1954.

*Western*

For Cellulose Solvent.  
Use since on or about Apr. 7, 1953.

SN 669,020. Olin Industries, Inc., East Alton, Ill., now by merger and change of name Olin Mathieson Chemical Corporation. Filed June 28, 1954.



For Cellulose Solvent.  
Use since on or about Apr. 7, 1953.

SN 680,052. World Business Enterprises, Inc., Asheville, N. C. Filed Jan. 17, 1955.



For Anti-Insect Fumigation Cones.  
Use since Jan. 7, 1955.

SN 681,406. W. H. & L. D. Betz, Philadelphia, Pa. Filed Feb. 10, 1955.

**neutrameen**

For Chemical for Prevention of Corrosion in Return Lines of Steam Systems and the Like.  
Use since Nov. 29, 1954.

AUGUST 30, 1955

U. S. PATENT OFFICE

TM 179

SN 681,541. Fayette R. Plumb, Inc., Philadelphia, Pa. Filed Feb. 11, 1955. SN 666,995. The Tri-Lok Company, Pittsburgh, Pa. Filed May 24, 1954.

*Fibercore*

For Plastic Molding Compounds and Molding Chemicals.  
Use since Dec. 31, 1954.

SN 681,967. Ciba Limited, Basel, Switzerland. Filed Feb. 17, 1955.

**MICROFIX**

Applicant claims ownership of Swiss Reg. No. 154,022, dated Nov. 11, 1954.  
For Coal Tar Colors.

SN 681,968. Ciba Limited, Basel, Switzerland. Filed Feb. 17, 1955.

**ORACRYL**

Applicant claims ownership of Swiss Reg. No. 147,662, dated Aug. 20, 1953.  
For Coal Tar Colors.

### CLASS 8

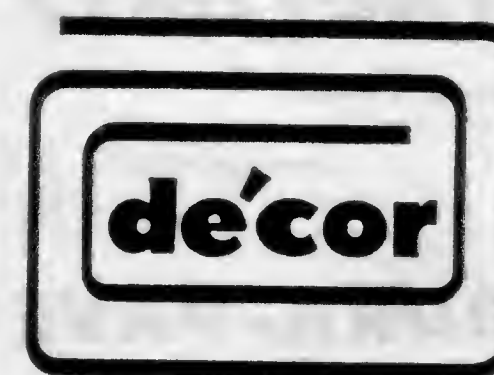
SN 666,099. Marcelle D'Orsay, d. b. a. Dorsay Products, New York, N. Y. Filed May 11, 1954.



For Combined Cigarette and Cigarette Lighter Case.  
Use since Dec. 1, 1951.

### CLASS 12

SN 659,679. Stiles, Inc., Grand Rapids, Mich. Filed Jan. 18, 1954.



For Doors and Shutters.  
Use since Feb. 15, 1952.



For Flooring.  
Use since December 1949.

SN 670,755. Prestomix Paint Products, Inc., Detroit, Mich. Filed July 28, 1954.

**PRESTOSEAL**

For Caulking Compound.  
Use since January 1952.

SN 671,122. The Robinson Brick and Tile Company, Denver, Colo. Filed Aug. 4, 1954.



For Ceramic Tile.  
Use since June 17, 1954.

SN 672,322. Tubdor, Inc., Sacramento, Calif. Filed Aug. 26, 1954.

**TUBDOR**

For Bathtub Enclosure.  
Use since Dec. 10, 1953.

SN 672,523. Miracle Adhesives Corporation, New York, N. Y. Filed Aug. 31, 1954.

**PROTEKTINSUL**

For Cover in the Form of a Vapor Barrier.  
Use since May 5, 1954.

SN 676,322. Kelley Manufacturing Company, Houston, Tex. Filed Nov. 9, 1954.



The words "Steel," "Perfect," and "Products" are disclaimed apart from the mark. Applicant claims ownership of Reg. No. 587,907.  
For Wall Tiles.  
Use since Nov. 19, 1948.



SN 676,759. Resolite Corporation, Zellenople, Pa. Filed Nov. 16, 1954.

## FIRE-SNUF

For Fire-Resistant, Translucent, Laminated, Plastic Structural Panels Useful in Building Construction.  
Use since Oct. 21, 1954.

SN 680,346. Air-O-Therm Application Co., Inc., Des Plaines, Ill. Filed Jan. 24, 1955.

## Jet-Acoustic

For Shredded Insulation Material Such as Dry Mineral and/or Asbestos Fibers.  
Use since June 1951.

SN 681,598. Glenn E. Hutton, Phoenix, Ariz. Filed Feb. 14, 1955.



The configuration of the goods is disclaimed apart from the mark as shown.

For Precast Cement Building Stone.  
Use since Nov. 15, 1954.

SN 681,894. United States Plywood Corporation, New York, N. Y. Filed Feb. 17, 1955.

## VULCANEER

For Laminated Material Consisting of a Wood Core Faced on Each Side of the Wood Core With Vulcanized Fiber.  
Use since November 1954.

SN 683,097. California Foresteering, Placerville, Calif. Filed Mar. 9, 1955.



For Lumber.  
Use since Feb. 14, 1955.

SN 683,196. The General Crushed Stone Co., Easton, Pa. Filed Mar. 10, 1955. Sec. 2(f).

## PAK-IT

Applicant claims ownership of Reg. No. 534,143.  
For Asphaltic Concrete.  
Use since June 17, 1948.

SN 683,206. William I. Kaufman, Johnstown, Pa. Filed Mar. 10, 1955.

## YOUNG SUBURBIA

For Kits Consisting of the Parts for a Prefabricated House To Be Erected as a Playhouse or Shelter for Children.  
Use since October 1954.

SN 683,330. West Chester Chemical Co., West Chester, Pa. Filed Mar. 11, 1955.

## CYL-SEAL

For Joint Compound for Threaded Connections.  
Use since on or about May 15, 1950.

SN 683,434. The Ruberoid Co., New York, N. Y. Filed Mar. 14, 1955.

## American THATCH

For Asbestos-Cement Roof Shingles.  
Use since July 2, 1954.

SN 683,595. Johns-Manville Corporation, New York, N. Y. Filed Mar. 16, 1955.

## COLORLITH

For Asbestos-Cement Sheets Treated for High Chemical Resistance and Adapted Particularly for Use as Laboratory Table Tops, Shelves, Drainboards, Fume Hoods, and the Like.  
Use since Feb. 11, 1955.

SN 683,596. Johns-Manville Corporation, New York, N. Y. Filed Mar. 16, 1955.

## LOK-UNIT

For Unit Stacks of Shingles.  
Use since Sept. 27, 1954.

SN 683,634. Glenn Sucetti, d. b. a. Dura-Pave Company, Grass Valley, Calif. Filed Mar. 16, 1955.

## DURA-PAVE

For Construction Materials—Namely, Ready Made Resurfacing Concrete Mixtures.  
Use since Sept. 14, 1954.

SN 683,720. Steelbilt, Inc., Gardena, Calif. Filed Mar. 17, 1955. SN 684,418. Giant Portland Cement Company, Philadelphia, Pa. Filed Mar. 29, 1955.

## PANORAMA

For Horizontal Sliding Doors and Windows.  
Use since July 23, 1952.

SN 683,789. Malvern Brick and Tile Company, Malvern, Ark. Filed Mar. 18, 1955.

## COLOR CARD

For Brick.  
Use since Apr. 5, 1948.

SN 683,895. Maurice A. Knight, Akron, Ohio. Filed Mar. 21, 1955.

## PYROFLEX

For Thermoplastic Corrosion Resisting Resins in Sheet or Lacquer Form for Lining Vessels, Tanks, or Other Structures Used in Chemical Industries.  
Use since in the year 1935.

SN 684,056. Midwest Noise Control, Indianapolis, Ind. Filed Mar. 23, 1955.

## ACOUSTIKIL

For Sound Filter Panels of Perforated Metal Containing Fibrous Filler Material.  
Use since on or about June 1, 1954.

SN 684,215. M. L. Gordon Sash & Door Company, Minneapolis, Minn. Filed Mar. 25, 1955.

## Removorite

For Double Hung Windows.  
Use since Sept. 15, 1954.

SN 684,336. Pack River Sales Company, Spokane, Wash. Filed Mar. 28, 1955.

## PACKY Qualitized



For Finished and Unfinished Lumber.  
Use since Feb. 16, 1955.



Applicant claims ownership of Reg. Nos. 48,614 and 62,710.  
For Portland, Natural-Rock, and Improved Cement.  
Use since 1885.

SN 684,419. Giant Portland Cement Company, Philadelphia, Pa. Filed Mar. 29, 1955.

## GIANT

Applicant claims ownership of Reg. Nos. 48,614 and 62,710.  
For Portland, Natural-Rock, and Improved Cement.  
Use since 1885.

SN 684,507. Weather-Seal, Inc., Barberton, Ohio. Filed Mar. 29, 1955.



For Storm Windows, Doors, and Screens.  
Use since on or about Apr. 1, 1954.

SN 684,714. American Gilsonite Company, Salt Lake City, Utah. Filed Apr. 1, 1955.

## GILSOTHERM

For Ground Ulnthite, an Asphaltic Material Used for Insulating.  
Use since Mar. 2, 1955.

### CLASS 13

SN 632,850. Progressive Metal Equipment, Inc., Philadelphia, Pa. Filed July 21, 1952.



For Kitchen and Counter Equipment for Food and Beverage Dispensing Establishments—Namely, Bakers' Tables, Bread Boxes, Buffet Units, Cafeteria Counters and Parts Thereof, Canopies, Chef Tables, Cocktail Units, Cornices, Dishboards, Drainboards, Griddle and Fryer Stands, Hot Point Stands,



Kitchen Sinks, Plate Warmers, Pot Racks, Refrigerated Back Bars, Salad Cases, Sandwich Units, Service Stands, Shelving, Short Order Exhaust Units, Steam Tables, Underbar Workboards, Urn Stands, Wall Panels, Work Tables, and Water Coolers.

Use since on or about Dec. 12, 1950.

SN 650,666. Air Reduction Company, Incorporated, New York, N. Y. Filed July 23, 1953.



Applicant claims ownership of Reg. Nos. 325,449 and 440,468.

For Gas Pressure Regulators; Hand Operated Gas or Liquid Control Valves; Manifolds for Distributing Gases; Pilot Valves; Diaphragm Valves; Safety Devices—Namely, Flash-back Arresters Used To Prevent Burning of Gases Within a Gas Torch, Check Valves, Relief Valves, Water Interlocks, and Bursting Disk Assemblies; Hose Couplings; Fittings and Nozzles; Gas Economizers Used in Shutting Off Flow of Gas in Welding and Cutting Apparatus; Grommets; Clamps in the Nature of Fixtures; and Hydraulic Back Pressure Chambers.

Use since 1917 on hose couplings, fittings, and nozzles.

SN 664,170. Meyer Machine, Inc., Red Wing, Minn. Filed Apr. 8, 1954.

**TULITO**

For Shiftable Cable-Clamping Safety Support.  
Use since Mar. 29, 1954.

SN 664,334. Leitner Equipment Company, Chicago, Ill. Filed Apr. 12, 1954. Sec. 2(f).

*Leitner*

For Kitchen and Counter Equipment for Food Dispensing Establishments—Namely, Cooking Equipment Stands; Cooking Equipment Cabinets; Splash Plates and Shields Adapted To Be Mounted on Cooking Equipment Stands and Cabinets; Lunch Counters; Cafeteria Counters; Display Cases and Shelves for Pastry and Food Products; Sinks; Work Tables; Dish Tables; Units To Assist Restaurant Employees in the Service of Food Comprising Combined Cabinets and Tables Having Compartments and/or Shelves for Silverware, Glassware and Dishes and/or Containing Dispensers for Water, Compartments for Ice and the Like.

Use since 1906 on sinks.

SN 669,235. Carrier Corporation, Syracuse, N. Y. Filed July 1, 1954.

**WeatherMasterMind**

For Valves for Controlling Liquids.  
Use since Dec. 21, 1953.

SN 670,756. Progressive Metal Equipment, Inc., Philadelphia, Pa. Filed July 28, 1954.



For Kitchen and Counter Equipment for Food and Beverage Dispensing Establishments—Namely, Bakers' Tables, Bread Boxes, Buffet Units, Cafeteria Counters and Parts Thereof, Canopies, Chef Tables, Cocktail Units, Cornices, Dishtables, Drainboards, Griddle and Fryer Stands, Hot Point Stands, Kitchen Sinks, Plate Warmers, Pot Racks, Refrigerated Back Bars, Salad Cases, Sandwich Units, Service Stands, Shelving, Short Order Exhaust Units, Steam Tables, Underbar Workboards, Urn Stands, Wall Panels, Work Tables and Water Coolers.

Use since on or about Dec. 12, 1950.

SN 670,975. Progressive Metal Equipment, Inc., Philadelphia, Pa. Filed Aug. 2, 1954.

*Progressive*

For Kitchen and Counter Equipment for Food and Beverage Dispensing Establishments—Namely, Bakers' Tables, Bread Boxes, Buffet Units, Cafeteria Counters and Parts Thereof, Canopies, Chef Tables, Cocktail Units, Cornices, Dishtables, Drainboards, Griddle and Fryer Stands, Hot Point Stands, Kitchen Sinks, Plate Warmers, Pot Racks, Refrigerated Back Bars, Salad Cases, Sandwich Units, Service Stands, Shelving, Short Order Exhaust Units, Steam Tables, Underbar Workboards, Urn Stands, Wall Panels, Work Tables and Water Coolers.

Use since on or about Dec. 12, 1950.

SN 671,248. Flexonics Corporation, Maywood, Ill. Filed Aug. 6, 1954.

**FLEXON**

For Flexible Metal Hose and Tubing, Bellows, Expansion Joints, and Vibration Absorbers.  
Use since March 1945.

SN 671,733. The Flexible Tubing Corporation, Guilford, Conn. Filed Aug. 16, 1954.

*Vac-U-Flex*

For Flexible Tubing.  
Use since Aug. 2, 1954.

SN 671,881. Char-Lynn Co., Minneapolis, Minn. Filed Aug. 18, 1954. SN 680,208. The Lunkenheimer Company, Cincinnati, Ohio. Filed Jan. 20, 1955.

**Char-Lynn**

Applicant claims ownership of Reg. No. 507,749.  
For Hydraulic Control Valves for Control of Hydraulic Systems, and Hydraulic Hose Couplers.  
Use since August 1945.

SN 672,844. The Steel Company of Canada, Limited, Hamilton, Ontario, Canada. Filed Sept. 7, 1954.

**ARDOX**

Priority is claimed under Sec. 44(d). Canadian application filed Apr. 30, 1954; Reg. No. 48,470, dated Apr. 30, 1954.  
For Nails.

SN 675,296. Clyde H. Manchester, d. b. a. Research Engineering Co., Eastondale, Mass. Filed Oct. 22, 1954.

**MIX-MIZER**

For Liquid Fertilizer Dispensers Constructed for Attachment to a Garden Hose.  
Use since February 1950.

SN 675,512. Soss Manufacturing Co., Detroit, Mich. Filed Oct. 26, 1954. Sec. 2(f).

**SOSS**

For Hinges.  
Use since on or about Mar. 1, 1909.

SN 677,957. Hague & McKenzie, Limited, Birmingham, Warwickshire, England. Filed Dec. 8, 1954.

*Pyraseal*

Applicant claims ownership of British Reg. No. 726,819, dated Feb. 12, 1954.

For Kettles, Tea and Coffee Pots, Saucepans, Coffee Percolators, Frying Pans, Jugs, Stew Pots, Casseroles, Steamers, Urns, Foot Warmers, Fish Kettles, Drinking Vessels, Egg Boilers, Egg Poachers, Trays, Muffin Dishes, Vegetable Dishes, Pie Dishes, Toast Racks, Tea Strainers, Teapot Stands, Egg Cups, Pudding Bowls, and Covers Therefor, Plates, Mugs, Tumblers, Colanders, Jellymoulds, Sugar Basins, None of the Goods Being Made of Glass.

SN 678,907. Hunter Douglas Corporation, New York, N. Y. Filed Dec. 24, 1954.

*Flexalum*

Applicant claims ownership of Reg. Nos. 427,704, 574,687, and others.  
For Hardware Components for Venetian Blind Draw Drapes.  
Use since Oct. 28, 1954.

**LUNCOR**

For Plastic Valves for Controlling Fluids.  
Use since Jan. 12, 1955.

SN 680,243. Alamo Enterprises, Inc., San Antonio, Tex. Filed Jan. 21, 1955.

*Soda Fountainette*

For Bottle Siphon.  
Use since Nov. 18, 1954.

SN 680,675. Illinois Tool Works, Chicago, Ill. Filed Jan. 28, 1955.

**PLASTINITE**

Applicant claims ownership of Reg. Nos. 568,381, 597,526, and others.  
For Strain-Relief Grommets.  
Use since Jan. 11, 1955.

SN 680,678. Lightning Fasteners Limited, Millbank, London, England. Filed Jan. 28, 1955.

**PUMA**

Applicant claims ownership of British Reg. No. 727,304, dated Feb. 28, 1954.  
For Sliding Fasteners.

SN 680,685. Martonair Limited, Richmond, England. Filed Jan. 28, 1955.

**MARTONAIR**

Applicant claims ownership of British Reg. No. B711,726, dated Oct. 27, 1952.  
For Pneumatic Flow Control Devices, Pneumatic Valves, Cylinders, and Plungers.

CLASS 14

SN 686,135. Mallory-Sharon Titanium Corporation, Niles, Ohio. Filed Oct. 3, 1952.

—MALLORY  SHARON—

The word "Mallory" and the chemical symbol "Ti" are disclaimed apart from the mark as shown.  
For Flat Rolled Titanium Sheets and Strips.  
Use since Sept. 18, 1952.



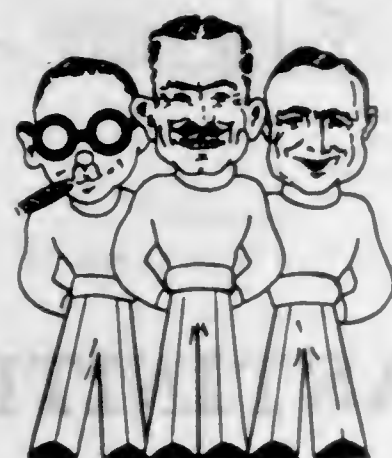
SN 677,385. The British Aluminium Company Limited, London, England. Filed Nov. 29, 1954.

# SUPRAL

Priority under Sec. 44(d). British application filed June 11, 1954, Reg. No. 731,137, dated June 11, 1954.  
For Unwrought and Partly Wrought Aluminium.

## CLASS 15

SN 651,725. The Pep Boys—Manny, Moe & Jack, Philadelphia, Pa. Filed Aug. 12, 1953.



The caricatures shown represent Maurice L. Strauss and Emanuel Rosenfeld, who are at present officers of applicant corporation; and I. Mayer Strauss, who is a former officer. Their consents are of record. Applicant claims ownership of Reg. No. 310,199.

For High Pressure Lubricants, Motor Lubricating Oils, Transmission and Differential Lubricants.  
Use since Aug. 31, 1933.

## CLASS 16

SN 676,207. Lehman Bros. Corp., Jersey City, N. J. Filed Nov. 8, 1954.



Applicant claims ownership of Reg. Nos. 221,178, 221,179, and others.

For All Kinds of Paints, Varnishes, and Enamels, Examples of Some of Which Are Alkyd Flat Enamel, House Paint, Oil Colors, Alkyd White Enamel, Red Lead Paint, Clear Varnish, Paint Thinner, Semi-Gloss Paint, Oil Calcimine Paint, and Others.

Use since 1938.

SN 678,468. Multi-Clean Products, Inc., St. Paul, Minn. Filed Dec. 16, 1954.

# NEO-DRY

For Concrete Sealer.

Use since Apr. 28, 1948.

Subj. to Intf. with Reg. No. 601,544.

SN 681,436. The Foy Paint Company, Inc., d. b. a. The R. F. Johnston Paint Company, Cincinnati, Ohio. Filed Feb. 10, 1955.

# VI-VA

For Varnishes, Ready Mixed Paints, Paint Enamels, Gold and Aluminum Enamel Stains, Lacquers, and Wood Fillers.  
Use since Aug. 16, 1932.

SN 682,064. Ready-Crete, Incorporated, Milwaukee, Wis. Filed Feb. 21, 1955.



For Cement Filler and Sealer Coating Used on Masonry Surfaces.  
Use since Aug. 12, 1954.

SN 682,910. The Glidden Company, Cleveland, Ohio. Filed Mar. 7, 1955.

# GLIDKOTE

Applicant claims ownership of Reg. Nos. 134,658, 664,306, and others.  
For Varnishes.  
Use since Sept. 15, 1954.

SN 682,911. The Glidden Company, Cleveland, Ohio. Filed Mar. 7, 1955.

# GLID-TEX

Applicant claims ownership of Reg. Nos. 134,658, 664,306, and others.  
For Lacquers and Paint Enamels.  
Use since Oct. 29, 1954.

SN 684,593. Rogers Paint Products, Inc., Detroit, Mich. Filed Mar. 30, 1955.

# HY-FLOW

For Solvent for Lacquer.  
Use since Jan. 15, 1955.

SN 684,594. Rogers Paint Products, Inc., Detroit, Mich. Filed Mar. 30, 1955.

# SOL-TAK

For Reducer for Enamels.  
Use since Dec. 20, 1954.

SN 684,679. Reliance Varnish Company, Los Angeles, Calif. Filed Mar. 31, 1955.

# VINEM

For High Polymer Resinous Emulsion Paint.  
Use since Oct. 22, 1954.

SN 684,680. Reliance Varnish Company, Los Angeles, Calif. Filed Mar. 31, 1955.

# ACRYGLAS

For Water Emulsion Paint Containing Acrylic Resin and Fiber Glass.  
Use since June 11, 1954.

SN 684,734. George Koch Sons, Inc., d. b. a. Standard Industrial Products, Inc., Evansville, Ind. Filed Apr. 1, 1955.

# Colorific

For Paints, Including Flat Wall Finishes.  
Use since Jan. 10, 1955.

## CLASS 18

SN 634,670. Wallace Mineral Corporation, Denver, Colo. Filed Aug. 29, 1952.



For Natural Mineral-Containing Product for Dietary Use in Food for Livestock and Poultry.  
Use since Aug. 6, 1951.

SN 655,974. George Edmond Forde, d. b. a. George Edmond Forde's Medicine Company, Waco, Tex. Filed Nov. 6, 1953.

# FORDE'S WONDER LINAMENT

The words "Forde's" and "Linament" are disclaimed apart from the mark as shown.

For Liniment for External Use in Treating Neuritis, Rheumatism, Chest Colds, Pains in Back and Chest, and Athlete's Foot.

Use since July 11, 1953.

SN 658,077. Nepera Chemical Co., Inc., Yonkers, N. Y. Filed Dec. 16, 1953.

# SYNOZID

For Chemotherapeutic Agent for the Treatment of Tuberculosis.

Use since Dec. 8, 1953.

TM 697 O. G.—18

SN 666,167. Chase Chemical Company, Newark, N. J. Filed May 12, 1954.

# IOBLETS

For Organic Iodine Supplement.  
Use since December 1948.

SN 667,526. The Harrower Laboratory, Inc., Jersey City, N. J. Filed June 2, 1954.

# Tropinox

For Anticholinergic Agent for the Treatment of Selected Conditions of the Gastrointestinal Tract Which Offers Relief of Pain and Discomfort as Well as a Means of Controlling the Etiologic Factors, Used in the Treatment of Peptic Ulcer, Gastritis, Intestinal Hypermotility, Irritable Colon, Bladder Spasm, and Biliary Dyskinesia.  
Use since May 4, 1954.

SN 667,570. Merck & Co., Inc., Rahway, N. J. Filed June 2, 1954.

# PLEOCIDE

Applicant claims ownership of Reg. No. 561,209.  
For Medicinal Preparation for Use as an Antiseptic, Germicidal, and Antiprotozoal Agent.  
Use since Jan. 19, 1954.

SN 667,835. Prop Products, Los Angeles, Calif. Filed June 7, 1954.

# E·V·M

For Dietary Supplement Containing a Self-Digesting Nutritional Supplement Providing Enzymes, Vitamins, and Minerals in a Standardized Natural Base.  
Use since May 3, 1954.

SN 670,267. Yamanouchi Pharmaceutical Co., Ltd., Chuo-ku, Tokyo-to, Japan. Filed July 19, 1954.

# Hyposin

Priority under Sec. 44(d). Japanese application filed Feb. 26, 1954, Reg. No. 455,363, dated Oct. 30, 1954.  
For Pharmaceutical Preparations for the Treatment of Hypertension.

SN 670,322. Rhein-Chemie G. m. b. H., Heidelberg, Germany. Filed July 19, 1954.

# Siccacell

Applicant claims ownership of German Reg. No. 649,848, dated Dec. 11, 1953.

For Medicines for Treating Chronic Degenerative Diseases of the Organs, Disturbances in Endocrine Correlation, and Inhibition of Development, Made of Fresh and Dried Young or Embryonic Cells.



SN 673,413. Wynlit Pharmaceuticals, Inc., New York, N. Y. Filed Sept. 17, 1954.

## DANTOBROM

For Medicinal Product for the Control of Epilepsy.  
Use since Aug. 1, 1954.

SN 674,023. G. H. Van Leeuwen, d. b. a. "De Sphinx" Biochemisch Pharmaceutisch Laboratorium, Soestdijk, Netherlands. Filed Sept. 29, 1954.

## VASOLASTINE

Applicant claims ownership of Dutch Reg. No. 109,382, dated June 18, 1951.  
For Injection Liquid Against Hypertension.

SN 674,184. Nepera Chemical Co., Inc., Yonkers, N. Y. Filed Oct. 1, 1954.

## PYRISULFADAN

For Medicines for Use in Germ Infections and as an Analgesic and Antiseptic.  
Use since Sept. 16, 1954.

SN 675,506. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Oct. 26, 1954.

## TETRA - CORTRIL

Applicant claims ownership of Reg. Nos. 595,102 and 595,445.  
For Antibiotic-Hormone Preparation.  
Use since Sept. 23, 1954.

SN 675,603. The Upjohn Company, Kalamazoo, Mich. Filed Oct. 27, 1954.

## Upjohn-Paminal

Applicant claims ownership of Reg. Nos. 289,473, 598,393, and others.  
For Pharmaceutical Preparation for Use as an Anti-lipase-modic.  
Use since Sept. 29, 1954.

SN 675,666. Schenley Industries, Inc., New York, N. Y. Filed Oct. 28, 1954.

*Schenlabs*

Applicant claims ownership of Reg. No. 605,032.  
For Pharmaceutical Products of All Types Including Oral Fat Emulsions and Somnifacient Products.  
Use since July 29, 1954.

SN 675,702. Irwin, Neisler and Company, Decatur, Ill. Filed Oct. 29, 1954.

## JERATRIC

For Pharmaceutical Preparations—Namely, Nutritional and Endocrine Substances.  
Use since Aug. 18, 1954.

SN 675,932. Warner-Hudnut, Inc., New York, N. Y., now by change of name to Warner-Lambert Pharmaceutical Company. Filed Nov. 2, 1954.

## VEGANIN

Applicant claims ownership of Reg. No. 350,048.  
For Medicinal Preparation Recommended as a Pain Alligator.  
Use since Oct. 26, 1954.

SN 676,001. Olin Mathieson Chemical Corporation, New York, N. Y. Filed Nov. 3, 1954.

## PLASTIBASE

For Medicinal Ointment Bases.  
Use since Aug. 26, 1954.

SN 676,691. The Wander Company, d. b. a. Smith-Dorsey, Chicago, Ill. Filed Nov. 15, 1954.

## BENZAPAS

For Product for Use as a Tubercular Static.  
Use since Oct. 27, 1954.

SN 677,361. Julius Schmid, Inc., New York, N. Y. Filed Nov. 26, 1954.

## Vagisec

For Douche Concentrate Liquid, and Therapeutic Vaginal Jelly.  
Use since on or about Oct. 14, 1954, on douche concentrate.

SN 677,468. Wick and Fry, Inc., Cumberland, Ind. Filed Nov. 29, 1954.

## MYOCITIN

For Antibiotic in Powder Form for Use in Treating Chronic Respiratory Diseases in Fowl.  
Use since Oct. 25, 1954.

SN 680,320. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 21, 1955.

## Erythro-Myciguent

Applicant claims ownership of Reg. Nos. 562,272 and 590,448.  
For Antibiotic Ointment Preparation.  
Use since Dec. 1, 1952.

SN 680,907. Smith Kline & French Laboratories, Philadelphia, Pa. Filed Feb. 1, 1955.

## SKF

Applicant claims ownership of Reg. Nos. 262,689, 436,908, and 505,758.

For Pharmaceutical Preparation Embodying the Sustained Release Principle; That is, Providing for the Gradual Release of a Medicament in the Gastro-Intestinal Tract Over an Extended Period of Time.  
Use since June 2, 1953.

SN 680,948. The Fealer Co., Incorporated, Stamford, Conn. Filed Feb. 2, 1955.

## VACID

For Medicinal Preparations for Vaginal Use.  
Use since Jan. 5, 1955.

SN 680,970. Pacific States Laboratories, Inc., San Francisco, Calif. Filed Feb. 2, 1955.

## BIOCITIN

For Crystalline Vitamin B-12.  
Use since Dec. 8, 1954.

SN 680,972. Pacific States Laboratories, Inc., San Francisco, Calif. Filed Feb. 2, 1955.

## PACTOGEN

For Natural Conjugated Estrogens.  
Use since Dec. 8, 1954.

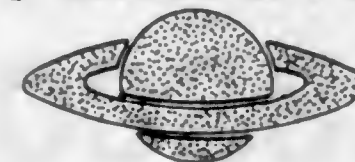
SN 681,035. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Feb. 3, 1955.

## ROERISONE

For Medicinal Preparation Useful in the Symptomatic Treatment of Arthritis.  
Use since Nov. 1, 1954.

SN 681,036. Planet Laboratories, Inc., Sumter, S. C. Filed Feb. 3, 1955.

## PLANETS



For Pharmaceutical Preparation To Curb the Smoking Appeal.  
Use since Dec. 20, 1954.

SN 681,109. Schenley Laboratories, Inc., New York, N. Y. Filed Feb. 4, 1955.

## AFACE

For Adrenal Cortical Extract.  
Use since Aug. 11, 1954.

SN 681,191. Nion Corporation, Los Angeles, Calif. Filed Feb. 7, 1955.

## PLEXOTONE

For Sterile Solution of Injectable Liver, Iron, Arsenic, and B-Complex Vitamins for Parenteral Use.  
Use since Jan. 4, 1955.

SN 681,309. Ed. Geistlich Söhne A. G. für Chemische Industrie, Wolhusen, Switzerland. Filed Feb. 8, 1955.

## DIPASIC

Applicant claims ownership of Swiss Reg. No. 148,680, dated Sept. 24, 1953.  
For Medicament Against Tuberculosis.

### CLASS 19

SN 638,636. National Pneumatic Co., Inc., Boston, Mass. Filed Dec. 28, 1953.

## PROTECTOMATIC

For Safety Control Systems Composed of an Assembly of Units Comprising an Air Accumulator, a Pressure Regulator, an Air Pressure Switch, a Magnet Valve, a Check Valve and Connections, for Use in Busses and Trucks for Preventing Bus and Truck Operation Under Unsafe Conditions.  
Use since Sept. 20, 1948.

SN 680,717. General Truck & Engine Co., San Diego, Calif. Filed Feb. 8, 1954.

## EXACTAIR

For Pneumatic Power Booster Remote Controls for Engines, and Pneumatic Power Booster Controls for Gear Boxes for Use on Vehicles.  
Use since Oct. 30, 1953.

SN 665,370. O'Halloran Industries, Detroit, Mich. Filed Apr. 28, 1954.

## PORT-O-PORCH

For House Trailer Portable Step Platform.  
Use since Jan. 19, 1954.

SN 665,739. Volkswagenwerk GmbH, Wolfsburg, Germany. Filed May 4, 1954.

## VOLKSWAGEN

"Volkswagen" is translated as "people's car."  
For Vehicles—Namely, Automobiles and Trucks, Air Craft, Boats; and Parts of and Accessories for Automobiles—Namely,



Radiators, Direction Indicators, Windshield Defrosters, Anti-Dazzle Appliances, Windshield Wipers, Shock Absorbers, Brakes, and Baggage Racks.  
Use since July 1, 1950.

SN 668,363. The Anderson Company, Gary, Ind. Filed June 17, 1954.

# Big SHOT

The drawing is lined for red, but no claim is made to such color.  
For Windshield Washer Apparatus.  
Use since Apr. 5, 1954.

SN 668,364. The Anderson Company, Gary, Ind. Filed June 17, 1954.



The drawing is lined to indicate the color red, but no claim is made to such color. Applicant claims ownership of Reg. No. 340,334.  
For Windshield Washer Apparatus.  
Use since Apr. 5, 1954.

SN 668,994. Griffin Wheel Company, Chicago, Ill. Filed June 28, 1954.

# EQS

For Railway Car Wheels.  
Use since on or about Mar. 29, 1954.

SN 672,459. Transport Trailers, Inc., Cedar Rapids, Iowa. Filed Aug. 30, 1954. Sec. 2(f).



For Low Bed Trailers, Platform Trailers, Tilt Trailers, Oil Field Floats, Dump Trailers, and Dollies.  
Use since Mar. 4, 1940.

SN 672,782. Barrel Service and Engineering Company, Monrovia, Calif. Filed Sept. 7, 1954.

# "Vloc"

For Trailer Hitch Ball Cover.  
Use since July 1, 1954.

SN 673,697. Wald Industries, Inc., Huntingdon, Pa. Filed Sept. 23, 1954.

# CARRY-LINER

For Trailer for Carrying Apparatus for Fabricating Markers.  
Use since Dec. 15, 1952.

SN 679,884. Aqualine Boat Corporation, Elkton, Md. Filed Jan. 14, 1955.



For Boats and Canoes.  
Use since Mar. 4, 1953.

SN 682,472. Rayco Mfg. Co., Paterson, N. J. Filed Feb. 28, 1955.

# DURASAN

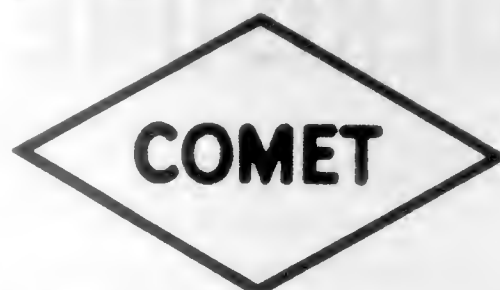
For Automobile Seat Covers.  
Use since Sept. 8, 1954.

SN 683,404. Laher Mustang Mfg. Co., Oakland, Calif. Filed Mar. 14, 1955.

# HILL BILLY

For Small Electrically Driven Conveyances—Namely, Golf Carts, Baggage Carts, and General Utility Trucks for Warehouses, Sawmills, Etc.  
Use since Mar. 9, 1955.

SN 687,243. American Brake Shoe Company, New York, N. Y. Filed May 11, 1955.



For Brake Shoes.  
Use since Apr. 13, 1955.

SN 687,244. American Brake Shoe Company, New York, N. Y. Filed May 11, 1955.

# ABSCO

For Brake Shoes.  
Use since Apr. 13, 1955.

SN 687,245. American Brake Shoe Company, New York, N. Y. Filed May 11, 1955. SN 668,350. Societe Anonyme Perrot, Duval & Cie., Geneva, Switzerland. Filed June 16, 1954.



For Brake Shoes.  
Use since Apr. 13, 1955.

SN 687,303. Michigan Wheel Company, Grand Rapids, Mich. Filed May 11, 1955.

# STAR

For Marine Propellers.  
Use since January 1953.

## CLASS 21

SN 665,246. Telrex, Inc., Asbury Park, N. J. Filed Apr. 26, 1954.

# "MINI-BEAM"

For Television Antennas.  
Use since Oct. 20, 1953.

SN 667,173. System Analyzer Corporation, Nokomis, Ill. Filed May 26, 1954.

# ADD-A-PHASE

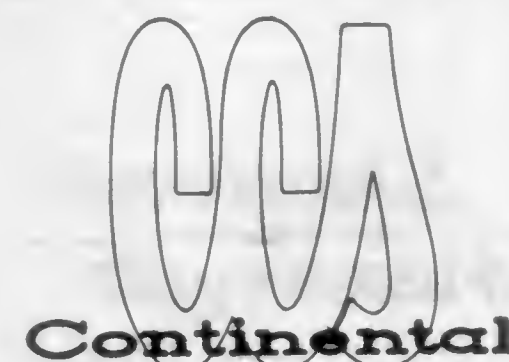
For Power Converters for Converting Power From One Alternating Current System to Another Alternating Current System of a Different Number of Phase.  
Use since Jan. 15, 1953.

SN 667,527. Hell Process Equipment Corporation, Cleveland, Ohio. Filed June 2, 1954. Sec. 2(f).

# SAWTOOTH

Applicant claims ownership of Reg. No. 378,699.  
For Anodes Used in Electrolytic Work.  
Use since June 21, 1937.

SN 668,158. Continental Copper & Steel Industries, Inc., New York, N. Y. Filed June 14, 1954. Sec. 2(f).



For Electric and Telephone Wiring, Cords and Cables, Wire and Cord Sets.  
Use since July 1, 1948.

# INFRANOR

Applicant claims ownership of Swiss Reg. No. 97,993, dated June 11, 1940.  
For Floodlights of the Electrical Type and Component Parts Thereof.

SN 670,886. Altec Lansing Corporation, Los Angeles, Calif. Filed Aug. 2, 1954. Sec. 2(f).

# Lansing

Applicant claims ownership of Reg. No. 290,776.  
For Loudspeakers, Loudspeaker Systems, Dividing Networks, Audio Transformers, Amplifiers, Preamplifiers, and Power Supplies.  
Use since on or about Mar. 1, 1927.

SN 671,064. Southwire Company, Carrollton, Ga. Filed Aug. 3, 1954.



For Wire and Cable.  
Use since on or about August 1950.

SN 673,078. Bulova Watch Company, Inc., Flushing, N. Y. Filed Sept. 13, 1954.

# Adventurer

For Clock Radios and Portable Radios.  
Use since Aug. 10, 1954.

SN 673,221. Amplifier Corporation of America, New York, N. Y. Filed Sept. 15, 1954.

# Dictamite

For Magnetic Recording and Reproducing Apparatus and Parts Thereof.  
Use since Aug. 2, 1954.



SN 673,429. Burgess Battery Company, Freeport, Ill. Filed Sept. 20, 1954.



The mark consists of a rectangular panel of stripes. Applicant claims ownership of Reg. Nos. 236,626, 418,494, and 574,449.

For Electric Dry Batteries.  
Use since June 22, 1954.

SN 674,777. Transltron Inc., New York, N. Y. Filed Oct. 13, 1954.



For Electronic Instruments—Namely, Pulse Communication Equipment, Receiving, Amplifying and Transmitting Equipment, Microwave Receiving and Transmitting Apparatus, Audio, Radio and Microwave Amplifiers.  
Use since Mar. 1, 1954.

SN 678,059. United States Department of the Navy, Washington, D. C. Filed Dec. 9, 1954. CERTIFICATION MARK.

# AN

For Electrical Connectors, Electrical Indicators and Meters, Cable Adapters, Lights and Light Assemblies, Terminals, Terminal Assemblies, Switches, Switch Assemblies, Plugs and Receptacles, Test Probes, Terminal Boards, Rheostats, Relays, Mounting Bases, Regulators, Inverters, Generators.

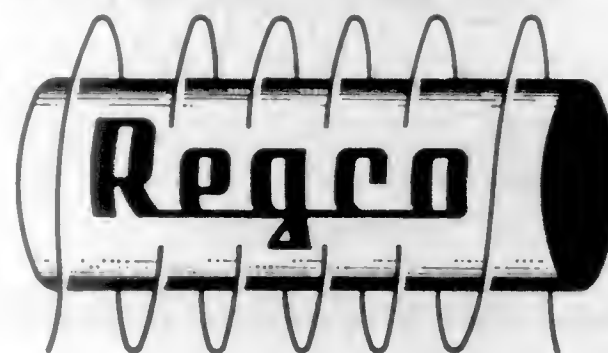
Use since on or about Feb. 2, 1940.

SN 678,209. Electro-Voice, Incorporated, Buchanan, Mich. Filed Dec. 13, 1954.

# RmE

For Communication Type of Radio Receiver, Television Boosters, Ultra High Frequency Tuners, Speech Clipper, and Keying and Modulation Monitor.  
Use since November 1933.

SN 678,646. Randall E. Lloyd, d. b. a. Regulator Engineering and Development Co., Culver City, Calif. Filed Dec. 20, 1954.



For Regulated Direct Current Power Supplies Which Deliver Direct Current Power From an Alternating Current Supply Source, Regulators for Regulating Electric Voltage Current and Frequency, Rectifiers, Anodizers, Platers, and Battery Chargers.  
Use since Aug. 22, 1951.

SN 678,753. Universal-Rundle Corporation, New Castle, Pa. Filed Dec. 21, 1954.



Applicant claims ownership of Reg. No. 525,531.  
For Food Waste Disposers.  
Use since July 1953.

SN 680,571. Air Associates, Inc., Orange, N. J. Filed Jan. 27, 1955.

## Electronic Messenger

For Facsimile Communication and Duplicating Equipment and Facsimile Electrolytic Recording Papers.  
Use since Dec. 22, 1954.

SN 681,245. Ajax Electric Company, Philadelphia, Pa. Filed Feb. 8, 1955.

# CATARACT

For Electric Salt Bath Furnaces.  
Use since Nov. 8, 1954.

SN 681,635. Radio Frequency Laboratories, Inc., Boonton, N. J. Filed Feb. 14, 1955.

# MAGNETREATER

For Electrical Apparatus Providing Timed Current Pulses.  
Use since Sept. 11, 1954.

SN 681,703. National Pneumatic Co., Inc., Boston, Mass. Filed Feb. 15, 1955.

# SUPERMAT

For Treadles, Adapted To Control Electrical Circuits Which in Turn Control the Operation of Automatic Door Operators and the Like.

Use since Jan. 17, 1955.

SN 681,942. Progress Manufacturing Company, Inc., Philadelphia, Pa. Filed Feb. 18, 1955.

# Progress

For Electric Lighting Fixtures.  
Use since December 1932.

SN 682,090. Dominich J. Vivlano, d. b. a. Lampmaster Originals, Los Angeles, Calif. Filed Feb. 21, 1955.



For Electric Lamps and Shades.  
Use since Oct. 15, 1951.

SN 682,226. Appleton Electric Company, Chicago, Ill. Filed Feb. 24, 1955.

# "ST"

For Electrical Conduit Connectors.  
Use since June 24, 1952.

SN 682,325. A. M. Brooks Co., Los Angeles, Calif. Filed Feb. 25, 1955.

# AMBCO

For Auditory Training Equipment, Auditory Aids, Hearing Amplifiers, Ear Phones and Control Boxes Therefor, and Portable Record Players, for Use by Persons of Impaired Hearing and by Persons of Normal Hearing.  
Use since June 1950.

SN 683,591. General Dynamics Corporation, San Diego, Calif. Filed Mar. 16, 1955.

# CHARACTRON

Applicant claims ownership of Reg. No. 585,950.  
For Deflection Yokes, Convergence Coils and Mount Assemblies for Use With Cathode Ray Tubes.  
Use since Feb. 18, 1955.

SN 683,721. The Stiffel Company, Chicago, Ill. Filed Mar. 17, 1955.

# SIGNATURE

For Electrically Operated Table and Floor Lamps.  
Use since January 1949.

SN 684,585. Norton Company, Worcester, Mass. Filed Mar. 30, 1955.

# CRYSTOLON

Applicant claims ownership of Reg. No. 100,998.  
For Heating Elements for Use in Electric Furnaces and Kilns.  
Use since Mar. 16, 1953.

## CLASS 23

SN 628,974. Herbert Volks, New York, N. Y. Filed Apr. 30, 1952.

# EnMail

For Machine for Folding an Envelope Around Printed or Written Matter in Sheet, Pamphlet, or Book Form or in a Collated Group of Pieces and Sealing Same.  
Use since Apr. 9, 1949.

SN 635,476. The Greif Bros. Cooperage Corporation, Delaware, Ohio. Filed Sept. 19, 1952.



Applicant claims ownership of Reg. Nos. 427,903 and 440,175.  
For Stapling Machines.  
Use since June 21, 1949.



SN 655,489. Paliton Inc., New York, N. Y. Filed Oct. 28, 1953. SN 666,876. Mail Tool Company, Chicago, Ill. Filed May 19, 1954.

**PALITON**

For Lift Trucks, Hand and Power Operated.  
Use since Mar. 4, 1953.

SN 662,743. Laurel B. Lindbeck, d. b. a. Speedline Implement Manufacturing Company, Las Cruces, N. Mex. Filed Mar. 16, 1954.

**SPEEDLINE**

For Tractor-Drawn Land Working Implements—Namely, Bucket-Type Scrapers, Land Levelers, Pulverizers, and Scrapers.

Use since on or about Nov. 1, 1949.

SN 663,309. The Relas-Premier Corporation, West New York, N. J. Filed Mar. 25, 1954.

**KAYWOODIE**

For Electric Shavers.  
Use since Mar. 8, 1954.

SN 663,323. Ben Tankel, d. b. a. Graphic Supply Co., New York, N. Y. Filed Mar. 25, 1954.



For Machinery and Equipment Used in the Graphic Arts Trade—Namely, Layout Stripping Tables, Litho Whirlers, Vacuum Frames, and Etching and Clearing Tables.  
Use since May 1, 1953.

SN 664,155. R. Hoe & Co., Inc., New York, N. Y. Filed Apr. 8, 1954. Sec. 2(f).

**COLOR CONVERTIBLE**

For Rotary Newspaper Printing Presses.  
Use since May 29, 1947.

SN 666,216. Regent Cutlery Co., New York, N. Y. Filed May 12, 1954.



For Stainless Steel Ware for Tableware and Kitchenware—Namely, for Knives, Forks, Spoons, Carving Sets, Slicers, Butcher Knives, Paring Knives, Vegetable Knives, Chef's Knives, Pot Forks, and Kitchen Table Forks.  
Use since Feb. 10, 1954.



Applicant claims ownership of Reg. Nos. 372,262, 371,601, and 587,185.

For Portable Pneumatic Motor Driven Chain Saws, Drills, Screwdrivers, Grinders, Impact Wrenches, Polishers, Sanders, Circular Saws, Wire Brushes; Flexible Shafts and Housings; Flexible Shaft Machines, Flexible Shaft Powered Drills, Grinders, Pipe Cleaning Units, Polishers, Sanders, Chain Saws, Concrete Vibrators and Surfacers; Tool Attachments, Bits, Finders, Sanding Pads and Drums, Belt and Flat Sander, Sockets and Power Shafts; Balance Reels; Gasoline Engine Driven Brush Cutters, Chain Saws, Pumps, Trowelling Machines; Saw Chain; Chain Saw Accessories, Guide Bars and Sprockets, Guide Bar Transmissions, Handlebars, Tailstocks, File Guides, Saw Guides, Electric Motor Driven Pumps.  
Use since on or about Jan. 3, 1921.

SN 669,069. Worthington Corporation, Harrison, N. J. Filed June 28, 1954. Sec. 2(f).

**MULTI-V-DRIVE**

No claim is made for the words "Multi" and "Drive" apart from the mark as shown. Applicant claims ownership of Reg. No. 271,724.

For Power-Transmission Machinery Comprising Belt Drives Consisting of Rotary Sheaves Having Flexible Belts Cooperating Therewith To Transmit Rotary Motion From One Sheave to the Other.

Use since September 1929.

SN 669,289. Portable Industries, Inc., Cleveland, Ohio. Filed July 1, 1954.

**JOBMASTER**

For Power Actuated Tools Designed for Firing Pins, Bolts, Studs, Screws, Rivets and Plugs Into or Through Metal, Concrete, Masonry, and the Like.

Use since on or about May 1, 1952.

SN 669,440. Instru-Lec Corporation, Mount Vernon, N. Y. Filed July 6, 1954.



For Gears, and Particularly Miniature Gears for Instrument Parts.  
Use since June 1, 1953.

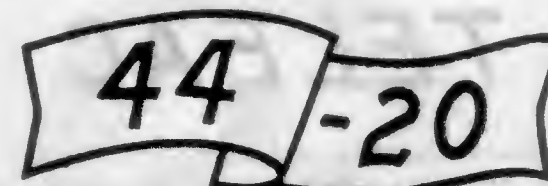
SN 669,955. Peter Willems, Solothurn, Switzerland. Filed July 13, 1954. SN 676,441. Admiral Corporation, Chicago, Ill. Filed Nov. 12, 1954.

**POLYTRON**

Applicant claims ownership of Swiss Reg. No. 147,975, dated Oct. 3, 1953.

For Mechanical Apparatus and Machines, Such as Colloid Mills, Dispensers, Homogenizers, Mixers, Grinders, Commi-nuters, for Use in Research and Mechanical and Chemical Processing and Treating.

SN 670,778. Economy Supply Co., Inc., Los Angeles, Calif. Filed July 29, 1954.



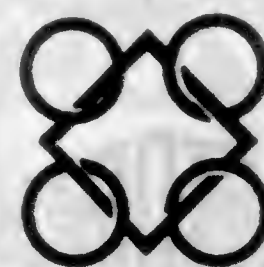
For Barber Shop Supplies—Namely, Cuticle Nippers, Nail Nippers, Razors, Scissors and Thinning Shears.  
Use since 1941.

SN 670,917. R. A. Flanders, d. b. a. Flanders Manufacturing Co., Pratt, Kans. Filed Aug. 2, 1954. Sec. 2(f).

**"HANDY"**

For Manually-Operated Holsts.  
Use since April 1949.

SN 671,461. F. Perkins Limited, Peterborough, England. Filed Aug. 10, 1954.



Applicant claims ownership of British Reg. Nos. 727,553 and 727,554, dated Mar. 3, 1954.  
For Diesel Engines.

SN 675,473. H & G Mfg. Corp., Dexter, Mo. Filed Oct. 26, 1954.



For Rotary Tillers for Preparation of the Soil for Planting.  
Use since Aug. 17, 1954.

SN 675,474. H & H Wrecking Bar Co., Fremont, Nebr. Filed Oct. 26, 1954.

**All Purpose Wonder Bar**

For Wrecking Bars.  
Use since May 14, 1954.

**Admiral**

Applicant claims ownership of Reg. Nos. 273,655, 589,773, and others.

For Portable Tools Comprising Hand Chucks, Gear Chucks, Electric Saws, Sanders, Polishers, Drills, Drill and Saw Kits, Sander-Polisher Kits, Hand Chuck Oscillating Sander Kits, Gear Chuck and Zip Saw Kits, Hand Chuck Kits, Drill Kits, Saw Attachment for Drills, Drill Stands, Bench-Type Saw Tables, Floor-Type Saw Tables, Carrying Cases, Combination Case and Bench Saw Tables, Compressor Attachments, Screwdriver Attachments, Wall Mounting Tool Racks, and Display Stands.

Use since Oct. 19, 1954.

SN 676,814. Little Mint Food Dispenser Inc., Camp Hill, Pa. Filed Nov. 17, 1954.

**Little Mint**

For Combination Dough Dispenser and Cooker.  
Use since July 22, 1954.

SN 679,097. Georgia Iron Works Co., Augusta, Ga. Filed Dec. 29, 1954.



For Separators for Separating Fine Sand From Water and Slime.  
Use since 1950.

SN 679,546. Harold R. Baldwin, d. b. a. Baldwin Originals, Excelsior, Minn. Filed Jan. 7, 1955.

**Rosebud**

For Radish Cutters.  
Use since on or about Jan. 11, 1953.

SN 679,913. Kiekhaefer Corporation, Cedarburg, Wis. Filed Jan. 14, 1955.

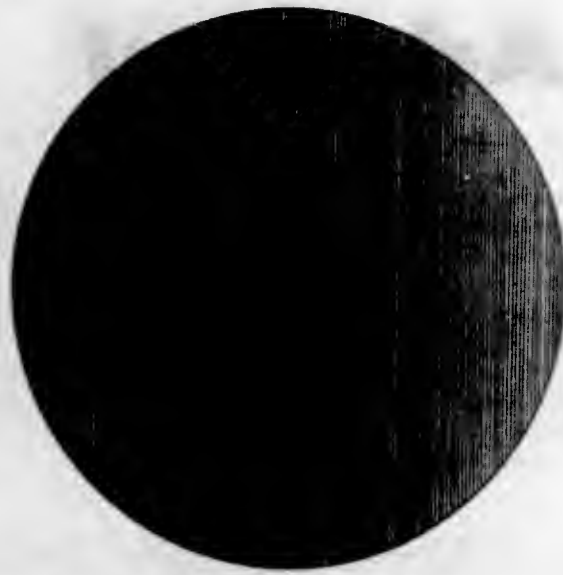


Applicant claims ownership of Reg. Nos. 529,404, 581,143, and others.

For Outboard Motors, Industrial Engines, and Parts Thereof.  
Use since Dec. 29, 1954.



SN 680,726. Chicago Automatic Truck Tube Vulcanizer Corporation, Blue Island, Ill. Filed Jan. 31, 1955.



The drawing is lined for red.  
For Truck Tire Vulcanizing Apparatus.  
Use since Aug. 16, 1954.

SN 682,050. John Oster Manufacturing Company, Milwaukee, Wis. Filed Feb. 21, 1955.



For Electric Hair Clippers.  
Use since Mar. 31, 1953.

## CLASS 26

SN 651,542. Frank P. Scully, Cambridge, Mass. Filed Aug. 7, 1953.

# CALICOUNT

For Calorie Tabulating Device Consisting of a Printed Sheet Material Bearing Thereon a Table of Calorie Values and Having an Adjustably Attached Indicator Member.  
Use since July 27, 1953.

SN 661,135. Paul Gunther, Bern, Switzerland. Filed Feb. 16, 1954.

# TRAFFIXER

Applicant claims ownership of Swiss Reg. No. 140,290, dated Dec. 4, 1951.  
For Photographic Apparatus for Photographing and Recording From a Vehicle and for General Picture Taking.

SN 662,493. Carl Zeiss, Heldenheim (Brenz) Wurttemberg, Germany. Filed Mar. 11, 1954.

# Optovar

Applicant claims ownership of German Reg. No. 621,495, dated June 4, 1952.  
For Magnification Changer for Microscopes and Telescopes.

SN 662,815. The Ruberoid Co., New York, N. Y. Filed Mar. 17, 1954.

# Colorator

For Manually Rotative Disc Type Chart for Selecting Combinations of Roofing, Siding, Trim, and Accent Colors.  
Use since on or about Jan. 4, 1954.

SN 662,836. Automatic Remote Systems, Baltimore, Md., to Automatic Remote Systems, Inc., Baltimore, Md. Filed Mar. 18, 1954.

# TELEAC

For Duplicate Recording, Duplicate Card, Remote Control Accounting Systems, Apparatus and Equipment for Use Therewith Including Selector Devices for Selection of Information To Be Transmitted by a Sender.  
Use since March 1953.

SN 664,127. The Brearley Company, Rockford, Ill. Filed Apr. 8, 1954.

# Kent

For Weighing Scales.  
Use since Feb. 1, 1954.

SN 666,946. Stephen E. Garutso, Hollywood, Calif. Filed May 24, 1954.



The name "Garutso" is disclaimed apart from the mark.  
For Motion Pictures and Motion Picture Films Which Have Records of Sound, Words, and/or Music Thereon, and Motion Picture Films Adapted for Synchronization With Sound, Words, and/or Music.  
Use since Dec. 15, 1953.

SN 668,135. A. R. F. Products, Inc., River Forest, Ill. Filed June 14, 1954.



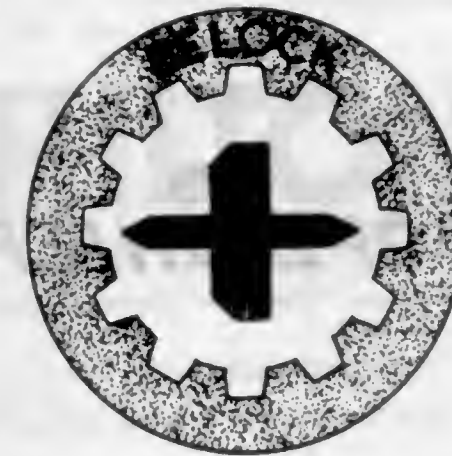
For Electronic Test Equipment Including Radio Frequency Generators, Audio Amplifiers, FM Demodulator and Deviation Meters, and Crystal Calibrators.  
Use since June 1, 1954.

SN 668,233. Paul Bruning, d. b. a. Paul Bruning Maschinen- und Werkzeugfabrik, Berlin-Borsigwalde, Germany. Filed June 15, 1954.

# Resulta

For Calculating Machines.  
Use since spring of 1931.  
Subj. to Intf. with Reg. No. 591,125.

SN 670,025. Belock Instrument Corporation, College Point, N. Y. Filed July 15, 1954.



For Bomb Sights, Gyroscopes, Gun Fire Control Computers and Directors, Electrical Computers, Dial Assemblies.  
Use since Jan. 15, 1951.

SN 671,725. Daiel Motion Picture Co., Ltd., Chuo-ku, Tokyo, Japan. Filed Aug. 16, 1954.



The mark consists of the Chinese ideographs "Dai" (Oh) and "El" (Utsu) written in a circular design and in combination with the word "Daiel."  
For Motion Picture Photoplays.  
Use since Dec. 6, 1950.

SN 673,668. Kalimar, Inc., St. Louis, Mo. Filed Sept. 23, 1954.

# Kalimar

For Cameras, Camera Lenses, and Camera Accessories.  
Use since July 15, 1954.

SN 673,995. Jobs, Inc., Albert Lea, Minn. Filed Sept. 29, 1954.

# TRU-CHEK

For Rain Gauge.  
Use since January 1948.

SN 676,443. Air Associates, Inc., Teterboro, N. J. Filed Nov. 12, 1954.



Applicant claims ownership of Reg. Nos. 544,041 and 564,031.  
For Electrical Computers and Sonar Apparatus.  
Use since Apr. 1, 1954.

SN 679,571. General Electric Company, Schenectady, N. Y. Filed Jan. 7, 1955.

# Telechron

Applicant claims ownership of Reg. Nos. 175,808 and 187,400.  
For Timers for Control and Signaling Including Range Timers, Clock-Radio Timers, Interval Timers, Defrost Timers and the Like.  
Use since August 1935.

SN 680,481. Milton Manufacturing Company, Inc., Chicago, Ill. Filed Jan. 25, 1955. Sec. 2(f).

# MILTON

For Tire Gauges.  
Use since Apr. 19, 1946.

SN 680,714. Bendix Aviation Corporation, d. b. a. Eclipse-Pioneer Division, Teterboro, N. J. Filed Jan. 31, 1955.

# POLAR PATH

For Compass Systems Comprising Directional Gyroscopes, Transmitters, Controllers, and Couplers.  
Use since Dec. 31, 1954.

SN 681,248. Bergen Laboratories, Fair Lawn, N. J. Filed Feb. 8, 1955.

# VOLT-OHMATIC

For Vacuum Tube Volt-Ohm Meters.  
Use since Jan. 27, 1955.



SN 681,467. Wollensak Optical Company, Rochester, N. Y. SN 683,340. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Feb. 10, 1955. Filed Mar. 14, 1955.

## Cineset

For Photographic Lenses and Filters.  
Use since about Sept. 24, 1954.

SN 681,752. Curtiss-Wright Corporation, Carlstadt, N. J.  
Filed Feb. 16, 1955.

## Sportorama

For Sunglasses.  
Use since Dec. 29, 1954.

SN 681,948. Societe Industrielle de Lunetterie, Paris, France.  
Filed Feb. 18, 1955.

## LOUVRE

For Spectacles—Namely, Eye Glasses, Sun Glasses, Frames for Spectacles Made of Metal, Plastic, and Other Suitable Substances, and Combined Frames for Spectacles, Lenses for Spectacles.  
Use since Aug. 31, 1954.

SN 682,272. Lear, Incorporated, Grand Rapids, Mich. Filed Feb. 24, 1955.

## ARCON

For Apparatus Utilizing a Rate Gyroscope, a Servo-Motor, and the Necessary Electrical Equipment for Controlling the Attitude of an Airplane About Its Vertical Axis.  
Use since Sept. 9, 1954.

SN 682,664. Petz-Emery Inc., Pleasant Valley, N. Y. Filed Mar. 2, 1955.

## EM-RE

For Dial Indicators.  
Use since Feb. 14, 1955.

SN 682,992. Daniel P. Steiger, Wellesley, Mass. Filed Mar. 7, 1955.



For Metallic Coated Motion Picture Screens and Panels.  
Use since Oct. 12, 1954.



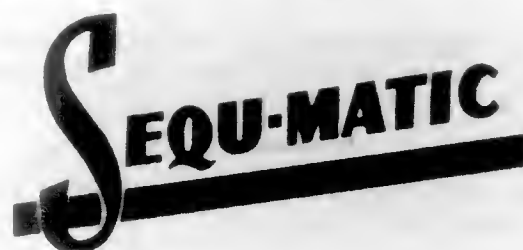
Applicant claims ownership of Reg. Nos. 260,865 (renewed) and 585,214.  
For Spectacle and Sunglass Cases.  
Use since January 1954.

SN 683,483. D. P. Bushnell & Co., Inc., Pasadena, Calif.  
Filed Mar. 15, 1955.

## SCOPE CHIEF

For Optical Devices—Namely, for Telescope Rifle Sights.  
Use since Apr. 29, 1954.

SN 683,619. Pierce Electric Co., Medford, Oreg. Filed Mar. 16, 1955.



For Projector Slide Files.  
Use since Dec. 15, 1954.

SN 683,779. Kay Electric Company, Pine Brook, N. J. Filed Mar. 18, 1955.

## RADA-NODE

For Instrument for the Measurement of Noise Figure and Receiver Gain in Instruments Used in Radar, Television, Radio or Communications Connected Therewith.  
Use since during November 1953.

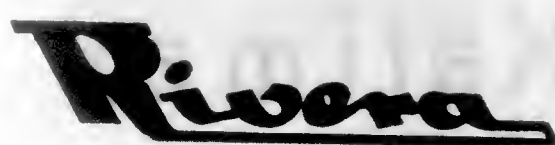
SN 683,970. Fairbridge Co. Incorporated, Bridgeport, Conn.  
Filed Mar. 22, 1955.

## FAIRBRIDGE

For Magnifying Lens Attachments for Incandescent Electric Bulbs.  
Use since Mar. 19, 1955.

### CLASS 27

SN 632,390. Rivera Watch Company, Inc., Indianapolis, Ind.  
Filed July 10, 1952.



For Watches.  
Use since Dec. 1, 1951.

SN 660,847. Ariato Import Co. Inc., New York, N. Y. Filed Feb. 10, 1954. SN 672,466. The Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, Cheapside, London, England. Filed Aug. 30, 1954. CERTIFICATION MARK.

## APOLLO

For Chronographs, Clocks and Watches of All Kinds, Parts Thereof and Standard Accessories Therefor Affixed Thereto as Components of Their Original Assembly—Namely, Ankle and Wrist Bands, Bracelets, Cases, Chains, Fobs, Pendants, Pins and Straps.  
Use since June 1927.

SN 670,740. Hilton Watch Co., Inc., New York, N. Y. Filed July 28, 1954. Sec. 2(f).



Applicant claims ownership of Reg. No. 504,025.  
For Watches.  
Use since Nov. 20, 1946.

SN 680,239. Societe Anonyme Mido, Bienne, Switzerland.  
Filed Dec. 22, 1954.



Applicant claims ownership of Swiss Reg. No. 152,215, dated July 23, 1954; and U. S. Reg. No. 225,024.  
For Watches, Clocks, Watch Movements, Watch Casings, and Dials.

SN 680,240. Societe Anonyme Mido, Bienne, Switzerland.  
Filed Dec. 22, 1954.



Applicant claims ownership of Swiss Reg. No. 151,468, dated June 11, 1954; and U. S. Reg. Nos. 225,024 and 599,489.  
For Watches, Clocks, Watch Movements, Watch Casings, and Dials.

### CLASS 28

SN 651,019. Statler Mfg. Co., Chicago, Ill. Filed July 28, 1953. Sec. 2(f).

## STATLER

For Watch Bands.  
Use since July 10, 1937.



For Gold Wares.  
Use since 1854.

SN 679,455. Coro, Inc., New York, N. Y. Filed Jan. 5, 1955.

## Almanac of Life

For Charm Bracelets.  
Use since Dec. 1, 1954.

SN 685,471. Bond Diamond Company, Newark, N. J. Filed Apr. 14, 1955.

## BOND-LOK

Applicant claims ownership of Reg. Nos. 435,950 and 605,806.  
For Finger Rings and Parts Thereof.  
Use since Sept. 10, 1954.

### CLASS 29

SN 657,894. Delta Brush Mfg. Corp., New York, N. Y. Filed Dec. 14, 1953.

## Delta's 'Perma-Point'

Applicant claims ownership of Reg. Nos. 399,954, 531,746, and others.  
For Brushes—Namely, Artists' Brushes.  
Use since Aug. 6, 1953.

### CLASS 31

SN 649,358. Frigid Units, Inc., Toledo, Ohio. Filed June 25, 1953. Sec. 2(f).



For Milk Coolers.  
Use since July 1944.

SN 651,186. Queen Stove Works, Inc., Albert Lea, Minn.  
Filed July 31, 1953.



Applicant claims ownership of Reg. Nos. 525,463, 575,111, and others.  
For Machines for Making Ice Cubes and Ice Chips.  
Use since July 6, 1951.



## CLASS 32

SN 666,298. P. B. R. Manufacturing Co., Philadelphia, Pa. Filed May 13, 1954.

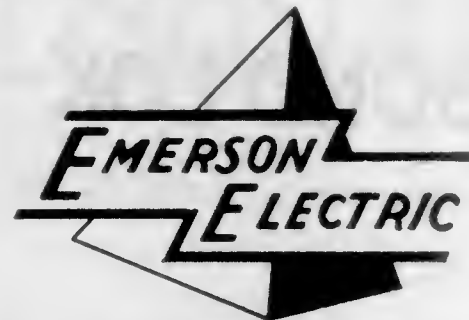
# PBR

For Merchandising Displays—Namely, Cabinets, Racks and Panels Sold as Such and Intended To Be Used for Storing and Displaying Merchandise Offered for Sale; Folding Tables—Namely, Tables in Which the Legs and Also the Top Fold; Collapsible Tables—Namely, Tables in Which the Legs Fold Up Against the Top; Folding Chairs; Folding Utility Shelves; and Outdoor Furniture—Namely, Chairs, Settees and Tables.

Use since March 1946.

## CLASS 34

SN 649,497. The Emerson Electric Manufacturing Company, St. Louis, Mo. Filed June 29, 1953.



Applicant claims ownership of Reg. Nos. 111,931, 508,206, and others.

For Refrigeration Type Air Conditioners.  
Use since June 4, 1953.

## CLASS 36

SN 665,855. Radio Corporation of America, New York, N. Y. Filed May 6, 1954.



For Grooved Phonograph Records.  
Use since Oct. 5, 1953.

## CLASS 38

SN 660,244. Augsburg Publishing House, Minneapolis, Minn. Filed Jan. 18, 1954.

# Flan-o-graf

For Publication Comprising Pictorial Visual Aids and Teacher's Manuals, Issued in a Series and Having Specific Reference to Scenes or Characters Involved in Religious Events.

Use since Apr. 23, 1953.

## CLASS 39

SN 638,404. David D. Doniger & Co. Inc., New York, N. Y. Filed Nov. 21, 1952.

# DRYS-ON-YA

For Wearing Apparel—Namely, for Sport Slacks, Golf and Walking Shorts, Golf Jackets, Shirts, and Caps.  
Use since Sept. 16, 1952.

SN 646,993. Craigmore Clothes, Inc., Chicago, Ill. Filed May 14, 1953.

# Craigmore

For Men's Suits, Sport Coats, and Top Coats.  
Use since on or about Apr. 6, 1951.

SN 647,961. Society Brand Clothes, Inc., Chicago, Ill., now by change of name Industrial Development Corporation, to Hart Schaffner & Marx, Chicago, Ill. Filed May 29, 1953.

# Ayreloom

For Men's Suits.  
Use since Apr. 8, 1953.

SN 648,867. Kordell Sportswear, Inc., New York, N. Y. Filed June 16, 1953.

# QUILTAREES

For Dungarees, Outer Shirts, Jackets, Skirts, Hats, and Outer Shorts for Children, Girls, and Women.  
Use since May 14, 1953.

SN 650,961. Max Wiesen & Sons Co., Inc., New York, N. Y. Filed July 27, 1953. Sec. 2(f) as to "Rite-Fit."

# RITE-FIT STRUTTER

Applicant claims ownership of Reg. No. 535,241.  
For Dresses.  
Use since Jan. 18, 1953.

SN 650,962. Max Wiesen & Sons Co., Inc., New York, N. Y. Filed July 27, 1953. Sec. 2(f) as to "Rite-Fit."

# RITE-FIT TRAVELER

Applicant claims ownership of Reg. No. 535,241.  
For Dresses.  
Use since Jan. 18, 1953.

SN 652,065. Kings Footwear Inc., New York, N. Y. Filed Aug. 20, 1953.

# King Bee

For Men's Slippers and Shoes Made of Fabric and Leather.  
Use since June 22, 1953.

SN 656,068. Eugene Hosiery Mills, Sinking Spring, Pa. Filed Nov. 9, 1953.

# Temple

The lining on the drawing reproduces the lines appearing on the specimens. Applicant claims ownership of the mark shown in expired Reg. No. 272,359.

For Women's Hosiery.  
Use since on or about Mar. 1, 1926.

SN 656,624. Edmont Manufacturing Company, Coshocton, Ohio. Filed Nov. 19, 1953.

# Sport'n Chore

For Utility Gloves Made of Fabric Coated With Rubber or Similar Composition.  
Use since on or about Oct. 15, 1953.

SN 657,034. Hickey-Freeman Company, Rochester, N. Y. Filed Nov. 27, 1953.

# PENANG

For Men's Suits.  
Use since Nov. 3, 1953.

SN 658,199. The Nolde and Horst Company, Reading, Pa. Filed Dec. 18, 1953.

# The Fitz Wright

For Nylon Stretchable Socks.  
Use since Dec. 8, 1943.

SN 661,501. Ro-Search, Inc., Waynesville, N. C. Filed Feb. 23, 1954.

# PARAFLEX

For Shoes for Men, Women, and Children.  
Use since April 1936.

SN 662,156. A. Sulka & Company, New York, N. Y. Filed Mar. 5, 1954.

# Glen

For Men's Outer Shirts.  
Use since Feb. 18, 1954.

# 万年履

The three Japanese characters shown mean "Ten Thousands Years Wear." Applicant claims ownership of Japanese Reg. No. 397,168, dated Mar. 3, 1951.  
For Slippers for Men, Women, and Children.

SN 665,106. The Florsheim Shoe Company, Chicago, Ill. Filed Apr. 23, 1954. Sec. 2(f).

# The Most Walked-About Shoes in America

Applicant claims ownership of Reg. No. 544,700.  
For Women's Shoes.  
Use since 1936.

SN 665,316. Summit Mills Corporation, New York, N. Y. Filed Apr. 27, 1954.

# lykashmere

For Outer Shirts for Men and Young Men Made of Cotton Fabric.  
Use since Mar. 31, 1954.

SN 665,449. John B. Stetson Company, Philadelphia, Pa. Filed Apr. 29, 1954. Sec. 2(f).

# SELV-EDGE

Applicant claims ownership of Reg. No. 315,178.  
For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.  
Use since Mar. 1, 1933.

## CLASS 40

SN 660,573. Sun Vertical Blind Company, Grand Rapids, Mich. Filed Feb. 3, 1954.

# PERMA Sun

For Textile Tapes of Cotton, Silk, and Synthetic Fibers for Window Shutter Louvers.  
Use since July 1, 1953.



## CLASS 42

SN 654,316. General Textile Mills, Inc., New York, N. Y. Filed Oct. 7, 1953.

# GENTEX

For Fabrics of Cotton, Silk, Rayon, Nylon, and Other Synthetic Fibers.  
Use since June 24, 1953, on fabrics of rayon fibers.

## CLASS 43

SN 664,995. Wollgarnfabrik Tittel & Krüger und Sternwoll-Spinnerei A. G., Hamburg-Bahrenfeld, Germany. Filed Apr. 21, 1954.



The English translation of the German words "Seit 1741" is "Since 1741." The term "Seit 1741" is disclaimed apart from the mark as shown. Applicant claims ownership of German Reg. No. 613,979, dated Jan. 27, 1950.  
For Woolen Yarns.  
Use since 1950.

## CLASS 44

SN 665,518. Propper Manufacturing Company, Inc., Long Island City, N. Y. Filed Apr. 30, 1954.

# MEDICO

For Clinical Thermometers.  
Use since on or about Mar. 1, 1954.

SN 678,255. Pharmaceuticals, Inc., Newark, N. J. Filed Dec. 13, 1954.

# ORATONE

For Hearing Aids.  
Use since Nov. 29, 1954.

## CLASS 46

SN 633,530. Frank H. Fleer Corporation, Philadelphia, Pa. Filed Aug. 6, 1952.

# FUN with GUM

For Chewing Gum.  
Use since July 3, 1952.

SN 633,743. Ward Ice Industries, d. b. a. Ward's Ice Cream Co., Fort Smith, Ark. Filed Aug. 11, 1952.

# FROZEN DELIGHT

For Ice Milk.  
Use since 1936.

SN 634,453. Frank H. Fleer Corporation, Philadelphia, Pa. Filed Aug. 26, 1952.

# TREAT the KIDS..

For Chewing Gum.  
Use since July 31, 1952.

SN 645,140. Millie Lacs Maple Products Corporation, d. b. a. Holbert Brothers, Onamia, Minn. Filed Apr. 13, 1953.

# BUCKET BOY

For Pure Maple Sugar, Maple Sugar Blocks, Pure Maple Candy, Wild Flower Honey, Wild Fruit Jams and Jellies and Wild Rice.  
Use since June 30, 1951.

SN 653,310. Luden's Incorporated, Reading, Pa., now by change of name The Dietrich Corporation, to Luden's, Inc., Reading, Pa. Filed Sept. 17, 1953.



No claim is made to the words "Caramel Cup" apart from the mark as shown.  
For Candy.  
Use since January 1953.

SN 656,896. Morton Packing Company, Louisville, Ky. Filed Nov. 24, 1953. Sec. 2(f).

# Morton

Applicant claims ownership of Reg. No. 391,161.  
For Frozen Products—Namely, Chicken Pot Pie, Beef Pot Pie, Turkey Pot Pie, Apple Pie, Cherry Pie, Peach Pie, Chicken a la King, and Vegetable Soup.  
Use since May 3, 1948.

SN 664,146. Fulham Brothers, Inc., Boston, Mass. Filed Apr. 8, 1954. The Brecht International Corporation, Detroit, Mich. Filed Aug. 17, 1954.



Applicant claims ownership of Reg. No. 544,234.  
For Frozen Fish.  
Use since Aug. 14, 1953.

SN 664,244. National Starch Products Inc., New York, N. Y. Filed Apr. 9, 1954.

# INSTANT JEL

For Dry Pre-Gelatinized Food Starch.  
Use since August 1951.

SN 665,946. Potato Specialties, Inc., Chicago, Ill. Filed May 7, 1954.



For Fresh Potatoes and Onions in Their Natural State.  
Use since Oct. 1, 1953.

SN 667,552. H. Kohnstamm & Co., Inc., New York, N. Y. Filed June 2, 1954. Sec. 2(f).

# NEW ROSE

For Food Colors.  
Use since as early as Dec. 1, 1910.

SN 667,968. Max Loewenstein and Eleanor S. Loewenstein, d. b. a. Loewenstein Poultry and Game and as Marshall Farms, Detroit, Mich. Filed June 9, 1954.

# CHEF'S PRIDE

For Frozen Poultry, Frozen Game—Namely, Pheasants, Cornish Hens, and Mallard Ducks.  
Use since June 7, 1954.

# BRECHTEEN

Applicant claims ownership of Reg. No. 308,586 (expired).  
For Natural Casings Used for Meat Products, Dried or Salted, for Sausage, Meat Products and the Like.  
Use since July 5, 1933.

SN 672,401. William J. Fleck, d. b. a. This Enterprises, Spokane, Wash. Filed Aug. 30, 1954.



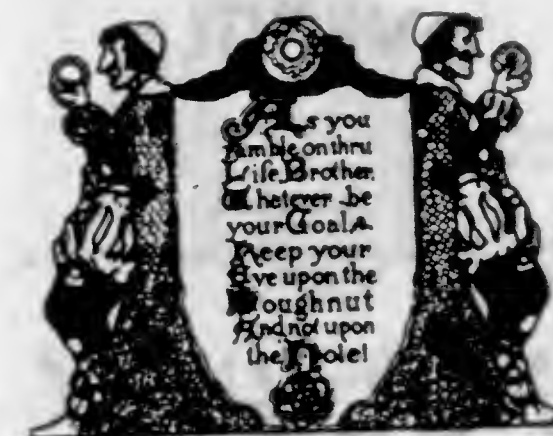
For Prepared Doughnut Flour.  
Use since Apr. 14, 1954.

SN 672,505. Frazar & Company, Inc., New York, N. Y. Filed Aug. 31, 1954. Sec. 2(f).

# FRAZAR

Applicant claims ownership of Reg. No. 321,111.  
For Canned Fish, Canned Crab Meat, and Canned Mandarin Oranges.  
Use since Dec. 4, 1933.

SN 676,326. Mayflower Doughnut Corporation, New York, N. Y. Filed Nov. 9, 1954.



For Doughnuts.  
Use since Jan. 25, 1949.



SN 876,438. Cooperative Producers, Inc., Grand Junction, Colo. Filed Nov. 9, 1954.



Applicant claims ownership of Reg. No. 89,024 (expired).  
For Fresh Peaches.  
Use since July 12, 1937.

SN 677,262. Meyer Fish & Produce Co., Jacksonville, Fla. Filed Nov. 9, 1954. Sec. 2(f).



For Frozen Fish, Frozen Shell Fish, and Frozen Breaded Shrimp.  
Use since Mar. 1, 1949.

SN 677,512. J. A. MacCosham, d. b. a. J. A. MacCosham and Company, Honolulu, Hawaii. Filed Nov. 30, 1954.



The words "Wiki Wiki" are Hawaiian, and mean "Quick Quick" in English.  
For Frozen Barbecued Spare Rib Dinners.  
Use since Oct. 27, 1954.

SN 679,954. Western Frozen Foods Co., Inc., Watsonville, Calif. Filed Jan. 14, 1955.

**LEVALLEY**

Applicant claims ownership of Reg. No. 599,439.  
For Frozen Fruits and Vegetables.  
Use since on or about Jan. 1, 1946.

SN 680,969. Ovenglo Distributing Corp., Milwaukee, Wis. Filed Feb. 2, 1955.

**OVENGLO**

For Sandwiches.  
Use since Mar. 9, 1954.

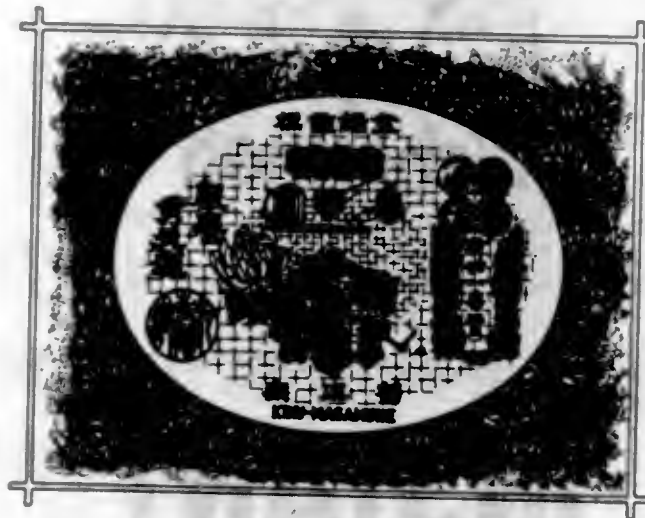
SN 681,627. Pelolan Fruit Distributors, Dinuba, Calif. Filed Feb. 14, 1955.

**PEL-PAK**

For Fresh Grapes and Fresh Deciduous Fruits.  
Use since June 1947.

## CLASS 48

SN 678,701. Kabushikikaisha Honkano Shoten, Higashinada-ku, Kobe City, Hyogo Prefecture, Japan. Filed Nov. 29, 1954.



The Japanese characters are translated as follows: "Kiku," chrysanthemum; "Masa-Mune," the name of a Japanese swordmaker, deceased; "To-roku-sho-hyo," registered trademark; "Hon-ka-no" is part of applicant's trade name; "Yuko-itto-sho," signifies "The First Prize for Merit"; "Sei-yo ten-gai-ni-hisu" meaning "Fame is Excellent in the World." The drawing is lined for the colors black, gold, green, red, silver and yellow. No claim is made to the characters meaning "registered trademark" and "The First Prize for Merit." Applicant claims ownership of Japanese Reg. No. 160,471, dated May 2, 1924; and U. S. Reg. Nos. 90,333 and 320,161. For Brewed Japanese Sake (Sake).

## CLASS 50

SN 648,380. Duopac, Inc., New York, N. Y. Filed June 8, 1953.

**JOCKEY  
CAP**

For Plastic Closure Caps for Bottles.  
Use since Apr. 10, 1953.

SN 658,995. Lee Rubber & Tire Corporation, Conshohocken, Pa. Filed Jan. 5, 1954.

**KNEE SAVER**

For Sponge Rubber Knee Pads.  
Use since April 1952.

SN 662,987. Thomas R. Caton, d. b. a. Reproduction Research Laboratories, Lynbrook, N. Y. Filed Mar. 22, 1954.

**Duo-Metal**

For Metal Plates Prepared for Processing Into Photolithographic Offset Printing Plates.  
Use since Jan. 28, 1954.

SN 665,614. Lockport Mills, Inc., Lockport, N. Y. Filed May 3, 1954.

**Frosty Snow**

No registration rights are claimed for the word "Snow" apart from the mark as shown.  
For Decorating Cotton Batting for Christmas and Other Decorations.  
Use since Mar. 18, 1954.

SN 666,532. Albert J. Roger, d. b. a. Roger Mfg. Co., Oakland, Calif. Filed May 17, 1954.

**PLAN TOWER**

For Molded Plastic Plant Trellises for Indoor and Outdoor Use.  
Use since on or about Feb. 19, 1954.

SN 668,765. Arnold Lundmark, d. b. a. Cardy-Lundmark Company, Chicago, Ill. Filed June 23, 1954.

**PERMASHEEN**

For Plastic Base Material Used for Decorative and Identification Purposes Such as TV Channel Markers, Call Letter Tabs, Decorative Trims and Inserts, Dials, Scales, and Backgrounds on Television Sets, Radios, Juke Boxes, and Similar Cabinets.  
Use since May 15, 1954.

SN 673,357. Kirsch Company, Sturgis, Mich. Filed Sept. 17, 1954. Sec. 2(f).

**Easypileat**

Applicant claims ownership of Reg. No. 602,271.  
For Kits Containing a Combination of Drapery Backing Tape and Drapery Hooks.  
Use since Sept. 10, 1951.

SN 675,118. Allied Bakery Products, Detroit, Mich. Filed Oct. 20, 1954.

**Kitchen-Glamor**

For Cake Decorating Kit, Said Kit Including Instructions for Decorating Cakes, a Decorating Compound, Four Paste Colors, Six Nickel Silver Tubes, a Nickel Silver Rose Nail, and Cake Decorating Parchment Paper.  
Use since Sept. 20, 1954.

## CLASS 51

SN 671,157. Richard Hudnut, New York, N. Y. Filed Aug. 5, 1954.

**Voguer**

Applicant claims ownership of Reg. No. 347,446.  
For Perfume, Essence Comprising a Concentrated Toilet Water, and Solid Stick Perfume.  
Use since 1902.

SN 677,497. Fontaine Perfume Corporation, New York, N. Y. Filed Nov. 30, 1954.

**ENCHANTED EYENING**

For Perfume, Toilet Water, and Eau de Cologne.  
Use since April 1949.

SN 679,646. Coty, Inc., New York, N. Y. Filed Jan. 10, 1955.



Applicant claims ownership of Reg. Nos. 180,540 and 517,954.  
For Lipsticks.  
Use since Dec. 31, 1954.

## CLASS 52

SN 644,338. Norsan Products, Inc., Cleveland, Ohio. Filed Mar. 27, 1953.



Applicant claims ownership of Reg. No. 581,116.  
For Suds for Dishes (a Detergent) and Free Rinse (a Detergent).  
Use since July 7, 1949.



SN 649,287. Demert & Dougherty, Inc., Chicago, Ill. Filed June 24, 1953. Sec. 2(f).

## SUPER-SAFE

For Chemical Paint and Varnish Remover.  
Use since in or about January 1946.

SN 657,770. Fuld Brothers, Inc., Baltimore, Md. Filed Dec. 10, 1953.

## CLEANER THAN CLEAN

For Soaps and Detergent Compositions Which May Have Disinfecting Properties for Floors, Walls, Furniture, Woodwork, Glassware, Plumbing Fixtures, Kitchen Utensils, Vehicles, Fabrics, China Ware, Machinery, Instruments, and for General Cleaning Purposes.  
Use since Nov. 30, 1953.

SN 662,002. Walter Haertel Company, Minneapolis, Minn. Filed Mar. 4, 1954.

**Fur Sheen**

For Combined Fur Cleaning and Glazing Compound.  
Use since Nov. 16, 1953.

SN 664,099. Standard Oil Company of California, d. b. a. Signal Oil Company, Los Angeles, Calif. Filed Apr. 7, 1954.



Applicant claims ownership of Reg. Nos. 567,428 and 585,014.

For Flushing Oil Useful for Removing Abrasives and Other By-Products of Combustion, Fine Metal Particles Worn From Bearings and Gear Teeth, Road Dust, Moisture, Lacquer and Sludge Deposits From Gears, Bearings, Crankcases and Gear Cases of Automotive Vehicles and for Cleaning Solvents Useful for General, Domestic and Industrial Cleaning of Fabrics, Metals, Cements and Other Materials.  
Use since March 1933.

SN 665,073. Tops Mothproofing, Inc., St. Louis, Mo. Filed Apr. 22, 1954.

**Topper!**

For Mothproofing and Cleaning Compound for Clothing and Fabrics.  
Use since Apr. 9, 1954.

SN 669,478. Reliance Chemicals Corporation, Houston, Tex. Filed July 6, 1954.

## ROOTOX

For Chemical Compositions for Use in Cleaning Sewers.  
Use since March 1953.

670,359. Kircoe Products Co., Elizabeth, N. J. Filed July 21, 1954.

**DU-O-SO**

For Hand Cleaner.  
Use since June 1, 1954.

SN 671,440. H. Kohnstamm & Co., Inc., New York, N. Y. Filed Aug. 10, 1954.

## SIMPLEX

For Laundry Soaps.  
Use since as early as Nov. 30, 1930.

SN 676,208. Wallace London, d. b. a. Clemco Products, Baltimore, Md. Filed Nov. 8, 1954.

**Co-mite**

For Detergent or Chemical Preparation Used in Cleaning of Combs and Brushes.  
Use since Sept. 17, 1954.

SN 677,526. Prescription Products Co., Inc., New Hyde Park, N. Y. Filed Nov. 30, 1954.

**Liquid Charm**

For Shampoo.  
Use since Apr. 13, 1954.

SN 677,784. Frank D. Healy, d. b. a. Berkeley Sweater Wash, Berkeley, Calif. Filed Dec. 6, 1954.



For Cold Water Soap.  
Use since Nov. 19, 1954.

SN 678,643. William F. Lancaster, d. b. a. Domestic Products Company, Farmington, Mich. Filed Dec. 20, 1954.

## DOMESTIC

For Liquid Detergent for Household Use.  
Use since Aug. 23, 1945.

SN 681,364. The Perolin Company, Inc., New York, N. Y. Filed Feb. 9, 1955.

## PERO-KLEAN

Applicant claims ownership of Reg. Nos. 586,946 and 598,605.

For Chemical Compositions for Use With Fresh or Salt (Sea) Water or Steam To Cleanse Surfaces of Oil, Grease and Other Organic or Inorganic Matter Particularly in the Marine and Industrial Fields.  
Use since Feb. 1, 1939.

SN 681,534. Oakite Products, Inc., New York, N. Y. Filed Feb. 11, 1955. Sec. 2(f).

## PENETRANT

For All-Purpose Detergent for General Use.  
Use since 1934.

SN 682,588. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Mar. 1, 1955.

## Multi-Metal

For Alkaline Cleaning Composition Primarily Adapted for Cleaning Metal Parts.  
Use since Jan. 14, 1955.

### SERVICE MARKS

#### CLASS 100

SN 600,697. Pi Beta Phi, Decatur, Ill. Filed July 14, 1950.  
COLLECTIVE MARK.

**ΠΒΦ**

For Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein.  
Use since July 1916.

SN 673,860. The Pennsylvania Railroad Company, Philadelphia, Pa. Filed Sept. 27, 1954.

**Economeals**

For Restaurant and Dining Car Services.  
Use since Aug. 30, 1954.

#### CLASS 101

SN 630,386. Edward S. Caldwell, d. b. a. High Frequency Advertising, Park Ridge, Ill. Filed May 28, 1952.

## HIGH-FREQUENCY

For Advertising Services—Namely, Studying Advertising Needs of Clients, Creating Advertising Devices and Copy To Meet Such Needs, and Arranging for and Procuring Such Advertising Devices and Copy for Said Clients.  
Use since on or about Apr. 21, 1952.

SN 636,795. Hal Moss, d. b. a. Hal Moss Company, New York, N. Y. Filed Oct. 17, 1952.



For Preparation of Complete Sales and Merchandising Aids for Companies in the Promotion of Their Product Sales and Services.  
Use since Aug. 29, 1952.

SN 671,008. Advertising Life Agency, Fort Myers, Fla. Filed Aug. 3, 1954.

## "ADVERTISING LIFE"

For Advertising Agency Services.  
Use since April 1954.



SN 678,608. Derby Days Service, Inc., Washington, D. C.  
Filed Dec. 20, 1954.

# Derby Days

For Sales Promotion of Merchandise in Retail Stores by Arranging With the Retailer To Refund Purchase Expenditures to Customers Purchasing Merchandise During a Limited Predetermined Period.

Use since Sept. 29, 1954.

## CLASS 102

SN 670,326. Blue Shield Medical Care Plans, Chicago, Ill.  
Filed July 21, 1954. COLLECTIVE MARK.



Applicant claims ownership of Reg. Nos. 557,037, 591,778, and others.

For Underwriting, on a Prepayment Basis, the Expense to the Patient of Medical Care and Underwriting the Doctor's Expense in Furnishing Medical Care.

Use since October 1947.

## CLASS 103

SN 673,888. D. Zelinsky & Sons, San Francisco, Calif. Filed Sept. 27, 1954. Sec. 2(f).

# D. Zelinsky & Sons

For Painting and Decorating Service.  
Use since in or about the year 1915.

## CLASS 105

SN 653,108. Harold J. Carver, Washington, D. C. Filed Sept. 14, 1953.



The words "Week End of the Month" are disclaimed apart from the mark shown in the drawing.

For Arranging and Conducting Packaged Vacation Excursion Tours.

Use since June 26, 1953.

## CLASS 107

SN 674,760. Annie Oakley Enterprises, Inc., Los Angeles, Calif. Filed Oct. 13, 1954.

# ANNIE OAKLEY

Applicant claims ownership of Reg. Nos. 559,643 and 603,335.

For Entertainment Services Rendered Through the Medium of Television Programs and Personal Appearances Involving Performances of Bravery, Skill, and Daring.

Use since Oct. 8, 1953.

## TRADEMARK REGISTRATIONS ISSUED PRINCIPAL REGISTER

### CLASS 1

- 611,243. BALFOUR PINK. Harris Granite Quarries Company. SN 665,817. Pub. 5-31-55. Filed 5-6-54.  
611,244. AMAZOY. Zoysia Farm Nurseries. SN 666,322. Pub. 5-31-55. Filed 5-13-54.  
611,245. CADOGAN. Pittsburg and Shawmut Coal Company. SN 666,518. Pub. 5-31-55. Filed 5-17-54.  
611,246. PITTSBURY. Pittsburg and Shawmut Coal Company. SN 666,520. Pub. 5-31-55. Filed 5-17-54.  
611,247. RINGGOLD. Pittsburg and Shawmut Coal Company. SN 666,521. Pub. 5-31-55. Filed 5-17-54.  
611,248. NAUD-O-KLEEN. Jones & Naudin Company. SN 667,240. Pub. 5-31-55. Filed 5-27-54.  
611,249. MOBALOY. Carlisle Corporation. SN 672,491. Pub. 5-31-55. Filed 8-31-54.  
611,250. DURABASS. E. B. & A. C. Whiting Company. SN 672,766. Pub. 5-31-55. Filed 9-8-54.  
611,251. DURASTRAN. E. B. & A. C. Whiting Company. SN 672,767. Pub. 5-31-55. Filed 9-3-54.  
611,252. BESTOVAL. Carnegie Dock & Fuel Company. SN 672,794. Pub. 5-31-55. Filed 9-7-54.

### CLASS 2

- 611,253. HANDI-PACK. Armstrong Cork Company. SN 642,059. Pub. 5-24-55. Filed 2-11-53.  
611,254. H ON DIAMOND DESIGN. H. D. Hudson Manufacturing Company. SN 642,643. Pub. 5-24-55. Filed 2-24-53.  
611,255. STYSON. Joseph B. Stier, d. b. a. Styson Art Products Co. SN 647,962. Pub. 4-6-54. Filed 5-29-53.  
611,256. CAPSULUBE. The Capsulube Company. SN 664,402. Pub. 5-24-55. Filed 4-13-54.  
611,257. MULTI-COPY. The Western Paper Goods Co. SN 665,155. Pub. 5-24-55. Filed 4-23-54.  
611,258. SMOOTH-SUITOR. H. Field & Sons. SN 672,145. Pub. 5-24-55. Filed 8-24-54.  
611,259. SNO-WHITE. Standard Packaging Corporation. SN 673,619. Pub. 5-31-55. Filed 9-22-54.  
611,260. LUMATONE. Standard Packaging Corporation. SN 673,620. Pub. 5-31-55. Filed 9-22-54.  
611,261. STREAK-O-STRENGTH. New York Shipbuilding Corporation, d. b. a. Nesco, Division of New York Shipbuilding Corporation. SN 674,120. Pub. 5-31-55. Filed 9-23-54.  
611,270. HOFFMANN'S RICENA AND DESIGN. Hoffmann's Starkefabriken Aktiengesellschaft. SN 659,473. Pub. 5-24-55. Filed 1-14-54.  
611,271. POLYCLAY. Burgess Pigment Company. SN 661,315. Pub. 5-24-55. Filed 2-19-54.  
611,272. MYCO-KIT. Leon Goldman, d. b. a. Estral Biochemical Laboratories. SN 664,308. Pub. 5-24-55. Filed 4-12-54.  
611,273. MICROSPIN. Sterling Drug Inc. SN 665,530. Pub. 5-24-55. Filed 4-30-54.  
611,274. WARFAR-MOR. Hilltop Laboratories, Inc. SN 666,470. Pub. 11-16-54. Filed 5-17-54.  
611,275. PERMA-SOLV. Solv-Co., Inc., d. b. a. Solv Company. SN 667,907. Pub. 5-24-55. Filed 6-8-54.  
611,276. AGRI-STREP. Merck & Co., Inc. SN 668,772. Pub. 5-17-55. Filed 6-23-54.  
611,277. PETROTHENE. National Petro-Chemicals Corporation. SN 668,914. Pub. 5-24-55. Filed 6-25-54.  
611,278. LUCITE. E. I. du Pont de Nemours & Company. SN 670,548. Pub. 5-17-55. Filed 7-26-54.  
611,279. NALCOAG. National Aluminate Corporation. SN 672,593. Pub. 5-24-55. Filed 9-1-54.  
611,280. ANTIROT. Woolfolk Chemical Works, Ltd. SN 672,710. Pub. 5-24-55. Filed 9-2-54.  
611,281. SILOSUEDE. Arkansas Company, Inc. SN 673,000. Pub. 5-24-55. Filed 9-10-54.  
611,282. COM-PAT. Martens Chemical Corporation. SN 673,189. Pub. 5-24-55. Filed 9-14-54.  
611,283. CHLOROWAX F. Diamond Alkali Company. SN 673,345. Pub. 5-24-55. Filed 9-17-54.  
611,284. ARP. Allied Research Products Incorporated. SN 673,418. Pub. 5-24-55. Filed 9-20-54.  
611,285. SKOTCH GRILL-LITE. The Hamilton Metal Products Company. SN 673,520. Pub. 5-24-55. Filed 9-21-54.  
611,286. TEXAS AND DESIGN. Sid Richardson Carbon Co. SN 673,684. Pub. 5-31-55. Filed 9-29-54.  
611,287. REPROFIX. General Aniline & Film Corporation. SN 673,983. Pub. 5-24-55. Filed 9-29-54.  
611,288. PERMA-WASH. Helco, Inc. SN 674,160. Pub. 5-17-55. Filed 10-1-54.  
611,289. ELM FARM. Elm Farm Foods Co. SN 674,454. Pub. 5-24-55. Filed 10-7-54.

### CLASS 11

- 611,290. "CHIN-CHIN." Gunther Wagner. SN 664,860. Pub. 5-31-55. Filed 4-20-54.

### CLASS 12

- 611,291. GLAS FLEECE. The Carney Company, Inc. SN 636,553. Pub. 5-31-55. Filed 10-13-52.  
611,292. VERTICAL WHITE STRIPE PAINTED ON SIDE OF LATHE PACKAGE. Wheeling Corrugating Company. SN 642,791. Pub. 4-26-55. Filed 2-25-53.  
611,293. SHOWER MAGIC BATH ENCLOSURE AND DESIGN. Daryl Products Corporation. SN 657,765. Pub. 5-31-55. Filed 12-10-53.  
611,294. R RUTGERS AND DESIGN. Rutgerswerke Aktiengesellschaft. SN 658,143. Pub. 5-31-55. Filed 12-17-53.  
611,295. GRANOFLEX. E. J. Elgood Limited. SN 666,576. Pub. 5-31-55. Filed 5-18-54.  
611,296. GRANEER. Carlyle Industrial Corporation. SN 668,373. Pub. 5-31-55. Filed 6-17-54.  
611,297. PENNPLY. The Pennsylvania Salt Manufacturing Company. SN 669,287. Pub. 5-31-55. Filed 7-1-54.  
611,298. LIVE-WALL AND DESIGN. Moduwall, Inc. SN 671,178. Pub. 5-31-55. Filed 8-5-54.



- 611,299. QUALITY CONTROLLED MATICO PRODUCTS AND DESIGN. The Mastic Tile Corporation of America, d. b. a. Mastic Tile Corporation. SN 672,235. Pub. 5-31-55. Filed 8-25-54.
- 611,300. VENT-A-WALL AND DESIGN (WINDOW). De Witt C. Vaughn. SN 675,056. Pub. 5-31-55. Filed 10-19-54.
- 611,301. RESINWOOD. Rock Island Millwork Company. SN 675,165. Pub. 5-31-55. Filed 10-20-54.
- 611,302. CAPRI. T. V. Walker & Son, Inc. SN 676,563. Pub. 5-31-55. Filed 11-12-54.
- 611,303. CEN-TEX STURDITEEL. Central Texas Iron Works. SN 676,866. Pub. 5-31-55. Filed 11-18-54.
- 611,304. HAYSITE AND DESIGN. Haysite Corporation. SN 677,060. Pub. 5-31-55. Filed 11-22-54.
- 611,305. PLUM-TITE AND DESIGN. Oconee Clay Products Company. SN 677,166. Pub. 5-31-55. Filed 11-23-54.
- 611,306. APCO. Aluminum Products Co. SN 677,284. Pub. 5-31-55. Filed 11-26-54.
- 611,307. FARLITE. Farley & Loetscher Mfg. Co. SN 677,652. Pub. 5-31-55. Filed 12-2-54.

## CLASS 13

- 611,308. WEDGE SEAL AND DESIGN. Joseph E. Haynes, d. b. a. Wedge Seal Company. SN 619,998. Pub. 5-3-55. Filed 10-15-51.
- 611,309. BOTTLE-CADDIE. Charles A. Black, d. b. a. B & M Manufacturing Company. SN 644,539. Pub. 5-17-55. Filed 4-1-53.
- 611,310. PARKERSBURG BRITE-PRIDE KITCHENWARE AND DESIGN. The Parkersburg Steel Company. SN 649,526. Pub. 5-31-55. Filed 6-29-53.
- 611,311. OHIO BRASS B ETC. AND DESIGN. The Ohio Brass Company. SN 657,168. Pub. 5-31-55. Filed 11-30-53.
- 611,312. ALTO AND DESIGN. Alto Manufacturing Company. SN 661,165. Pub. 5-31-55. Filed 2-17-54.
- 611,313. SURE-TITE. Wittek Manufacturing Co. SN 662,587. Pub. 5-3-55. Filed 3-12-54.
- 611,314. TITAN. Titan Metal Manufacturing Company. SN 664,566. Pub. 5-31-55. Filed 4-14-54.
- 611,315. WATER-STOPPER. American Rubber Products Corporation. SN 667,603. Pub. 5-3-55. Filed 6-4-54.
- 611,316. HARCO. Harrison Steel Corporation. SN 670,425. Pub. 5-17-55. Filed 7-22-54.
- 611,317. PILOT. The William Powell Company. SN 676,406. Pub. 5-17-55. Filed 11-10-54.
- 611,318. TERI. Alan D. Goodman, d. b. a. Goodman Metal Products Co. SN 677,782. Pub. 5-31-55. Filed 12-6-54.

## CLASS 15

- 611,319. ISO MITE. Metolco Corporation. SN 666,771. Pub. 5-31-55. Filed 5-20-54.

## CLASS 16

- 611,320. SILACOAT AND DESIGN. Frank Roger Sterling, d. b. a. Silicone Waterproofing Company. SN 636,948. Pub. 6-29-54. Filed 10-21-52.
- 611,321. SEAL-PEEL. Seal-Peel, Inc. SN 641,975. Pub. 5-31-55. Filed 2-9-53.
- 611,322. PERMERAL. Rock-Tred Corporation. SN 651,418. Pub. 5-31-55. Filed 8-5-53.
- 611,323. CORRUCOTE. Libbey-Owens-Ford Glass Company, to L-O-F Glass Fibers Company. SN 637,630. Pub. 5-31-55. Filed 12-8-53.
- 611,324. WOOD-LAC. Linseed Oil Products Company. SN 664,160. Pub. 5-31-55. Filed 4-8-54.
- 611,325. ACM AND STAR DESIGN. Arthur C. Mangels Industries, Inc. SN 665,428. Pub. 5-31-55. Filed 4-29-54.
- 611,326. JET-KOTE. Furane Plastics, Incorporated, d. b. a. Furane Plastics. SN 670,350. Pub. 5-31-55. Filed 7-21-54.
- 611,327. ZINC OXIDE AZO ZZZ-66 AND DESIGN. American Zinc Sales Company. SN 676,162. Pub. 5-31-55. Filed 11-8-54.

- 611,328. FILTERAY. Switzer Brothers, Inc. SN 676,769. Pub. 5-31-55. Filed 11-16-54.
- 611,329. HYDRACONE. Pacific Paint & Varnish Co. SN 676,994. Pub. 5-31-55. Filed 11-19-54.
- 611,330. LACTONAL. C. H. Boehringer Sohn. SN 677,132. Pub. 5-31-55. Filed 11-23-54.
- 611,331. GN AND DESIGN. Gilmore & Nolan, Inc. SN 677,313. Pub. 5-31-55. Filed 11-26-54.
- 611,332. SUN CONTROL. Arnold Buckblinder. SN 677,763. Pub. 5-31-55. Filed 12-6-54.
- 611,333. PROTECTO WRAP. Protecto Wrap Company. SN 677,809. Pub. 5-31-55. Filed 12-6-54.

## CLASS 18

- 611,334. RHU-MART AND DESIGN. Rhu-Mart Drug Co., Inc. SN 651,188. Pub. 5-24-55. Filed 7-31-53.
- 611,335. SOSECON. Winthrop-Stearns Inc. SN 674,309. Pub. 5-24-55. Filed 10-4-54.
- 611,336. KAPRYLEX. R. J. Straesburgh Company. SN 682,834. Pub. 5-24-55. Filed 3-4-55.

## CLASS 19

- 611,337. MULTITON. Stokvis, Edera & Co., Inc. SN 650,332. Pub. 5-31-55. Filed 7-15-53.
- 611,338. TU-FLO AND DESIGN. Bendix-Westinghouse Automotive Air Brake Company. SN 661,053. Pub. 5-31-55. Filed 2-15-54.
- 611,339. DYNATROL. Northrop Aircraft, Inc. SN 663,498. Pub. 5-31-55. Filed 3-29-54.
- 611,340. TRAVELMASTER AND DESIGN. Travelmaster Coach Corporation. SN 679,022. Pub. 5-31-55. Filed 12-27-54.

## CLASS 21

- 611,341. OZOLITE AND DESIGN. Pressteel Company. SN 629,516. Pub. 5-31-55. Filed 5-10-52.
- 611,342. MIKE-RADIO. Universal Publicizers, Inc. SN 640,982. Pub. 5-31-55. Filed 1-19-53.
- 611,343. ELECTRO-MATIC. Eastern Industries, Incorporated. SN 645,886. Pub. 5-31-55. Filed 4-24-53.
- 611,344. DYLA-COM. Electronic Products Co. Ltd. SN 649,932. Pub. 1-18-55. Filed 7-7-53.
- 611,345. DUO-SERVICE. Benjamin Electric Manufacturing Company. SN 653,053. Pub. 5-31-55. Filed 9-11-53.
- 611,346. WORK-LITE AND DESIGN. Fairchild Industries, Division of Fairchild Camera and Instrument Corporation. SN 654,535. Pub. 5-17-55. Filed 10-12-53.
- 611,347. ELECTRICORD. Arnold Schott, d. b. a. Pacific Electriccord Company. SN 655,003. Pub. 5-31-55. Filed 10-19-53.
- 611,348. TROL-E-DUCT. Bulldog Electric Products Co. SN 655,181. Pub. 5-31-55. Filed 10-22-53.
- 611,349. QUIET-SOUND. Transvision, Inc. SN 655,616. Pub. 5-31-55. Filed 10-30-53.
- 611,350. SOUND-GOVERNOR. Transvision, Inc. SN 655,617. Pub. 5-31-55. Filed 10-30-53.
- 611,351. TYME STRYKE AND DESIGN. Schulmerich Electronics, Incorporated, to Schulmerich Carillons, Inc. SN 657,300. Pub. 5-31-55. Filed 12-2-53.
- 611,352. JOHNSON. The Johnson Corporation. SN 657,783. Pub. 5-31-55. Filed 12-10-53.
- 611,353. TWISTUBE. Charles F. Fenton, d. b. a. Fenton Company. SN 658,106. Pub. 5-17-55. Filed 12-17-53.
- 611,354. ACL AND DESIGN. Benjamin Adler, d. b. a. Adler Communications Laboratories. SN 661,540. Pub. 5-31-55. Filed 2-24-54.
- 611,355. CECILIAN. Pickard & Burns, Inc. SN 661,586. Pub. 5-31-55. Filed 2-24-54.
- 611,356. CO-YAGI. Technical Appliance Corporation. SN 661,599. Pub. 5-31-55. Filed 2-24-54.
- 611,357. GRID-YAGI. Technical Appliance Corporation. SN 661,600. Pub. 5-31-55. Filed 2-24-54.
- 611,358. UNIPLUGS. Charles J. Applegate, d. b. a. C. J. Applegate & Co. SN 661,765. Pub. 5-31-55. Filed 3-1-54.
- 611,359. PACKARD-BELL TRU-FI. Packard-Bell Company. SN 662,251. Pub. 5-17-55. Filed 3-8-54.

- 611,360. THERMOMAT. Thermomat Company, Inc. SN 662,400. Pub. 5-31-55. Filed 3-10-54.
- 611,361. PRESS-FIT. Sealectro Corporation. SN 663,127. Pub. 5-31-55. Filed 3-23-54.
- 611,362. PARCOA. Parking Corporation of America. SN 664,028. Pub. 5-31-55. Filed 4-6-54.
- 611,363. VITROMIZOL. American Polymer Corporation. SN 665,989. Pub. 5-31-55. Filed 5-10-54.
- 611,364. EPOXYLITE. American Insulating Materials Co., to The Epoxylite Corporation. SN 675,246. Pub. 3-29-55. Filed 10-22-54.
- 611,365. NEVER-STAIN. Nichols Wire & Aluminum Co. SN 677,087. Pub. 5-24-55. Filed 11-22-54.

## CLASS 22

- 611,366. BABY'S PUNCH. Childhood Interests, Inc. SN 640,839. Pub. 5-24-55. Filed 1-16-53.
- 611,367. CREEPER'S BALL. Childhood Interests, Inc. SN 640,841. Pub. 5-24-55. Filed 1-16-53.
- 611,368. SKI ANTICS. Bleecker-Kabler Co., to Ski Antics, Inc. SN 651,689. Pub. 7-6-54. Filed 8-12-53.
- 611,369. ROCKER. A. G. Spalding & Bros., Inc. SN 653,083. Pub. 5-24-55. Filed 9-11-53.
- 611,370. "HI, I'M GINNY." Vogue Dolls, Inc. SN 656,680. Pub. 5-31-55. Filed 11-19-53.
- 611,371. TINYFLO. Mae Marie, Inc. SN 657,154. Pub. 5-31-55. Filed 11-30-53.
- 611,372. MERRY AND DESIGN. Merry Manufacturing Company. SN 658,298. Pub. 5-24-55. Filed 12-21-53.
- 611,373. DRAW MASTER. Horace G. Skaggs. SN 659,364. Pub. 5-31-55. Filed 1-12-54.
- 611,374. BAIT-O-TROLL. Cronstroms Manufacturing, Inc., d. b. a. Cronstroms Manufacturing Co. SN 659,992. Pub. 5-24-55. Filed 1-25-54.
- 611,375. MURMADE. Milton Murr, d. b. a. Murr Outdoor Products Company. SN 661,090. Pub. 5-31-55. Filed 2-15-54.
- 611,376. LAS VEGAS WILD AND DESIGN. Lith-O-Ware Products, Inc. SN 662,649. Pub. 5-24-55. Filed 3-15-54.
- 611,377. BOBBSEY TWINS AND DESIGN. Stratmeyer Syndicate. SN 662,900. Pub. 5-31-55. Filed 3-18-54.
- 611,378. DOOD-L-ON. Kellogg Company. SN 665,605. Pub. 5-24-55. Filed 5-3-54.
- 611,379. SPINATOR. Langley Corporation. SN 671,902. Pub. 5-24-55. Filed 8-18-54.
- 611,380. INTERLOCK. Wilson Sporting Goods Co. SN 672,613. Pub. 5-24-55. Filed 9-1-54.
- 611,381. SPORTSMAN'S HOT SEAT AND REPRESENTATION OF FLAMES. St. John Hardware & Implement Co. SN 673,140. Pub. 5-24-55. Filed 9-13-54.
- 611,382. COVE BAY. Cove Bay Tackle Co. SN 674,807. Pub. 5-24-55. Filed 10-14-54.
- 611,383. FISHER-PRICE. Fisher-Price Toys, Inc. SN 674,956. Pub. 5-24-55. Filed 10-18-54.
- 611,384. BUB-L-ETT. B. F. Gladding & Company, Inc. SN 675,144. Pub. 5-24-55. Filed 10-20-54.
- 611,385. SQUEEZE N' SQUEAL. Trudelle Doll & Toy Mfg. Co., Inc. SN 675,449. Pub. 5-31-55. Filed 10-25-54.
- 611,386. SNORKAIR. L. G. Arpin Co. SN 675,530. Pub. 5-31-55. Filed 10-27-54.
- 611,387. FOULPROOF. Aetna Products & Manufacturing Co. SN 675,613. Pub. 5-31-55. Filed 10-28-54.
- 611,388. PEQUEA AND DESIGN. Pequea Fishing Tackle, Inc. SN 675,651. Pub. 5-31-55. Filed 10-28-54.
- 611,389. QUILBY. Pequea Fishing Tackle, Inc. SN 675,653. Pub. 5-31-55. Filed 10-28-54.
- 611,390. PEDIGREE. International Model Aircraft Limited. SN 675,797. Pub. 5-31-55. Filed 11-1-54.
- 611,391. DAZZLING DANE. J. T. Felmlee. SN 676,107. Pub. 5-31-55. Filed 11-5-54.

## CLASS 23

- 611,392. EXCELLENCE WITH INTEGRITY AND DESIGN. Mercury International Manufacturing Corp. SN 653,799. Pub. 5-24-55. Filed 9-14-53.

- 611,393. DE LAVAL AND DESIGN. De Laval Steam Turbine Company. SN 659,602. Pub. 5-31-55. Filed 1-18-54.
- 611,394. GENTRY. Eisenberg-Lozano, Incorporated. SN 660,477. Pub. 5-31-55. Filed 2-2-54.
- 611,395. TENSIONHOLD. Frederick C. Washburn, d. b. a. Washburn. SN 663,409. Pub. 5-31-55. Filed 3-26-54.
- 611,396. SILVER KING. Monark Silver King, Inc. SN 664,240. Pub. 5-31-55. Filed 4-9-54.
- 611,397. LOAD SWEEPER. Clark-Wilcox Co. SN 665,267. Pub. 5-24-55. Filed 4-27-54.
- 611,398. DUDCO. The New York Air Brake Company. SN 665,368. Pub. 5-31-55. Filed 4-28-54.
- 611,399. AIR ASSOCIATES, INC. A AND DESIGN. Air Associates, Inc. SN 666,158. Pub. 5-24-55. Filed 5-12-54.
- 611,400. STREAMBARKER. Allis-Chalmers Manufacturing Company. SN 666,617. Pub. 5-24-55. Filed 5-19-54.
- 611,401. AIR-POWER. Essick Manufacturing Company. SN 666,933. Pub. 5-24-55. Filed 5-24-54.
- 611,402. CHAIN LIGHTNING AND DESIGN. Skarle, Incorporated. SN 671,604. Pub. 5-24-55. Filed 8-12-54.
- 611,403. KWIK SKRAPE AND DESIGN. Robert E. Dobratz, d. b. a. Master Machine Tool Company. SN 671,728. Pub. 5-24-55. Filed 8-16-54.
- 611,404. GANDY TRIPLE HOPPER. E. S. Gandrud Company. SN 672,336. Pub. 5-24-55. Filed 8-27-54.
- 611,405. STABIL SEAL AND DESIGN. Standard Packaging Corporation. SN 673,625. Pub. 5-24-55. Filed 9-22-54.
- 611,406. SILO DREAM. Taylor Machine Works. SN 673,879. Pub. 5-24-55. Filed 9-27-54.
- 611,407. MICRO MINIATURES AND DESIGN. Woodson Tool Co. SN 673,887. Pub. 5-24-55. Filed 9-27-54.
- 611,408. FLEXVAC AND DESIGN. Standard Packaging Corporation. SN 674,015. Pub. 5-24-55. Filed 9-29-54.

## CLASS 26

- 611,409. FRIDEN AND DESIGN. Friden Calculating Machine Co., Inc. SN 628,000. Pub. 5-31-55. Filed 4-12-52.
- 611,410. THRUSTORQ. Hagan Corporation. SN 630,891. Pub. 4-12-55. Filed 6-7-52.
- 611,411. GAIN SET. Kay Electric Company. SN 646,875. Pub. 5-24-55. Filed 5-12-53.
- 611,412. BINOLUX. Compass Instrument & Optical Co., Inc. SN 670,170. Pub. 5-31-55. Filed 7-19-54.
- 611,413. MONOLUX. Compass Instrument & Optical Co., Inc. SN 670,171. Pub. 5-31-55. Filed 7-19-54.
- 611,414. STUDIO CITY TV PRODUCTIONS INC. AND DESIGN. Studio City Television Productions, Inc. SN 673,062. Pub. 5-31-55. Filed 9-10-54.
- 611,415. OZALITH. General Aniline & Film Corporation. SN 673,822. Pub. 5-31-55. Filed 9-27-54.
- 611,416. MICROLEX. Microlex Corporation. SN 673,927. Pub. 5-24-55. Filed 9-28-54.
- 611,417. NILCOID. Nilsson Gage Company, Inc. SN 674,089. Pub. 5-24-55. Filed 9-30-54.
- 611,418. HTL AND DESIGN. Houston Technical Laboratories. SN 674,390. Pub. 5-24-55. Filed 10-6-54.
- 611,419. HYTAFILL. General Electric Company. SN 674,509. Pub. 5-24-55. Filed 10-8-54.
- 611,420. COSMETAN. American Optical Company. SN 674,925. Pub. 5-24-55. Filed 10-18-54.
- 611,421. OPTA-VUE. Optics Manufacturing Corporation. SN 675,310. Pub. 5-24-55. Filed 10-22-54.
- 611,422. VM WITHIN CIRCULAR DESIGN. Sawyer's Inc. SN 675,434. Pub. 5-24-55. Filed 10-25-54.
- 611,423. "THE LITTLE ATOM." "Advertising Life" Agency. SN 675,867. Pub. 5-24-55. Filed 11-2-54.
- 611,424. NATIONAL. The National Cash Register Company. SN 675,998. Pub. 5-24-55. Filed 11-3-54.
- 611,425. NATIONAL AND DESIGN OF A GEAR. The National Cash Register Company. SN 675,999. Pub. 5-24-55. Filed 11-3-54.



- 611,426. PIONEER. Bendix Aviation Corporation, d. b. a. Eclipse-Pioneer Division. SN 676,034. Pub. 5-24-55. Filed 11-4-54.
- 611,427. GRAFLAR. Graflex, Inc. SN 676,050. Pub. 5-24-55. Filed 11-4-54.
- 611,428. ULTRAMAGIC. American Control Corporation. SN 676,447. Pub. 5-24-55. Filed 11-12-54.

## CLASS 27

- 611,429. AUSTIN AND DESIGN. Southwestern Wholesale Jewelry Company. SN 655,716. Pub. 5-24-55. Filed 11-2-53.

## CLASS 28

- 611,430. EARRINGRIPS. Marcelle D'Orsay, d. b. a. Dorsay Products. SN 659,604. Pub. 5-31-55. Filed 1-18-54.

## CLASS 31

- 611,431. REPRESENTATION OF A SPRITE OR FAIRY. R. T. Collier Corp. SN 673,811. Pub. 5-31-55. Filed 9-27-54.
- 611,432. "MARPAK." The Marley Company. SN 673,844. Pub. 5-31-55. Filed 9-27-54.
- 611,433. HALSEY TAYLOR. The Halsey W. Taylor Company. SN 674,299. Pub. 5-31-55. Filed 10-4-54.

## CLASS 32

- 611,434. MINIT-MAKE SHELF 'N TABLE BUILDERS. John Clark Brown, Inc. SN 660,999. Pub. 5-17-55. Filed 2-12-54.

## CLASS 33

- 611,435. COOK-N-LOOK. Club Aluminum Products Company. SN 613,162. Pub. 5-24-55. Filed 4-26-51.
- 611,436. WAREX. Waring Products Corporation. SN 662,585. Pub. 5-24-55. Filed 3-12-54.

## CLASS 34

- 611,437. POWER-FLAME. Slemon Manufacturing Company. SN 673,478. Pub. 5-31-55. Filed 9-20-54.
- 611,438. THE SUNSHINE OF THE NIGHT. The Coleman Company, Inc. SN 674,567. Pub. 5-31-55. Filed 10-11-54.
- 611,439. IRON-HIDE. Iron-Hide Sales Company. SN 674,678. Pub. 5-31-55. Filed 10-12-54.
- 611,440. MO PE CO. Morrison-Pelsue Co. SN 674,757. Pub. 5-31-55. Filed 10-13-54.
- 611,441. HANDI-BAKE. Tetfoam Corporation. SN 675,239. Pub. 5-31-55. Filed 10-21-54.
- 611,442. HASTY BAKE AND DESIGN (REPRESENTATION OF A HUMAN MALE AND CART). Earle Grant Hastings, Jr., d. b. a. Hasty-Bake Mfg. Co. SN 675,278. Pub. 5-31-55. Filed 10-22-54.

## CLASS 38

- 611,443. TUBULATOR. Van Pelt Corporation. SN 667,064. Pub. 5-31-55. Filed 5-25-54.
- 611,444. DECA GIFT. Eureka Specialty Printing Company. SN 668,237. Pub. 5-31-55. Filed 6-15-54.
- 611,445. YOUR STARS TODAY. News Syndicate Co., Inc. SN 675,816. Pub. 5-31-55. Filed 11-1-54.
- 611,446. NOTES ON THE NEWS. New York Herald Tribune Inc. SN 676,989. Pub. 5-24-55. Filed 11-19-54.
- 611,447. THE THOMIST. Dominican Fathers, Province of St. Joseph, d. b. a. The Thomist Press. SN 677,040. Pub. 5-24-55. Filed 11-22-54.
- 611,448. JUNIOR EDITORS. The Associated Press. SN 677,197. Pub. 5-24-55. Filed 11-24-54.
- 611,449. AMERICAN BOY. The Parents' Institute, Inc. SN 677,239. Pub. 5-24-55. Filed 11-24-54.
- 611,450. SHOPERAMA. Shoperama Co. SN 677,249. Pub. 5-24-55. Filed 11-24-54.
- 611,451. STEELWAYS. American Iron and Steel Institute. SN 677,286. Pub. 5-24-55. Filed 11-26-54.
- 611,452. SUBURBAN SPECTATOR. Woodward & Lothrop. SN 677,619. Pub. 5-31-55. Filed 12-1-54.
- 611,453. MAIDENFORM MIRROR. Malden Form Brassiere Co., Inc. SN 677,885. Pub. 5-31-55. Filed 12-7-54.

- 611,454. I WAS JUST THINKING. Patricia Maurine Johnson. SN 678,227. Pub. 5-31-55. Filed 12-13-54.
- 611,455. NI-PO AND DESIGN. Nederlands Instituut voor de Publieke Opinie, also d. b. a. Instituut voor Marktkennning. SN 678,416. Pub. 5-31-55. Filed 12-15-54.
- 611,456. SUCCESSFUL FARMING. Meredith Publishing Company. SN 678,569. Pub. 5-24-55. Filed 11-22-54.

## CLASS 39

- 611,457. CARRY-ME. H. Daust Manufacturing Co. SN 662,780. Pub. 5-24-55. Filed 3-17-54.
- 611,458. LIFE OF THE PARTY. W. L. Mellor, d. b. a. W. L. Mellor Company. SN 663,671. Pub. 5-31-55. Filed 3-31-54.
- 611,459. FRAME ETTE. Hollywood-Maxwell Co. SN 665,113. Pub. 5-24-55. Filed 4-23-54.
- 611,460. RICH'S WOOD VALLEY AND DESIGN. Rich's, Inc. SN 665,725. Pub. 5-31-55. Filed 5-4-54.
- 611,461. ARUMBA. Bauman & Stoll, Inc. SN 668,498. Pub. 5-24-55. Filed 6-18-54.
- 611,462. RICKEY. J. J. Newberry Co. SN 671,186. Pub. 5-31-55. Filed 8-5-54.
- 611,463. DUMELLO. Dumari Textile Co., Inc. SN 673,582. Pub. 5-31-55. Filed 9-22-54.
- 611,464. PINNACLE. Dumari Textile Co., Inc. SN 673,583. Pub. 5-31-55. Filed 9-22-54.
- 611,465. AMY LYNN FASHIONS. Samuel Peck. SN 673,609. Pub. 5-24-55. Filed 9-22-54.
- 611,466. GOLDEN GIRL. Golden Girl Frocks, Inc. SN 674,672. Pub. 5-24-55. Filed 10-12-54.
- 611,467. DARIEN. J. Capps & Sons, Ltd. SN 674,939. Pub. 5-24-55. Filed 10-18-54.
- 611,468. CATRON. Eagle Clothes, Inc. SN 674,951. Pub. 5-24-55. Filed 10-18-54.
- 611,469. SLEE-PURRS AND CAT DESIGN. Slee-Purrs Manufacturing Company. SN 675,015. Pub. 5-31-55. Filed 10-18-54.
- 611,470. SUPERSEAL. Swell-Wear, Inc. SN 675,107. Pub. 5-24-55. Filed 10-19-54.
- 611,471. BULLDOG AND DESIGN (REPRESENTATION OF A BULLDOG AND AN OVAL). Chris Laganas Shoe Co. SN 675,290. Pub. 5-24-55. Filed 10-22-54.
- 611,472. BILTRITE. American Biltrite Rubber Co., Inc., now by merger and change of name American Biltrite Rubber Co., Inc. SN 675,459. Pub. 5-31-55. Filed 10-26-54.
- 611,473. ROITWIST. Le Roi Hosiery Co. Inc. SN 675,490. Pub. 5-24-55. Filed 10-26-54.
- 611,474. SUZY PERETTE. Lombardy Dresses Inc. SN 675,493. Pub. 5-31-55. Filed 10-26-54.
- 611,475. LIN 'N TONIC. Piedmont Shirt Company. SN 675,584. Pub. 5-31-55. Filed 10-27-54.
- 611,476. MOBY DICK AND DESIGN. William Rosensweig. SN 675,591. Pub. 5-31-55. Filed 10-27-54.
- 611,477. ROUND ROBIN. Goodstein Bros. & Co., Inc. SN 675,630. Pub. 5-31-55. Filed 10-28-54.
- 611,478. AIRBORNE BY EAGLE. Eagle Clothes, Inc. SN 675,774. Pub. 5-31-55. Filed 11-1-54.
- 611,479. SPEED MOVER. Alexander Bros. Company. SN 675,950. Pub. 5-31-55. Filed 11-3-54.
- 611,480. SAKS-EASE. Saks & Company. SN 676,079. Pub. 5-31-55. Filed 11-4-54.
- 611,481. SAKS-AIRE. Saks & Company. SN 676,080. Pub. 5-31-55. Filed 11-4-54.
- 611,482. PARKSHIRE. International Shoe Company. SN 676,196. Pub. 5-24-55. Filed 11-8-54.
- 611,483. KASHUMBO. Patricia Scott Inc., d. b. a. Scott Enterprises. SN 676,234. Pub. 5-24-55. Filed 11-8-54.
- 611,484. MARTHA WEATHERED. Martha Weathered Shops, Inc. SN 676,285. Pub. 5-31-55. Filed 11-8-54.
- 611,485. ERNEST CREATIONS AND DESIGN (EC MONOGRAM). Asbury Sportswear, Inc. SN 676,454. Pub. 5-24-55. Filed 11-12-54.
- 611,486. PINK LACE AND DESIGN. The Havre de Grace Hosiery Mills, Incorporated. SN 676,498. Pub. 5-31-55. Filed 11-12-54.

- 611,487. BOUNCER. Brevitt Shoes Limited. SN 676,709. Pub. 5-31-55. Filed 11-16-54.
- 611,488. KX. The Kendall Company. SN 677,880. Pub. 5-24-55. Filed 12-7-54.
- 611,489. SOFT TOUCH. Wlapese Corp. SN 677,914. Pub. 5-31-55. Filed 12-7-54.
- 611,490. FIGURINE. Saks & Company. SN 677,991. Pub. 5-31-55. Filed 12-8-54.
- 611,491. NUTRANA. Barkin, Levin & Co. Inc. SN 678,190. Pub. 5-31-55. Filed 12-13-54.
- 611,492. CHESTER. A. H. Schreiber Co., Inc. SN 678,267. Pub. 5-31-55. Filed 12-13-54.
- 611,493. SYLCRAFT. A. H. Schreiber Co., Inc. SN 678,268. Pub. 5-31-55. Filed 12-13-54.

## CLASS 42

- 611,494. LIBERTY BELL. Normandie Bedspread Co. SN 661,657. Pub. 5-31-55. Filed 2-25-54.
- 611,495. WYNOL. Joshua Smith (1908) Limited. SN 674,291. Pub. 5-31-55. Filed 10-4-54.
- 611,496. CAMELCREST. S. Stroock & Co., Inc. SN 674,536. Pub. 5-24-55. Filed 10-8-54.
- 611,497. SNOWCAP. American Woolen Company, now by merger and change of name Textron American, Inc. SN 674,868. Pub. 5-24-55. Filed 10-15-54.
- 611,498. SHAGLON. Nye-Walt Company, Inc. SN 674,902. Pub. 5-24-55. Filed 10-15-54.

## CLASS 45

- 611,499. SILVER VALLEY. Harlingen Canning Company. SN 664,007. Pub. 5-31-55. Filed 4-6-54.
- 611,500. BARQ'S SR. Barq's Incorporated. SN 665,392. Pub. 5-24-55. Filed 4-29-54.
- 611,501. CHERRYETTE. The Grapette Company. SN 671,331. Pub. 5-31-55. Filed 8-9-54.
- 611,502. LYMETTE. The Grapette Company. SN 671,332. Pub. 5-31-55. Filed 8-9-54.
- 611,503. RASPBERRYETTE. The Grapette Company. SN 671,333. Pub. 5-31-55. Filed 8-9-54.
- 611,504. STRAWBERRYETTE. The Grapette Company. SN 671,334. Pub. 5-31-55. Filed 8-9-54.
- 611,505. RED ROCK. The Red Rock Co. SN 671,376. Pub. 5-24-55. Filed 8-9-54.
- 611,506. HUBBLY-BUBBLY. Motyer & Clement (Proprietary) Limited. SN 674,085. Pub. 5-31-55. Filed 9-30-54.

## CLASS 46

- 611,507. SUN NUGGETS FROM CALIFORNIA AND DESIGN. Boothe Fruit Company, to Vacu-Dry Company. SN 596,324. Pub. 2-15-55. Filed 4-26-50.
- 611,508. AUTOCRAT. Consolidated Companies, Incorporated. SN 647,064. Pub. 3-23-54. Filed 5-15-53.
- 611,509. FRUIT KING AND DESIGN. Richey & Gilbert Company. SN 658,650. Pub. 5-24-55. Filed 12-28-53.
- 611,510. LITTLE SPORT. Regal Stores, Inc. SN 660,073. Pub. 5-24-55. Filed 1-25-54.
- 611,511. "TASTE-VALUE" TV AND DESIGN. Potato Specialties, Inc. SN 665,947. Pub. 5-24-55. Filed 5-7-54.
- 611,512. PHOENIX AND DESIGN. Phoenix Candy Co. Inc. SN 666,301. Pub. 5-24-55. Filed 5-13-54.
- 611,513. TASTY SNAKS AND DESIGN (MISCELLANEOUS). Caterers Inc. SN 667,090. Pub. 5-24-55. Filed 5-26-54.
- 611,514. GOLD'N FRESH. Merit Packing Co. SN 673,039. Pub. 5-24-55. Filed 9-10-54.
- 611,515. FASWEET. Luchan L. Spellings, d. b. a. The Fasweet Company. SN 673,484. Pub. 5-24-55. Filed 9-20-54.
- 611,516. CHALLENGER. Western Packing Company. SN 673,558. Pub. 5-24-55. Filed 9-21-54.
- 611,517. LITTLE BO-PIZZAS AND CIRCLE DESIGN. Little Foods Corporation. SN 673,680. Pub. 5-31-55. Filed 9-23-54.
- 611,518. TRIPLE "S" AND DESIGN. Tanner-Brice Company, now by change of name to Piggly Wiggly Sims Stores, Inc. SN 673,693. Pub. 5-31-55. Filed 9-23-54.

- 611,519. HILLSDALE. Valley View Packing Co., Inc., d. b. a. Valley View Packing Co. SN 674,209. Pub. 5-24-55. Filed 10-1-54.
- 611,520. MADRE SICILIA. Antonio Corrao Corporation. SN 674,568. Pub. 5-24-55. Filed 10-11-54.
- 611,521. HERSHEY-ETS. Hershey Chocolate Corporation. SN 674,579. Pub. 5-24-55. Filed 10-11-54.

## CLASS 47

- 611,522. GROWERS OLD RESERVE AND DESIGN. California Growers Wineries. SN 665,020. Pub. 5-24-55. Filed 4-22-54.
- 611,523. ALDOURO. Munson G. Shaw Co., Inc. SN 670,806. Pub. 5-24-55. Filed 7-29-54.
- 611,524. NO. 85. Munson G. Shaw Co., Inc. SN 670,807. Pub. 5-24-55. Filed 7-29-54.
- 611,525. NO. 100 BACCHANTE. Munson G. Shaw Co., Inc. SN 670,809. Pub. 5-24-55. Filed 7-29-54.
- 611,526. NO. 150 DUCHESS PORT. Munson G. Shaw Co., Inc. SN 670,810. Pub. 5-24-55. Filed 7-29-54.
- 611,527. NO. 25. Munson G. Shaw Co., Inc. SN 670,811. Pub. 5-24-55. Filed 7-29-54.

## CLASS 48

- 611,528. JENNY AND DESIGN. The Genesee Brewing Co., Inc. SN 667,114. Pub. 5-31-55. Filed 5-26-54.
- 611,529. PIKES PEAK. Richard W. Marland, d. b. a. Pikes Peak Sales Co. SN 669,620. Pub. 5-24-55. Filed 7-8-54.
- 611,530. H AND DESIGN. Harvard Brewing Co. SN 672,286. Pub. 5-31-55. Filed 8-26-54.
- 611,531. AMERICAN AND DESIGN. American Brewery, Incorporated. SN 674,121. Pub. 5-31-55. Filed 10-1-54.

## CLASS 49

- 611,532. DE KUYPER. John de Kuyper & Son, Incorporated. SN 660,194. Pub. 5-24-55. Filed 1-27-54.
- 611,533. THE REAL MACKENZIE. P. Mackenzie & Co. Distillers Ltd. SN 661,579. Pub. 5-24-55. Filed 2-24-54.
- 611,534. WESTON SPRINGS. McCormick Distilling Company. SN 665,363. Pub. 5-24-55. Filed 4-28-54.
- 611,535. ADA 53. Ad. Auriema, Inc. SN 673,329. Pub. 5-24-55. Filed 9-17-54.
- 611,536. KENTUCKY BOW TIE AND DESIGN. Berbiglia, Inc. SN 673,722. Pub. 5-24-55. Filed 9-24-54.

## CLASS 50

- 611,537. GRAVO FLEX. Hermes Plastics Inc. SN 671,567. Pub. 4-26-55. Filed 8-12-54.

## CLASS 51

- 611,538. ELIZABETH WHITNEY. Old Empire Manufacturing Chemists, Inc., d. b. a. Elizabeth Whitney. SN 635,049. Pub. 7-21-53. Filed 9-9-52.
- 611,539. PERX. Rayette, Inc., to The Procter & Gamble Company. SN 643,061. Pub. 5-24-55. Filed 2-26-53.
- 611,540. AQUASIL. Lenthalic, Incorporated, to Lenthalic, Inc. SN 658,066. Pub. 6-7-55. Filed 12-16-53.
- 611,541. ON HAND. Lenthalic, Incorporated, to Lenthalic, Inc. SN 658,401. Pub. 5-31-55. Filed 12-22-53.
- 611,542. M-W MADAM C. J. WALKER AND DESIGN. The Madam C. J. Walker Mfg. Co., d. b. a. Mme. C. J. Walker Mfg. Co. SN 664,489. Pub. 5-24-55. Filed 4-13-54.

- 611,543. CASTANET. Charles A. Kampf, d. b. a. Affiliated Laboratories. SN 673,746. Pub. 5-24-55. Filed 9-24-54.
- 611,551. LANOWAVE. The Wella Corporation. SN 594,416. Pub. 11-18-52. Filed 3-22-50.

## CLASS 52

- 611,544. TAREX. United Aniline Co. SN 653,594. Pub. 5-31-55. Filed 9-22-53.
- 611,545. OPTIC-KLEER. Chemical Electronic Engineering, Inc. SN 657,489. Pub. 10-5-54. Filed 12-7-53.
- 611,546. TIPTON'S MIRACLE WASH. Ralph M. Tipton, d. b. a. R M Tipton & Co. SN 664,102. Pub. 5-31-55. Filed 4-7-54.



- 611,547. TRICON. New Process Chemical Co., Inc. SN 669,795. Pub. 5-31-55. Filed 7-12-54.  
 611,548. SIB. The Sinclair Manufacturing Company. SN 672,317. Pub. 5-31-55. Filed 8-26-54.  
 611,549. COLORHUE. The Nestle-Le Mur Company. SN 672,525. Pub. 5-31-55. Filed 8-31-54.  
 611,550. SMUDGE. The Drackett Company. SN 674,731. Pub. 5-31-55. Filed 10-13-54.  
 611,551. (See Class 51 for this trademark.)
- 611,555. MR. 4% AND DESIGN. Jefferson Standard Life Insurance Company. SN 673,667. Pub. 5-24-55. Filed 9-23-54.

## CLASS 103

- 611,556. ORKIN AND DESIGN. Orkin Exterminating Co., Inc. SN 643,240. Pub. 5-24-55. Filed 3-6-53.  
 611,557. PET. Portable Electric Tools, Inc. SN 675,098. Pub. 5-24-55. Filed 10-19-54.

## CLASS 104

- 611,558. "KEEP YOUR EYE ON" W TELE VISION RICHMOND AND DESIGN (REPRESENTATION OF A HUMAN EYE). Havens & Martin, Inc., operating stations WMBG and WTVR. SN 663,280. Pub. 5-24-55. Filed 3-25-54.

## CLASS 107

- 611,559. TELECOURSES AND DESIGN (REPRESENTATION OF A BELL). Telecourses, Incorporated. SN 663,227. Pub. 5-24-55. Filed 3-24-54.  
 611,560. TELECOURSES. Telecourses, Incorporated. SN 663,228. Pub. 5-24-55. Filed 3-24-54.  
 611,561. "THE PHANTOM PIRATE." Phantom Pirate, Inc. SN 680,898. Pub. 5-24-55. Filed 2-1-55.

## Service Marks

## CLASS 101

- 611,552. U-TYPE-IT. The U-Type-It Company of America. SN 661,741. Pub. 5-24-55. Filed 2-26-54.

## CLASS 102

- 611,553. MR. P. B. ILLD ETC. AND DESIGN. Peoples Bank and Trust Company. SN 636,798. Pub. 5-24-55. Filed 10-17-52.  
 611,554. REPRESENTATION OF A SHEEP SINCE 1904 AND DESIGN. Del Rio National Bank. SN 672,809. Pub. 5-24-55. Filed 9-7-54.

## SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

## CLASS 1

- 611,562. Harry T. Campbell Sons' Corp., Towson, Md. SN 680,129. Filed 1-19-55.

**CAMELSHELL**

*Why buy two when one will do!*

For Calcite Grit for Poultry Feed.  
 Use since Aug. 1, 1950.

## CLASS 4

- 611,563. John W. Tyler, Chicago, Ill. SN 653,882. Filed P. R. 9-28-53. Am. S. R. 6-14-54.

**TYLER  
STAY-SHINED**



**SHOE  
POLISH**

**The Best for  
Old Shoes**

For Shoe Polish.  
 Use since Jan. 1, 1953.

## CLASS 6

- 611,564. Werner G. Smith, Inc., Cleveland, Ohio. SN 670,814. Filed 7-29-54.

**WHAT A WHALE OF A  
DIFFERENCE A LITTLE  
SPERM OIL MAKES**

For Whale Oil Products—Namely, Oils, Waxes, and Fatty Alcohols.  
 Use since Apr. 1, 1952.

## CLASS 13

- 611,565. Berg, Hedstrom & Co., Inc., New York, N. Y., to Husqvarna Vapenfabriks Aktiebolag, Husqvarna, Sweden. SN 666,909. Filed P. R. 5-24-54. Am. S. R. 12-9-54.

**Husqvarna**

For Enamelled Cast Iron Ware—Namely, Casseroles, Roasters, Butter Pans, Saucepans, Soup Tureens, Shirring Pans, Frying Pans, Dishes, and Trivets.  
 Use since May 1953.

- 611,566. Lewis Welner, d. b. a. Lewis Welner Engineering Co., Long Island City, N. Y. SN 669,062. Filed P. R. 6-28-54. Am. S. R. 6-23-55.

**"NO - J A M"**

For Slide Fasteners, Stringers and Silders for Slide Fasteners.  
 Use since Apr. 15, 1954.

- 611,567. Ernest Sohn Creations, Incorporated, New York, N. Y. SN 669,416. Filed 7-6-54.  
 611,571. American Cyanamid Company, New York, N. Y. SN 619,436. Filed S. R. 10-1-51. Am. P. R. 4-17-53. Am. S. R. 7-15-55.



For Metal Buffet and Serving Accessories—Namely, Chafing Dishes, Casseroles, Samovars, Food Warmers, Serving Trays, Lazy Susans, Coffee Warmers and Servers, Food Warmers and Servers, Salad Bowls.  
 Use since Aug. 15, 1951.

- 611,568. Hi-Shear Rivet Tool Company, Los Angeles, Calif. SN 670,483. Filed P. R. 7-23-54. Am. S. R. 3-18-55.



For Screws and Bolts.  
 Use since Mar. 16, 1953.

## CLASS 15

- 611,569. The Lubri-Loy Company, St. Louis, Mo. SN 634,097. Filed P. R. 8-18-52. Am. S. R. 5-22-53.



The drawing is lined for orange.  
 For a Lubricating Oil Additive Used To Free Sticky Engine Valves and Rings, Hydraulic Lifters, and To Reduce Friction.  
 Use since on or about Apr. 1, 1952.

## CLASS 18

- 611,570. American Cyanamid Company, New York, N. Y. SN 618,199. Filed S. R. 8-29-51. Am. P. R. 4-17-53. Am. S. R. 7-15-55.

**AUREOMYCIN**

For Antibiotic—Namely, Chlortetracycline.  
 Use since Mar. 19, 1948.

TM 697 O. G.—20

**AUREOMICINA**

For Antibiotic—Namely, Chlortetracycline.  
 Use since Jan. 17, 1949.

- 611,572. W. T. Loesch, d. b. a. Loesch Hair Experts, Houston, Tex. SN 663,925. Filed 4-5-54.



For Medicinal Preparations for the Care and Treatment of the Scalp—Namely, Scalp Conditioner, Antiseptic Dressing, Antiseptic Hair Groom, Scalp Cleanser, and Special Shampoo.  
 Use since Sept. 1, 1952.

## CLASS 19

- 611,573. Don Allen, Buffalo, N. Y. SN 677,538. Filed 12-1-54.

WE'RE NOT THE BEST BECAUSE  
 WE'RE THE BIGGEST,  
 ↓ ↓ ↓ ↓ ↓  
 WE'RE THE BIGGEST BECAUSE  
 WE'RE THE BEST

For New and Used Passenger Automobile and Motor Vehicle Trucks.  
 Use since Feb. 1, 1948.

## CLASS 21

- 611,574. K. H. Huppert Co., Chicago, Ill. SN 646,183. Filed P. R. 4-29-53. Am. S. R. 11-15-54.

**HI-HEAT**

For Electrically Operated Furnaces for Dental, Laboratory, and Industrial Uses.  
 Use since Feb. 10, 1948.

- 611,575. Theodore R. Flagg, d. b. a. Cycle Electronic Laboratories, to Cycle Transformer Corporation, East Orange, N. J. SN 663,567. Filed P. R. 3-30-54. Am. S. R. 4-25-55.



For Electrical Apparatus—Namely, Transformers, Coils, and Bobbins for Coils.  
 Use since July 1, 1945.



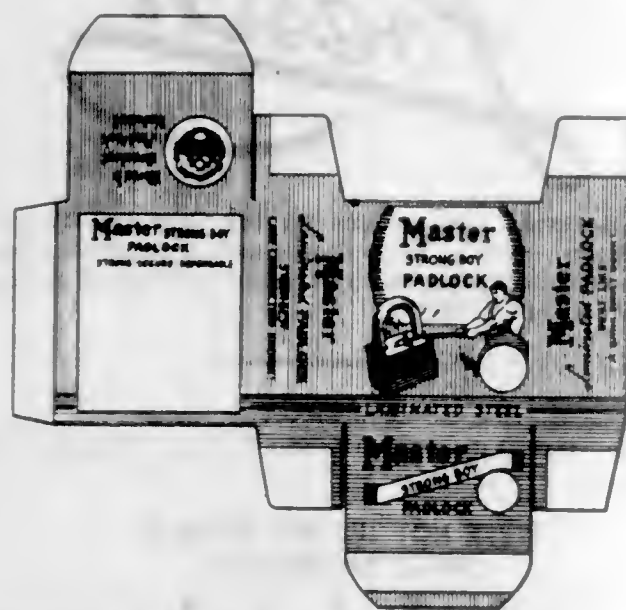
611,576. Albert G. Bickford, to Door-Lift Co., Dayton, Ohio. SN 667,372. Filed P. R. 6-1-54. Am. S. R. 6-3-55.

## DOOR-LIFT

For Electrically Operated Push-Button Radio Controls for Door Opening and Closing Mechanism.  
Use since May 27, 1954.

### CLASS 25

611,577. Master Lock Company, Milwaukee, Wis. SN 646,300. Filed P. R. 5-1-53. Am. S. R. 4-11-55.



The drawing is lined for red and blue.  
For Locks.  
Use since Aug. 4, 1949.

### CLASS 32

611,578. American Bedding Company, Charlotte, N. C. SN 665,876. Filed P. R. 5-4-54. Am. S. R. 2-11-55.

## Natural Posture Mattress

The word "Mattress" is disclaimed apart from the rest of the mark shown.  
For Mattresses and Box Springs.  
Use since Nov. 13, 1952.

### CLASS 35

611,579. Seal-A-Tube Products, Inc., Roxbury, Mass. SN 666,873. Filed P. R. 5-21-54. Am. S. R. 4-11-55.

**seal-a-tube**

For Jelly-Like Material for Sealing Punctures in Tire Tubes.  
Use since Jan. 27, 1954.

### CLASS 37

611,580. Jiffy Manufacturing Company, Hillside, N. J. SN 626,794. Filed P. R. 3-21-52. Am. S. R. 1-22-54.

## KUSHION KRAFT

For Kraft Cushion Paper.  
Use since Sept. 21, 1951.

611,581. Darrell M. Johnson, Thomson, Ga. SN 645,487. Filed P. R. 4-17-53. Am. S. R. 1-7-55.

## Friendship Accounts

For Booklets for Maintaining Records of Personal Events.  
Use since Jan. 9, 1953.

611,582. The Progress Lithographing Co., Cincinnati, Ohio. SN 660,434. Filed P. R. 2-1-54. Am. S. R. 2-14-55.

## PRE-LITH

For Stock Lithograph Sheets Sold With One or More Color Designs Imprinted Thereon and Adapted To Be Completed by the Customer.  
Use since Jan. 22, 1954.

### CLASS 38

611,583. The Cardinal Corporation, Bradford, Pa. SN 646,267. Filed P. R. 5-1-53. Am. S. R. 6-7-55.

## THE Mutual Fund JOURNAL

For Periodical Publication.  
Use since Mar. 1, 1953.

611,584. Tompkins' Label Service, Philadelphia, Pa. SN 650,844. Filed P. R. 7-24-53. Am. S. R. 5-18-55.

## PRES-TO-SEAL

For Printed Labels.  
Use since May 14, 1953.

611,585. King Publications, Inc., San Francisco, Calif. SN 661,081. Filed P. R. 2-15-54. Am. S. R. 5-5-55.

## Western Farm Equipment

For Monthly Publication.  
Use since Jan. 8, 1954.

611,586. Ziff-Davis Publishing Company, New York, N. Y. SN 663,986. Filed P. R. 4-5-54. Am. S. R. 6-2-55.

## POPULAR ELECTRONICS

For Magazine.  
Use since Mar. 26, 1954.

### CLASS 39

611,587. Hack Shoe Co., Detroit, Mich. SN 652,064. Filed P. R. 8-20-53. Am. S. R. 1-10-55.



For Shoe Soles.  
Use since on or about Aug. 1, 1953.

611,588. Chipman Knitting Mills, Easton, Pa. SN 657,262. Filed P. R. 12-2-53. Am. S. R. 1-10-55.



For Women's Hosiery.  
Use since Nov. 16, 1953.

611,589. Simon Ackerman Clothes, Inc., New York, N. Y. SN 664,494. Filed P. R. 4-14-54. Am. S. R. 4-27-55.



For Men's and Young Men's Coats, Vests, Trousers, and Overcoats.  
Use since June 15, 1936.

611,590. Edward A. Bentley, d. b. a. Bentley Bonnets, Chicago, Ill. SN 665,553. Filed P. R. 5-3-54. Am. S. R. 5-4-55.



For Women's Hats.  
Use since Mar. 18, 1954.

### CLASS 42

611,591. Gilbert Freeman, Inc., Boston, Mass. SN 680,189. Filed P. R. 1-20-55. Am. S. R. 6-22-55.

## HEATHER TWEED

For Shoe Fabrics.  
Use since Aug. 15, 1953.

### CLASS 44

611,592. Alcorn & Company, Inc., Boston, Mass. SN 667,767. Filed P. R. 6-7-54. Am. S. R. 6-3-55.

## "THRO-WAY"

For Tongue Depressors.  
Use since May 21, 1954.

### CLASS 46

611,593. Ralston Purina Company, St. Louis, Mo. SN 651,012. Filed P. R. 7-28-53. Am. S. R. 2-14-55.

## MICRO-MIXED

For Animal and Poultry Feeds.  
Use since June 15, 1953, on poultry feed.

611,594. Redi-Foods, Inc., Columbus, Ohio. SN 657,798. Filed P. R. 12-10-53. Am. S. R. 3-31-55.

## Redi Pak

For Fresh Vegetables and Fresh Fruits.  
Use since October 1951.

611,595. Bella Products Co., Inc., Somerville, Mass. SN 662,287. Filed P. R. 3-9-54. Am. S. R. 2-7-55.

### BELLA

## PIZZA-RETTES

The word "Bella" means fine or perfect.  
For Baked Pizzas Sized for Each to Constitute an Individual Serving.  
Use since March 1953.

611,596. Albert F. Holloway, d. b. a. Olin Mfg. Co., Oakland, Calif. SN 664,760. Filed 4-19-54.

## "THE IDEAL NIBBLE"

For Toasted Corn Kernels.  
Use since May 1940.

611,597. James D. Kinsella, East Chicago, Ind. SN 669,774. Filed P. R. 7-12-54. Am. S. R. 7-6-55.

## POP'SERVE

For a Prepared Unpopped Popcorn Product, Consisting of a Pre-Measured Admixture of Unpopped Popcorn and Flaked Edible Oil.  
Use since on or about Aug. 30, 1953.



**CLASS 101**  
**Service Marks**

611,598. Damon J. Swann, d. b. a. Damon J. Swann Advertising Agency, Atlanta, Ga. SN 632,052. Filed P. R. 7-1-52. Am. S. R. 5-24-54.

## HOUSE OF IDEAS

For Sales Promotion and Advertising Services—Namely, the Creation and Development of Merchandising Aids, Sales Promotion Pieces, Sales Meeting Presentations, Personnel Contests, Consumer Contests, Personnel Bulletins and Broad-sides, Premium Offers, Point-of-Purchase Material, Newspaper and Magazine Advertising, Radio and Television Advertising, Direct Mail Advertising, Outdoor and Car Card Advertising, and Publicity.

Use since on or about July 1, 1949.

611,599. Harry N. Reizes, d. b. a. The Audio Fair, New York, N. Y. SN 632,329. Filed P. R. 7-9-52. Am. S. R. 2-2-53.

## THE AUDIO FAIR

For Promoting the Sale of the Goods of Others, Which Goods Comprise Sound Equipment, Through the Medium of Exhibitions and Through the Collation of Lists of Prospective Buyers of Such Sound Equipment.

Use since June 30, 1949.

**CLASS 106**

611,600. Spotless Stores, Inc., New York, N. Y. SN 670,988. Filed 8-2-54.

## FUR-GLO

For Glazing Fur Garments.

Use since on or about Apr. 1, 1953.

## TRADEMARK REGISTRATIONS RENEWED

- |                                                                 |                                                           |
|-----------------------------------------------------------------|-----------------------------------------------------------|
| 102,264. DMC AND DESIGN. Cl. 43. 2-2-15.                        | 327,131. EST. 1911 DESIGN OF MAN ETC. Cl. 49. 8-20-35.    |
| 102,265. D-M-C. Cl. 40. 2-2-15.                                 | 327,132. R R. Cl. 49. 8-20-35.                            |
| 102,266. DMC AND DESIGN. Cl. 40. 2-2-15.                        | 327,538. R R SUPERLATIVO RONRICO ETC. Cl. 49. 8-27-35.    |
| 102,268. DESIGN OF COLUMNS. Cl. 40. 2-2-15.                     | 327,580. RONRICO. Cl. 49. 8-27-35.                        |
| 102,269. DMC AND DESIGN. Cl. 40. 2-2-15.                        | 327,841. AEROLASTIC AND DESIGN. Cl. 39. 9-3-35.           |
| 105,269. WINNER BRAND. Cl. 1. 7-13-15.                          | 328,348. R R RONRICO. Cl. 49. 9-24-35.                    |
| 105,596. LINCOLN PARK. Cl. 1. 8-10-15.                          | 328,363. RED CHAIN. Cl. 35. 9-24-35.                      |
| 105,897. VELOUR. Cl. 1. 8-24-15.                                | 328,690. MAESTRO. Cl. 21. 10-1-35.                        |
| 312,570. DUNBAR'S ETC. AND DESIGN. Cl. 49. 5-1-34.              | 328,955. OLD AMERICAN ETC. AND DESIGN. Cl. 49. 10-8-35.   |
| 313,690. REPRESENTATION OF BUILDING ETC. Cl. 49. 6-5-34.        | 328,958. AMERICAN ETC. AND DESIGN. Cl. 49. 10-8-35.       |
| 317,759. FERNET-BRANCA ETC. AND DESIGN. Cl. 18. 10-2-34.        | 329,082. CANADIAN CLUB ETC. AND DESIGN. Cl. 49. 10-15-35. |
| 320,778. CHATEAU MARGAUX ETC. AND DESIGN. Cl. 47. 1-8-35.       | 329,125. SABER. Cl. 46. 10-15-35.                         |
| 323,349. RED BARRY. Cl. 38. 4-9-35.                             | 329,572. P & T RESERVE AND DESIGN. Cl. 49. 11-5-35.       |
| 324,464. COLE'S CARBONIZED SALVE. Cl. 18. 5-21-35.              | 329,573. PARK & TILFORD "1840". Cl. 49. 11-5-35.          |
| 324,935. DESIGN OF SPINNING WHEEL. Cl. 41. 6-4-35.              | 329,623. STEELCOTE ETC. AND DESIGN. Cl. 16. 11-5-35.      |
| 324,954. KNIGHT AND DESIGN. Cl. 12. 6-4-35.                     | 329,694. REOGEN. Cl. 6. 11-5-35.                          |
| 324,955. KNIGHT. Cl. 12. 6-4-35.                                | 329,752. SUN-CHIEF. Cl. 1. 11-12-35.                      |
| 324,963. O-G MYSTIC ARCH. Cl. 39. 6-4-35.                       | 329,772. EXCELSWELD. Cl. 12. 11-12-35.                    |
| 325,152. CHIVAS' REGAL. Cl. 49. 6-11-35.                        | 329,926. EL SALERO. Cl. 17. 11-19-35.                     |
| 325,370. STAFLEX. Cl. 6. 6-18-35.                               | 330,081. BOORD'S ETC. AND DESIGN. Cl. 49. 11-19-35.       |
| 325,795. JOHN DE KUYPER & SON JDK-Z AND DESIGN. Cl. 49. 7-2-35. | 330,094. POPULARITY SHOES AND DESIGN. Cl. 39. 11-19-35.   |
| 325,796. DESIGN OF ANCHOR. Cl. 49. 7-2-35.                      | 330,111. DESIGN OF MAN. Cl. 49. 11-19-35.                 |
| 326,805. SNOMAID. Cl. 46. 8-6-35.                               | 330,310. HILLS. Cl. 18. 11-26-35.                         |
| 327,072. TIL'N-DRAIN. Cl. 13. 8-13-35.                          | 330,330. EXIT. Cl. 23. 11-26-35.                          |

## TRADEMARK REGISTRATIONS CANCELED

**Section 7**

438,180. TURBODYNE. Cl. 23. 4-13-48.

**Section 8**

31,794. ROYALE. Cl. 39. 7-12-98.  
69,777. SEA SHELL. Cl. 46. 7-7-08.  
70,536. KEISER AND DESIGN. Cl. 40. 9-8-08.  
74,613. OCTAGONAL SHAPED DESIGN WITHIN DECORATIVE BORDER. Cl. 39. 7-27-09.  
75,921. RED SHIELD AND REPRESENTATION OF SHIELD. Cl. 46. 11-30-09.  
82,670. EL AZAR. Cl. 46. 7-18-11.

110,748. SIESTA AND DESIGN. Cl. 46. 6-13-16.  
111,639. EL VERANO AND DESIGN. Cl. 46. 7-25-16.  
126,026. OCTAGONAL SHAPED DESIGN. Cl. 39. 7-22-19.  
126,960. RIDGELY WITHIN CIRCLE. Cl. 26. 10-14-19.  
127,245. RIDGELY WITHIN CIRCLE. Cl. 23. 10-28-19.  
127,489. RIDGELY WITHIN CIRCLE. Cl. 4. 11-11-19.  
127,492. RIDGELY WITHIN CIRCLE. Cl. 50. 11-11-19.  
127,672. RIDGELY WITHIN CIRCLE. Cl. 34. 11-18-19.  
128,502. RIDGELY WITHIN CIRCLE. Cl. 32. 1-6-20.  
166,382. SERVISPAP. Cl. 16. 4-3-23.  
170,889. MUTUAL COMPOUND. Cl. 46. 7-24-23.

- |                                                                                                                 |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 204,616. ANAHEIM GLORIANA. Cl. 46. 10-20-25.                                                                    | 434,304. ROYAL STAR AND REPRESENTATION OF STAR. Cl. 39. 11-18-47.                                   |
| 206,445. ADSCO WITHIN DIAMOND SHAPED DESIGN. Cl. 12. 12-1-25.                                                   | 434,598. GOBLET. Cl. 46. 11-25-47.                                                                  |
| 231,912. RIDGELY. Cl. 23. 8-30-27.                                                                              | 435,340. THERMO-PHOS. Cl. 10. 12-16-47.                                                             |
| 239,005. WALKER'S BEANS AND PORTRAIT OF MAN AND BOWL OF BEANS. Cl. 46. 2-21-28.                                 | 436,212. LINSOAP. Cl. 4. 1-27-48.                                                                   |
| 239,925. FOURSOME. Cl. 2. 3-13-28.                                                                              | 436,288. VODUST. Cl. 6. 1-27-48.                                                                    |
| 242,426. GOLD KETTLE AND REPRESENTATION OF KETTLE. Cl. 46. 5-22-28.                                             | 436,389. SW ON WINGED SHIELD. Cl. 21. 2-3-48.                                                       |
| 245,229. MAGIC CLEANER MAID. Cl. 4. 8-7-28.                                                                     | 436,509. STYLED BY CHERUBINO. Cl. 39. 2-10-48.                                                      |
| 247,011. PARADISE. Cl. 46. 9-18-28.                                                                             | 436,663. FLEXECON. Cl. 12. 2-17-48.                                                                 |
| 248,081. JANSON AND DIAMOND DESIGNS. Cl. 39. 10-16-28.                                                          | 507,762. SCALE-CRAFT MODEL RAILROADS AND REPRESENTATION OF RAILROAD WITHIN DESIGN. Cl. 22. 3-22-49. |
| 259,294. IOWA THE WORLD AND PICTURESQUE DRAWING WITHIN CIRCULAR OUTLINE. Cl. 46. 7-30-29.                       | 507,771. KALSCOMIN. Cl. 6. 3-22-49.                                                                 |
| 291,946. MORNIN'-AFTA. Cl. 18. 2-23-32.                                                                         | 507,775. CUVALLE AND SHIELD DESIGN. Cl. 47. 3-22-49.                                                |
| 304,963. MOUSSEC. Cl. 47. 7-25-33.                                                                              | 507,776. THOMAS. Cl. 42. 3-22-49.                                                                   |
| 328,464. SANS-SOUCI. Cl. 49. 10-1-35.                                                                           | 507,780. EPHEUROSE. Cl. 6. 3-22-49.                                                                 |
| 330,012. CRYSTAL DEW. Cl. 45. 11-19-35.                                                                         | 507,784. HATCHET MILL AND REPRESENTATION OF HATCHET. Cl. 23. 3-22-49.                               |
| 332,901. FOLD-A-WAY. Cl. 24. 3-3-36.                                                                            | 507,786. BACO. Cl. 26. 3-22-49.                                                                     |
| 334,118. MICROSULFUR. Cl. 6. 4-21-36.                                                                           | 507,787. BACO AND DESIGN. Cl. 26. 3-22-49.                                                          |
| 353,147. ADSCO. Cl. 12. 12-28-37.                                                                               | 507,788. DE PUY. Cl. 44. 3-22-49.                                                                   |
| 355,786. HIGHEST. Cl. 46. 3-29-38.                                                                              | 507,798. CRESCENT AND STAR DESIGN. Cl. 46. 3-22-49.                                                 |
| 357,033. ROBUST QUALITY POPCORN. Cl. 46. 5-24-38.                                                               | 507,801. C G AND DESIGN. Cl. 30. 3-22-49.                                                           |
| 363,439. IDAHYBRID. Cl. 1. 12-27-38.                                                                            | 507,802. CLARK EQUIPMENT CO. Cl. 19. 3-22-49.                                                       |
| 366,123. FAIR ISLAND. Cl. 46. 3-28-39.                                                                          | 507,809. AUTO LOAD. Cl. 26. 3-22-49.                                                                |
| 372,461. TOWNE TOPPINGS AND SILHOUETTE OF TOWN CRIER. Cl. 45. 10-31-39.                                         | 507,813. HARCOURT. Cl. 6. 3-22-49.                                                                  |
| 372,830. CALHO. Cl. 46. 11-14-39.                                                                               | 507,814. ANGLIER'S AND GREEK CROSS WITHIN CIRCULAR DESIGN. Cl. 6. 3-22-49.                          |
| 373,576. FLASH BRAND NEWS WITHIN RECTANGULAR DESIGN AND REPRESENTATION OF BOLTS OF LIGHTNING. Cl. 38. 12-12-39. | 507,817. BARON'S. Cl. 45. 3-22-49.                                                                  |
| 379,270. CONKEYS WITHIN RECTANGULAR DESIGN. Cl. 6. 7-9-40.                                                      | 507,832. HIERRO VITAMINADO DE WINTERSMITH. Cl. 6. 3-22-49.                                          |
| 379,570. HIGHLAND MAID. Cl. 46. 7-16-40.                                                                        | 507,833. ZEPHOILATOR. Cl. 34. 3-22-49.                                                              |
| 380,943. INSTA-FREEZE. Cl. 31. 9-10-40.                                                                         | 507,834. ZONE QUEEN. Cl. 34. 3-22-49.                                                               |
| 383,563. GET THE PULLMATCH HABIT AND DESIGN WITHIN CIRCULAR DESIGN. Cl. 9. 12-17-40.                            | 507,837. ARROW WITHIN ARROW DESIGNS. Cl. 4. 3-22-49.                                                |
| 386,991. MENASHA SUPER LUX AND DESIGN. Cl. 37. 4-29-41.                                                         | 507,839. WATAUGA. Cl. 46. 3-22-49.                                                                  |
| 388,447. TAHQUITZ. Cl. 46. 6-24-41.                                                                             | 507,845. C Q CADDY QUEEN AND SHIELD DESIGN. Cl. 19. 3-22-49.                                        |
| 388,891. HEMET PAGEANT. Cl. 46. 7-15-41.                                                                        | 507,847. CAPALOY. Cl. 28. 3-22-49.                                                                  |
| 389,401. "SILVER STREAM". Cl. 3. 8-5-41.                                                                        | 507,849. HUBER WITHIN OVAL DESIGN. Cl. 6. 3-22-49.                                                  |
| 389,402. "THE PATRIOT". Cl. 3. 8-5-41.                                                                          | 507,850. THE ELECTRIC FURNACE-MAN EFM AND DESIGN. Cl. 34. 3-22-49.                                  |
| 392,385. SULFONACREME. Cl. 6. 12-23-41.                                                                         | 507,852. TROJAN. Cl. 26. 3-22-49.                                                                   |
| 395,932. MY PAL AND PORTRAIT OF CHILD. Cl. 46. 6-16-42.                                                         | 507,861. CHEX. Cl. 26. 3-22-49.                                                                     |
| 395,933. TEMPLAR AND REPRESENTATION OF KNIGHT ON HORSEBACK. Cl. 46. 6-16-42.                                    | 507,862. GRAPE COOLER. Cl. 45. 3-22-49.                                                             |
| 398,511. ROSALVA. Cl. 46. 11-3-42.                                                                              | 507,864. PORTO-SIGHT. Cl. 26. 3-22-49.                                                              |
| 401,289. ARCH ROCK. Cl. 46. 5-4-43.                                                                             | 507,868. SHIELD DESIGN. Cl. 19. 3-22-49.                                                            |
| 405,564. VITA-VEX AND DESIGN. Cl. 46. 2-8-44.                                                                   | 507,872. LADY COTTON AND PICTURE OF LADY. Cl. 42. 3-22-49.                                          |
| 406,333. HOMIS AND DESIGN. Cl. 27. 3-28-44.                                                                     | 507,875. TEMPOMATIC. Cl. 26. 3-22-49.                                                               |
| 412,842. ROMEO. Cl. 27. 3-27-45.                                                                                | 507,880. ROGER (O. K.). Cl. 44. 3-22-49.                                                            |
| 413,847. BIG I IDAHO BRAND ETC. WITHIN RECTANGULAR AND DIAMOND DESIGNS. Cl. 46. 5-15-45.                        | 507,889. VALLEY SPRINGS. Cl. 49. 3-22-49.                                                           |
| 415,987. WILSONOL. Cl. 6. 8-21-45.                                                                              | 507,890. MATEY. Cl. 45. 3-22-49.                                                                    |
| 417,116. ALKAPECTIN. Cl. 6. 10-16-45.                                                                           | 507,892. A.L.I. (ALI) AND DESIGN. Cl. 6. 3-22-49.                                                   |
| 417,536. Y-27. Cl. 21. 10-30-45.                                                                                | 507,893. "MITY MITE". Cl. 6. 3-22-49.                                                               |
| 422,549. WOLFENDEN ZEPHYR PROCESS AND REPRESENTATION OF SPOOL. Cl. 43. 7-30-46.                                 | 507,900. MAY-COBB. Cl. 23. 3-22-49.                                                                 |
| 422,720. KNAIPWAY X AND DESIGN. Cl. 2. 8-6-46.                                                                  | 507,901. PURIDRYER AND PENTAGONAL DESIGN. Cl. 34. 3-22-49.                                          |
| 423,944. ODEON. Cl. 46. 9-17-46.                                                                                | 507,904. AIR-FLO STEREOPTON. Cl. 26. 3-22-49.                                                       |
| 424,500. KNAIPWAY X AND DESIGN. Cl. 23. 10-8-46.                                                                | 507,909. BLUE RIDGE. Cl. 1. 3-22-49.                                                                |
| 427,011. BEACON. Cl. 46. 1-21-47.                                                                               | 507,910. MAN'S HEAD WITHIN CIRCULAR DESIGN. Cl. 1. 3-22-49.                                         |
| 429,538. SUAVEL. Cl. 39. 5-6-47.                                                                                | 507,921. IMPATIENT. Cl. 6. 3-22-49.                                                                 |
| 431,253. ROSENTA. Cl. 27. 7-15-47.                                                                              | 507,929. STRATFORD. Cl. 42. 3-22-49.                                                                |
| 433,803. GOTHICULATOR M THE MODERN ARTICULATOR AND DESIGN. Cl. 44. 10-28-47.                                    | 507,932. PROTECTOBODY. Cl. 19. 3-22-49.                                                             |
|                                                                                                                 | 507,935. GLID-N. Cl. 6. 3-22-49.                                                                    |
|                                                                                                                 | 507,947. "NON KRUSH" AND REPRESENTATION OF MAN. Cl. 42. 3-22-49.                                    |



- 507,948. ESKISPEC. Cl. 26. 3-22-49.  
 507,949. MANDARIN. Cl. 26. 3-22-49.  
 507,951. WIDOR. Cl. 26. 3-22-49.  
 507,952. SIERRA KING. Cl. 34. 3-22-49.  
 507,959. MODERNAIRE. Cl. 26. 3-22-49.  
 507,960. VARIATION. Cl. 26. 3-22-49.  
 507,963. ANCHOR TOP K L AND REPRESENTATION OF ANCHOR WITHIN CIRCULAR DESIGN. Cl. 19. 3-22-49.  
 507,965. KETON. Cl. 44. 3-22-49.  
 507,968. THE 400. Cl. 26. 3-22-49.  
 507,971. GLAMINETTES. Cl. 26. 3-22-49.  
 507,972. THERAFOLIN. Cl. 6. 3-22-49.  
 507,977. TRESULIDE. Cl. 6. 3-22-49.  
 507,981. HARMIL. Cl. 42. 3-22-49.  
 507,991. MIDDLESEX. Cl. 46. 3-22-49.  
 507,994. A BEDTIME STORY. Cl. 42. 3-22-49.  
 507,995. DLC. Cl. 42. 3-22-49.  
 507,999. DAY-TONE. Cl. 55. 3-22-49.  
 508,005. FREEZRLARM. Cl. 26. 3-22-49.  
 508,006. NEELON. Cl. 42. 3-22-49.  
 508,007. RANGE FACTS. Cl. 38. 3-22-49.  
 508,012. COOPERATING IN THE NATIONAL TURKEY IMPROVEMENT PLAN ETC. AND DESIGN. Cl. 1. 3-22-49.  
 508,013. SOFTONE. Cl. 6. 3-22-49.  
 508,016. DISINFECTAB. Cl. 6. 3-22-49.

- 508,017. AMBRA-MUSK "A PRODUCT OF THE SEA" AND REPRESENTATION OF WHALE. Cl. 6. 3-22-49.  
 508,019. LOCKER MANAGEMENT. Cl. 38. 3-22-49.  
 508,021. LABOR FACTS. Cl. 38. 3-22-49.  
 508,023. AMERICA'S FIRST FAMILY OF COTTONS. Cl. 42. 3-22-49.

## Section 18

- 134,445. ROMA. Cl. 46. 8-31-20. Canc. 6182.  
 318,155. SALUTE. Cl. 49. 10-16-34. Canc. 6441.  
 380,108. AL'S. Cl. 48. 8-6-40. Canc. 6446.  
 410,394. MAYSVILLE VSB. Cl. 49. 11-21-44. Canc. 6411.  
 415,799. ROCKET. Cl. 23. 8-14-45. Intf. 4813.  
 520,111. FASHIONED BY VAN HOUTEN AND DESIGN. Cl. 39. 1-17-50. Canc. 6101.  
 522,631. CACHE. Cl. 31. 3-21-50. Canc. 6395.  
 547,000. EVERSWEETS. Cl. 46. 8-21-51. Canc. 6252.  
 600,178. DOLAN. Cl. 43. 12-28-54. Canc. 6449.

## Section 37

- 507,543. ADMIRAL. Cl. 23. 3-15-49.

## Vacation of Order of Cancellation

The order of cancellation dated June 9, 1955, cancelling Registration No. 506,362, was inadvertently entered and has been vacated.

## REGISTRATIONS PUBLISHED UNDER SEC. 12(c)

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trademark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

## CLASS 1

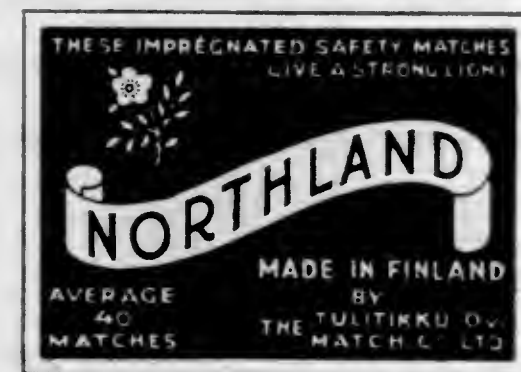
- 426,672. Jan. 7, 1947. Truax-Traer Coal Company, Chicago, Ill. Pub. by registrant.



For Coal.

## CLASS 9

- 322,470. Mar. 5, 1935. Tullitikk Oy, Helsinki, Finland. Pub. by Tukkukauppojen Oy, Helsinki, Finland.



For Safety Matches.

## NITRAMON

For Nitrate of Ammonia Blasting Agent Which, in Cartridge Form or Bags, Is Detonated by the Use of a Booster of High Explosives.

## CLASS 16

- 322,942. Mar. 26, 1935. Thomas L. Cunningham, New York, N. Y. Pub. by registrant.

## DRIGARD

For Liquid Waterproofing Composition Suitable for Waterproofing Practically Any Type of Material, Such as, for Example, Metal, Stone, Brick, Wood, Leather, Fabrics, Paper, Etc.

## CLASS 21

- 323,905. May 7, 1935. Duro-Test Corporation, North Bergen, N. J. Pub. by registrant.

*Duro-Flex*

For Electric Incandescent Lamps.

## CLASS 23

- 322,491. Mar. 12, 1935. Thrifty Drug Co. Ltd., Los Angeles, Calif. Pub. by Thrifty Drug Stores Co. Inc., Los Angeles, Calif.

*Thrifty*

For Safety Razor Blades.

## CLASS 37

- 327,518. Aug. 27, 1935. Riegel Paper Corporation, New York, N. Y. Pub. by registrant.

*BERYL*

For Wrapping Paper.

## CLASS 38

- 324,448. May 21, 1935. Thrifty Drug Co. Ltd., Los Angeles, Calif. Pub. by Thrifty Drug Stores Co. Inc., Los Angeles, Calif.

*Thriftytone*

For Photographic Prints.

- 327,983. Sept. 10, 1935. The Haire Publishing Company, Inc., New York, N. Y. Pub. by registrant.

LUGGAGE AND LEATHER GOODS

For Periodical Publication.

## CLASS 39

- 328,703. Oct. 1, 1935. Lane Bryant, Inc., New York, N. Y. Pub. by registrant.

*Lanbry*

For Women's Wearing Apparel—Namely, Dresses.

## CLASS 43

- 323,730. Apr. 30, 1935. United States Rubber Products, Inc., New York, N. Y. Pub. by United States Rubber Company, New York, N. Y.



For Yarns.

- 326,327. July 23, 1935. Du Pont Rayon Company, Buffalo, N. Y. Pub. by E. I. du Pont de Nemours and Company, Wilmington, Del.

**CORDURA**

For Viscose Yarns, Threads, and Filaments.

## CLASS 44

- 326,151. July 16, 1935. Detroit Dental Manufacturing Co., Detroit, Mich. Pub. by Kerr Manufacturing Company, Detroit, Mich.

**KORECTA**

For Dental Waxes.

## CLASS 47

- 322,746. Mar. 19, 1935. Thrifty Drug Co., Ltd., d. b. a. Thrifty Drug Stores, Los Angeles, Calif. Pub. by Thrifty Drug Stores Co. Inc., Los Angeles, Calif.

**OLD VERDUGO**

For Wines.

## CLASS 49

- 324,468. May 21, 1935. J. G. Thomson and Company, Limited, Leith, Edinburgh, Scotland. Pub. by registrant.

THOMSON'S  
**CLAN  
MACGREGOR**

FINE OLD SCOTCH WHISKY

J. G. THOMSON & Co. Ltd.  
LEITH.



For Whiskey.

- 324,867. June 4, 1935. Hiram Walker & Sons Limited, Walkerville, Ontario, Canada. Pub. by Hiram Walker & Sons Inc., Peoria, Ill.

*Scottish Chief*

For Whiskey.



## LIST OF REGISTRANTS OF TRADEMARKS

- A & B Sales Corp., Hillside, N. J. 507,893, canc. Cl. 6.  
Ackerman, Simon, Clothes, Inc., New York, N. Y. 611,589, Cl. 39.  
Adler, Benjamin, d. b. a. Adler Communications Laboratories, New Rochelle, N. Y. 611,354, pub. 5-31-55. Cl. 21.  
Adler Communications Laboratories: See—  
Adler, Benjamin.  
"Advertising Life" Agency, Fort Myers, Fla. 611,423, pub. 5-24-55. Cl. 26.  
Aetna Products & Mfg. Co., Burbank, Calif. 611,387, pub. 5-31-55. Cl. 22.  
Affiliated Laboratories: See—  
Kampf, Charles A.  
Air Associates, Inc., Teterboro, N. J. 611,399, pub. 5-24-55. Cl. 23.  
Alcorn & Co., Inc., Boston, Mass. 611,592. Cl. 44.  
Alexander Bros. Co., Savannah, Ga. 611,479, pub. 5-31-55. Cl. 39.  
Allen, Don, Buffalo, N. Y. 611,573. Cl. 19.  
Allied Research Products Inc., Baltimore, Md. 611,284, pub. 5-24-55. Cl. 6.  
Allis-Chalmers Mfg. Co., West Allis, Wis. 611,400, pub. 5-24-55. Cl. 23.  
Alto Mfg. Co., Chicago, Ill. 611,312, pub. 5-31-55. Cl. 13.  
Aluminum Cooking Utensil Co., Inc., The: See—  
Aluminum Cooking Utensil Co., The.  
Aluminum Cooking Utensil Co., Inc., New Kensington, Pa. 327,072, ren. 8-13-55. Cl. 13.  
Aluminum Products Co., Houston, Tex. 611,306, pub. 5-31-55. Cl. 12.  
Ambra-Musk Co., The, Pacoima, Calif. 508,017, canc. Cl. 6.  
American Bedding Co., Charlotte, N. C. 611,578. Cl. 32.  
American Blitrite Rubber Co., Inc., Chelsea, Mass., now by merger and change of name American Blitrite Rubber Co., Inc. 611,472, pub. 5-31-55. Cl. 39.  
American Brewery, Inc., Baltimore, Md. 611,531, pub. 5-31-55. Cl. 48.  
American Control Corp., Compton, Calif. 611,428, pub. 5-24-55. Cl. 26.  
American Cyanamid Co., New York, N. Y. 611,570-1. Cl. 18.  
American Distilling Co., The, New York, N. Y. 328,955, ren. 10-8-55. Cl. 49.  
American Distilling Co., The, New York, N. Y. 328,958, ren. 10-8-55. Cl. 49.  
American District Steam Co., North Tonawanda, N. Y. 206,445, canc. Cl. 12.  
American District Steam Co., North Tonawanda, N. Y. 353,147, canc. Cl. 12.  
American Insulating Materials Co., Downey, to The Epoxylite Corp., Montebello, Calif. 611,364, pub. 5-29-55. Cl. 21.  
American Iron and Steel Institute, New York, N. Y. 611,451, pub. 5-24-55. Cl. 38.  
American Laboratories Inc., Richmond, Va. 507,892, canc. Cl. 6.  
American Machinery Corp., Orlando, Fla. 507,900, canc. Cl. 23.  
American Optical Co., Southbridge, Mass. 611,420, pub. 5-24-55. Cl. 26.  
American Polymer Corp., Englewood, N. J. 611,363, pub. 5-31-55. Cl. 21.  
American Pullmatch Corp., Piqua, Ohio, C. W. Parritt, trustee in bankruptcy for said American Pullmatch Corp., to The Kilgore Mfg. Co., Westerville, Ohio. 383,563, canc. Cl. 9.  
American Rubber Products Corp., New York, N. Y. 611,315, pub. 5-3-55. Cl. 13.  
American Woolen Co., New York, N. Y., now by merger and change of name Textron American, Inc. 611,497, pub. 5-24-55. Cl. 42.  
American Zinc Sales Co., St. Louis, Mo. 611,327, pub. 5-31-55. Cl. 16.  
Anahelm Orange & Lemon Assn., Anaheim, Calif. 204,616, canc. Cl. 46.  
Angier Chemical Co., Allston and Boston, Mass. 507,814, canc. Cl. 6.  
Applegate, C. J., & Co.: See—  
Applegate, Charles J.  
Applegate, Charles J., d. b. a. C. J. Applegate & Co., Boulder, Colo. 611,358, pub. 5-31-55. Cl. 21.  
Arkansas Co., Inc., Newark, N. J. 611,281, pub. 5-24-55. Cl. 6.  
Armstrong Cork Co., Lancaster, Pa. 611,253, pub. 5-24-55. Cl. 2.  
Arpin, L. G., Co., West Caldwell, N. J. 611,386, pub. 5-31-55. Cl. 22.  
Arrow Supply & Tool Co., New York, N. Y. 507,837, canc. Cl. 4.  
Asbury Sportswear, Inc., Neptune, N. J. 611,485, pub. 5-24-55. Cl. 39.  
Associated Press, The, New York, N. Y. 611,448, pub. 5-24-55. Cl. 38.  
Audio Fair, The: See—  
Reizes, Harry N.  
Auriema, Ad., Inc., New York, N. Y. 611,535, pub. 5-24-55. Cl. 49.  
Asusa Foot-Hill Citrus Assn., Asusa, Calif. 75,921, canc. Cl. 46.  
Asusa Foot-Hill Citrus Assn., Asusa, Calif. 82,670, canc. Cl. 46.  
B & M Mfg. Co.: See—  
Black, Charles A.  
Baco Accessories Co., Hollywood, Calif. 507,786-7, canc. Cl. 26.  
Barkin, Levin & Co. Inc., New York, N. Y. 611,491, pub. 5-31-55. Cl. 39.  
Barland Weatherstrip Material Co.: See—  
Barringer, Elmer D.  
Baron, H., & Co. Inc., Linden, N. J. 507,817, canc. Cl. 45.  
Barq's Inc., Biloxi, Miss. 611,500, pub. 5-24-55. Cl. 45.  
Barringer, Elmer D., d. b. a. Barland Weatherstrip Material Co., Cleveland, Ohio. 324,954-5, ren. 6-4-55. Cl. 12.  
Bartmann & Bixer, Inc., New York, N. Y. 508,006, canc. Cl. 42.  
Bauman & Stoll, Inc., New York, N. Y. 611,461, pub. 5-24-55. Cl. 39.  
Bell & Howell Co., Chicago, Ill. 507,809, canc. Cl. 26.  
Bell & Howell Co., Chicago, Ill. 507,951, canc. Cl. 26.  
Bella Products Co., Inc., Somerville, Mass. 611,595. Cl. 46.  
Bendix Aviation Corp., d. b. a. Eclipse-Pioneer Division, Teterboro, N. J. 611,426, pub. 5-24-55. Cl. 26.  
Bendix-Westinghouse Automotive Air Brake Co., Elyria, Ohio. 611,338, pub. 5-31-55. Cl. 19.  
Benjamin Electric Mfg. Co., Des Plaines, Ill. 611,345, pub. 5-31-55. Cl. 21.  
Bentley Bonnets: See—  
Bentley, Edward A.  
Bentley, Edward A., d. b. a. Bentley Bonnets, Chicago, Ill. 611,590. Cl. 39.  
Berbiglia, Inc., Kansas City, Mo. 611,536, pub. 5-24-55. Cl. 49.  
Berg, Hedstrom & Co., Inc., New York, N. Y., to Husqvarna Vapenfabriks Aktiebolag, Husqvarna, Sweden. 611,565. Cl. 13.  
Betts, C. A., Mfg. Co.: See—  
Betts, Chester A.  
Betts, Chester A., d. b. a. C. A. Betts Mfg. Co., Portland, Oreg. 522,631, canc. Cl. 31.  
Bickford, Albert G., to Door-Lift Co., Dayton, Ohio. 611,576. Cl. 21.  
Black, Charles A., d. b. a. B & M Mfg. Co., Jonesboro, Ga. 611,309, pub. 5-17-55. Cl. 13.  
Bleeker-Kahler Co., Nisswa, Minn., to Ski Antica, Inc. 611,368, pub. 7-6-54. Cl. 22.  
Bloomer Brewery, Inc., Bloomer, Wis. 380,108, canc. Cl. 48.  
Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. 611,330, pub. 5-31-55. Cl. 16.  
Boothe Fruit Co., Modesto, to Vacu-Dry Co., Oakland, Calif. 611,507, pub. 2-15-55. Cl. 46.  
Boyle-Midway Inc.: See—  
Midway Chemical Co.  
Bradford Machine Tool Co., The, Cincinnati, Ohio. 507,543, canc. Cl. 23.  
Brevitt Shoes Ltd., Leicester, England. 611,487, pub. 5-31-55. Cl. 39.  
Brown, John Clark, Inc., Belleville, N. J. 611,434, pub. 5-17-55. Cl. 32.  
Brown Shoe Co., Inc., Clayton, Mo. 327,841, ren. 9-3-55. Cl. 39.  
Buckbinder, Arnold, Los Angeles, Calif. 611,332, pub. 5-31-55. Cl. 16.  
Bulldog Electric Products Co., Detroit, Mich. 611,348, pub. 5-31-55. Cl. 21.  
Bureau of National Affairs, Inc., The, Washington, D. C. 508,021, canc. Cl. 38.  
Burgess Pigment Co., Sandersville, Ga. 611,271, pub. 5-24-55. Cl. 6.  
California Fruit Exchange, Sacramento, Calif. 434,598, canc. Cl. 46.  
California Growers Wineries, Cutler, Calif. 611,522, pub. 5-24-55. Cl. 47.  
Campbell, Harry T., Sons' Corp., Towson, Md. 611,562. Cl. 1.  
Capps, J., & Sons, Ltd., Jacksonville, Ill. 611,467, pub. 5-24-55. Cl. 39.  
Capsulube Co., The, Minneapolis, Minn. 611,256, pub. 5-24-55. Cl. 2.  
Cardinal Corp., The, Bradford, Pa. 611,583. Cl. 38.  
Carlisle Corp., Carlisle, Pa. 611,249, pub. 5-31-55. Cl. 1.  
Carlyle Industrial Corp., Brooklyn, N. Y. 611,296, pub. 5-31-55. Cl. 12.  
Carnegie Dock & Fuel Co., Minneapolis, Minn. 611,252, pub. 5-31-55. Cl. 1.  
Carney Co., Inc., The, Mankato, Minn. 611,291, pub. 5-31-55. Cl. 12.  
Caterers, Inc., Kansas City, Mo. 611,513, pub. 5-24-55. Cl. 46.  
Central Texas Iron Works, Waco, Tex. 611,303, pub. 5-31-55. Cl. 12.  
Century Engineering Corp., Cedar Rapids, Iowa. 507,833-4, canc. Cl. 34.  
Chemical Electronic Engineering, Inc., Matawan, N. J. 611,545, pub. 10-5-54. Cl. 52.  
Cherubino Petti & Co., Inc., Philadelphia, Pa. 436,509, canc. Cl. 39.  
Chicago Musical Instrument Co., Chicago, Ill. 328,690, ren. 10-3-55. Cl. 21.  
Childhood Interests, Inc., Roselle Park, N. J. 611,366-7, pub. 5-24-55. Cl. 22.  
China & Glass Distributors, Inc., New York, N. Y. 507,801, canc. Cl. 30.  
Chipman Knitting Mills, Easton, Pa. 611,589. Cl. 39.  
Chivas Brothers, to Chivas Brothers Ltd., Aberdeen, Scotland. 325,152, ren. 6-11-55. Cl. 49.



Chivas Brothers Ltd.: See—  
Chivas Brothers.  
Clark Equipment Co., Buchanan, Mich. 507,802, can. Cl. 19.  
Clark, Joseph S., Allendale, N. J. 507,813, can. Cl. 6.  
Clark-Wilcox Co., Boston, Mass. 611,397, pub. 5-24-55. Cl. 23.  
Club Aluminum Products Co., Chicago, Ill. 611,435, pub. 5-24-55. Cl. 33.  
Cole, J. W., Co., The, Rockford, to L. H. Korman, Chicago, Ill. 324,464, ren. 5-21-55. Cl. 18.  
Coleman Co., Inc., The, Wichita, Kans. 611,438, pub. 5-31-55. Cl. 34.  
Collier, R. T., Corp., Los Angeles, Calif. 611,431, pub. 5-31-55. Cl. 31.  
Compania des Destilerias Internacionales, Inc., Bayamon, P. R. 410,394, can. Cl. 49.  
Compass Instrument & Optical Co., Inc., New York, N. Y. 611,412-13, pub. 5-31-55. Cl. 26.  
Conkey, G. E., Co., The, Cleveland, Ohio. 379,270, can. Cl. 6.  
Consolidated Companies, Inc., New Orleans, La. 611,508, pub. 3-23-55. Cl. 46.  
Corporate Products Inc., Detroit, Mich. 415,799, can. Cl. 43.  
Corrao, Antonio, Corp., Brooklyn, N. Y. 611,520, pub. 5-24-55. Cl. 46.  
Cove Bay Tackle Co., Duluth, Minn. 611,382, pub. 5-24-55. Cl. 22.  
Cronstroms Mfg. Co.: See—  
Cronstroms Mfg., Inc.  
Cronstroms Mfg., Inc., d. b. a. Cronstroms Mfg. Co., Minneapolis, Minn. 611,374, pub. 5-24-55. Cl. 22.  
Crookham Co., Caldwell, Idaho. 357,033, can. Cl. 46.  
Crookham Co., Caldwell, Idaho. 363,439, can. Cl. 1.  
Cublette Sales Agency: See—  
Valenzuela, Franco.  
Cunningham, Thomas L., New York, N. Y. 322,942, 12(c) pub. 8-30-55. Cl. 16.  
Cycle Electronic Laboratories: See—  
Flagg, Theodore R.  
Cycle Transformer Corp.: See—  
Flagg, Theodore R.  
D-Con Co., Inc., The, Chicago, Ill. 611,267, pub. 6-9-53. Cl. 6.  
Daryl Products Corp., Miami, Fla. 611,293, pub. 5-31-55. Cl. 12.  
Daust, H., Mfg. Co., St. Louis, Mo. 611,457, pub. 5-24-55. Cl. 39.  
Dayton Fur Cleaning Co., The, Dayton, Ohio. 507,999, can. Cl. 55.  
Deacy Products Co., Cambridge, Mass. 325,370, ren. 6-18-55. Cl. 6.  
De Kuyper, John, & Son, Rotterdam, Netherlands, to John de Kuyper & Son, Inc., New York, N. Y. 325,795-6, ren. 7-2-55. Cl. 49.  
De Kuyper, John, & Son, Inc.: See—  
De Kuyper, John, & Son.  
De Kuyper, John, & Son, Inc., New York, N. Y. 611,532, pub. 5-24-55. Cl. 49.  
De Laval Steam Turbine Co., Trenton, N. J. 611,393, pub. 5-31-55. Cl. 23.  
Del Rio National Bank, Del Rio, Tex. 611,554, pub. 5-24-55. Cl. 102.  
Depuy Mfg. Co.: See—  
Leiter, H. Herschel.  
Detroit Dental Mfg. Co., by Kerr Mfg. Co., Detroit, Mich. 326,151, 12(c) pub. 8-30-55. Cl. 44.  
Diamond Alkali Co., Cleveland, Ohio. 611,283, pub. 5-24-55. Cl. 6.  
Distillers Co., Ltd., The, Linden, N. J. 330,081, ren. 11-19-55. Cl. 49.  
Dobratz, Robert E., d. b. a. Master Machine Tool Co., Plantsville, Conn. 611,403, pub. 5-24-55. Cl. 23.  
Dollfus-Mieg & Cie, Societe Anonyme, Mulhouse, France. 102,264, ren. 2-2-55. Cl. 4.  
Dollfus-Mieg & Cie, Societe Anonyme, Mulhouse, France. 102,265-6, ren. 2-2-55. Cl. 40.  
Dollfus-Mieg & Cie, Societe Anonyme, Mulhouse, France. 102,268-9, ren. 2-2-55. Cl. 40.  
Dominican Fathers, Province of St. Joseph, d. b. a. The Thomist Press, Baltimore, Md. 611,447, pub. 5-24-55. Cl. 38.  
Donnelley, Elliott: See—  
Douglass, Leon F., Jr.  
Door-Lift Co.: See—  
Bickford, Albert G.  
D'Orsay, Marcelle, d. b. a. Dorsay Products, New York, N. Y. 611,430, pub. 5-31-55. Cl. 28.  
Dorsay Products: See—  
D'Orsay, Marcelle.  
Douglass, Leon F., Jr., Hollywood, Calif., from E. Donnelley, d. b. a. Scale-Craft & Co. 507,762, can. Cl. 22.  
Drackett Co., The, Cincinnati, Ohio. 611,550, pub. 5-31-55. Cl. 52.  
Drouman Mfg. Co., Brooklyn, N. Y. 611,262, pub. 5-31-55. Cl. 3.  
Dumari Textile Co., Inc., New York, N. Y. 611,463-4, pub. 5-31-55. Cl. 39.  
Dumont Linen Corp., New York, N. Y. 507,994-5, can. Cl. 42.  
Dunbar, John, & Co. Ltd., London, England. 312,570, ren. 5-1-54. Cl. 49.  
Du Pont, E. I. de Nemours and Co.: See—  
Du Pont Rayon Co.  
Du Pont, E. I. de Nemours and Co., Wilmington, Del. 324,713, 12(c) pub. 8-30-55. Cl. 9.  
Du Pont, E. I. de Nemours & Co., Wilmington, Del. 611,278, pub. 5-17-55. Cl. 6.

Du Pont Rayon Co., Buffalo, N. Y., by E. I. du Pont de Nemours and Co., Wilmington, Del. 326,327, 12(c) pub. 8-30-55. Cl. 43.  
Duro-Test Corp., North Bergen, N. J. 323,905, 12(c) pub. 8-30-55. Cl. 21.  
Eagle Clothes, Inc., Brooklyn, N. Y. 611,468, pub. 5-24-55. Cl. 39.  
Eagle Clothes, Inc., Brooklyn, N. Y. 611,478, pub. 5-31-55. Cl. 39.  
Eastern Industries, Inc., East Norwalk, Conn. 611,343, pub. 5-31-55. Cl. 21.  
Eclipse-Pioneer Division: See—  
Bendix Aviation Corp.  
Eisenberg-Lozano, Inc., New York, N. Y. 611,394, pub. 5-31-55. Cl. 23.  
Electric Household Utilities Corp., Cicero, Ill. 332,901, can. Cl. 24.  
Electro Refractories & Abrasives Corp., Buffalo, N. Y. 611,264, pub. 4-13-54. Cl. 4.  
Electronic Products Co. Ltd., Vancouver, British Columbia, Canada. 611,344, pub. 1-18-55. Cl. 21.  
Elgood, E. J., Ltd., London, England. 611,295, pub. 5-31-55. Cl. 12.  
Elm Farm Foods Co., Boston, Mass. 611,289, pub. 5-24-55. Cl. 6.  
Emerson, Thomas, Chicago, Ill. 547,000, can. Cl. 46.  
Epoxyllite Corp., The: See—  
American Insulating Materials Co.  
Ernest Sohn Creations, Inc., New York, N. Y. 611,567. Cl. 13.  
Esack Mfg. Co., Los Angeles, Calif. 611,401, pub. 5-24-55. Cl. 23.  
Estral Biochemical Laboratories: See—  
Goldman, Leon.  
Etivisa, a nursery & Vineyards, Cucamonga, Calif. 507,775, can. Cl. 47.  
Eureka Specialty Printing Co., Scranton, Pa. 611,444, pub. 5-31-55. Cl. 38.  
Expert Industries, Inc., Grand Rapids, Mich. 507,875, can. Cl. 26.  
Fairchild Industries, Division of Fairchild Camera and Instrument Corp., Burlington, Vt. 611,346, pub. 5-17-55. Cl. 21.  
Farley & Loetscher Mfg. Co., Dubuque, Iowa. 611,307, pub. 5-31-55. Cl. 12.  
Faasweet Co., The: See—  
Spellings, Lucian L.  
Fee & Stemwedel, Inc., Chicago, Ill. 507,852, can. Cl. 26.  
Felmlee, J. T., Lewiston, Pa. 611,391, pub. 5-31-55. Cl. 22.  
Fenton, Charles F., d. b. a. Fenton Co., New York, N. Y. 611,353, pub. 5-17-55. Cl. 21.  
Fenton Co.: See—  
Fenton, Charles F.  
Field, H., & Sons, Chicago, Ill. 611,258, pub. 5-24-55. Cl. 2.  
Fisher-Price Toys, Inc., East Aurora, N. Y. 611,383, pub. 5-24-55. Cl. 22.  
Flagg, Theodore R., d. b. a. Cycle Electronic Laboratories, to Cycle Transformer Corp., East Orange, N. J. 611,575. Cl. 21.  
Foster, Charles, & Co., Inc., New York, N. Y. 507,861, can. Cl. 26.  
Freeman, Gilbert, Inc., Boston, Mass. 611,591. Cl. 42.  
Freezermat Co.: See—  
Sechrist, George A.  
Friden Calculating Machine Co., Inc., San Leandro, Calif. 611,409, pub. 5-31-55. Cl. 26.  
Furane Plastics: See—  
Furane Plastics, Inc.  
Furane Plastics, Inc., d. b. a. Furane Plastics, Los Angeles, Calif. 611,326, pub. 5-31-55. Cl. 16.  
Gandrud, E. S., Co., Owatonna, Minn. 611,404, pub. 5-24-55. Cl. 23.  
Garcia & Maggini Co., San Francisco, Calif. 247,011, can. Cl. 46.  
General Aniline & Film Corp., New York, N. Y. 611,287, pub. 5-24-55. Cl. 6.  
General Aniline & Film Corp., New York, N. Y. 611,415, pub. 5-31-55. Cl. 26.  
General Electric Co., Schenectady, N. Y. 611,419, pub. 5-24-55. Cl. 26.  
General Machine Co., Inc., Emmaus, Pa. 507,850, can. Cl. 34.  
Genesee Brewing Co., Inc., The, Rochester, N. Y. 611,528, pub. 5-31-55. Cl. 48.  
Gibson, Dorothy, Perfumes Corp., Brooklyn, N. Y. 507,921, can. Cl. 6.  
Gilmore & Nolan, Inc., Los Angeles, Calif. 611,331, pub. 5-31-55. Cl. 16.  
Gladding, B. F., & Co., Inc., South Otselec, N. Y. 611,384, pub. 5-24-55. Cl. 22.  
Glazer, Max, d. b. a. Real Juice Co., Dallas, Tex. 330,012, can. Cl. 45.  
Gidden Co., The, Cleveland, Ohio. 507,935, can. Cl. 6.  
Goldberg, Joseph, & Sons, Inc., Paterson, N. J. 520,111, can. Cl. 39.  
Goldberg, Nat D., d. b. a. Sanwet Distilling Co., Not Inc., Chicago, Ill. 328,464, can. Cl. 49.  
Golde Mfg. Co., Chicago, Ill. 507,904, can. Cl. 26.  
Golden Girl Frocks, Inc., New York, N. Y. 611,466, pub. 5-24-55. Cl. 39.  
Goldman, Leon, d. b. a. Estral Biochemical Laboratories, Jamaica, N. Y. 611,272, pub. 5-24-55. Cl. 6.  
Goodman, Alan D., d. b. a. Goodman Metal Products Co., Van Nuys, Calif. 611,318, pub. 5-31-55. Cl. 13.  
Goodman Metal Products Co.: See—  
Goodman, Alan D.  
Goodstein Bros. & Co., Inc., New York, N. Y. 611,477, pub. 5-31-55. Cl. 39.  
Gordon, Wolf, Cowen Co., Inc., New York, N. Y. 507,798, can. Cl. 46.

Graflex, Inc., Rochester, N. Y. 611,427, pub. 5-24-55. Cl. 26.  
Grapette Co., The, Camden, Ark. 611,501-4, pub. 5-31-55. Cl. 45.  
Gunther Wagner, Hanover, Germany. 611,290, pub. 5-31-55. Cl. 11.  
Hack Shoe Co., Detroit, Mich. 611,587. Cl. 39.  
Hagan Corp., Pittsburgh, Pa. 611,410, pub. 4-12-55. Cl. 26.  
Hafre Publishing Co., Inc., The, New York, N. Y. 327,983, 12(c) pub. 8-30-55. Cl. 38.  
Hall, C. P., Co., The, Akron, Ohio. 611,266, pub. 9-28-48. Cl. 6.  
Hamilton & Co., Los Angeles, Calif. 372,830, can. Cl. 46.  
Hamilton Metal Products Co., The, Hamilton, Ohio. 611,285, pub. 5-24-55. Cl. 6.  
Handal, S., & Sons, Inc., New York, N. Y. 507,872, can. Cl. 42.  
Harlequin Corp., The, New York, N. Y. 507,960, can. Cl. 26.  
Harlingen Canning Co., Corpus Christi, Tex. 611,499, pub. 5-31-55. Cl. 45.  
Harris Granite Quarries Co., Salisbury, N. C. 611,243, pub. 5-31-55. Cl. 1.  
Harrison Steel Corp., Brooklyn, N. Y. 611,316, pub. 5-17-55. Cl. 13.  
Harvard Brewing Co., Lowell, Mass. 611,530, pub. 5-31-55. Cl. 48.  
Hastings, Earle G., Jr., d. b. a. Hasty-Bake Mfg. Co., Tulsa, Okla. 611,442, pub. 5-31-55. Cl. 34.  
Hasty-Bake Mfg. Co.: See—  
Hastings, Earle G., Jr.  
Hatton Coal Co., Columbus, Ohio. 507,909, can. Cl. 1.  
Havens & Martin, Inc., operating stations WMBG and WTVR, Richmond, Va. 611,558, pub. 5-24-55. Cl. 103.  
Havre de Grace Hosiery Mills, Inc., The, Havre de Grace, Md. 611,486, pub. 5-31-55. Cl. 39.  
Haynes, Joseph E., d. b. a. Wedge Seal Co., Baltimore, Md. 611,308, pub. 5-3-55. Cl. 13.  
Haystack Corp., Albion, Pa. 611,304, pub. 5-31-55. Cl. 12.  
Hearst Corp., The: See—  
King Features Syndicate, Inc.  
Helco, Inc., Stroudsburg, Pa. 611,288, pub. 5-17-55. Cl. 6.  
Hemet Mutual Groves, Hemet, Calif. 388,447, can. Cl. 46.  
Hemet Mutual Groves, Hemet, Calif. 388,891, can. Cl. 46.  
Hermes Plastics, Inc., New York, N. Y. 611,537, pub. 4-26-55. Cl. 50.  
Hershey Chocolate Corp., Hershey, Pa. 611,521, pub. 5-24-55. Cl. 46.  
Highland Fruit Growers Association, Highland, Calif. 379,570, can. Cl. 46.  
Hilltop Laboratories, Inc., Minneapolis, Minn. 611,274, pub. 11-18-54. Cl. 6.  
Hi-Shear River Tool Co., Los Angeles, Calif. 611,568. Cl. 13.  
Hobbs Mfg. Co., San Antonio and Fort Worth, Tex. 507,932, can. Cl. 19.  
Hockaday, Inc., Chicago, Ill. 436,212, can. Cl. 4.  
Hoffmann's Starkefabriken Aktiengesellschaft, Bad Salzungen, Lippe, Germany. 611,270, pub. 5-24-55. Cl. 6.  
Holloway, Albert F., d. b. a. Olin Mfg. Co., Oakland, Calif. 611,596. Cl. 46.  
Hollywood-Maxwell Co., Los Angeles, Calif. 611,459, pub. 5-24-55. Cl. 39.  
Hornis Co.: See—  
Shemanski, Joseph.  
Housing Research Corp., Boston, Mass. 436,663, can. Cl. 12.  
Houston Technical Laboratories, Houston, Tex. 611,418, pub. 5-24-55. Cl. 26.  
Huber, J. M., Corp., Locust, N. J., and New York, N. Y. 507,849, can. Cl. 6.  
Hudson, H. D., Mfg. Co., Chicago, Ill. 611,254, pub. 5-24-55. Cl. 2.  
Huppert, K. H., Co., Chicago, Ill. 611,574. Cl. 21.  
Husquarna Vapenfabriks Aktiebolag: See—  
Berg, Helstrom & Co., Inc.  
Insta-Freeze Corp., San Francisco, Calif. 380,943, can. Cl. 31.  
Institut voor Marktverkenning: See—  
Nederlands Instituut voor de Publieke Opinie.  
International Model Aircraft Ltd., London, England. 611,390, pub. 5-31-55. Cl. 22.  
International Shoe Co., St. Louis, Mo. 611,482, pub. 5-24-55. Cl. 39.  
Iowa State Brand Creameries Association, Mason City, Iowa. 259,294, can. Cl. 46.  
Iron-Hide Sales Co., Matawan, N. J. 611,439, pub. 5-31-55. Cl. 34.  
Irwindale Citrus Assn., Irwindale, Calif. 110,748, can. Cl. 46.  
Irwindale Citrus Assn., Irwindale, Calif. 111,639, can. Cl. 46.  
Irwindale Citrus Assn., Irwindale, Calif. 355,786, can. Cl. 46.  
Jackson & Jackson, Inc., Tryon, N. C. 508,023, can. Cl. 42.  
Jamieson Pharmacal Co., Detroit, Mich. 507,780, can. Cl. 6.  
Jefferson Standard Life Insurance Co., Greensboro, N. C. 611,555, pub. 5-24-55. Cl. 102.  
Jensen, Charles A., Pasadena, Calif. 329,772, ren. 11-12-55. Cl. 12.  
Jiffy Mfg. Co., Hillside, N. J. 611,580. Cl. 37.  
Johnson Corp., The, Three Rivers, Mich. 611,352, pub. 5-31-55. Cl. 21.  
Johnson, Darrell M., Thomson, Ga. 611,581. Cl. 37.  
Johnson, J. Oliver, Seed Co.: See—  
Johnson, John O.  
Johnson, John O., to J. Oliver Johnson Seed Co., Chicago, Ill. 105,269, ren. 7-13-55. Cl. 1.  
Johnson, John O., to J. Oliver Johnson Seed Co., Chicago, Ill. 105,596, ren. 8-10-55. Cl. 1.

Johnson, John O., to J. Oliver Johnson Seed Co., Chicago, Ill. 105,897, ren. 8-24-55. Cl. 1.  
Johnson & Johnson, New Brunswick, N. J. 507,965, can. Cl. 44.  
Johnson, Patricia M., Cedar Falls, Iowa. 611,454, pub. 5-31-55. Cl. 38.  
Jones & Naudin Co., Gloversville, N. Y. 611,248, pub. 5-31-55. Cl. 1.  
K & L Auto Upholstering Co., Washington, D. C. 507,963, can. Cl. 19.  
Kaddy-King, Inc., Renton, Wash. 507,845, can. Cl. 19.  
Kampf, Charles A., d. b. a. Admired Laboratories, San Francisco, Calif. 611,543, pub. 5-24-55. Cl. 51.  
Kay Electric Co., Pine Brook, N. J. 611,411, pub. 5-24-55. Cl. 26.  
Keiser, James R., Inc., New York, N. Y. 70,536, can. Cl. 39 and 40.  
Keiser, James R., Inc., New York, N. Y. 74,613, can. Cl. 39.  
Keiser, James R., Inc., New York, N. Y. 126,026, can. Cl. 39.  
Kellogg Co., Battle Creek, Mich. 611,378, pub. 5-24-55. Cl. 22.  
Kendall Co., The, Walpole, Mass. 611,488, pub. 5-24-55. Cl. 39.  
Kerr Mfg. Co.: See—  
Detroit Dental Mfg. Co.  
Kilgore Mfg. Co., The: See—  
American Pullmatch Corp.  
King Features Syndicate, Inc., to The Hearst Corp., New York, N. Y. 323,349, ren. 4-9-55. Cl. 38.  
King Publications, Inc., San Francisco, Calif. 611,585. Cl. 38.  
King, Robert J., Co., Inc., The, Norwalk, Conn. 329,694, ren. 11-5-55. Cl. 6.  
Kinsella, James D., East Chicago, Ind. 611,597. Cl. 46.  
Knapway Devices, Inc., Kansas City, Mo. 422,720, can. Cl. 2.  
Knapway Devices, Inc., Kansas City, Mo. 424,500, can. Cl. 23.  
Kono Mfg. Co., The, Woodside, N. Y. 507,948-9, can. Cl. 26.  
Korman, Lorraine H.: See—  
Cole, J. W., Co., The.  
Kuhn, Blum & Co., Inc., Philadelphia, Pa. 507,929, can. Cl. 42.  
L-O-F Glass Fibers Co.: See—  
Libbey-Owens-Ford Glass Co.  
Laganas, Chris, Shoe Co., Lowell, Mass. 611,471, pub. 5-24-55. Cl. 39.  
Lane Bryant, Inc., New York, N. Y. 328,703, 12(c) pub. 8-30-55. Cl. 39.  
Langley Corp., San Diego, Calif. 611,379, pub. 5-24-55. Cl. 22.  
Larsen Products Corp., Bethesda, Md. 611,265, pub. 2-22-55. Cl. 5.  
Leiter, H. Herschel, d. b. a. Depuy Mfg. Co., Warsaw, Ind. 507,788, can. Cl. 44.  
Lentheric, Inc., to Lentheric, Inc., New York, N. Y. 611,540, pub. 6-7-55. Cl. 51.  
Lentheric, Inc., to Lentheric, Inc., New York, N. Y. 611,541, pub. 5-31-55. Cl. 51.  
Lensen, Kent A., & Son Co., Inc., Greencastle, Ind. 507,771, can. Cl. 6.  
Le Roi Hosiery Co., Inc., New York, N. Y. 611,473, pub. 5-24-55. Cl. 39.  
Le Sage Co., Dallas, Tex. 507,889, can. Cl. 49.  
Libbey-Owens-Ford Glass Co., to L-O-F Glass Fibers Co., Toledo, Ohio. 611,323, pub. 5-31-55. Cl. 16.  
Lindstaedt & King, San Anselmo, Calif. 507,952, can. Cl. 34.  
Lined Oil Products Co., Alhambra, Calif. 611,324, pub. 5-31-55. Cl. 16.  
Lith-O-Ware Products, Inc., Chicago, Ill. 611,376, pub. 5-24-55. Cl. 22.  
Locker Management, Inc.: See—  
Meat Merchandising, Inc.  
Loesch Hair Experts: See—  
Loesch, W. T.  
Loesch, W. T., d. b. a. Loesch Hair Experts, Houston, Tex. 611,572. Cl. 18.  
Lombardy Dresses Inc., New York, N. Y. 611,474, pub. 5-31-55. Cl. 39.  
Lubri-Loy Co., The, St. Louis, Mo. 611,569. Cl. 15.  
Mackenzie, P., & Co. Distillers Ltd., Perth, Scotland. 611,533, pub. 5-24-55. Cl. 49.  
Mac Marie, Inc., New York, N. Y. 611,371, pub. 5-31-55. Cl. 22.  
Magic Maid Laboratories: See—  
Wilkes, Frederic.  
Magna Co., The, St. Louis, Mo. 507,968, can. Cl. 26.  
Malden Form Brassiere Co., Inc., New York, N. Y. 611,453, pub. 5-31-55. Cl. 38.  
Major Distributing Co., Salinas, Calif. 329,125, ren. 10-15-55. Cl. 46.  
Mallinckrodt Chemical Works, St. Louis, Mo. 508,013, can. Cl. 6.  
Mangels, Arthur C., Industries, Inc., Philadelphia, Pa. 611,325, pub. 5-31-55. Cl. 16.  
Marland, Richard W., d. b. a. Pikes Peak Sales Co., Los Angeles, Calif. 611,529, pub. 5-24-55. Cl. 48.  
Marley Co., The, Kansas City, Mo. 611,432, pub. 5-31-55. Cl. 31.  
Martens Chemical Corp., Kingston, N. Y. 611,282, pub. 5-24-55. Cl. 6.  
Master Lock Co., Milwaukee, Wis. 611,577. Cl. 25.  
Master Machine Tool Co.: See—  
Dobratz, Robert E.  
Mastic Tile Corp.: See—  
Mastic Tile Corp. of America, The.



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Mastic Tile Corp. of America, The, d. b. a. Mastic Tile Corp., Newburgh, N. Y. 611,299, pub. 5-31-55. Cl. 12.  
 Matey Co., Inc., The, New York, N. Y. 507,890, can. Cl. 45.  
 McCleery, Daniel R., Alma, Nebr. 507,862, can. Cl. 45.  
 McCormick Distilling Co., Weston, Mo. 611,534, pub. 5-24-55. Cl. 49.  
 McCutcheon, James, & Co., New York, N. Y. 324,935, ren. 6-4-55. Cl. 41.  
 McKellips Mutual Citrus Growers, Inc., Mesa, Ariz. 366,123, can. Cl. 46.  
 Meat Merchandising, Inc., to Locker Management, Inc., St. Louis, Mo. 508,019, can. Cl. 38.  
 Mellor, W. L., d. b. a. W. L. Mellor Co., Kansas City, Mo. 611,458, pub. 5-31-55. Cl. 39.  
 Mellor, W. L., Co.: See—  
 Mellor, W. L.  
 Menasha Products Co., Menasha, Wis. 386,991, can. Cl. 37.  
 Merck & Co., Inc., Rahway, N. J. 611,276, pub. 5-17-55. Cl. 8.  
 Mercury International Mfg. Corp., Waverly, Calif. 611,392, pub. 5-24-55. Cl. 23.  
 Meredith Publishing Co., Des Moines, Iowa. 611,456, pub. 5-24-55. Cl. 38.  
 Merit Packing Co., Salinas, Calif. 611,514, pub. 5-24-55. Cl. 46.  
 Merry Mfg. Co., Cincinnati, Ohio. 611,372, pub. 5-24-55. Cl. 22.  
 Metolco Corp., Los Angeles, Calif. 611,319, pub. 5-31-55. Cl. 15.  
 Metropolitan Cigar Corp., Chicago, Ill. 329,926, ren. 11-19-55. Cl. 17.  
 Microlex Corp., Rochester, N. Y. 611,416, pub. 5-24-55. Cl. 26.  
 Mid-Continental Laboratories: See—  
 Wilhelm, George.  
 Middlesex Wholesale Grocery Co., Highland Park, N. J. 507,991, can. Cl. 46.  
 Midway Chemical Co., Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. 330,330, ren. 11-26-55. Cl. 23.  
 Miller, H. T., Co., New York, N. Y. 507,981, can. Cl. 42.  
 Moduwall, Inc., New York, N. Y. 611,298, pub. 5-31-55. Cl. 12.  
 Monark Silver King, Inc., Chicago, Ill. 611,396, pub. 5-31-55. Cl. 23.  
 Moorman Mfg. Co., Quincy, Ill. 508,007, can. Cl. 38.  
 Morrison-Pelsue Co., Denver, Colo. 611,440, pub. 5-31-55. Cl. 34.  
 Motold Co., Inc., The, Chicago, Ill. 433,803, can. Cl. 44.  
 Motyer & Clement (Proprietary) Ltd., East London, Union of South Africa. 611,506, pub. 5-31-55. Cl. 45.  
 Moussec Ltd., London, England. 304,963, can. Cl. 47.  
 Murr, Milton, d. b. a. Murr Outdoor Products Co., Chicago, Ill. 611,375, pub. 5-31-55. Cl. 22.  
 Murr Outdoor Products Co.: See—  
 Murr, Milton.  
 Mutual Products Co.: See—  
 Winslow, Carmi.  
 National Aluminate Corp., Chicago, Ill. 611,279, pub. 5-24-55. Cl. 6.  
 National Cash Register Co., The, Dayton, Ohio. 611,424-5, pub. 5-24-55. Cl. 26.  
 National Petro-Chemicals Corp., New York, N. Y. 611,277, pub. 5-24-55. Cl. 6.  
 Nederlands Instituut voor de Publieke Opinie, also d. b. a. Instituut voor Marktverkenning, Amsterdam, Holland. 611,455, pub. 5-31-55. Cl. 38.  
 Nesco, Division of New York Shipbuilding Corp.: See—  
 New York Shipbuilding Corp.  
 Nestle-Le Mur Co., The, New York, N. Y. 611,549, pub. 5-31-55. Cl. 52.  
 Newberry, J. J., Co., New York, N. Y. 611,462, pub. 5-31-55. Cl. 39.  
 New England Mica Co., Waltham, Mass. 417,536, can. Cl. 21.  
 New Process Chemical Co., Inc., San Francisco, Calif. 611,547, pub. 5-31-55. Cl. 52.  
 News Syndicate Co., Inc., New York, N. Y. 611,445, pub. 5-31-55. Cl. 38.  
 New York Air Brake Co., The, New York, N. Y. 611,398, pub. 5-31-55. Cl. 23.  
 New York Drug Concern: See—  
 Parodney, Abraham.  
 New York Herald Tribune Inc., New York, N. Y. 611,446, pub. 5-24-55. Cl. 38.  
 New York Shipbuilding Corp., d. b. a. Nesco, Division of New York Shipbuilding Corp., Milwaukee, Wis. 611,261, pub. 5-31-55. Cl. 2.  
 Nichols Wire & Aluminum Co., Davenport, Iowa. 611,365, pub. 5-24-55. Cl. 21.  
 Niedner's, Chas., Sons Co., Malden, Mass. 328,363, ren. 9-24-55. Cl. 35.  
 Nilsson Gage Co., Inc., Poughkeepsie, N. Y. 611,417, pub. 5-24-55. Cl. 26.  
 Normandle Bedspread Co., New York, N. Y. 611,494, pub. 5-31-55. Cl. 42.  
 Northrop Aircraft, Inc., Hawthorne, Calif. 611,339, pub. 5-31-55. Cl. 19.  
 Northrop Hendy Co., Hawthorne, Calif. 438,180, can. Cl. 23.  
 North State Canning Co., Inc., Boone, N. C. 507,839, can. Cl. 46.  
 Nye-Walt Co., Inc., Auburn, N. Y. 611,498, pub. 5-24-55. Cl. 42.  
 Oconee Clay Products Co., Milledgeville, Ga. 611,305, pub. 5-31-55. Cl. 12.  
 O'Connor & Goldberg, Chicago, Ill. 324,963, ren. 6-4-55. Cl. 39.  
 Odeon Theatres Ltd., London, England. 423,944, can. Cl. 46.  
 Ohio Brass Co., The, Mansfield, Ohio. 611,311, pub. 5-31-55. Cl. 13.  
 Old Empire Mfg. Chemists, Inc., d. b. a. Elizabeth Whitney, Newark, N. J. 611,538, pub. 7-21-53. Cl. 51.  
 Old Quaker Co., The, Lawrenceburg, Ind. 318,155, can. Cl. 49.  
 Olin Mfg. Co.: See—  
 Holloway, Albert F.  
 Oneida Community, Ltd., Oneida, N. Y. 239,925, can. Cl. 2.  
 Optics Mfg. Corp., Chicago, Ill. 611,421, pub. 5-24-55. Cl. 26.  
 Oriental Tea & Coffee Co., Boston, Mass. 242,426, can. Cl. 46.  
 Orkin Exterminating Co., Inc., Atlanta, Ga. 611,556, pub. 5-24-55. Cl. 103.  
 Osborn, C. D., Co., Chicago, Ill. 429,538, can. Cl. 39.  
 Oscap Mfg. Co., Inc., Baltimore, Md. 507,847, can. Cl. 28.  
 Oxnard Cannery, Inc., Monterey, Calif. 401,289, can. Cl. 46.  
 Pacific Electric Co.: See—  
 Schott, Arnold.  
 Pacific Fruit & Produce Co., to Pacific Gamble Robinson Co., Seattle, Wash. 326,805, ren. 8-6-55. Cl. 46.  
 Pacific Gamble Robinson Co.: See—  
 Pacific Fruit & Produce Co.  
 Pacific Paint & Varnish Co., Berkeley, Calif. 611,329, pub. 5-31-55. Cl. 16.  
 Packard-Bell Co., Los Angeles, Calif. 611,359, pub. 5-17-55. Cl. 21.  
 Paraffine Companies, Inc., The, San Francisco, Calif. 166,382, can. Cl. 16.  
 Parents' Institute, Inc., The, New York, N. Y. 611,449, pub. 5-24-55. Cl. 38.  
 Park & Tilford Distillers Corp.: See—  
 Park & Tilford Distillers, Inc.  
 Park & Tilford Distillers, Inc., to Park & Tilford Distillers Corp., New York, N. Y. 329,572-3, ren. 11-5-55. Cl. 49.  
 Parkersburg Steel Co., The, Parkersburg, W. Va. 611,310, pub. 5-31-55. Cl. 13.  
 Parking Corp. of America, Chicago, Ill. 611,362, pub. 5-31-55. Cl. 21.  
 Parodney, Abraham, d. b. a. New York Drug Concern, to Whitehall Pharmaceutical Co., New York, N. Y. 330,310, ren. 11-26-55. Cl. 18.  
 Parritt, Charles W.: See—  
 American Pullmatch Corp.  
 Peck, Samuel, New York, N. Y. 611,465, pub. 5-24-55. Cl. 39.  
 Pennsylvania Salt Mfg. Co., The, Philadelphia, Pa. 611,297, pub. 5-31-55. Cl. 12.  
 Peoples Bank and Trust Co., Cedar Rapids, Iowa. 611,553, pub. 5-24-55. Cl. 102.  
 Peguea Fishing Tackle, Inc., Strasburg, Pa. 611,388-9, pub. 5-31-55. Cl. 22.  
 Permanente Metals Corp., The, Oakland, Calif. 435,340, can. Cl. 10.  
 Petite Foods Corp., Brooklyn, N. Y. 611,517, pub. 5-31-55. Cl. 46.  
 Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. 69,777, can. Cl. 46.  
 Phantom Pirate, Inc., Saginaw, Mich. 611,561, pub. 5-24-55. Cl. 107.  
 Phillips Products, Inc., Cleveland, Ohio. 611,269, pub. 5-17-55. Cl. 6.  
 Phoenix Candy Co., Inc., Brooklyn, N. Y. 611,512, pub. 5-24-55. Cl. 46.  
 Pickard & Burns, Inc., N. dham, Mass. 611,355, pub. 5-31-55. Cl. 21.  
 Piedmont Shirt Co., Greenville, S. C. 611,475, pub. 5-31-55. Cl. 39.  
 Piggly Wiggly Sims Stores, Inc.: See—  
 Tanner-Brice Co.  
 Pikes Peak Sales Co.: See—  
 Marland, Richard W.  
 Pittsburgh and Shawmut Coal Co., Kittanning, Pa. 611,245-7, pub. 5-31-55. Cl. 1.  
 Platt Luggage, Inc., Chicago, Ill. 611,263, pub. 5-31-55. Cl. 3.  
 Portable Electric Tools, Inc., Chicago, Ill. 611,557, pub. 5-24-55. Cl. 103.  
 Portland Gas & Coke Co., Portland, Oreg. 334,118, can. Cl. 6.  
 Porto-Slight Co., Inc., Kansas City, Mo. 507,864, can. Cl. 26.  
 Potato Specialties, Inc., Chicago, Ill. 611,511, pub. 5-24-55. Cl. 46.  
 Powell, William, Co., The, Cincinnati, Ohio. 611,317, pub. 5-17-55. Cl. 13.  
 Pressteel Co., Berkeley, Calif. 611,341, pub. 5-31-55. Cl. 21.  
 Pritchard, J. F., & Co., Kansas City, Mo. 507,901, can. Cl. 34.  
 Procter & Gamble Co., The: See—  
 Rayette, Inc.  
 Progress Lithographing Co., The, Cincinnati, Ohio. 611,582. Cl. 37.  
 Protecto Wrap Co., Denver, Colo. 611,333, pub. 5-31-55. Cl. 16.  
 Puerto Rico Distilling Co., Arecibo and San Juan, P. R. 327,131-2, ren. 8-20-55. Cl. 49.  
 Puerto Rico Distilling Co., Arecibo and San Juan, P. R. 327,538, ren. 8-27-55. Cl. 49.  
 Puerto Rico Distilling Co., Arecibo and San Juan, P. R. 327,580, ren. 8-27-55. Cl. 49.  
 Puerto Rico Distilling Co., Arecibo and San Juan, P. R. 328,348, ren. 9-24-55. Cl. 49.  
 Ralston Purina Co., St. Louis, Mo. 611,593. Cl. 46.  
 Raven Coals, Inc., Beckley, W. Va. 507,910, can. Cl. 1.  
 Rayette, Inc., St. Paul, Minn., to The Procter & Gamble Co., Cincinnati, Ohio. 611,539, pub. 5-24-55. Cl. 51.

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Real Juice Co.: See—  
 Glazer, Max.  
 Redl-Foods, Inc., Columbus, Ohio. 611,594. Cl. 46.  
 Red Rock Co., The, Atlanta, Ga. 611,505, pub. 5-24-55. Cl. 45.  
 Regal Stores, Inc., Indianapolis, Ind. 611,510, pub. 5-24-55. Cl. 46.  
 Reilly Equipment Sales Co.: See—  
 Reilly, Michael P.  
 Reilly, Michael P., d. b. a. Reilly Equipment Sales Co., Milwaukee, Wis. 508,016, can. Cl. 6.  
 Reinfeld, Joseph H., Inc., Newark, N. J. 330,111, ren. 11-19-55. Cl. 48.  
 Reizes, Harry N., d. b. a. The Audio Fair, New York, N. Y. 611,599. Cl. 101.  
 Reserve Research Co., The, Cleveland, Ohio. 392,385, can. Cl. 6.  
 Reserve Research Co., The, Cleveland, Ohio. 417,116, can. Cl. 6.  
 Rhu-Mart Drug Co., Inc., Newark, N. J. 611,334, pub. 5-24-55. Cl. 18.  
 Richardson, Sid, Carbon Co., Fort Worth, Tex. 611,286, pub. 5-31-55. Cl. 6.  
 Richey & Gilbert Co., Yakima, Wash. 611,509, pub. 5-24-55. Cl. 46.  
 Rich's, Inc., Atlanta, Ga. 611,460, pub. 5-31-55. Cl. 39.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 126,960, can. Cl. 26.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 127,245, can. Cl. 23.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 127,489, can. Cl. 4.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 127,492, can. Cl. 50.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 127,672, can. Cl. 34.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 128,502, can. Cl. 32.  
 Ridgely Trimmer Co., The, Springfield, Ohio. 231,912, can. Cl. 23.  
 Riegel Paper Corp., New York, N. Y. 327,518, 12(c) pub. 8-30-55. Cl. 37.  
 Rock Island Millwork Co., Rock Island, Ill. 611,301, pub. 5-31-55. Cl. 12.  
 Rock-Tred Corp., Skokie, Ill. 611,322, pub. 5-31-55. Cl. 16.  
 Roger Rubber Products, Inc., Los Angeles, Calif. 507,880, can. Cl. 44.  
 Rosenzweig, William, New York, N. Y. 611,476, pub. 5-31-55. Cl. 39.  
 Rosenthal, Erwin, & Co., New York, N. Y. 431,253, can. Cl. 27.  
 Rothchild & Sons, Inc., Kansas City, Mo. 248,081, can. Cl. 39.  
 Royal Star Hosiery Co., Chicago, Ill. 434,304, can. Cl. 39.  
 Rush, Fred W., d. b. a. Fred W. Rush Co., Los Angeles, Calif. 395,932-3, can. Cl. 46.  
 Rush, Fred W., Co.: See—  
 Rush, Fred W.  
 Rutgerwerke-Aktiengesellschaft, Frankfurt am Main, Germany. 611,294, pub. 5-31-55. Cl. 12.  
 S. P. Az. Strega Alberti Benevento (S. A. B.), Benevento, Italy. 613,690, ren. 6-5-54. Cl. 49.  
 St. John Hardware & Implement Co., St. John, Wash. 611,381, pub. 5-24-55. Cl. 22.  
 Saks & Co., New York, N. Y. 611,480-1, pub. 5-31-55. Cl. 39.  
 Saks & Co., New York, N. Y. 611,490, pub. 5-31-55. Cl. 39.  
 San Fernando Fruit Growers Assn., San Fernando, Calif. 427,011, can. Cl. 46.  
 Sawyer's Inc., Portland, Oreg. 611,422, pub. 5-24-55. Cl. 26.  
 Scale-Craft & Co.: See—  
 Douglass, Leon F., Jr.  
 Schott, Arnold, d. b. a. Pacific Electric Co., Los Angeles, Calif. 611,347, pub. 5-31-55. Cl. 21.  
 Schreiber, A. H., Co., Inc., New York, N. Y. 611,492-3, pub. 5-31-55. Cl. 39.  
 Schulmerich Carillons, Inc.: See—  
 Schulmerich Electronics, Inc.  
 Schulmerich Electronics, Inc., to Schulmerich Carillons, Inc., Sellersville, Pa. 611,351, pub. 5-31-55. Cl. 21.  
 Scott Enterprises: See—  
 Scott, Patricia, Inc.  
 Scott, Patricia, Inc., d. b. a. Scott Enterprises, New York, N. Y. 611,483, pub. 5-24-55. Cl. 39.  
 Seal-A-Tube Products, Inc., Roxbury, Mass. 611,579. Cl. 35.  
 Sealectro Corp., New Rochelle, N. Y. 611,361, pub. 5-31-55. Cl. 21.  
 Seal-Peel, Inc., New York, N. Y. 611,321, pub. 5-31-55. Cl. 16.  
 Sechrist, George A., d. b. a. Freealarm Co., Dayton, Ohio. 508,005, can. Cl. 26.  
 Sharp & Dohme, Inc., Philadelphia, Pa. 507,977, can. Cl. 6.  
 Shaw, Munson G., Co., Inc., New York, N. Y. 611,523-7, pub. 5-24-55. Cl. 47.  
 Shemanski, Joseph, d. b. a. Homis Co., Los Angeles, Calif. 406,333, can. Cl. 27.  
 Shemanski, Joseph, d. b. a. Homis Co., Los Angeles, Calif. 412,842, can. Cl. 27.  
 Sherman, Robert, New York, N. Y. 507,959, can. Cl. 26.  
 Shoporama Co., Valley Stream, N. Y. 611,450, pub. 5-24-55. Cl. 38.  
 Silemon Mfg. Co., Kansas City, Mo. 611,437, pub. 5-31-55. Cl. 34.  
 Silicone Waterproofing Co.: See—  
 Sterling, Frank R.  
 Sinclair Mfg. Co., The, Toledo, Ohio. 611,548, pub. 5-31-55. Cl. 52.  
 Skaggs, Horace G., Ashland, Ky. 611,373, pub. 5-31-55. Cl. 22.  
 Skarie, Inc., Baltimore, Md. 611,402, pub. 5-24-55. Cl. 23.  
 Ski Antics, Inc.: See—  
 Bleecker-Kahler Co.  
 Slee-Purrs Mfg. Co., New York, N. Y. 611,469, pub. 5-31-55. Cl. 39.  
 Smalley Mfg. Co., Manitowoc, Wis. 507,784, can. Cl. 23.  
 Smith, Joshua, (1908) Ltd., Manchester, England. 611,495, pub. 6-31-55. Cl. 42.  
 Smith, Werner G., Inc., Cleveland, Ohio. 611,564. Cl. 6.  
 Societa Anonima Fratelli Branca, Milan, Italy. 317,759, ren. 10-2-54. Cl. 18.  
 Societe Civile et immobiliere du Chateau Margaux, Margaux, France. 320,778, ren. 1-8-55. Cl. 47.  
 Solv Co.: See—  
 Solv Co., Inc.  
 Solv Co., Inc., d. b. a. Solv Co., North Hollywood, Calif. 611,275, pub. 5-24-55. Cl. 6.  
 Southwestern Wholesale Jewelry Co., Houston, Tex. 611,429, pub. 5-24-55. Cl. 27.  
 Spalding, A. G., & Bros., Inc., Chicopee, Mass. 611,369, pub. 5-24-55. Cl. 22.  
 Spellings, Lucian L., d. b. a. The Fasweet Co., Jonesboro, Ark. 611,515, pub. 5-24-55. Cl. 46.  
 Spotless Stores, Inc., New York, N. Y. 611,600. Cl. 106.  
 Standard Packaging Corp., Chicago, Ill. 611,259-60, pub. 5-31-55. Cl. 2.  
 Standard Packaging Corp., Chicago, Ill. 611,405, pub. 5-24-55. Cl. 23.  
 Standard Packaging Corp., Chicago, Ill. 611,408, pub. 5-24-55. Cl. 23.  
 Steelcote Mfg. Co., to Steelcote Mfg. Co., St. Louis, Mo. 329,623, ren. 11-5-55. Cl. 16.  
 Stenzel, K., & Sons, Inc., New York, N. Y. 507,971, can. Cl. 26.  
 Sterling Drug Inc., New York, N. Y. 611,273, pub. 5-24-55. Cl. 6.  
 Sterling, Frank R., d. b. a. Silicone Waterproofing Co., Edgewood, R. I. 611,320, pub. 6-29-55. Cl. 16.  
 Stevenson & Son, Ltd., Dungannon, Ireland. 507,947, can. Cl. 42.  
 Stewart-Warner Corp., Chicago, Ill. 436,389, can. Cl. 21.  
 Stier, Joseph B., d. b. a. Styron Art Products Co., New York, N. Y. 611,255, pub. 4-6-54. Cl. 2.  
 Stokvis, Edera & Co., Inc., Fort Washington, N. Y. 611,337, pub. 5-31-55. Cl. 19.  
 Straesburgh, R. J., Co., Rochester, N. Y. 611,336, pub. 5-24-55. Cl. 18.  
 Stratemeyer Syndicate, East Orange, N. J. 611,377, pub. 5-31-55. Cl. 22.  
 Stroock, S., & Co., Inc., New York, N. Y. 611,496, pub. 5-24-55. Cl. 42.  
 Studio City Television Productions, Inc., North Hollywood, Calif. 611,414, pub. 5-31-55. Cl. 26.  
 Styron Art Products Co.: See—  
 Stier, Joseph B.  
 Suddeutsche Zellwolle A. G., Kehlheim-Ost, Germany. 600,178, can. Cl. 43.  
 Sunset Distilling Co., Not Inc.: See—  
 Goldberg, Nat D.  
 Swann, Damon J., d. b. a. Damon J. Swann Advertising Agency, Atlanta, Ga. 611,598. Cl. 101.  
 Swann, Damon J., Advertising Agency: See—  
 Swann, Damon J.  
 Swell-Wear, Inc., New York, N. Y. 611,470, pub. 5-24-55. Cl. 39.  
 Switzer Brothers, Inc., Cleveland, Ohio. 611,328, pub. 5-31-55. Cl. 16.  
 Tanner-Brice Co., Vidalia, Ga., now by change of name to Piggly Wiggly Sims Stores, Inc. 611,518, pub. 5-31-55. Cl. 46.  
 Taylor, Halsey W., Co., The, Warren, Ohio. 611,433, pub. 5-31-55. Cl. 31.  
 Taylor Machine Works, Louisville, Miss. 611,406, pub. 5-24-55. Cl. 23.  
 Technical Appliance Corp., Sherburne, N. Y. 611,356-7, pub. 5-31-55. Cl. 21.  
 Telecourses, Inc., Richmond, Va. 611,559-60, pub. 5-24-55. Cl. 107.  
 Tetfoam Corp., St. Louis, Mo. 611,441, pub. 5-31-55. Cl. 34.  
 Textron American, Inc.: See—  
 American Woolen Co.  
 Thermomat Co., Inc., Trenton, N. J. 611,360, pub. 5-31-55. Cl. 21.  
 Thomas, M. & W., Co., New York, N. Y. 507,776, can. Cl. 42.  
 Thomist Press, The: See—  
 Dominican Fathers, Province of St. Joseph.  
 Thompson, John R., Co., Chicago, Ill. 134,445, can. Cl. 46.  
 Thomson, J. G., and Co., Ltd., Leith, Edinburgh, Scotland. 324,468, 12(c) pub. 8-30-55. Cl. 49.  
 Thrifty Drug Co. Ltd., by Thrifty Drug Stores Co. Inc., Los Angeles, Calif. 322,491, 12(c) pub. 8-30-55. Cl. 23.  
 Thrifty Drug Co., Ltd., d. b. a. Thrifty Drug Stores, by Thrifty Drug Stores Co. Inc., Los Angeles, Calif. 322,746, 12(c) pub. 8-30-55. Cl. 47.  
 Thrifty Drug Co. Ltd., by Thrifty Drug Stores Co. Inc., Los Angeles, Calif. 324,448, 12(c) pub. 8-30-55. Cl. 38.  
 Thrifty Drug Stores: See—  
 Thrifty Drug Co., Ltd.  
 Thrifty Drug Stores Co. Inc.: See—  
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 Tipton, R. M., & Co.: See—  
 Tipton, Ralph M.  
 Tipton, Ralph M., d. b. a. R. M. Tipton & Co., Brookfield, Ill. 611,546, pub. 5-31-55. Cl. 52.  
 Titan Metal Mfg. Co., Bellefonte, Pa. 611,314, pub. 5-31-55. Cl. 13.  
 Tompkins' Label Service, Philadelphia, Pa. 611,584. Cl. 38.  
 Towne Talk Co., Los Angeles, Calif. 372,461, can. Cl. 45.  
 Transvision, Inc., New Rochelle, N. Y. 611,349-50, pub. 5-31-55. Cl. 21.



- Travelmaster Coach Corp., Elkhart, Ind. 611,340, pub. 5-31-55. Cl. 19.  
 Triner, Joseph, Co., Chicago, Ill. 291,946, canc. Cl. 18.  
 Trojan Powder Co., Allentown, Pa. 611,268, pub. 5-17-55. Cl. 6.  
 Truax-Traer Coal Co., Chicago, Ill. 426,672, 12(c) pub. 8-30-55. Cl. 1.  
 Trudelle Doll & Toy Mfg. Co., Inc., New York, N. Y. 611,385, pub. 5-31-55. Cl. 22.  
 Tucker Corp., Chicago, Ill. 507,868, canc. Cl. 19.  
 Tukkukauppojen Oy: See—  
 Tullitikk Oy.  
 Tullitikk Oy, by Tukkukauppojen Oy, Helsinki, Finland. 322,470, 12(c) pub. 8-30-55. Cl. 9.  
 Tyler, John W., Chicago, Ill. 611,563. Cl. 4.  
 United Aniline Co., Boston, Mass. 611,544, pub. 5-31-55. Cl. 52.  
 United States Department of Agriculture, Washington, D. C. 508,012, canc. Cl. 1.  
 United States Rubber Co.: See—  
 United States Rubber Products, Inc.  
 United States Rubber Products, Inc., by United States Rubber Co., New York, N. Y. 323,730, 12(c) pub. 8-30-55. Cl. 43.  
 Universal Publicizers, Inc., Chicago, Ill. 611,342, pub. 5-31-55. Cl. 21.  
 U-Type-It Co. of America, The, Jasper, Ind. 611,552, pub. 5-24-55. Cl. 101.  
 Vacu-Dry Co.: See—  
 Boothe Fruit Co.  
 Valenzuela, Franco, d. b. a. Cublette Sales Agency, Nogales, Ariz. 398,511, canc. Cl. 46.  
 Valley View Packing Co.: See—  
 Valley View Packing Co., Inc.  
 Valley View Packing Co., Inc., d. b. a. Valley View Packing Co., San Jose, Calif. 611,519, pub. 5-24-55. Cl. 46.  
 Van Pelt Corp., Detroit, Mich. 611,443, pub. 5-31-55. Cl. 38.  
 Vaughn, De Witt C., Rocky Mount, Va. 611,300, pub. 5-31-55. Cl. 12.  
 Vodine Co., Chicago, Ill. 436,288, canc. Cl. 6.  
 Vogue Dolls, Inc., Medford, Mass. 611,370, pub. 5-31-55. Cl. 22.  
 Walker, Hiram, & Sons Inc.: See—  
 Walker, Hiram, & Sons Ltd.  
 Walker, Hiram, & Sons Inc., Detroit, Mich. 329,082, ren. 10-15-55. Cl. 49.  
 Walker, Hiram, & Sons Ltd., Walkerville, Ontario, Canada, by Hiram Walker & Sons Inc., Peoria, Ill. 324,867, 12(c) pub. 8-30-55. Cl. 49.  
 Walker, Madam C. J., Mfg. Co., The, d. b. a. Mme. C. J. Walker Mfg. Co., Indianapolis, Ind. 611,542, pub. 5-24-55. Cl. 51.  
 Walker, Mme. C. J., Mfg. Co.: See—  
 Walker, Madam C. J., Mfg. Co., The.  
 Walker Properties Association, Austin, Tex. 239,005, canc. Cl. 46.  
 Walker, T. V., & Son, Inc., Burbank, Calif. 611,302, pub. 5-31-55. Cl. 12.  
 Wanamaker, John, Philadelphia, Pa. 31,794, canc. Cl. 39.  
 Waring Products Corp., New York, N. Y. 611,436, pub. 5-24-55. Cl. 33.  
 Warner, William R., & Co., Inc., New York, N. Y. 507,972, canc. Cl. 6.  
 Washburn: See—  
 Washburn, Frederick C.  
 Washburn, Frederick C., d. b. a. Washburn, New Bedford, Mass. 611,395, pub. 5-31-55. Cl. 23.  
 Weathered, Martha, Shops, Inc., Chicago, Ill. 611,484, pub. 5-31-55. Cl. 39.  
 Wedge Seal Co.: See—  
 Haynes, Joseph E.  
 Weiner, Lewis, d. b. a. Lewis Weiner Engineering Co., Long Island City, N. Y. 611,566. Cl. 13.  
 Weiner, Lewis, Engineering Co.: See—  
 Weiner, Lewis.  
 Wella Corp., The, New York, N. Y. 611,551, pub. 11-18-52. Cl. 51.  
 Western Idaho Potato Growers, Inc., Caldwell, Idaho. 413,847, canc. Cl. 46.  
 Western Packing Co., Guadalupe, Calif. 611,516, pub. 5-24-55. Cl. 46.  
 Western Paper Goods Co., The, Cincinnati, Ohio. 611,257, pub. 5-24-55. Cl. 2.  
 Wheary Trunk Co., Racine, Wis. 389,401-2, canc. Cl. 3.  
 Wheeling Corrugating Co., Wheeling, W. Va. 611,292, pub. 4-26-55. Cl. 12.  
 Whiteball Pharmacal Co.: See—  
 Parodney, Abraham.  
 Whiting, E. B. & A. C., Co., Burlington, Vt. 611,250-1, pub. 5-31-55. Cl. 1.  
 Whitney, Elizabeth: See—  
 Old Empire Mfg. Chemists, Inc.  
 Wilhelm, George, d. b. a. Mid-Continental Laboratories, Kansas City, Mo. 405,564, canc. Cl. 46.  
 Wilkes, Frederic, d. b. a. Magic Maid Laboratories, Wilkinsburg, Pa. 245,229, canc. Cl. 4.  
 Wilson, Andrew, Inc., Springfield, N. J. 415,987, canc. Cl. 6.  
 Wilson Sporting Goods Co., Chicago, Ill. 611,380, pub. 5-24-55. Cl. 22.  
 Winslow, Carmi, d. b. a. Mutual Products Co., Minneapolis, Minn. 170,889, canc. Cl. 46.  
 Wintersmith Chemical Co., Louisville, Ky. 507,832, canc. Cl. 6.  
 Winthrop-Stearns Inc., New York, N. Y. 611,335, pub. 5-24-55. Cl. 18.  
 Wispese Corp., New York, N. Y. 611,489, pub. 5-31-55. Cl. 39.  
 Wittek Mfg. Co., Chicago, Ill. 611,313, pub. 5-8-55. Cl. 13.  
 Wohl Shoe Co., St. Louis, Mo. 330,094, ren. 11-19-55. Cl. 39.  
 Wolfenden, R., & Sons, Attleboro, Mass. 422,549, canc. Cl. 43.  
 Woodson Tool Co., Inglewood, Calif. 611,407, pub. 5-24-55. Cl. 23.  
 Woodward & Lothrop, Washington, D. C. 611,452, pub. 5-31-55. Cl. 38.  
 Woolfolk Chemical Works, Ltd., Fort Valley, Ga. 611,280, pub. 5-24-55. Cl. 6.  
 Young, B. M., Philadelphia, Pa. 373,576, canc. Cl. 38.  
 Youngstown Sheet and Tube Co., The, Youngstown, Ohio. 329,752, ren. 11-12-55. Cl. 1.  
 Ziff-Davis Publishing Co., New York, N. Y. 611,586. Cl. 38.  
 Zoysia Farm Nurseries, Baltimore, Md. 611,244, pub. 5-31-55. Cl. 1.



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